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PageWhere are the Lesson Files? What's on the Disc Important! Acknowledgments Contents Getting Premiere Pro Optimizing performance Using the lesson files How to use these lessons Online content Additional resources Adobe
Authorized Training Centers1 Touring Adobe Premiere Pro Starting the lesson Performing nonlinear editing in Premiere Pro interface Hands on: Edit your first video Using and setting keyboard shortcuts Review guestions Review answers2 Setting Up a Project Starting
the lesson Creating a project Setting up a sequence Explore the Project Settings Review questions Review answers Importing Media Starting the lesson Importing Media Starting the lesson Importing media files Working with ingest options and proxy media Working with the Media Browser panel Importing a sequence Explore the Project Settings Review questions Review answers and proxy media Working with the Media Browser panel Importing a sequence Explore the Project Settings Review questions and proxy media Working with ingest options and proxy media Working with the Media Browser panel Importing Media Starting the lesson Importing Media Starting the lesson Importing Media Starting the Importing Media Starting
the media cache Recording a voice-over Review questions Review answers4 Organizing Media Starting the lesson Using the Project panel Working with bins Review questions Review answers5 Mastering the Essentials of Video Editing Starting the lesson Using the
Source Monitor Navigating the Timeline panel Using essential editing commands Performing storyboard-style editing Review answers6 Working With Clips and Markers Starting the Program Monitor controls Setting the playback resolution Playing back VR video Using markers Using
Sync Lock and Track Lock Finding gaps in the sequence Selecting clips Moving clips Extracting and deleting segments Review questions? Using handles Adding video transitions Using A/B mode to fine-tune a transition Adding audio
transitions Review questions Review answers8 Mastering Advanced Editing Techniques Starting the lesson Performing a four-point edit Changing clips and media Nesting sequences Performing regular trimming Performing advanced trimming Trimming in the Program Monitor Review
questions Review answers9 Putting Clips in Motion Starting the lesson Adjusting the Auto Reframe effect Changing clip position, size, and rotation Working with keyframe interpolation Applying the Auto Reframe effect Adding a drop shadow Review questions Review answers10 Editing and Mixing Audio Starting the lesson
Setting up the interface to work with audio Examining audio characteristics Recording a voice-over track Adjusting audio levels for a clip Review questions Review answers11 Improving Audio Starting the lesson Improving audio with the Essential Sound panel
Adjusting dialogue audio Review questions Review answers12 Adding Video Effects Starting the lesson Working with visual effects Keyframing effects Using effect presets Exploring frequently used effects Using the Render And Replace command Review
questions Review answers13 Applying Color Correction and Grading Starting the lesson Understanding display color management Following the color-adjustment effects Fixing exposure problems Correcting color offset Using special color
effects Creating a distinctive look Review questions Review answers14 Exploring Compositing Techniques Starting the lesson What is an alpha channel? Making compositing part of your project Working with the Opacity effect Adjusting alpha channel transparencies Color keying a greenscreen shot Partially masking
clips Review questions Review answers15 Creating New Graphics Starting the lesson Exploring the Essential Graphics panel Mastering video typography essentials Creating New Graphics Starting the Lesson Exploring the Essential Graphics and logos Making a title roll Working with motion graphics templates Adding captions Review questions
Review answers16 Exporting Frames, Clips, and Sequences Starting the lesson Understanding the media export options Exporting a master copy Working with Adobe Media Encoder Uploading to social media Exchanging with other editing applications Final practice Review questions Review
answersIndexGlossary17 Managing Your Projects Starting the lesson Using the File menu Using the Project Manager Performing trom projects Importing from projects with the Media Browser Managing collaboration Using the Libraries panel Managing your storage Review
questions Review answers Citation preview Contents 1. Cover Page 2. Title Page 3. Copyright Page 4. Where are the Lesson Files? 5. What's on the Disc 1. Important! 6. Acknowledgments 7. Contents 8. Getting Started 1. About Classroom in a Book 2. Prerequisites 3. Installing Premiere Pro 4. Optimizing performance
5. Using the lesson files 6. Relinking the lesson files 7. How to use these lessons 8. Online content 9. Additional resources 10. Adobe Premiere Pro 1. Starting the lesson 2. Performing nonlinear editing in Premiere Pro 3. Expanding the workflow 4. Touring the Premiere
Pro interface 5. Hands on: Edit your first video 6. Using and setting Up a Project 1. Starting U
Starting the lesson 2. Importing media files 3. Working with ingest options and proxy media 4. Working with the Media Browser panel 5. Importing the media cache 8. Recording a voice-over 9. Review questions 10. Review answers 12. 4 Organizing Media 1. Starting
the lesson 2. Using the Project panel 3. Working with bins 4. Reviewing footage 5. Freeform view 6. Modifying clips 7. Review answers 13. 5 Mastering the Essentials of Video Editing 1. Starting the lesson 2. Using the Source Monitor 3. Navigating the Timeline panel 4. Using essential editing
commands 5. Performing storyboard-style editing 6. Review questions 7. Review answers 14. 6 Working With Clips and Markers 1. Starting the playback resolution 4. Playing back VR video 5. Using markers 6. Using Sync Lock and Track Lock 7. Finding gaps
in the sequence 8. Selecting clips 9. Moving clips 10. Extracting and deleting segments 11. Review questions 12. Review answers 15. 7 Adding Transitions 2. Using handles 4. Adding video transitions 5. Using A/B mode to fine-tune a transition 6. Adding audio transitions 7.
Review questions 8. Review answers 16. 8 Mastering Advanced Editing Techniques 1. Starting the lesson 2. Performing a four-point edit 3. Changing clip playback speed 4. Replacing clips and media 5. Nesting sequences 6. Performing regular trimming 7. Performing advanced trimming 8. Trimming in the Program
Monitor 9. Review questions 10. Review answers 17. 9 Putting Clips in Motion 1. Starting the lesson 2. Adjusting the Motion 4. Working with keyframe interpolation 5. Applying the Auto Reframe effect 6. Adding a drop shadow 7. Review questions 8. Review answers 18.
10 Editing and Mixing Audio 1. Starting the lesson 2. Setting up the interface to work with audio 3. Examining audio volume 6. Auto-duck music 7. Creating a split edit 8. Adjusting audio levels for a clip 9. Review guestions 10. Review answers 19. 11
Improving Audio 1. Starting the lesson 2. Improving audio with the Essential Sound panel 3. Adjusting dialogue audio 4. Review answers 20. 12 Adding Video Effects 1. Starting the lesson 2. Working with visual effects 3. Applying master clip effects 4. Masking and tracking visual effects 5.
Keyframing effects 6. Using effect presets 7. Exploring frequently used effects 8. Using the Render And Replace command 9. Review answers 21. 13 Applying Color Correction and Grading 1. Starting the lesson 2. Understanding display color management 3. Following the color adjustment
workflow 4. Using Comparison view 5. Matching colors 6. Exploring the color-adjustment effects 1. Creating a distinctive look 11. Review guestions 12. Review answers 22. 14 Exploring Compositing Techniques 1. Starting the lesson 2.
What is an alpha channel? 3. Making compositing part of your project 4. Working with the Opacity effect 5. Adjusting alpha channel transparencies 6. Color keying a greenscreen shot 7. Partially masking clips 8. Review questions 9. Review answers 23. 15 Creating New Graphics 1. Starting the lesson 2. Exploring the
Essential Graphics panel 3. Mastering video typography essentials 4. Creating new titles 5. Text styles 6. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 7. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes a title roll 8. Working with shapes and logos 8. Making a title roll 8. Working with shapes a title roll 8. Working with shapes a title roll 8. Working with shapes a title roll 8. Wor
Starting the lesson 2. Understanding the media export options 3. Exporting single frames 4. Exporting a master copy 5. Working with other editing applications 8. Final practice 9. Review questions 10. Review answers 25. Index 26. Glossary 27. 17
Managing Your Projects 1. Starting the lesson 2. Using the File menu 3. Using the Project Manager 4. Performing the final projects with the Media Browser 7. Managing collaboration 8. Using the Libraries panel 9. Managing your storage 10. Review
questions 11. Review answers 1. i 2. ii 3. iii 4. iv 5. v 6. vi 7. vii 8. viii 9. ix 10. x 11. 1 12. 2 13. 3 14. 4 15. 5 16. 6 17. 7 18. 8 19. 9 20. 10 21. 11 22. 12 23. 13 24. 14 25. 15 26. 16 27. 17 28. 18 29. 19 30. 20 31. 21 32. 22 33. 23 34. 24 35. 25 36. 26 37. 27 38. 28 39. 29 40. 30 41. 31 42. 32 43. 33 44. 34 45. 35 46. 36 47.
37 48. 38 49. 39 50. 40 51. 41 52. 42 53. 43 54. 44 55. 45 56. 46 57. 47 58. 48 59. 49 60. 50 61. 51 62. 52 63. 53 64. 54 65. 55 66. 56 67. 57 68. 58 69. 59 70. 60 71. 61 72. 62 73. 63 74. 64 75. 65 76. 66 77. 67 78. 68 79. 69 80. 70 81. 71 82. 72 83. 73 84. 74 85. 75 86. 76 87. 77 88. 78 89. 79 90. 80 91. 81 92. 82 93. 83
94, 84 95, 85 96, 86 97, 87 98, 88 99, 89 100, 90 101, 91 102, 92 103, 93 104, 94 105, 95 106, 96 107, 97 108, 98 109, 99 110, 100 111, 101 112, 102 113, 103 114, 104 115, 105 116, 106 117, 107 118, 108 119, 109 120, 110 121, 111 122, 112 123, 113 124, 114 125, 115 126, 116 127, 117 128, 118 129, 119 130, 120
131, 121 132, 122 133, 123 134, 124 135, 125 136, 126 137, 127 138, 128 139, 129 140, 130 141, 131 142, 132 143, 133 144, 134 145, 135 146, 136 147, 137 148, 138 149, 139 150, 140 151, 141 152, 142 153, 143 154, 144 155, 145 156, 146 157, 147 158, 148 159, 149 160, 150 161, 151 162, 152 163, 153 164, 154 154, 154 154, 154 155, 145 156, 146 157, 147 158, 148 159, 149 160, 150 161, 151 162, 152 163, 153 164, 154 154, 154 155, 154 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156, 155 156,
165. 155 166. 156 167. 157 168. 158 169. 159 170. 160 171. 161 172. 162 173. 163 174. 164 175. 165 176. 166 177. 167 178. 168 179. 182. 172 183. 173 184. 174 185. 175 186. 176 187. 177 188. 178 189. 179 190. 180 191. 181 192. 182 193. 183 194. 184 195. 185 196. 186 197. 187 198. 188
199. 189 200. 190 201. 191 202. 192 203. 193 204. 194 205. 195 206. 196 207. 197 208. 198 209. 199 210. 200 211. 201 212. 202 213. 203 214. 204 215. 205 216. 206 217. 207 218. 208 219. 209 220. 210 221. 211 222. 212 223. 213 224. 214 225. 215 226. 216 227. 217 228. 218 229. 219 230. 220 231. 221 232. 222
233. 223 234. 224 235. 225 236. 226 237. 227 238. 228 239. 229 240. 230 241. 231 242. 232 243. 233 244. 234 265. 252 263. 235 246. 235 246. 236 247. 237 248. 238 249. 239 250. 240 251. 241 252. 242 253. 243 254. 244 255. 245 256. 246 257. 247 258. 248 259. 249 260. 250 261. 251 262. 252 263. 253 264. 254 265. 255 266. 256 266. 256
267. 257 268. 258 269. 259 270. 260 271. 261 272. 262 273. 263 274. 264 275. 265 276. 266 277. 267 278. 268 279. 269 280. 270 281. 271 282. 272 283. 273 284. 274 285. 275 286. 276 287. 277 288. 278 289. 279 290. 280 291. 281 292. 282 293. 283 294. 284 295. 285 296. 286 297. 287 298. 288 299. 289 300. 290
301. 291 302. 292 303. 293 304. 294 305. 295 306. 296 307. 297 308. 298 309. 299 310. 300 311. 301 312. 302 313. 303 314. 304 315. 305 316. 306 317. 307 318. 308 319. 309 320. 310 321. 311 322. 312 323. 313 324. 314 325. 315 326. 316 327. 317 328. 318 329. 319 330. 320 331. 321 332. 322 333. 323 334. 324
335. 325 336. 326 337. 327 338. 328 339. 329 340. 330 341. 331 342. 332 343. 333 344. 334 345. 335 346. 336 347. 337 348. 338 349. 339 350. 340 351. 341 352. 342 353. 343 354. 344 355. 345 356. 346 357. 347 358. 348 359. 349 360. 350 361. 351 362. 352 363. 353 364. 354 365. 355 366. 356 367. 357 368. 358
369, 359 370, 360 371, 361 372, 362 373, 363 374, 364 375, 365 376, 366 377, 367 378, 368 379, 369 380, 370 381, 371 382, 372 383, 373 384, 374 385, 375 386, 376 387, 387 388, 378 389, 379 390, 380 391, 381 392, 382 393, 383 394, 384 395, 385 396, 386 397, 387 398, 388 399, 389 400, 390 401, 391 402, 392
403, 393 404, 394 405, 395 406, 396 407, 397 408, 398 409, 399 410, 400 411, 401 412, 402 413, 403 414, 404 415, 405 416, 406 417, 407 418, 408 419, 409 420, 410 421, 411 422, 412 423, 413 424, 414 425, 415 426, 416 427, 417 428, 418 429, 419 430, 420 431, 421 432, 422 433, 423 434, 424 435, 425 436, 426
437. 427 438. 428 439. 429 440. 430 441. 431 442. 432 443. 433 444. 434 445. 435 446. 436 447. 437 448. 438 449. 439 450. 440 455. 445 456. 446 457. 447 458. 448 459. 449 460. 450 461. 451 462. 452 463. 453 464. 454 465. 455 466. 456 467. 457 468. 458 469. 459 470. 460
471, 461 472, 462 473, 463 474, 464 475, 465 476, 466 477, 467 478, 468 479, 469 480, 470 481, B17-2 482, B17-3 483, B17-4 484, B17-9 489, B17-10 490, B17-11 491, B17-12 492, B17-13 493, B17-14 494, B17-15 495, B17-16 496, B17-17 497, B17-18 498, B17-19 499, B17-19 499,
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Footage from She. Copyright © 2017 by Maxim Jago. Acknowledgments Producing effective learning materials for such an advanced technology experts have all contributed to this book. There are too many names to mention, but let's say this: I
have often joked that in Britain we don't say "awesome." Instead, we say "perfectly acceptable." On this occasion, "perfectly acceptable isn't enough. Rather, I will have to say our British equivalent of "super awesome": Those people who make this world better by sharing, nurturing, caring, showing, telling, demonstrating,
making, and helping are all "definitely more than acceptable." Everything on these pages was inspected by a team of experienced editors, naming errors, false attributions, suspect grammar, unhelpful phrasing, and inconsistent descriptions. This wonderful team didn't just
highlight text that needed correcting. They offered positive alternatives that I could simply agree to, so in a literal sense, this book is the product of many people's contributions. I'd like to thank the teams at Peachpit and Adobe Press, who made it possible to produce such a beautifully finessed work. As each draft lesson
was completed, and with the helpful guidance of Laura Norman, the most amazing and highly experienced Victor Gavenda checked over the text to make sure it was ideally accessible for learners, and all references to the technology were reviewed by the remarkable media technology expert Jarle Leirpoll, who has an
incredible depth of knowledge of Premiere Pro. I tip my hat to Linda Laflamme for spotting typos we would otherwise have missed. Some of the content of this book is derived from material originally written by the world-renowned media trainer Richard Harrington. The original table of contents was worked out by the two
of us, and though I have updated Richard's lessons, rephrased, and reworded them, a substantial amount remains unchanged or is significantly informed by his great original work. Finally, let's not forget Adobe. The passion and enthusiasm demonstrated by those wonderful individuals, who are so committed to creatives
like you and me, qualifies as "the most acceptable of all." They are, indeed, extraordinarily awesome! —Maxim Jago Contents GETTING STARTED About Classroom in a Book Prerequisites Installing Premiere Pro Optimizing performance Using the lesson files Relinking the lesson files How to use these lessons Online
content Additional resources Adobe Authorized Training Centers 1 TOURING ADOBE PREMIERE PRO Starting the lesson Performing nonlinear editing in Premiere Pro interface Hands on: Edit your first video Using and setting keyboard shortcuts Review questions
Review answers 2 SETTING UP A PROJECT Starting the lesson Creating a project Setting up a seguence Explore the Project Setting MEDIA Starting the lesson Importing media files Working with ingest options and proxy media Working with the Media Browser panel
Importing still image files Using Adobe Stock Customizing the media cache Recording a voice-over Review questions Review answers 4 ORGANIZING MEDIA Starting the Project panel Working with bins Reviewing footage Freeform view Modifying clips Review questions Review answers 5
MASTERING THE ESSENTIALS OF VIDEO EDITING Starting the lesson Using the Source Monitor Navigating the Timeline panel Using essential editing Review answers 6 WORKING WITH CLIPS AND MARKERS Starting the lesson Using the Program
Monitor controls Setting the playback resolution Playing back VR video Using markers Using Sync Lock and Track Lock Finding gaps in the seguence Selecting clips Extracting and deleting segments Review questions Review answers 7 ADDING TRANSITIONS Starting the lesson What are transitions?
Using handles Adding video transitions Using A/B mode to fine-tune a transition Adding audio transitions Review answers 8 MASTERING ADVANCED EDITING TECHNIQUES Starting the lesson Performing a four-point edit Changing clip playback speed Replacing clips and media Nesting sequences
Performing regular trimming Performing advanced trimming Trimming in the Program Monitor Review questions Review answers 9 PUTTING CLIPS IN MOTION Starting the Motion effect Changing clip position, size, and rotation Working with keyframe interpolation Applying the Auto Reframe effect
Adding a drop shadow Review questions Review answers 10 EDITING AND MIXING AUDIO Starting the lesson Setting up the interface to work with audio examining audio characteristics Recording a voice-over track Adjusting audio volume Auto-duck music Creating a split edit Adjusting audio levels for a clip Review
questions Review answers 11 IMPROVING AUDIO Starting the lesson Improving audio with the Essential Sound panel Adjusting visual effects Applying master clip effects Masking and tracking visual
effects Keyframing effects Using effect presets Exploring frequently used effects Using the Render And Replace command Review answers 13 APPLYING COLOR CORRECTION AND GRADING Starting the lesson Understanding display color management Following the color adjustment workflow
Using Comparison view Matching colors Exploring the color-adjustment effects Fixing exposure problems Correcting color offset Using special color offset Usi
compositing part of your project Working with the Opacity effect Adjusting alpha channel transparencies Color keying a greenscreen shot Partially masking clips Review answers 15 CREATING NEW GRAPHICS Starting the lesson Exploring the Essential Graphics panel Mastering video typography
essentials Creating new titles Text styles Working with shapes and logos Making a title roll Working with motion graphics templates Adding captions Review answers 16 EXPORTING FRAMES, CLIPS, AND SEQUENCES Starting the lesson Understanding the media export options Exporting single
frames Exporting a master copy Working with Adobe Media Encoder Uploading to social media Exchanging with other editing applications Review answers INDEX GLOSSARY 17 MANAGING YOUR PROJECTS Getting Started Adobe Premiere Pro, the essential video editing application
for professionals and video enthusiasts, is an incredibly scalable, efficient, and flexible video editing system. It supports a broad range of video, audio, and image formats. Premiere Pro lets you work faster and more creatively without converting your media. The complete set of powerful and exclusive tools lets you
overcome any editorial, production, and workflow challenges to deliver the high-quality work you demand. Importantly, Adobe has carefully developed a user experience that is intuitive, flexible, and efficient, with unified design elements that match across multiple applications, making it easier to explore and discover new
workflows. ABOUT CLASSROOM IN A BOOK Adobe Premiere Pro Classroom in a Book (2020 release) is part of the official training series for Adobe graphics and publishing and creative video software. The lessons are designed so that you can learn at your own pace. If you're new to Premiere Pro, you'll learn the
fundamental concepts and features you'll need to use the program. This book also teaches many advanced features, including tips and techniques for using the latest version of this software. The lessons in this edition include opportunities for hands-on practice using features such as chromakeving, dynamic trimming,
color correction, media management, audio and video effects, and audio mixing. You'll also learn how to create files for the web and macOS. PREREQUISITES Before beginning to use Adobe Premiere Pro Classroom in a Book
(2020 release), make sure your system is set up correctly and that you've installed the required software and hardware. You can view updated system requirements here: helpx.adobe.com/premiere-pro/systemrequirements.html You should have a working knowledge of your computer and operating system. For example,
you should know how to use the mouse and standard menus and commands and also how to open, save, and close files. If you need to review these techniques, see the documentation included with your Windows or macOS system. It's not necessary to have a working knowledge of video concepts and terminology, but
if you come across a term you're not familiar with, consult the Glossary at the end of the book. INSTALLING PREMIERE PRO You must purchase an Adobe Creative Cloud subscription, or obtain a trial version, separately from this book. For system requirements and complete instructions on installing the software, visit
www.adobe.com/support. You can purchase Adobe Creative Cloud by visiting www.adobe.com/creativecloud. Follow the on-screen instructions. In addition to Premiere Pro, you may want to install Premiere Pro.
These are all included with the full Adobe Creative Cloud license. OPTIMIZING PERFORMANCE Editing video places high demands on your computer processor and a lot of memory will make your editing experience faster and more efficient. This translates to a more fluid and enjoyable
creative experience—that is, more creative flow. Premiere Pro takes advantage of multicore processors (CPUs) and multiprocessor systems. The faster the performance you'll experience. The minimum system memory is 8 GB, and 16 GB or more is
recommended for ultra-high-definition (UHD) media. The speed of the storage drives you use for video playback is also a factor. A dedicated fast storage drive is recommended, particularly if you're working with UHD or
higher-resolution content. Storing your media files and program files on the same hard drive can affect performance. Keep your media files on a separate disk, if possible, for speed and media management. Premiere Pro can harness the power of your computer's graphics hardware, or graphics processing unit (GPU), to
improve playback performance. GPU acceleration provides a significant performance improvement, and most video cards with at least 2 GB of dedicated memory will work. You will find information about hardware and software requirements on the Adobe website at helpx.adobe.com/premiere-
pro/systemrequirements.html. USING THE LESSON FILES The lessons in this book use supplied source files, including video clips, audio files to your computer's storage drive. Some lessons use
files from other lessons, so you'll need to keep the entire collection of lesson assets on your storage drive as you work through the book. You will need to download the lesson files. You'll find instructions for
doing so on the first page of the ebook, in the section "How to get your lesson files," as well as later in this section, in "Online content." If you've purchased the printed version, you can copy the lesson files from the Adobe Premiere Pro Classroom in a Book disc (inside the back cover of this book). Here's how to copy
those assets from the disc to your storage drive: 1. Open the Adobe Premiere Pro Classroom in a Book disc in the Finder (macOS) or in My Computer or Windows Explorer (Windows). 2. Right-click the folder called Lessons and choose Copy. 3. Navigate to the location you have chosen to store your Premiere Pro
projects, right-click, and choose Paste. Tip If you don't have a dedicated storage location for your computer, see the
"Online content" section for more information about downloading the lesson files. RELINKING THE LESSON FILES The Premiere Pro projects included with the lesson files to a new location, you may need to update those links when you open projects
for the first time. Note If media files were originally stored in multiple locations, you may need to search more than once to relink all the media file, the Link Media dialog box may open, inviting you to relink offline files. If this happens,
select an offline clip on the list and click the Locate button. A file browser panel will appear. Locate the Lessons folder using the navigator on the left and click Search. Premiere Pro will locate the media file inside the Lessons folder. To hide all other files, making it easy to select the correct one, select the option to display
only exact name matches. The last known file path and file name are displayed at the top of the panel for reference. Select the file and click OK. The option to relink other files is enabled by default, so once you've located one file, the rest should reconnect automatically.
For more information about relocating offline media files, see Lesson 17, "Managing Your Projects" (print customers, see "Bonus material" later in this section). HOW TO USE THESE LESSONS The lessons in this book include step-by-step instructions. Each lesson stands alone, but many build on previous lessons. For
this reason, the best way to learn from this book is to proceed through the lessons one after another. The lessons begin with acquiring media files such as video, audio, and graphics; and they go on to creating a rough-cut sequence, adding
effects, sweetening the audio, and ultimately exporting the project. Many pages contain additional "sidebar" information boxes that explain a particular technology or offer alternative workflows. It's not necessary to read these additional boxes, or follow the workflows, to learn Premiere Pro, but you may find them
interesting and helpful as they will deepen your understanding of the complete end-to-end video postproduction. By the end of these lessons, you'll have a good understanding of the complete end-to-end video postproduction workflow, with the specific skills you need to edit on your own. As you explore the skills described in this book, you may find it
helpful to review earlier lessons you have already completed and to practice the fundamental editing techniques regularly. The advanced workflows build on fundamental principles that apply.
Ultimately this practice makes you better at training yourself. The focus of this book is on the technical skills editors use every day to produce film, television, and online videos. Taking time to try out different ways of achieving results can help to expand your artistic skills. As you learn new technical skills, watch videos
created by experienced editors with a critical eye and see if you can identify the techniques are the simplest, once you know the workflow. Practice makes perfect! ONLINE CONTENT Your purchase of this Classroom in a Book includes online
materials provided by way of your Account page on adobepress.com. These include: Lesson files by following the instructions below. Web Edition The Web Edition is an online interactive version of the book providing an enhanced
learning experience. Your Web Edition can be accessed from any device with a connection to the Internet, and it contains the following: The complete text of the book Hours of instructional video keyed to the text Interactive guizzes Accessing the lesson files and Web Edition You must register your purchase on
adobepress.com in order to access the online content: 1. Go to www.adobepress.com/PremiereCIB2020. 2. Sign in or create a new account, 3. Click Submit. 4. Answer the question as proof of purchase. 5. The lesson files can be accessed from the Registered Products tab on your Account page. Click the Access Bonus
Content link below the title of your product to proceed to the download page. Click the lesson file link(s) to download them to your Account page. Click the Launch link to access the product. Note If you encounter problems registering
your product or accessing the lesson files or web edition, go to www.adobepress.com/support for assistance. Note: If you purchased a digital product will already be registered. However, you still need to follow the registration steps and answer the
proof of purchase question before the Access Bonus Content link will appear under the product on your Registered Products tab. Bonus material that we couldn't fit it all in the printed pages, so we placed Lesson 17, "Managing Your Projects" You will find
this lesson on your account page (Lessons & Update Files tab) once you register your book, as described in "Accessing the lesson files and Web Edition." ADDITIONAL RESOURCES Adobe Premiere Pro Classroom in a Book (2020 release) is not meant to replace documentation that comes with the program or to be a
comprehensive reference for every feature. Only the commands and options used in the lessons are explained in this book. For comprehensive information about program features and tutorials, refer to the following resources, which you can reach by choosing commands from the Help menu. Adobe Premiere Pro Learn
and Support: helpx.adobe.com/premiere-pro.html is where you can find and browse Help and Support content on Adobe.com. You can also reach that page by choosing Help > Premiere Pro Help or by pressing F1. On the Learn & Support page, click User Guide for documentation on individual features or visit
helpx.adobe.com/premiere-pro/user-quide.html. On the User Guide page, click Premiere Pro tutorials: For a wide range of interactive tutorials on Adobe Premiere Pro features, choose Help > Premiere Pro Online Tutorials or visit
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helpx.adobe.com/premiere-pro/tutorials.html. You can also access tutorials from the Home screen by clicking Learn. A different set of tutorials is provided inside Premiere Pro on the Learn panel. To open it, choose either Help > Premiere Pro In-App Tutorials or Window > Workspaces > Learning. Premiere Pro blog:
theblog.adobe.com/creativecloud/premiere-pro brings you tutorials, product news, and inspirational articles about using Premiere Pro. Creative Cloud tutorials page, helpx.adobe.com/creative-
cloud/tutorials.html. Adobe Forums: Tap into peer-to-peer discussions, questions, and answers on Adobe products at forums.adobe.com. Visit the Premiere Pro forum at forum at
showcasing the work of top-notch designers, tutorials, and more. Check it out at create adobe.com. Resources for education and edex.adobe.com offer a treasure trove of information for instructors who teach classes on Adobe software. Find solutions for education at all levels, including free
curricula that use an integrated approach to teaching Adobe software and that can be used to prepare for the Adobe Exchange: www.adobeexchange.com/creativecloud.html is a central resource for finding tools, services, extensions, code samples,
and more to supplement and extend your Adobe Premiere Pro products. Adobe Premiere Pro product home page: adobe.com/products/premiere has more information about the product. ADOBE AUTHORIZED TRAINING CENTERS Adobe Authorized Training Centers offer instructor-led courses and training on Adobe products,
employing only Adobe Certified Instructors. A directory of AATCs is available at learning adobe com. 1 Touring Adobe Premiere Pro Lesson overview In this lesson, you'll learn how to do the following: Perform nonlinear editing. Understand the standard digital video workflow. Enhance the workflow with high-level features.
Check out the workspaces. Customize workspaces. Set keyboard shortcuts. This lesson will take about 60 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files
and Web Edition" in the Getting Started section at the beginning of this book. Store the files on your computer in a convenient location. Adobe Premiere Pro is a video-editing system that supports the latest technology and cameras with powerful tools that are intuitive to use and that integrate perfectly with almost every
video acquisition source. STARTING THE LESSON There is always great demand for high-quality video content, and today's video producers and editors work in a fast-changing landscape of old and new technologies. Despite rapid change in camera systems and the distribution landscape, particularly with the
development of highly influential social media, the goal of video editing is the same: You want to take your source footage and shape it, guided by your original vision, so that you can effectively communicate with your audience. In Adobe Premiere Pro, you'll find a video-editing system that supports the latest technology
and cameras with powerful tools that are easy to use. These tools integrate perfectly with almost every type of media, including immersive 360° video, as well as a wide range of third-party plug-ins and other postproduction tools. In this lesson, you'll begin by reviewing the essential post-production workflow that most
editors follow, and then you'll learn about the main components of the Premiere Pro interface and how to create custom workspaces. PERFORMING NONLINEAR EDITING IN PREMIERE PRO Premiere Pro is a nonlinear editor (NLE). Like a word processing application, Premiere Pro lets you place, replace, and move
video, audio, and images anywhere you want in your final edited work. You don't need to make adjustments in a particular order; you can change any part of an NLE. You'll combine multiple pieces of media, called clips, to create a sequence. You can edit any
part of the sequence in any order and then change the contents or move clips so that they play earlier or later. You can blend layers of video together, change the image size, adjust the colors, add special effects, adjust the audio mix, and more. You can combine multiple sequences and jump to any moment in a video
clip or sequence without needing to fast-forward or rewind. In Premiere Pro, organizing the clips you're working with is like organizing files on your computer. Premiere Pro, organizing the clips you're working with is like organizing files on your computer. Premiere Pro, organizing the clips you're working with is like organizing files on your computer. Premiere Pro, organizing the clips you're working with is like organizing the clips you're working with is like organizing the clips you're working with is like organizing files on your computer.
AVC-Intra, DSLR video, and Canon XF. RAW video formats are supported, including media from RED, ARRI, Sony, Canon, and Blackmagic cameras, as well as multiple 360° video and phone camera formats. Note The word clip comes from the days of celluloid film editing, where a section of film would be clipped to
separate it from a reel. Premiere Pro features native support for RAW media from RED cameras, with settings to control the way the media is interpreted. Using the standard digital video workflow As you gain editing experience, you'll develop your own preferences for the order in which to work on the different aspects of
your project. Each stage requires a particular kind of attention and different tools. Also, some projects call for more time spent on one stages with a quick mental check or spend hours (even days!) dedicated to perfecting an aspect of your project, you'll almost certainly
go through the following steps: 1. Acquire your media: This can mean recording original footage, creating new animated content, selecting storage: With file-based media, Premiere Pro can read the media files directly, usually with
no need for conversion. If you're working with file-based media, be sure to back up your files to a second location because storage drives sometimes physically fail unexpectedly. With tape-based formats, Premiere Pro (with the appropriate hardware) can convert the video into digital files. For video editing, use fast
storage for smooth playback. 3. Organize your clips: Your project may have a lot of video content to choose from. Invest the time to organize clips into special folders (called bins) in your project. You can add color labels and other metadata (metadata is additional information about the clips) to help keep things organized.
4. Create a sequence: Selectively combine the parts of the video and audio clips you want into one or more sequences. 5. Add transitions: Place special transitions: Place special transition effects between clips, add video effects, and create composite visuals by placing clips on multiple layers (called tracks in the Timeline panel). 6. Create or
import titles, graphics, and captions: Add them to your sequence along with your video clips to a file or videotape.
Premiere Pro supports each of these steps with industry-leading tools. A large community of creative and technical professionals is waiting to share their experience and support your development as an editor. Enhancing the workflow with Premiere Pro Premiere Pro has easy-to-use tools for video editing. It also has
advanced tools for manipulating, adjusting, and fine-tuning your projects. You may not make use of all of the following features in your first few video projects. However, as your experience and understanding of nonlinear editing grows, you'll want to expand your capabilities. It's beyond the scope of one book to cover all
of the expansive creative tools and capabilities of Premiere Pro. Still, this book will enable you to fully postproduce professional projects and get you ready to take your skills to the next level. The following topics will be covered: Advanced audio editing: Premiere Pro provides audio effects and editing tools unequaled by
any other nonlinear editor. As well as producing a soundtrack mix, you can clean up noisy audio, reduce reverb, make sample-level edits, apply multiple audio effects to audio e
look of your footage with advanced color-correction filters, including Lumetri, a dedicated color correction and grading panel. You can make secondary color-correction selections that allow you to adjust isolated colors, adjust selected areas of an image to improve the composition, and automatically match the colors in two
images. Keyframe controls: Premiere Pro gives you precise control over the timing of visual and motion effects without using a dedicated compositing or motion graphics application. Keyframes use a standard interface design; if you learn to use them in Premiere Pro, you'll know how to use them in all Adobe Creative
Cloud products in which they're available. Broad hardware support: Choose from a wide range of computers and laptops for video editing up to high-performance workstations that can easily edit 3D stereoscopic, high-
definition (HD), 4K, 8K, and 360° video. GPU acceleration: The Mercury Playback Engine operates in two modes: one that uses only software running in the central processing unit (CPU) for playback and one that uses graphics processing unit (GPU) acceleration for enhanced playback performance. GPU acceleration
mode requires a graphics card that meets minimum specifications in your workstation. See helpx.adobe.com/premierepro/system-requirements.html for a list of recommended graphics cards with a minimum of 2 GB of dedicated video memory will work. Multicamera editing: You can quickly and easily
edit productions shot with multiple cameras. Multiple cameras ources are displayed in a split-view, and you can automatically sync multiple camera angles based on clip audio or timecode. Project management: Manage your media
using a single dialog box. View, delete, move, search for, and reorganize clips and bins. Consolidate your projects by deleting unused media files. Metadata: Premiere Pro supports Adobe XMP, which stores additional
information about media as metadata that multiple applications can access. You can use this metadata to locate clips or communicate important information, such as preferred takes or copyright notices. Created in
almost any suitable software. For instance, you can import Adobe Photoshop files as flattened images or as separate layers that you can combine or animate selectively. You also can import and adjust Adobe After Effects motion graphics templates. Advanced trimming: Use dedicated trimming tools to make precise
adjustments to the start and end of clips in sequences. Premiere Pro provides quick, easy trimming keyboard shortcuts, as well as advanced onscreen trimming tools to make complex timing adjustments to multiple clips. Media encoding: Export your sequence to create a media file that is perfect for your needs. Use the
advanced features of Adobe Media Encoder to create copies of your finished sequence in multiple formats, based on presets or your own detailed specifications. You can apply color adjustments, timing changes, and information overlays during export, as well as upload media to social media platforms in a single step.
360° video for VR headsets: Edit and post-produce 360° video footage using a special VR Video display mode that lets you see specific regions of the picture, or view both your video and your edited clips via a VR headset, allowing a more natural and intuitive editing experience. Dedicated visual effects that meet the
unique demands of 360° video are included. EXPANDING THE WORKFLOW Although you can work with Premiere Pro as a standalone application, it is also a team player. Premiere Pro as a standalone application, it is also a team player.
software components work together will improve your efficiency and give you more creative freedom. Including other applications in the editing workflow Premiere Pro is a versatile video and audio postproduction tool, but it's just one component of Adobe Creative Cloud—Adobe's complete print, web, and video
environment that includes video-focused software for the following: High-end 3D motion effects creation Audio production Media management To incorporate one or more of these features into a production, you can use other
components of Adobe Creative Cloud. The software set has everything you need to produce advanced, professionally finished videos. Here's a brief description of the other components: Premiere Rush: Intuitive mobile and desktop editing tool that can produce projects compatible with Premiere Pro for advanced
finishing. Adobe After Effects: The popular tool of choice for motion graphics, animation, and visual effects artists. Adobe Character Animator: A tool for creating advanced animation with natural movement for 2D puppets using your webcam for face tracking. Adobe Photoshop: The industry-standard imageediting and
graphics-creation product. You can work with photos, video, and 3D objects to prepare them for your project. Adobe Audition: The powerful system for audio editing, audio cleanup and sweetening, music creation and adjustment, and multitrack mix creation. Adobe Illustrator: Professional vector graphicscreation software
for print, video, and the Web. Adobe Media Encoder: A tool that allows you to process files to produce content for any screen directly from Premiere Pro, After Effects, and Audition. Adobe Dynamic Link: A cross-product technology that enables you to work in real time with media, compositions, and sequences shared
between After Effects, Audition, and Premiere Pro. Exploring the Adobe Creative Cloud video workflow Your Premiere Pro and Creative Cloud workflow Your production needs. Here are a few scenarios: Use Photoshop to touch up and apply effects to still images and layered image compositions
from a digital camera, a scanner, or a video clip. Then use them as source media in Premiere Pro. Changes made in Premiere Pro timeline to Adobe Audition for professional audio cleanup and sweetening. Changes made in Audition update in Premiere Pro.
Send an entire Premiere Pro sequence to Adobe Audition to complete a professional audio mix, including compastible effects in Audition based on the action. Using Dynamic Link, open video compositions from After Effects in
Premiere Pro. Apply special effects, add animation, and add visual elements in After Effects. Adjustments made in After Effects to create motion graphics templates that are directly editable in Premiere Pro. Dedicated controls allow specific types of changes to be
made while retaining the original look and feel of the template. Use Adobe Media Encoder to export video projects in multiple resolutions and codecs for display on websites, display via social media, or archiving. You can use the built-in presets, effects, and social media support to upload directly from Premiere Pro to
social media platforms. Naturally, most of this book focuses on workflows involving only Premiere Pro. However, sidebars will explain ways to include Adobe Creative Cloud components in your workflows for additional effects work and finishing. TOURING THE PREMIERE PRO INTERFACE It's helpful to begin by getting
familiar with the editing interface so you can recognize the tools as you work with them in the following lessons. To make it easier to configure the various panels and tools onscreen in ways that are helpful for particular activities, such as
editing, special effects work, or audio mixing. You'll begin by taking a brief tour of the Editing workspace. You won't need any files for this book's companion DVD (or downloaded lesson files if you are using the eBook). Before you
continue, make sure you've copied all the lesson folders and contents to your computer storage. Next, launch Premiere Pro, the Home screen shows links to online training videos that will help you get started. The Home screen shows links to online
training videos when you first start using Premiere Pro. If you have opened projects previously, a list will appear in the middle of the Home screen. You can hover the pointer over a recent item to see the project file location in a pop-up window. As your list of recent projects gets longer, the links to online training videos
are removed to make room for the list. A Premiere Pro project file contains all your creative decisions for a project, links (referred to as clips) to your selected media files, sequences made by combining those clips, special effects settings, and more. Premiere Pro project files have the extension .prproj. Whenever you
work in Premiere Pro, you will be making adjustments to a project file. You need to create a new project file or open an existing one to use Premiere Pro. There are a few important buttons on the Home screen, some of which look like text but can actually be clicked (look out for text that works as a button in the Premiere
Pro interface): New Project creates a new empty project file. You can name a Premiere Pro project file anything you like, and it's a good idea to choose a name that will be easy to identify later (in other words, avoid using the name "New Project"). Open Project enables you to open an existing project by browsing your
storage drive for the project file. You can also double-click an existing project file in the macOS Finder or Windows Explorer to open it in Premiere Pro. Home takes you back to this screen if you have clicked Sync Settings or Learn. Sync Settings allows you to synchronize your user settings across multiple computers.
Open Premiere Rush Project opens an existing Premiere Rush project in Premiere Pro. Any projects you created with Premiere Pro. Try opening an existing project: 1. Click Open Project. 2. In the file navigation dialog box that appears,
navigate to the Lessons folder; then double-click the Lesson 01.prproj project file to open the first lesson. Leave the file open for the next exercise. Note It's best to copy all the lesson assets to your computer storage drive and leave them there until you complete this book; some lessons use assets from previous lessons
After you open an existing project file, a dialog box may open asking where a particular media file is. This will occasionally happen when the original media files are saved on a storage drive (or drive letter) different from the one you're using. You'll need to tell Premiere Pro where the file is. In the dialog box that prompts
you to link the media file, you'll see a list of missing items, with the first already highlighted. Select Locate, at the bottom right, At the top of the Locate File dialog box you'll see Last Path (that's the last known location for the file) and Path (that's the current location you have browsed to). Using the folders on the left,
navigate to the Lessons/Assets folder, and click Search at the bottom right. Premiere Pro will locate the missing file and highlight it on the right side of the window. Select the file, and click OK. Premiere Pro will remember this location for other missing files and relink them automatically without your needing to link each
one individually. HANDS ON: EDIT YOUR FIRST VIDEO The first series of exercises walks you through editing a simple video. You'll get hands-on experience using the principal features of Premiere Pro. Because you are going to make changes to the project file, you'll start by saving a new version. Then to ensure the
steps described here match your screen you'll reset the user interface of Premiere Pro to its default configuration. After that, you'll learn about the main editing tools and user interface features in Premiere Pro, choose File > Save As. Save a copy of the project with the name
Lesson 01 Working.prproj. 2. Choose Window > Workspaces > Editing to make sure the Editing workspace is selected (see "Exploring workspaces" for more information on workspaces. 3. Choose Window > Workspaces > Reset To Saved Layout to reset the workspace to the default settings. This project contains a
number of video clips. Some have already been edited into a sequence, in the Timeline panel (for more information about panels, see "Exploring workspaces"). Note Unlike other panel does not include its own name in its heading. Instead, the name of the current sequence is shown. In this case, it's
Desert Montage. Let's add some more clips to the sequence. 4. Along the top edge of the Timeline panel, named Desert Montage in this project, you'll see a horizontal bar with a series of numbers. Connected to that bar, you'll see a blue playhead control. This works the same way as the playhead when viewing video
files in a player. 5. Drag the playhead to the far left of the Timeline panel. 6. Press the spacebar to play the current sequence. In the lower-left corner of the Premiere Pro interface, you will find the Project panel.
which contains clips and other assets associated with the current project. The panel name includes the current project name, Project panel holds a series of buttons that you use to select different ways of viewing the contents of the panel. 7. Click Icon View if it's
not selected. Icon View makes it easier to identify clips based on their contents. 8. Drag the clip with the name 0001JD.mp4 from the Project panel into the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name. 9. Release the new clip at the end of the existing seguence. Be sure to drag it by the thumbnail image and not the clip name of the existing seguence.
Timeline panel. If you line up the new clip with an existing clip, you'll notice the new clip jumps into position, exactly aligning with the end of the existing clip, you'll notice the new clip jumps into position, exactly aligning with the end of the existing clip. 10. Scroll down in the Project panel and find several more clips of your choice to add to the sequence. Drag each one into the sequence. At any time, you can
position the Timeline playhead at the beginning of the sequence (at its left end), and use the spacebar to start and stop playback. 11. When you have finished adding several clips to the sequence, play through it to see the result. You can place the Timeline playhead anywhere and play from that moment. There is one
item you will not be able to drag from the Project panel into the sequence; the sequence itself, called Desert Montage. The Project panel contains both clips and sequences, You can have as many sequences as you like in a project, and they are identifiable by the icon in the lower-right corner of the clip thumbnail, which
shows multiple clips combined. Congratulations! You edited a sequence! Exploring workspaces The Premiere Pro interface is divided into panel lists all the effects available for you to apply to clips, while the Effect Controls panel gives you access to
the settings for those effects. A workspace is a preset arrangement of panels, organized to make particular tasks easier. There's one for editing, another for making color adjustments, for example. Every panel is accessible from the Window menu, but workspaces are a quicker way to
access several panels and have them laid out exactly as you need them, in a single step. Before you begin, make sure you're using the Editing workspace option in the Workspaces panel at the top of the screen. Then, to reset the Editing workspace, click the small panel menu
icon next to the Editing option on the Workspaces panel, and choose Reset To Saved Layout. If the Workspaces panel is not visible, choose Window > Workspaces panel is not visible.
in the Workspaces panel. Think of these words as buttons you can click; it's an elegant design feature you'll discover in a number of areas in Premiere Pro. If you're new to nonlinear editing, workspace might look like a lot of buttons and menus. Don't panic. Thinks become simpler when you know what
the buttons are for. The interface is designed to make video editing easy, so commonly used controls are immediately accessible. Workspaces consist of panels into a panel group. The names of all the panels in the group are displayed across the top. Click a panel
name to bring that panel to the "front" of the group. When many panels are combined, you may not be able to see all their names. If this is the case, a list of all the panels in the group becomes available. Click the chevron in the upper-right corner of the panel group to access a panel. You can display any panel by
choosing it from the Window menu. so if you can't locate a panel, just look there. The principal elements are shown here. Some of the important interface elements include: Project panel: This is where you organize your clips (these are the links to your media files), sequences, and graphics in bins. Bins are similar to
folders—you can place one bin inside another for more advanced organization of your project. Timeline panel: This is where you'll do most of your creative work. You view and work on sequences (the term for video segments edited together) in the Timeline panel. One feature of sequences is that you can nest them
(place one sequence inside another sequence). Combining sequences this way, you can break up a production into manageable chunks or create unique special effects. Tracks: You can layer—or composite—video clips, images, graphics, and titles on an unlimited number of tracks. Video and graphic clips on upper
video tracks cover whatever is directly below them on the timeline. Therefore, you need to give clips on lower tracks to show. Monitor panels: Use the Source Monitor (on the left) to view and select parts of clips (your original footage). To
view a clip in the Source Monitor, doubleclick its icon in the Project panel. The Program Monitor (on the right) shows the contents of your current sequence, displayed in the Timeline panel. Media Browser: This important panel allows you to browse your storage to find media to import into your project. The Media Browser
is especially useful for filebased camera media and RAW files. Libraries: This panel gives access to custom Lumetri color Looks, motion graphics templates, graphics t
helpx.adobe.com/premierepro/using/creative-cloud-libraries.html. Effects panel: This panel contains most of the effects, and transitions. Effects are grouped by type to make them easier to find, and there's a search box at the top of the panel. Once
applied, the controls for these effects are displayed in the Effect Controls panel. Effect Controls panel. This panel displays the controls for any effects applied to a clip you select in a sequence or open in the Source Monitor or Project panel. If you select a visual clip in the Timeline panel, Motion, Opacity, and Time
Remapping controls are automatically available. Most effect settings are adjustable over time. Audio Clip Mixer: This panel is based on audio production studio hardware, with volume sliders and pan controls. There is one set of controls for each audio track on the timeline. The adjustments you make are applied to audio
clips. There's also an Audio Track Mixer for applying audio adjustments to tracks rather than clips. Tools panel: Each icon in the Timeline panel. The Selection tool is context-sensitive, which means it changes function depending on where you click. If
your pointer doesn't work as you expect, check to see you have the right tool selected. Several tools have a small triangle icon, indicating a menu of additional tools. Press and hold on one of these tools to see the menu of options. Info panel: The Info panel displays information about any item you select in the Proiect
panel or any clip or transition you select in a sequence. History panel: This panel tracks the steps you take and lets you easily undo a series of changes. When you select a previous step, all steps that followed it are also undone. Most panels display their name at the top. When a panel is displayed, the name is
underlined, and the panel is outlined in blue. Most panels have a menu next to the name with options particular to that panel. Using the Learning workspace are intended to facilitate a particular creative activity, the Learning workspace is an exception. This workspace includes the Learn panel,
which offers tutorials to help you build familiarity with the Premiere Pro interface and learn important skills. You will find the tutorials complement the exercises in this book well, and you may find it helpful to practice first with this book and then explore the relevant tutorials to reinforce the lessons you have learned.
Customizing a workspace In addition to choosing between the default workspaces, you can adjust the position and location of panels to create a workspace that workspace that workspace that workspaces, you can adjust the position and location of panels to create a workspace that workspaces, you can adjust the position and location of panels to create a workspace that workspace that workspaces, you can adjust the position and location of panels to create a workspace that workspaces, you can adjust the position and location of panels to create a workspace that workspaces, you can adjust the position and location of panels to create a workspace that workspace that workspaces for different tasks.
compensate. Every panel within a panel group is accessible by clicking its name. All panels are movable—you can drag a panel from one group to become a separate floating panel. You can double-click the name of any panel to toggle it between full screen and its original
size. Note Though "panel" is not part of their names, both the Source Monitor and Program Monitor behave exactly like other panels. In this exercise, you'll adjust some panels and save a customized workspace. 1. In the Project panel, double-click the icon for the clip 0022AO.mp4 to open it in the Source Monitor. Be
careful to double-click the icon and not the name, as clicking the name, as clicking the name selects the text, making it ready for renaming. 2. Position your pointer will change to a double-headed arrow when it's in the right position. Drag left and right to
change the sizes of those panels. You can choose to have different sizes for your video displays, which is useful at different stages of post-production. 3. Now place the pointer on the horizontal divider between the Program Monitor and the Timeline panel. The pointer will change when it's in the right position. Drag up
and down to change the sizes of these panels. 4. Click the name of the Media Browser panel (at its top), and drag it to the middle of the Source Monitor until a blue rectangle appears (the drop zone). Release the Media Browser panel to dock it in that panel group. The drop zone is displayed as a center highlight. 5. Drag
the Effects panel (which is grouped with the Project panel by default) by its name to a point just inside the right edge of its current panel group until a blue trapezoid-shaped area (the drop zone) is highlighted. Release the Effects panel; it is now alone in its own panel group. Remember. if you can't see the Effects panel.
you can choose it from the Window menu. When you drag a panel by its name, a drop zone is displayed. If the highlighted drop zone is a rectangle, the panel group as an additional tab when it's dropped. If the drop zone is a trapezoid, it will create a new panel group. You can also pull
panels into their own floating windows. 6. Command-drag (macOS)/Ctrl-drag (Windows) the Source Monitor out of its panel to see all of its controls. 7. Drop the Source Monitor anywhere, creating a floating panel. You can resize the panel by dragging a corner or a side. As you
gain experience, you might want to create and save the layout of your panels as a customized workspace. To do so at any time, choose Window > Workspaces > Reset To Saved
Layout, or double-click the workspace name. 8. Now, to return to a recognizable starting point, choose the preset Editing workspace, and reset it. Note You can change the font size in the Project panel by choosing Font Size from the panel menu and then choosing Small, Medium (Default), Large, or Extra Large from the
submenu. Introducing preferences The more you edit video, the more you'll want to customize Premiere Pro to match your specific needs. Premiere Pro has several types of settings. For example, panel menus, which are accessible by clicking the menu button next to a panel name, have options that relate to each
panel, while individual clips in a sequence have settings you can access by rightclicking them. The panel have also application-wide
user preferences, which are grouped into a single dialog box, it's not too important which category you choose first, as you can always
guickly switch to another. 1. Choose Premiere Pro > Preferences > Appearance (Mindows). 2. Drag the Brightness slider to the right to suit your preferences > Appearance (Windows). 2. Drag the Brightness slider to the right to suit your preferences.
surrounding colors). There are additional options for controlling the brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Focus Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Indicators brightness of interface highlights. 3. Experiment with the Interactive Controls and Indicators brightness of interface highlights. 3. Experiment with the Internation of Indicators brightness of interface highlights. 3. Experiment with the Internation of Indicators brightness of Indicators brig
4. Set all three settings to Default by clicking the Default buttons when you have finished. 5. Switch to the Auto Save preferences by clicking Auto Save on the left. Imagine if you had worked for hours and then there was a power outage. If you hadn't saved recently, you'd have lost a lot of work. With these options, you
can decide how often you would like Premiere Pro to save an automated backup of your project file and how many versions you would like to keep in total. Auto Save backups have the date and time they were created added to the filename. Note Premiere Pro allows you to open multiple projects at the same time. For
this reason, you'll see options for "project(s)" rather than just "project to Creative Cloud. This option creates an
additional backup of your project file in your Creative Cloud Files folder. If you suffer a total system with your Adobe ID to access the backup project file and quickly carry on working. There's also the option Auto Save Also Saves The Current
Project(s). When this option is selected, saving or auto saving will also create an "emergency project backup"—a project file that is a copy of the current version, with the same name. If you have a sudden system failure (like a power outage), this is the file you will most likely want to open to continue working, 6. Click
Cancel to close the Preferences dialog box without applying any changes. USING AND SETTING KEYBOARD SHORTCUTS Premiere Pro makes extensive use of keyboard shortcuts. These are usually faster and easier than clicking—once you know them. Several keyboard shortcuts are shared universally by nonlinear
editing systems. The spacebar, for example, starts and stops playback—this even works on some websites. Some standard keyboard shortcuts come from celluloid film-editing traditions. The I and O keys, for example, are used to set In and Out points for footage and sequences: These special marks indicate the start
and end of a desired section and were originally drawn on celluloid directly. Many shortcuts are available, but not all are assigned a key by default. This allows flexibility when setting up your editing system. 1. Choose Premiere Pro > Keyboard Shortcuts (macOS) or Edit > Keyboard Shortcuts (Windows). It can be a little
daunting to see the number of keyboard shortcuts available, but by the end of this book you will recognize most of the options displayed here. Some keyboard shortcuts are specific to individual panels. 2. Open the Commands menu at the top of the dialog box, and choose the name of a panel to create or edit shortcuts
for that panel. Specialized keyboards are available with shortcuts printed on them and color-coded keys. These make it easier to remember commonly used shortcuts printed on them and color-coded keys. These make it easier to remember commonly used shortcuts. 3. Click outside of the search box (to deselect it), and try pressing Command (macOS) or Ctrl (Windows). The keyboard shortcuts display updates to show
the results of combining the modifier key with the character kevs. Notice there are many keys without shortcuts assigned when you use a modifier key. These are available for you to assign your own shortcuts. 4. Try combinations of modifier keys including Shift+Option (macOS) or Shift+Alt (Windows). You can set
keyboard shortcuts with any combination of modifier keys. If you press a character key, or character key, or character and modifier key combination, that particular shortcut information is displayed. The list at the bottom left of the Keyboard Shortcuts dialog box includes every option you can assign to a key—it's a long list, but there's a
search box at the top to help you find the option you want. 5. To change a keyboard shortcut do one of the following: 1. Having found an option you would like to assign to a key, drag it from the list onto the key you would like to use in the upper part of the dialog box. If you hold modifier keys while performing this
operation. they'll be included in the shortcut. 2. To remove a shortcut, click the key, and choose Clear at the bottom right. 6. For now, click Cancel. 7. Close the project file and save any changes. Moving, backing up, and syncing user settings User preferences include a number of important options. The defaults work well
software license. You can use the same ID to store your user preferences in Creative Cloud, allowing you to synchronize and update them from any installation of Premiere Pro. You can sync your preferences while on the Home screen by choosing Sync Settings. You can also sync your preferences while working with
Premiere Pro by choosing Premiere Pro > Sync Settings > Sync S
have made, click Yes. REVIEW QUESTIONS 1. Why is Premiere Pro considered a nonlinear editor? 2. Describe the basic video-editing workflow. 3. What is the purpose of the Source Monitor and the Program Monitor? 6. How can you
drag a panel to its own floating panel? REVIEW ANSWERS 1. Premiere Pro lets you place video clips, and graphics anywhere in a sequence; and transitions; apply effects; and do any number of other video-editing steps in any order that suits you. You're not tied to a
particular line of action. 2. Transfer media to your computer; create a sequence by combining video, audio, and still-image clips in the Timeline panel; add effects and transitions; add text and graphics; mix your audio; and export the finished product as a video file. 3. The Media Browser allows you to browse and import
media files without having to open an external file browser. It's particularly useful when you're working with file-based video camera footage because you can easily preview footage. 4. Yes. You can save any customized workspace by choosing Window > Workspaces > Save As New Workspace. 5. You can view and
select part of your original footage in the Source Monitor and use the Program Monitor to view the contents of the current sequence displayed in the Source Monitor and use the Program Monitor to view the contents of the current sequence displayed in the Source Monitor and use the Program Monitor to view the contents of the current sequence displayed in the Source Monitor and use the Program Monitor to view the contents of the current sequence displayed in the Source Monitor and use the Program Monitor to view the contents of the panel while holding down Command (macOS) or Ctrl (Windows). 2 Setting Up a Project Lesson overview In this lesson, you'll learn
how to do the following: Choose project settings. Choose video rendering and playback settings. Choose video and audio display settings.
files. Before you begin editing, you'll learn how to create a new project and choose sequence settings that tell Premiere Pro how to play your video and audio technology, you might find all the options a little overwhelming. Luckily, Adobe Premiere
Pro gives you easy shortcuts. Plus, the principles of video and sound reproduction are the same no matter what you're creating. It's just a question of knowing what you want to do. To help you plan and manage your projects, this lesson contains information about formats and video technology. You may decide to revisit
this lesson later, as your familiarity with Premiere Pro and nonlinear video editing develops. You don't need to understand all of these concepts to edit videos. In practice, you're unlikely to make changes to the default settings when creating a new project, but it's helpful to know what the options mean. A Premiere Pro
project file stores links to all the video, graphic, and sound files you have imported. Each item is displayed in the Project panel as a clip. The name clip originally described a section of celluloid film (lengths of film were literally clipped to separate them from a roll), but these days the term refers to any item in the project,
regardless of the type of media. You could have an audio clip or an image sequence clip, for example. Clips displayed in the Project panel appear to be media files, but they are actually only links to those files. It's helpful to understand that a clip in the Project panel and the media file it links to are two separate things. You
can delete one without affecting the other (more on this later). When working on a project, you will create at least one sequence—that is, a series of clips that play, one after another, sometimes overlapping, with special effects, titles, and sound, to form your completed creative work. While editing, you will choose which
parts of your clips to use and in which order they'll play. The beauty of nonlinear editing with Premiere Pro is that you can change your mind about almost anything, at any time. Premiere Pro project file, import media,
choose a sequence preset, and start editing. When you create a sequence, you'll choose playback settings (such as frame rate and frame size) and place multiple clips in it. It's important to understand how the sequence settings change the way Premiere Pro plays your video and audio clips (clips are automatically
adjusted to match the sequence settings). To speed things up, you can use a sequence preset to choose the settings and then make adjustments if necessary. You need to know the kind of video and audio your camera records because your sequence settings will usually be based on your source footage to minimize
conversion during playback. In fact, most Premiere Pro sequence presets are named after cameras to make it easier to choose the correct option. If you know which sequence preset to choose the correct option. If you know which sequence preset to choose the correct option. If you know which sequence presets are named after camera was used to capture the footage and which video format was recorded, you'll know which sequence preset to choose. In this lesson, you'll learn
how to create a new Premiere Pro project and choose sequence settings. You'll also learn about different kinds of audio tracks and what preview files are. CREATING A PROJECT Let's begin by creating a new project. 1. Launch Premiere Pro. The Home screen appears. If you have opened Premiere Pro a few times,
you won't see links to tutorials (as mentioned in Lesson 1). Instead, in the middle of the screen you'll find a list of previously opened projects. You should see Lesson 01. You could click that project to open it, but you're going to make a new one. Notice that you can thin out the list of recent project files by typing some text
into the Filter text box, where it says Filter Recent Files—only project files whose filenames contain the text will be displayed. There are a couple of other items in this window: 1. Magnifying glass button: Click the magnifying glass at the top right of the Home screen to open a multipurpose Search screen. If you enter text
into the text box at the top of the screen, Premiere Pro will list the names of previously opened project files and tutorials from Adobe Premiere Pro Learn & Support that contain the text. You must be connected to the Internet to access the tutorials. 2. User button: Next to the magnifying glass is a thumbnail of your Adobe
ID profile picture. If you have just signed up, this may be a generic thumbnail. Click the button to manage your Creative Cloud account online. 2. Click New Project to open the New Project to open t
Settings. All the settings in this dialog box can be changed later, and for most projects, you'll want to leave them as they are. For now, we'll finish creating our new project using the default settings. Later, we'll take a look at what all of those settings mean. 3. Click in the Name box, and name your new project First Project.
Note When choosing a location for your project. 5. Click OK to create your new project. You'll explore the project
settings in detail later in this lesson. SETTING UP A SEQUENCE In your Premiere Pro project you will create a sequence (or several sequences) into which you'll place video clips, and graphics. Just like media files, sequences have settings that specify such things as the frame rate and image size. Frame
rates and frame sizes for clips that don't match the sequence settings are converted during playback to match the sequence in your project can have different settings. You'll want to choose settings that match your original media as precisely as
possible to minimize conforming during playback. Matching the settings reduces the work your system must do to play your clips, improving real-time performance, and maximizes quality. If you're editing a project with mixed-format media, you may have to choose which media to match with your sequence settings. You
can mix formats easily, but because playback performance improves when the sequence settings match, you'll often choose settings that match the majority of your media files. If the first clip you add to a sequence does not match the settings of your sequence, Premiere Pro checks if you would like to change the
sequence settings automatically to fit. When you're starting out in video editing, you may find the number of file types, codecs, and formats available a little overwhelming. Premiere Pro can work natively with a wide range of video and audio formats and codecs and will often play mismatched formats smoothly. However
when Premiere Pro has to adjust video for playback because of mismatched sequence settings, your editing system must work harder to play the video, and this will impact real-time performance (you might see more dropped frames). It's worth taking the time before you start editing to make sure the sequence settings
closely match your original media files. Note The Preset Description area of the Sequence Presets tab often describes the kind of camera used to capture media in this format. The essential factors are always the same: the number of frames per second, the frame size (the number of pixels in the picture horizontally and
vertically), and the audio format. If you were to turn your sequence into a media file without applying a conversion, then the frame rate, audio format, frame size, and so on, would all match the settings you chose when creating the sequence. When you output your sequence to a file, you can choose any format you like
(for more on exporting, see Lesson 16, "Exporting Frames, Clips, and Sequences"). Creating a sequence that automatically matches your should choose, don't worry, Premiere Pro can create a sequence based on your clip. At the bottom of the Project panel, there's a
New Item menu . Use this menu to create new items for your project, including sequences, captions, and color mattes (full-screen color graphics useful for backgrounds). To automatically create a sequence that matches your media, drag any clip (or multiple clips) in the Project panel onto the New Item menu. A new
sequence will be created with the same name as the first clip selected, and a matching frame size and frame rate. You can also select one or more clips, right-click the selection, and choose New Sequence From Clip. Using this method, you can be confident your sequence settings will work with your media. If the
Timeline panel is empty, you can also drag a clip (or multiple clips) into it to create a sequence with matching settings. Choosing the correct preset If you do know the settings exactly. If you're not so sure, you can use a preset. 1. Click the New Item
button at the lower-right corner of the Project panel now and choosef003802.jpg Sequence. The New Sequence Presets, Settings, Tracks, and VR Video. When you choose a preset, Premiere Pro applies settings for the new sequence that closely match a particular video and audio
format. After choosing a preset, you can adjust these settings on the Settings tab if necessary. You'll find a wide range of preset configuration options for the most commonly used and supported media types. These settings are organized based on camera formats (with specific settings inside a folder named after the
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recording format). You can click the disclosure triangle to see specific formats in a group. These are typically designed around frame rates and frame sizes. Let's look at an example. 2. Click the disclosure triangle next to the group Digital SLR. You can now see three subfolders, based on frame sizes. Remember that
video cameras can often shoot video using different frame sizes, as well as different frame rates and codecs. 3. Click the disclosure triangle next to the 1080p subgroup. 4. Choose the DSLR 1080p30 preset by clicking its name. For this sequence, use the default settings. Take a moment to familiarize yourself with the
description displayed on the right. 5. Click in the Sequence Name box, and name your sequence First Sequence. 6. Click OK to create the sequence with Premiere Pro. Formats and codecs A format is a frame rate, frame size, audio
sample rate, and so on. Codec is a shortening of the words coder and decoder. It's the way video and audio information is stored and replayed. A file used to store video and decoder. It's the way video and audio codec
configurations. The media file is referred to as the wrapper, and the video and audio inside the file, stored using a codec, are sometimes referred to as the essence. If you output your finished sequence to a file, you'll choose a format, a file type, and a codec. Customizing a sequence preset Once you've selected the
sequence preset that most closely matches your source video, you may want to adjust the settings to meet a particular delivery requirement or in-house workflow. Let's take a look at those settings. Tip You created a new sequence using the File menu this time. There are often several ways to achieve the same goal in
Premiere Pro. 1. Choose File > New > Sequence. 2. Choose the DSLR 1080p30 preset again by clicking its name. This lets you view the settings at the top of the dialog box. Premiere Pro will automatically conform footage you add to your timeline so that it matches your
sequence settings, giving you a standard frame rate and frame size, regardless of the original clip format. This makes the sequences settings a critical part of your project configuration. You'll notice that although you chose a 30 fps preset, the Timebase menu defaults to 29.97 fps, which is used when broadcasting NTSC
video on traditional TV networks. Creating a sequence preset Although the standard presets usually work, you may sometimes need to create a custom preset that matches your media closely, and then make custom selections in the Settings and Tracks areas of the New
Sequence dialog box. Having adjusted the settings, you can save your custom preset for future use by clicking the Save Preset button near the bottom of the Settings area. When you save a preset, you can give your customized project settings preset a name in the Save Settings dialog box, add notes if you want, and
click OK. The preset will appear in a Custom folder with the other sequence presets. 4. The new sequence is intended for online distribution only, so change this to 30 fps to accurately measure playback speed. Tip For now, leave the settings as they are, but review the way the preset configures the new sequence. Look
at each setting from top to bottom to build familiarity with the choices required to configure a sequence. If your media matches one of the presets, it's not necessary to change the settings. You'll notice that some settings cannot be changed when you use a preset. This is because they're optimized for the media type you
selected on the Sequence Presets area. For complete flexibility, choose Custom from the Editing Mode menu. Maximum Bit Depth and Maximum Bit Depth and Maximum Bit Depth and Maximum Render Quality settings When you're editing with GPU acceleration (that's when dedicated graphics hardware performs some of the visual effects rendering and playback).
advanced algorithms are used, and effects are rendered in 32-bit color—which is very high quality. When working without GPU acceleration, you can enable Maximum Bit Depth, and Premiere Pro will render special effects at the maximum quality possible. For many effects, this means 32-bit floating-point color, which
allows for trillions of color combinations. This is the best possible quality for your effects but is more work for your effects but is more w
more advanced system for scaling images. Without this option, you might see minor artifacts or noise in the picture when making images smaller. Both of these options can be turned off or on at any time, so you can edit without them to maximize performance and then turn them on when you output your finished work.
Even with both options enabled you can use real-time effects and expect good performance from Premiere Pro. Understanding audio track types When you add a video or audio clip to a sequence, you'll always put it on a track. Tracks are horizontal areas in the Timeline panel that hold clips in a particular position in time.
There is more than one video track, and video clips placed on an upper track will appear in front of clips on a lower track. For example, if you have text or a graphic on your second video track (below it), you'll see the graphic in front of the video. The Tracks tab in the New
Sequence dialog box allows you to preselect the track types for the new sequence. This is perhaps most useful when creating a sequence preset with names already assigned to audio tracks. Note The Audio > Master setting configures the sequence to output audio as stereo, 5.1, multichannel, or mono. All audio tracks
are played at the same time to create a complete audio mix. To create a mix, simply position your audio clips on different tracks, lined up in time. Narration, sound bites, sound effects, and music can be organized by putting them on different tracks. You can also rename tracks, making it easier to find your way around
more complex sequences. Premiere Pro lets you specify how many video and audio tracks will be included when the sequence is created. You can easily add and remove tracks later, but you can't change the option you choose from the Master menu under Audio, which is the final audio mix type your sequence will
produce. For now, choose Stereo. An audio track type is designed for specific types of audio clip. When you choose a particular track type, Premiere Pro shows the right controls to make adjustments to the sound, based on the number of audio channels in the track. For example,
stereo clips need different controls than 5.1 surround-sound clips. The types of audio tracks are for mono, stereo, or multichannel
audio and give you precise control over the output routing for each audio channel. For example, you could decide the track audio channel 3 should be output to your mix in channel 5. This workflow is used for multilingual broadcast TV, where precise control of audio channels is used at the point of transmission. Mono:
This track type will accept only mono audio clips. The Submix options available in the Track Type menu are used in advanced audio mixing workflows. You can't accidentally put an audio clip on the wrong kind of track. Premiere Pro makes sure clips go to the right kind of track. In fact, Premiere Pro will automatically
create the right kind of track if one doesn't exist already. You'll explore audio more in Lesson 10, "Editing and Mixing Audio." For now, click Cancel to close the New Sequence dialog box. EXPLORE THE PROJECT SETTINGS Now that you have created a new project and added a sequence, let's explore the important
options available in the Project settings. You will usually configure the project settings when creating the new project, but all of the options can be modified at any time. Choose File > Project Settings > General to open the Project Settings dialog box for your current project. Choose video rendering and playback settings
While you're working creatively with video clips in your seguences, it's likely you will apply some visual effects to adjust the appearance of your footage. Some special effects to adjust the appearance of your footage. Some special effects to adjust the appearance of your footage.
it's called real-time playback. Real-time playback. Real-time playback is desirable because it means you can watch the results of your creative flow without waiting. If you use lots of effects on a clip or if you use effects that are not designed for real-time playback, your computer may not be able to
display the results at the full frame rate. That is, Premiere Pro will attempt to display your video clips, combined with the special effects, but it will not show every single frame each second. When this happens, it's described as dropping frames. Premiere Pro displays colored lines along the top of the Timeline panel,
where you build sequences, to tell you when extra work is required to play back your video. No line, a green line, or a yellow line means Premiere Pro may drop frames when playing that section of the sequence. Note A red line at the top
of the Timeline panel doesn't mean frames definitely will be dropped. It just means visual adjustments are more likely. If you can't see every frame when you play your sequence, it's okay! It won't affect the final results. When you're done editing and you
output your finished sequence, it'll be full quality, with all the frames intact (more on this in Lesson 16, "Exporting Frames, Clips, and Sequences"). Real-time playback can make a difference to your editing experience and your ability to preview the effects you apply with confidence. If frames are being dropped, there is a
simple solution: preview rendering. When you render, Premiere Pro creates new media files that look like the results of your effects work and then plays back those files in place of the original footage. The rendered preview is a regular video file, so playback is at reasonable quality and full frame rate, without your
computer having to do any extra work. You render effects in a sequence by choosing a render command from the Sequence menu. Many menu items display a keyboard shortcut on the right. In this case, the shortcut for Render Effects In To Out is Return (macOS) or Enter (Windows). What do rendering and real time
mean? Think of rendering as an artist's rendering with a pencil. As something is visualized, it takes up paper and takes time to draw. Imagine you have a piece of video that is too dark. You add a visual effect to make it brighter, but your video-editing system is unable to both play the original video and make it brighter at
the same time. In this situation, you'd have your system render the effect, creating a new temporary video file instead of the original clip
(or clips). The process is invisible and seamless. In this example, the rendered file would look like the original video file but brighter. When the part of your system invisibly and seamlessly switches back from playing the preview file to playing the other original video files
in the sequence. The downside of rendering is that it takes up extra space for media storage, and it takes time. Also, because you're viewing a new video file that is a copy of your original media, there might be some minor loss of quality. The upside with rendering is that you can be confident your system will be able to
play the results of your effect at full quality, with all the frames per second. This might be important if you output to a file. Real-time playback, by contrast, is immediate! When using a real-time special effect, your system plays the original video clip combined with the special effect
right away, without waiting for the effect to render. The only limitation with real-time performance is that the amount you can do without rendering depends on how powerful your system is. More effects are more work to play back, for example. In the case of Premiere Pro, you can dramatically improve real-time
performance by using the right kind of graphics card (see the sidebar "The Mercury Playback Engine"). Plus, you'll need to use effects that are designed for GPU acceleration (not all effects are). Back in the Project Settings dialog box, in the Video Rendering And Playback settings, if the Renderer menu is available, it
means you have graphics hardware in your computer that meets the minimum requirements for GPU acceleration and it is installed correctly. The menu has two types of setting you will choose between: Mercury Playback Engine GPU Acceleration: If you choose this rendering option, Premiere Pro will send many
playback tasks to the graphics hardware on your computer, giving you lots of real-time effects and smooth playback of mixed formats in your sequences. You may see an option to use CUDA, OpenCL, or Metal for GPU acceleration, depending on your graphics hardware. Performance can vary and some graphics
hardware configurations allow multiple types of acceleration, so you may need to experiment to find the best option for your system. On a Mac, you'll only be able to choose Metal. Some advanced system GPU configurations also allow you to choose a persistent Preview Cache in Premiere Pro to improve playback.
You'll want to experiment with this option for optimum playback performance. If your system does not have graphics hardware that can be used for GPU acceleration, only this option will be available, and you won't be able to open
the Renderer menu. You may also see an option described as deprecated in the Renderer menu. This uses an approach to hardware acceleration that will work but is less efficient than the other options. You will almost certainly want to choose GPU acceleration and benefit from the additional performance if you can.
However, if you experience performance or stability issues using GPU acceleration, choose the Software Only option in this menu. You can change these options at any time—including in the middle of working on a project. Choose a GPU option now, if it's available. The Mercury Playback Engine The Mercury Playback
Engine, which decodes and displays video files in Premiere Pro, has three main features. Playback performance: Premiere Pro plays back video files with great efficiency, even when working with the types of video that are difficult to play back, such as H.264, H.265, or AVCHD. If you're filming with a DSLR camera or
phone camera, for example, chances are your media is recorded using the H.264 codec. Thanks to the Mercury Playback Engine, you'll find that these files play back with ease. 64-bit application, which means it can use all the random access memory (RAM) on your computer.
This is particularly useful when you're working with high-definition or ultra-high-definition video (HD or 4K and above). The Mercury Playback Engine is multithreaded, which means it uses all the CPU cores in your computer. The more powerful your computer is, the higher the performance you'll see in Premiere Pro.
CUDA, OpenCL, Apple Metal, and Intel graphics support: If you have powerful enough graphics hardware, Premiere Pro can send some of the work for playing back video to the graphics card, rather than putting the entire processing burden on the CPU in your computer. The results are even better performance and
responsiveness when working with sequences, and many special effects will play in real time, without dropping frames. For more information about supported graphics cards, see helpx, adobe.com/premierepro/system-requirements.html. Setting the video and audio display formats The next two areas of the General tab in
the Project Settings dialog box allow you to choose how Premiere Pro should measure time for your video and audio clips. In most cases, you'll choose the default options: Timecode from the Video Display Format menu and Audio Samples from the Audio Display Format menu. These settings don't change the way
Premiere Pro plays video or audio clips, only the way time measurement is displayed—and you can change the settings at any time. The Video Display Format, The correct choice for a given project largely depends on whether you are working with video or celluloid
film as your source material. It's rare to produce content using film, so if you are not sure, choose Timecode is a universal system for counting hours, minutes, seconds, and individual frames of video. The same system is used by cameras,
professional video recorders, and nonlinear editing systems around the world. Feet + Frames 16mm or Feet + Frames 35mm: If your source files are captured from film and you intend to give your editing decisions to a lab so it can cut the original negative to produce a finished film, you may want to use this standard
method of measuring time. This system counts the number of frames of video. This is sometimes used for animation projects. For now, leave Video Display Format set to Timecode. The Audio Display Format menu For audio
files, time can be displayed as samples or milliseconds. Audio Samples: When digital audio is recorded, the sound level (technically, air pressure level) as captured by the microphone is sampled thousands of times a second. In the case of most professional video cameras, this happens at least 48,000 times per second.
When playing clips and sequences, you can choose to display time as hours, minutes, seconds, and frames, or as hours, minutes, seconds, and samples. With this mode chosen, time can be displayed as hours, minutes, seconds, and thousandths of a second instead of samples. By default, you can zoom
the Timeline enough to view individual sequence clip segment frames. However, you can easily switch to showing the audio display format instead. This powerful feature lets you make the tiniest adjustments to your audio. For now, leave the Audio Display Format option set to Audio Samples. About seconds and frames
When a camera records video, it captures a series of still images of the action. When it captures enough images each second, the result looks like moving video during playback. Each picture is called a frame, and the number of frames each second is usually called frames per second (fps), or the recording or playback.
frame rate. The fps will vary depending on your camera/video format and settings. It could be any number, including 23.976, 24, 25, 29.97, 30, 50, or 59.94. Most cameras allow you to choose between more than one frame rate and more than one frame size. It's important to know the recording settings so you can be
sure you have selected the correct playback options in Premiere Pro. Setting the capture format It's most common to record video as a file you can work with immediately. However, there may be times you need to capture from videotape. The Capture Format menu (under Capture in the Project Settings dialog box) tells
Premiere Pro what videotape format you are using when capturing video to your storage drive. Capturing from third-party hardware installed, you can connect your video deck for capture. Note The Mercury Playback Engine can share performance with video input and output
hardware for playback, thanks to a feature called Adobe Mercury Transmit. You should follow the directions provided by the manufacturer to install software that is supplied with your hardware. The software installer will usually discover Premiere Pro on your computer,
automatically adding extra options to this menu and to others. Follow the directions provided with your third-party equipment to configure new Premiere Pro projects. For more information about the video-capture hardware and video formats supported by Premiere Pro, visit
helpx, adobe.com/premierepro/compatibility.html. Ignore this setting for now because you will not be capturing from a tape deck in this lesson, and you can change the setting as needed later. Displaying the project item names and label colors There's an option at the bottom of the Project Settings dialog box titled Display
The Project Item Name And Label Color For All Instances. With this option selected, when you change name of a clip, or the color of the label assigned to a clip, all copies of the clip used anywhere in the project will update accordingly. If this option is not selected, only the copy you select will be changed. Both options
can be useful. depending on your chosen workflow for a particular project. Leave this deselected for now, and click the Scratch disks Whenever Premiere Pro captures (records) video from tape, renders special effects, saves backup copies of the project file,
downloads content from Adobe Stock, or imports animated motion graphics templates, or whenever you record a voiceover, new files are stored. Though they are described as disks, they are actually folders. Some of the files that are stored will be
temporary, and some will be new media created in Premiere Pro or imported. Scratch disks can be stored on physically separate disks, as the name suggests, or in any subfolder on your storage. Scratch disks can be located all in the same place or in separate locations, depending on your hardware and workflow
requirements. If you're working with really large media files, you may get a performance boost by putting each scratch disk on a physically separate hard drive. There are generally two approaches to storage for video editing; Project-based setup; All associated media files are stored with the project file in the same folder.
This is the default option for scratch disks and the simplest to manage. System-based setup: Media files associated with multiple projects are saved to one central location. This might include storing different kinds of media files in
different locations. To change the location of the scratch disk for a particular type of data, choose a location from the menu next to the data type. The choices are: Documents: Stores the scratch disk in the Documents folder in vour system user account. Same As Project: Stores the scratch disk with the project file. This is
the default option. [Custom]: Enables you to specify any location. This option is automatically chosen if you click Browse and choose a specific location menu, a file path shows the current setting and the disk space available at that location. Your scratch disks might
be stored on local hard drives or on a network-based storage system; any storage location your computer has access to will work. However, the speed and responsiveness of your scratch disks can have a big impact on both playback and rendering performance—choose fast storage if possible. Using a project-based
setup By default, Premiere Pro keeps newly created media together with the associated project file (this is the Same As Project option). Keeping everything together this way makes finding relevant files simple. It also makes it easier to stay organized if you move media files into the same folder before you import them
into the project. When you're finished with your project, you can remove everything from your system by deleting the single folder your project media, notes, scripts, and associated assets organized. There's a downside: Storing your media files on the same
drive as your project file means the drive has to work a little harder while you edit, and this can impact playback performance. Using a system-based setup Some editors prefer to have all their media stored in a single location, for all projects. Others choose to store their capture folders and preview folders in a different
location from their project. This is a common choice in editing facilities where multiple editors share several editing systems, all connected to the same networkbased storage. It's also common among editors who have fast hard drives for video media and slower hard drives for everything else. There's a downside with this
setup too: Once you finish editing, it's likely you'll want to gather everything together for archiving. This is slower and more complex when your media files are distributed across multiple storage locations. Typical drive setup and network-based storage Although all file types can coexist on a single hard drive, a typical
editing system will have two hard drives: Drive 1, dedicated to the operating system and programs, and Drive 2 (often a faster drive), dedicated to media, including captured video and audio, video and audio preview files, still images, and exported media. Some storage systems use local computer networks to share
storage between multiple systems. If this is the case for you, check with your system administrators to make sure you have the right setting up a Project Auto Save location In addition to choosing where new media files are created, you can set the location to store automatically
saved project files. These are additional backup copies of your project file that are created automatically while you work. Choose a location from the Project Auto Save menu on the Scratch Disks tab. Storage drives occasionally fail, and you may lose files stored on them without warning. In fact, any computer engineer
will tell you that if you have only one copy of a file, you can't count on having the file at all. For this reason, it's a great idea to set the Project Auto Save location. If you use a synchronized file sharing service like Dropbox, OneDrive, or Google Drive, storing your auto-save files
using that service will mean you always have access to all your automatically saved project files. In addition to storing automatically when
you install Adobe Creative Cloud, allowing you to access files in any location where Creative Cloud is installed and you are logged in. This useful extra safety net is available by choosing Premiere Pro > Preferences > Auto Save (macOS) or Edit > Preferences > Auto Save (Windows). Creative Cloud Libraries downloads
You can also use the Creative Cloud Files folder to store media files that you can access from any system. Collaborators on a project can use the Creative Cloud Files folder to store and share standard assets like logos or graphic elements. Use the Libraries panel in Premiere Pro to access these files. When you add
items to the current project in this way, Premiere Pro will create a copy of them in the scratch disk location you choose here. Motion Graphics templates and titles that have been created with After Effects or Premiere Pro. When you
import a Motion Graphics template into the current project, a copy will be stored in the location you choose. For this project, leave all your scratch disks set to the default option: Same As Project. Choosing ingest settings Professional editors describe adding media to a project as importing or ingesting. The two words are
often used interchangeably but actually have different meanings. When you import a media file into a Premiere Pro project, a clip is created in the project that is linked to the original file. The media file stays in its current location, and you're ready to include the clip in a sequence. When you enable the ingest options,
things are a little bit different. The original media file may also be copied to a different location (which is useful for keeping your media files organized) and/or converted to a new format and codec before it's imported into your Premiere Pro project. In the Ingest Settings area, you can enable the Ingest option and choose
what to do with media files before they are imported. You can: Note There are several ways to import clips into a project. Once ingest options applied regardless of the import method you use. Existing clips that have already been imported into your project will not have ingest options applied
automatically. Copy the media files to a new storage location. This option is useful if you want to be sure all your media is in one folder. Transcode the media files to a new codec and/or format. This option is useful if you choose to standardize your media as part of a larger-scale workflow. Create Proxies of the media file
This option converts them to lower-resolution files that are easier for a lower-powered computer to play and that take up less storage space. The original media is always available too, and you can switch between the full-quality files whenever you like. Copy And Create Proxies to combine copying the
original media files to a new location and creating proxies for them. You'll be exploring these settings in Lesson 3, "Importing Media." They can be changed at any time; for now, leave Ingest deselected. Now that you have checked that the settings are correct for this project, click OK to apply any changes. Save, and
close the project. VR video Premiere Pro offers exceptional support for 360° video and 180° video, or immersive video, or immersive video, where multiple cameras or an extremely wide lens are used to capture a video image that can be viewed with a VR headset to create an immersive experience
On the VR Video tab in the New Sequence dialog box, you can specify the angle of view captured so Premiere Pro can accurately display the image. VR video is beyond the scope of this book, but it is well worth exploring when you have mastered the basics of video editing. REVIEW QUESTIONS 1. What is the purpose
of the Settings tab in the New Sequence dialog box? 2. How should you choose a sequence preset? 3. What is timecode? 4. How do you create a custom sequence preset? 5. How can you choose where to store temporary files created automatically while editing? REVIEW ANSWERS 1. The Settings tab is used to
customize an existing preset or to create a new custom preset. 2. It's generally best to choose a preset that matches your original footage to minimize conversion during playback. Premiere Pro makes this easy by describing the presets in terms of camera systems. 3. Timecode is the universal system for measuring time
in hours, minutes, seconds, and frames. The number of frames per second varies depending on the recording format. 4. When you've chosen the Settings tab in the New Sequence dialog box, click the Save Preset button, give the preset a name and a description, and click
OK. 5. Use the Scratch Disks settings, which can be found in the Project Settings to specify locations for newly created files. 3 Importing Media Lesson overview In this lesson, you'll learn how to do the following: Use the Media Browser to load video files. Use the Import command to load graphic files. Work with proxy
media. Use Adobe Stock. Choose where to store cache files. Record a voice-over. This lesson will take about 75 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson
files and Web Edition" in the Getting Started section at the beginning of this book. However you approach editing sequences, importing them organized are the first steps. In this lesson, you'll learn multiple methods for browsing and importing media. STARTING THE LESSON To
create a sequence, you'll need to import media files into your project. This might include video footage, animation files, narration, music, atmospheric sound, graphics and titles that you create in Premiere Pro, items in sequences always appear in the Project panel. For example
if you import a video clip directly to a sequence, it will automatically appear in the Project panel. If you delete that clip in the Project panel, it will be removed it from sequences that it appears in (you'll be given the option to cancel if you do this). In this lesson, you'll learn to import media assets into Adobe Premiere Pro.
For most files, you'll use the Media Browser panel, a robust asset browser that works with many media types you'll import into Premiere Pro. You'll also learn about special cases such as importing graphics or capturing from videotape. For this lesson, you can continue to use the project file you created in Lesson 2,
"Setting Up a Project." If you do not have the previous lesson file, you can open the file Lessons, and save the project with the name My
Lesson 03.prproi. 4. In the Workspaces panel, click Editing; then click the panel menu next to the Editing option, and choose Reset To Saved Layout. IMPORTING MEDIA FILES When you import items into a Premiere Pro project, you are creating a link to the original media file with a pointer that lives inside your project
The pointer is called a clip, and you can think of a clip as a special kind of alias (macOS) or shortcut (Windows). When you work with a clip in Premiere Pro. you are not making a copy of the original file or modifying it; instead, you're selectively playing a part of, or all of, the original media from its current location, in a
nondestructive manner. For example, if you choose to edit only part of a clip into your sequence, you're not throwing away the unused media. A copy of the clip is added to the sequence with instructions to play only the part you selected. This changes the apparent duration in the sequence, even though the full original
duration in the media file is unchanged and still available. Also, if you add an effect to a clip to brighten the image, the effect is applied to the clip, with interpretation settings and effects applied. Media can be imported in three
principal ways. By choosing File > Import. By dragging media files directly from Finder (macOS) or Explorer (Windows) into the Project panel in Premiere Pro. By using the Media Browser. Tip Another way to open the Import dialog box is to double-click an empty area of the Project panel. Tip When
project ingest options are enabled, they are applied to all newly imported media, regardless of the way it is imported. Let's explore the benefits of each. When to use the Media Browser panel In short: if in doubt, use the Media Browser panel. It's a robust tool for reviewing your media assets and then importing them into
Premiere Pro. The Media Browser shows the fragmented files you might capture with a digital video camera as whole clips; you'll see each recording format. This means you can avoid dealing with complex camera folder structures
and instead work with easyto-browse thumbnails and metadata. Being able to see this metadata (which contains important information, recording date, and file type) makes it easier to select the correct clip in a long list. By default, in the Editing workspace, you'll find the Media Browser in the lower-
left corner of your Premiere Pro workspace. It's docked in the same panel group as the Project panel, you can also quickly access the Media Browser by pressing Shift+8 (be sure to use the 8 key at the top of the keyboard). Like any other panel, you can position the Media Browser in another panel group by dragging its
panel name (sometimes referred to as the panel tab). You can also undock it to make it a floating panel by clicking the menu next to the panel name and choosing Undock Panel. Browsing for files in the Media Browser is similar to browsing with Finder (macOS) or Explorer (Windows). The contents of your storage are
displayed as navigation folders on the left, with buttons to navigate forward and backward at the top. Opening or browsing projects Fremiere Pro allows you to open multiple project files at the same time. This makes it easy to copy clips from one project to another. All open projects are editable, which means you'll need
to be careful not to make unwanted changes to a project you have opened just to copy a clip from it. You can switch between projects by choosing Windows > Projects, followed by the project you would like to work on. You can also browse inside another project file in the Media Browser panel. Use the Media Browser to
locate the project file and double-click it to view its contents. You can select and import clips and sequences to your current Project to another,
you are not copying media files—only clips that link to the media files. You will have to organize the associated media files manually. Once you have selected a folder or media files media files media files. You will have to organize the associated media files media files. You can use arrow keys to select items. There are several benefits to using the Media Browser: Filtering the display while browsing a folder.
You can narrow the display to a specific file type, such as JPEG, Photoshop, XML, or ARRIRAW files, by choosing items from the File Types Displayed menu. Autosensing camera data—AVCHD, Canon XF, P2, RED, Cinema DNG, Sony HDV, or XDCAM (EX and HD)—to correctly display the clips. Correctly displaying
media that spans clips across multiple camera media cards. Premiere Pro will automatically import the files as a single clip even if a longer video file filled a storage card and continued onto another. Viewing and customizing the kinds of metadata to display. When to use the Import command Using the Import command
is straightforward (and may match your experience in other applications). To import any file, just choose File > Import. You can also use the keyboard shortcut Command+I (macOS) or Ctrl+I (Windows) to open the Import dialog box. This method works best for self-contained assets such as graphics and audio files or
video files like .mov (QuickTime) or .mp4 (H.264), especially if you know exactly where those assets are on your drive and can quickly navigate to them. This importing method is not ideal for file-based camera footage, which often uses complex folder structures with separate files for audio, video, and important additional
data describing the footage (metadata), or for RAW media files. For most cameraoriginated media, vou'll want to use the Media Browser panel. WORKING WITH INGEST OPTIONS AND PROXY MEDIA Premiere Pro offers excellent performance when playing back, and applying special effects to, a broad range of
media just before you check your effects and output your finished work. This is a proxy workflow—creating lowresolution "proxy" files to use temporarily instead of your original content. You can switch between the two types of media whenever you like. Premiere Pro can automate creating proxy files during import. If
you're happy with the performance on your system when working with original footage, you'll probably skip this feature. Still, it offers significant advantages, both for system performance and for collaboration, particularly if you're working with highresolution media on a less powerful computer. You define the options for
ingesting media and creating proxy files using the Ingest Settings tab of the Project Settings dialog box: Copy: When you import media files to a location you choose from the Primary Destination menu below. This is a valuable option if you are importing media files directly from
your camera storage, because media files must be available to Premiere Pro when your cards are not connected to the computer. Transcode: When you import media files, Premiere Pro will convert the files to a new format and codec based on the preset you choose and will place the new files in a destination location
you choose. This is useful if you are working in a post-production facility that has adopted a standard format and codec for all projects—sometimes called a mezzanine media file. Create Proxies: When you import media files, Premiere Pro creates additional copies that are lower resolution, based on the preset you
choose, and stores them in the location you choose from the Proxy Destination menu. This is useful if you are working on a lower-powered computer or you want to temporarily save on storage space while traveling with a copy of your media. You would not want to use these files for your final delivery, but they open up
the option of using a number of collaborative workflows as well as speeding up effect configuration. This helps ensure the files have copied correctly at the expense of extra time to perform the copy. Tip You can add a Toggle Proxies button to the
Source Monitor or Program Monitor to quickly switch between viewing proxy or original media. See Lesson 4, "Organizing Media," to find out how to customize the monitor buttons. Copy and Create Proxies: When you import media files, Premiere Pro will copy the original files to a location you choose in the Primary
Destination menu and create proxies that are stored in the Proxy Destination menu. Note Adobe Media Encoder does the work of transcoding files and creating proxies in the background, so you can use your original media right away, and as the new proxy files are created, they'll be used instead of the original media
files automatically. If proxy media exists for clips in your project, it's easy to switch between displaying your original, full-quality media and your low-resolution proxy versions. Choose Premiere Pro > Preferences > Media (macOS) or Edit > Preferences > Media (Windows), and toggle Enable Proxies. Let's check out the
options. 1. Choose File > Project Settings > Ingest Settings > Ingest Settings button . This dialog box contains the original project setup options you saw
when creating the new project. You can change any setting at any time. By default, all the Ingest options are deselected. Whichever ingest options will be performed regardless of the way you import media files from now on. Importantly, files you have already imported are not affected. 2.
Enable Ingest by selecting it, and open the adjacent menu to see the options. 3. Choose Create Proxies, open the Preset menu, and try choosing a few options. Look at the Summary in the lower part of the dialog box that explains each option. It's most important that the preset you choose matches the aspect ratio of
your original footage (the ratio of the width to the height of the image). This way, you'll be able to position titles and graphics correctly while viewing the proxy files. 4. When you have finished looking at the settings, click Cancel to exit without applying any of the options. Note When you output a sequence that is set to
display proxy media, the full-quality original media is automatically used rather than the low-resolution proxy media for the export. This was just an introduction to the proxy media, and creating new proxy file presets, see the Adobe Premiere
Pro Help. WORKING WITH THE MEDIA BROWSER PANEL The Media Browser allows you to easily browse for files on your computer. It can stay open, it's fast and convenient, and it's optimized for locating and importing footage. Note To complete this lesson, you will import files from your computer. Be sure you have
copied all the lesson files included with this book to your computer. For more details, see the "Getting Started" section at the beginning of the book. Working with media files Premiere Pro can use footage from file-based cameras without conversion, including compressed native media from camera systems such as P2,
XDCAM, and AVCHD; RAW media from Canon, Sony, RED, and ARRI; and post-production-friendly codecs such as Avid DNxHD, Apple ProRes, and GoPro Cineform. For best results, follow these guidelines (no need to follow along for now): Create a new media folder for each project. This will make it easier to
differentiate between projects when cleaning up your storage. Copy camera media to your editing storage with the existing folder structure intact. Be sure to transfer the complete data folder directly from the root directory of the card. For best results, consider using the transfer application that is often included by the
camera manufacturer to move your video files. Check that all media files have been copied and that the original card and the copied folder of the media with the camera information, including card number and the date of the shoot. Create a second copy of the media on a
physically separate drive in case of hardware failure. Really do actually create that second copy of your media on a physically separate drive! Storage can fail without warning... Ideally, create a long-term archive copy of your media using another backup method, such as LTO tape (a popular long-term storage system),
an external storage drive, or cloud-based file storage. Understanding supported video file types It's not unusual to work on a project with video clips from multiple cameras using different file types, media formats, and codecs. This is no problem for Premiere Pro because you can mix different types of media in the same
sequence. Also, the Media Browser can display almost any media file type. If your system hardware struggles to play highresolution media, you may find it helpful to use proxy files while editing. The following are the major types of file-based media supported by Premiere Pro: Any DSLR camera that shoots H.264 media
as QuickTime MOV or MP4 files, or H.265 (HEVC) media. H.265 requires a more powerful computer for playback. Panasonic P2, DV, DVCPRO 50, DVCPRO 50, DVCPRO HD, AVC Ultra, AVC Ultra, AVC Ultra, Long GOP. RED ONE, RED EPIC, RED Mysterium X, the 6K RED Dragon, REDCODE. ARRIRAW, including ARRI
AMIRA. Sony XDCAM SD, XDCAM 50, XAVC, SStP, RAW, HDV (when shot on file-based media). AVCHD cameras, including Apple ProRes. Image sequences, including DPX. MXF media including Avid DNxHD, DNxHR, and Apple
ProRes. Blackmagic CinemaDNG. Phantom Cine camera. AAC, AIF, BWF, WAV, and OMF audio. Finding assets with the Media Browser is like Finder (macOS) or Explorer (Windows). It has Forward and Back buttons to go through your recent navigation. The contents of a
storage location selected in the left area are displayed on the right. Note When importing media, be sure to copy the files to your local storage, or use the project inquest options to create copies before removing your memory cards or external drives. Continue working with your My Lesson 03.prproj project. Note When you
open a project created on another computer, you may see a message warning you about a missing renderer. It's fine to click OK in this message. It indicates that the project settings configured for a different (or missing) GPU. Note If you can't see the Workspaces panel, select it by choosing
Window > Workspaces (at the bottom of the menu), 1. Begin by resetting the workspace to the default; in the Workspaces panel, click Editing option, and choose Reset To Saved Layout or double-click the Editing workspace name, 2. Click the Media Browser panel
name to bring it to the front of the panel group (it should be docked with the Project panel by default). 3. To make the Media Browser easier to see, position your pointer over the panel, and then press the `(accent grave) key (it is often in the upper-left corner of a keyboard) or double-click the panel name. Tip It can be
difficult to find the right key in some keyboard layouts. If you can't locate the `(accent grave) key, you can double-click the name of a panel to enlarge it to fill the screen. You may need to adjust the width of columns to make it easier to see items. 4. Using the Media
Browser, navigate to the folder Lessons/Assets/Video and Audio Files/Theft Unexpected, 5. Click the Thumbnail View button at the lower left of the Media Browser panel, and drag the resize slider next to it to enlarge the thumbnails of the clips. Choose any size you like. Note The Media Browser filters out non-media and
unsupported files, making it easier to browse for video or audio assets. Tip As you navigate into a folder system, the navigation area on the left of the Media Browser can fill up with folders. Drag the vertical divider to resize the navigation area or scroll within the navigation area to display the folders you are interested in.
You can hover your pointer over any clip thumbnail that is not selected, without clicking, to see a preview of the clip; hovering over the right edge shows the end of the clip. 6. Click any clip once to select it. You can now preview the clip using keyboard
shortcuts. When a clip is selected while in thumbnail view, a small preview timeline appears under the clip. 7. Press the L key or the spacebar again. 9. To play backward, press the J key. 10. Experiment with playing back other clips. You should be
able to hear the clip audio during playback. You can press the J or L key multiple times to increase the playback rate for fast previews. Use the K key or the spacebar to pause playback. Note If you can't hear audio, check the Audio Hardware preferences and make sure the correct output device is selected. 11. Now
you'll import all these clips into your project. Press Command+A (macOS) or Ctrl+A (Windows) to select all the clips. 12. Right-click one of the selected clips and then down into the empty area to import the clips. Having completed the
process of importing, the Project panel opens automatically and displays the clips you just imported. 13. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 13. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 13. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 13. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 13. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 14. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 14. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 14. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 14. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported. 14. Press the `(accent grave) key or double-click the Project panel opens automatically and displays the clips you just imported the project panel opens automatically and displays the clips you just imported the project panel opens automatically and displays the clips you just imported the project panel opens automatically and displays the clips you just imported the project panel opens automatically and displays the clips you just imported the project panel opens automatically and displays the clips you just imported the project panel opens automatically and displays the project panel opens automatically and disp
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information about each clip displayed. Switch between these two viewing modes by clicking the List View button or Icon View button at the bottom left of the Project panel. Making the most of the Media Browser The Media Browser has a number of features that make it easy to navigate your storage. The Forward and

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Back buttons work like those in a web browser, allowing you to navigate to locations you have viewed previously. If you expect to import files from a location often, you can add the folder to a list of favorites at the top of the navigation panel. To create a favorite, right-click the folder and choose Add To Favorites. Just
above the navigation area, there's a menu with recent storage locations. Choose an option to jump straight to that location. You can limit the types of files displayed to make it easier to browse large folders by opening the File Types Displayed menu. To ignore regular media file types and just display media from a
particular camera system, open the Directory Viewers menu. You can open multiple Media Browser panel, open the panel menu and choose New Media Browser Panel, By default, limited information about clips is displayed in the
List view. To display more information, you can add multiple columns of metadata by clicking the panel menu and choosing Edit Columns. In the Edit Columns, In the Edit Columns dialog box, select each type of metadata you would like to display. IMPORTING STILL IMAGE FILES Graphics are an integral part of post-production. People
expect graphics to both convey information and add to the visual style of a final edit. Premiere Pro can import just about any image file type (except RAW images). Support is especially excellent when you use the native file formats created by Adobe's leading graphic tools, Adobe Photoshop and Adobe Illustrator.
Anyone who works with print graphics or performs photo retouching has probably used Adobe Photoshop is a powerful tool with great depth and versatility, and it's an important part of the video production world. Let's explore how to properly import files from Adobe Photoshop. First, you'll import a
basic graphic. Importing single-layer image files Most graphics and photos you will work with as a simple media file. Let's import one, 1. Select the Project panel, 2. Choose File > Import, or press Command+I (macOS) or Ctrl+I (Windows), 3. Navigate to
Lessons/Assets/Graphics. 4. Select the file Theft Unexpected.png, and click Import. This PNG graphic is a simple logo file, and it appears in the Premiere Pro Project panel. When the Project panel is in icon view, it displays the contents of graphics as thumbnails. Introducing Dynamic Link Premiere Pro integrates
beautifully with the other tools available as part of Adobe Creative Cloud. In fact, there are several workflows, unique to Creative Cloud, that speed up your post-production workflow. A good example is Dynamic Link. This technology allows you to import After Effects compositions (which are a little like Premiere Pro
sequences) into a Premiere Pro project while maintaining a live connection between the two applications. Once added in this way, the After Effects compositions will look and behave like any other clip in your Premiere Pro project. However, when you make changes in After Effects, the imported compositions
continuously, automatically update in Premiere Pro and After Effects and between Premiere Pro and Adobe Audition. Importing layered Adobe Photoshop files Adobe Photoshop can create graphics with multiple layers. Layers
are similar to tracks in a Premiere Pro sequence and allow for separation between visual elements. You can import Photoshop document layers into Premiere Pro individually to layer-specific adjustments and animation. You'll use the Import Layered File dialog box to choose options for importing Photoshop files. In
contains the Import As menu, which offers four ways of selectively importing layers. Merge All Layers: Merges all layers into one, importing the file into Premiere Pro as a single, flattened clip. Individual Layers: Imports
only the specific layers you select in this dialog box, with each layer becoming a separate clip in a bin in the Project panel. Sequence: Imports only the layers you select in this dialog box, with each layer becoming a separate clip in a bin in the Project panel. Sequence: Imports only the layers you select in this dialog box, with each layer becoming a separate clip in a bin in the Project panel.
dimensions) containing each clip on a separate track (matching the original stacking order). If you choose Sequence or Individual Layers, you can choose one of the following from the Footage Dimensions menu: Document Size: Brings all the selected layers into Premiere Pro at the size of the original Photoshop
document. Layer Size: Matches the frame size of the new Premiere Pro clips to the frame size of their individual layers in the original Photoshop file. Layers that do not fill the entire canvas will be cropped tightly, as transparent areas outside of the rectangle containing the layer's pixels are removed. Layers are also then
centered in the frame, losing their original relative positioning. Let's import a layered Photoshop file into our project. 1. Double-click an empty area of the Project panel to open the Import dialog box, or choose File > Import. 2. Navigate to Lessons/Assets/Graphics. 3. Select the file Theft Unexpected Layered.psd, and
click Import. The Import Layered File dialog box appears. Note There are some deselected layers in this PSD. These are layers with layer visibility turned off in Photoshop but not deleted. Premiere Pro honors this layer selection automatically on import. Tip There are good reasons to import individual PSD layers with
different layer sizes. For example, some graphic designers create multiple images for editors to incorporate into video edits, with each image occupying a different layer in the PSD. The PSD itself is a kind of one-stop image store when used this way. 4. For this exercise, choose Sequence from the Import As menu, and
choose Document Size from the Footage Dimensions menu. Click OK. Note Bins in the Project panel look and behave a lot like folders in your computer file system, but they exist only inside the project file. They are a great way to stay organized. 5. Look in the Project panel for the newly created bin called
Theft Unexpected Layered. Double-click it to open it. 6. Inside the bin, double-click the sequence Theft Unexpected Layered to open it in the Timeline panel. Sequences have one icon in List view while a different icon is displayed over their thumbnail in Icon view. If you're unsure which item is which, hover your pointer
over an item name (not the icon) to display a detailed tool tip. This will tell you if it's a clip or a sequence by reading the bottom of the Timeline panel to shorten it and zoom in to see the clips in the sequence more clearly. Working with Adobe Photoshop files
Here are a few tips for importing images from Adobe Photoshop: When you import a layered Photoshop document as a sequence, the frame size in Premiere Pro will be the same as the pixel dimensions of the Photoshop document. Even if you don't plan to zoom in or pan, try to create full-frame image files with a frame
size at least as large as the frame size of the project. Otherwise, you'll have to scale up the image, and it will lose some of its sharpness. If you do plan to zoom or pan, create images so that the resulting zoomed or panned area of the image has a frame size at least as large as the frame size of the sequence. For
example, if you were working in full HD, which is 1920 × 1080 pixels, and you wanted to perform a 2X zoom, you'd need 3840 × 2160 pixels to keep the image files uses more system memory and can slow down your system. If you are working with
original photos (which can be massive). consider processing them to make them smaller before using them. If possible, use 16-bit RGB color. The CMYK color mode is for print workflows (and is not supported by Premiere Pro). Video editing uses RGB or YUV color modes. As with any other media you import, changes
made to the PSD file will update automatically in Premiere Pro when the file is saved. This means a designer can continue to work on an image you have already incorporated into a sequence in the timeline. The contents of the sequence are displayed in the Program Monitor. Try clicking the
Toggle Track Output button at the left of the timeline for each track to reveal and hide the content on each layer. In the Project panel, when you double-clicked the Theft Unexpected Layered bin, it opened in a new panel in the same group as the Project panel. Bins have the same options as the Project panel, and
opening multiple bins to browse their contents is a common way to navigate the available media in a project. 9. Close the Theft Unexpected Layered bin by choosing Close Panel from its panel menu. Importing Adobe Illustrator files Another important graphics component in Adobe Creative Cloud is Adobe Illustrator.
Unlike Photoshop, which is primarily designed to work with pixel-based (or raster) graphics, Adobe Illustrator is a vector-based application. Vector graphics are mathematical descriptions of shapes rather than drawn pixels. This means you can scale them to any size in Adobe Illustrator and they always look sharp—useful
for titles and graphics. Vector graphics are typically used for technical illustrations, line art, or complex graphics. Let's import a vector graphic. 1. In the Project panel, deselect the Theft Unexpected Layered bin. 2. Double-click an empty area of the Project panel to open the Import dialog box, or press Command+I
(macOS) or Ctrl+1 (Windows), 3. Navigate to Lessons/Assets/Graphics, 4. Select the file Brightlove film logo, ai, and click Import, 5. A clip linked to the Illustrator file vou imported will appear in the Project panel, Double-click the clip icon to view the logo in the Source Monitor. There's black text in the logo that disappears
into the black background of the Source Monitor. That's because the logo has a transparent background; you'll learn more about working with layers and transparency in Lesson 14, "Exploring Compositing Techniques." Note If you right-click Brightlove film logo.ai in the Project panel, you have the option to choose Edit
Original. If you have Adobe Illustrator, edit the original layers are merged in Premiere Pro, you can return to Adobe Illustrator, edit the original layered file, and save it; the changes will immediately appear
in Premiere Pro. Here's how Premiere Pro deals with Adobe Illustrator files: Like the Photoshop file you imported earlier, this is a layered graphic file in separate layers. It always merges them into a single layer clip. Premiere Pro uses a
process called rasterization to convert the vector-based Adobe Illustrator art into the pixel-based image format used by Premiere Pro. This conversion happens during import automatically, so be sure your graphics are configured to be high enough resolution in Illustrator before importing them into Premiere Pro. Premiere
Pro automatically anti-aliases (smooths the edges of) Adobe Illustrator art. Premiere Pro sets all empty areas of Illustrator files as transparent so that clips on lower tracks in your sequence will show through. Importing subfolders When you bring media into Premiere Pro, you don't have to select individual files. You can
select a whole folder. If you have already organized your files into folders and subfolders on your storage drive, when you import them, the folders are re-created as bins in Premiere Pro. Try this now. 1. Choose File > Import, or press Command+I (macOS) or Ctrl+I (Windows). 2. Navigate to Lessons/Assets, and select
the Stills folder. Don't browse inside the folder; just select it. 3. Click the Import (macOS) or Import Folder (Windows) button. Premiere Pro imports the folders containing photos. In the Project panel, you'll find bins have been created to match the folders. In List view, you can click
the disclosure triangle next to any bin to toggle the display of its contents. Note You can import folders and subfolders this way using the Media Browser, and import it to achieve the same result. Note If you import an entire folder, it's possible some of the
files will not be media supported by Premiere Pro. If so, a message will inform you that some files could not be imported. Importing VR video that is best viewed using a VR headset as it captures an image in all 360 degrees. When wearing a VR headset to view
this kind of video, you can turn your head to look in different directions. Premiere Pro has built-in support for VR headsets, and special effects designed for the particular needs of video footage that surrounds the viewer. There is
no special import process for 360° video. You can use the regular Import option, or you can use the Media Browser panel and import as you would any other video file. Premiere Pro expects prestitched equirectangular media, so you will have to use another application to prepare your 360° media in this way prior to
import. The excellent 360° video workflows and dedicated visual effects in Premiere Pro are beyond the scope of this book. Check the online help for more information. USING ADOBE STOCK The Libraries panel allows you to easily share design assets between projects and users. You can also search Adobe Stock
directly in the Libraries panel, choose video clips and graphics, and use a low-resolution preview in your project immediately, prior to purchasing the full-resolution versions. Adobe Stock offers millions of images and videos you can easily incorporate into your sequences via the Libraries panel. If you're happy with a stock
item and you'd like to purchase the full-resolution version, you can click the License And Save To Shopping Cart icon that appears on the item in the Libraries panel. The full-resolution version, you can click the License And Save To Shopping Cart icon that appears on the item in the Libraries panel. The full-resolution version, you can click the License And Save To Shopping Cart icon that appears on the item in the Libraries panel.
Adobe Stock, check out stock.adobe.com. CUSTOMIZING THE MEDIA CACHE When you import files in certain video and audio formats, Premiere Pro may need to process and cache (temporarily store) a version of the file or additional files to make clip playback or waveform display smoother. This is particularly true for
highly compressed formats, and the process is called conforming. Note You may have noticed the way certain formats are processed when imported to Premiere Pro. That's because the principle is the same—the
original material is adapted to improve performance. If necessary, imported audio files are automatically conformed to a new CFA file (conformed to a new CFA file (conformed audio files are indexed, resulting in an extra MPGINDEX file that makes it easier to read the file (it's a little like creating a map of the file to make playback
easier). You'll know that the cache is being built if you see a small progress indicator in the lower-right corner of the screen when importing media. The media cache improves preview playback performance by making it easier for your editing system to decode and play media. You can customize the cache to further
improve performance. A media cache (macOS) or Edit > Preferences > Media Cache (macOS) or Edit > Preferences > Media Cache (Windows). Here are the
options: To move the media cache files or the media cache database to a new location, click the appropriate Browse button, select Save .cfa And .pek Media Cache Files Next To Original Media Files When Possible to keep media
cache files stored on the same drive as the media. If you want to keep everything in one central folder, leave this option unselected. Remember, the faster the drive for the media cache database on a regular
basis to remove old conform and index files that are no longer required. To do so, click the Delete button. In the Delete button. In the Delete button and index files removed unnecessary preview render
files too, saving space. The Media Cache Management options allow you to configure a degree of automation in the management of cache files, including those that
are in use, restart Premiere Pro and access the Media Cache preferences from the Home screen. When you to choose Delete All Media Cache Files From The System. For now, click Cancel to close the Preferences dialog box without saving your
changes. RECORDING A VOICE-OVER You may be working on a video project that includes a narration track. It's likely you will have the narration quieter than your desk), but with the right hardware, you can record high-quality audio right into Premiere Pro.
Tip If you have multiple audio input devices connected to your system, you can choose which will be used for voice-Over Record Settings. The dialog box that appears also allows you to pre-name the new audio file. This can be helpful
because it will give you a sense of timing for your edits. Try recording a scratch audio track. 1. If you're not using a built-in microphone, make sure your external microphone or audio mixer is properly connected to your computer. You may need to consult the documentation for your computer or sound card. 2. Every audio
track has a set of buttons and options on the far left. This area is called the track header. There's a Voice-Over Record button for each audio track. Right-click a microphone icon in the header area of the Timeline panel, and choose Voice-Over Record Settings to choose your microphone. Then click the Close button. 3.
Turn down your computer speakers, or use headphones to prevent feedback or echo. 4. If it is not open already, open the Theft Unexpected Layered bin. 5. To see the result more clearly, increase the height of the A1 track. To increase the height of an audio track, double-
click an empty space to the right of the track header, drag down on the horizontal dividing line between two audio track headers, or hover the pointer over the track header, while holding Option (macOS) or Alt (Windows), and scroll down. In the Timeline panel, time moves from left to right, just as it does with any online
video. At the top of the Timeline panel, where the time ruler is displayed, a playhead indicates the current frame displayed in the Program Monitor. You can also drag on the time ruler itself to view the contents of the current
sequence. This is called scrubbing (like scrubbing a floor). 6. Position the Timeline playhead at the beginning of the sequence, as far left as it will go, and click the Voice-Over Record button for track A1 to begin recording. 7. After a brief countdown, recording will begin. Say a few words, and press the spacebar to stop
recording. A new audio clip is created and added to the Project panel and the current sequence. 8. Choose File > Save to save the project. You can close the project or keep it open, ready for the next lesson. REVIEW QUESTIONS 1. Does Premiere Pro need to convert P2, XDCAM, R3D, ARRIRAW, or AVCHD footage
when it is imported? 2. What is an advantage of using the Media Browser rather than the File > Import method to import method to import method to import the file? 4. Where can media cache files be stored? 5. How can you
enable proxy media file creation when video is imported? REVIEW ANSWERS 1. No. Premiere Pro can edit P2, XDCAM, and AVCHD, as well as many other formats, natively. 2. The Media Browser understands the complex folder structures for P2, XDCAM, and many other formats. It automatically
stiches multiple media files together into a single clip where it's needed. 3. You can merge all the visible layers in the Photoshop file into a single clip by choosing Merge All Layers from the Import As menu in the Import Layered File dialog box; or select the specific layers you want by choosing Merged Layers. If you want
layers as separate clips, choose Individual Layers and select the layers to import, or choose Sequence to import the selected layers and create a new sequence from them, 4. You can store media cache files in any specified location or automatically on the same drive as the original files (when possible). The faster the
storage for your cache, the better the playback performance. 5. You can enable proxy media file creation in the Ingest Settings dialog box. You'll find these in the Project Settings dialog box. You can also enable proxy creation by selecting the box at the top of the Media Browser. There's an Ingest Settings button there
too. 4 Organizing Media Lesson overview In this lesson, you'll learn how to do the following: Use the Project panel. Stay organized with bins. Add clip metadata. Use essential playback controls. Interpret footage. Make changes to your clips. This lesson will take about 90 minutes to complete. To get the lesson files used
in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. Once you have some video and audio assets in your project, you'll begin looking
through your footage and adding clips to a seguence. Before you do, it's well worth spending a little time organizing the assets you have. Doing so can save you from spending hours hunting for things later. STARTING THE LESSON When you have lots of clips in your project, imported from several different media types
it can be a challenge to stay on top of everything and always find that magic shot when you need it. In this lesson, you'll learn how to organize your clips using the Project panel. You'll create special folders, called bins, to divide your clips into categories. You'll also learn about adding important metadata and labels to your
clips. You'll begin by getting to know the Project file Lesson 04, project file Lesson 05, "Importing Media." Continue to work with the project file from the projec
reset the workspace to the default. In the Workspaces panel, click Editing. Then click the panel menu adjacent to the Editing option, and choose File > Save As. 4. Rename the file to Lesson 04 Working.prproj. 5. Browse to the Lessons folder, and click Save to save the project. By
saving a new version of the project file you can always go back to the previous version—it's an electronic paper trail. USING THE PROJECT PANEL Everything you tools for browsing your clips and working with their
metadata, the Project panel has folder-like bins that you can use to stay organized. In addition to acting as the repository for all your footage will have a frame rate (frames per second, or fps) and a pixel aspect ratio (pixel shape), for
example. You may want to change these settings for creative or technical reasons. The Project panel in List view, To switch to this view, click the List View button at the bottom left of the panel. You could, for example, interpret video recorded at 60 fps video as 30 fps to achieve a 50% slow-motion effect. You might
receive a video file that has the wrong pixel aspect ratio setting and want to correct it. Premiere Pro uses metadata associated with footage to know how to play it back and can display and edit additional metadata (such as location log notes) in the Project panel or the dedicated Metadata panel. If you want to change the
clip metadata, you can do so in the Project panel. Customizing the Project panel It's likely that you'll want to resize the Project panel from time to time. You'll alternate between looking at your clips as a list or as thumbnail icons. Sometimes it's quicker to resize the panel than to scroll to see more information. The default
Editing workspace is designed to keep the interface as clean as possible so you can focus on your creative work. Part of the Project panel that's hidden from view by default, called the Preview Area, gives additional information about your clips. Let's take a look. 1. Open the Project panel menu. 2. Choose Preview Area, gives additional information about your clips. Let's take a look. 1. Open the Project panel menu. 2. Choose Preview Area, gives additional information about your clips.
The Preview Area shows useful information about clips when you select them. Tip You can access lots of clip information by scrolling the List view or by hovering your pointer over a clip name. Tip There's a guick way to toggle between seeing the Project panel in a frame and seeing it full-screen: Hover your pointer over
the panel, and press the `(accent grave) key. You can do this with any panel. If your keyboard does not have a `(accent grave) key, you can double-click the panel name. The Preview Area shows you several kinds of useful information about a selected clip in the Project panel, including the frame size, pixel aspect ratio,
and duration. Click the Poster Frame button to set the clip thumbnail displayed in the Project panel. If it's not already selected, click the List View button at the bottom left of the Project panel. In this view, you'll find a lot of information about each clip in the Project panel organized in columns, but you need to scroll
horizontally to see it. 3. Choose Preview Area from the Project panel menu again to hide it. There is also a Freeform view in the Project panel Working with clips is a
little like working with pieces of paper at your desk. If you have just one or two clips, it's easy. But when you have a touchpad. Note When you scroll the Project panel view up and down using the scroll wheel on your mouse, or using a gesture if you have a touchpad. Note When you scroll the Project panel view up and down using the scroll wheel on your mouse, or using a gesture if you have a touchpad. Note When you scroll the Project panel view up and down using the scroll wheel on your mouse, or using a gesture if you have a touchpad. Note When you scroll wheel on your mouse, or using a gesture if you have just one or two clips, it's easy.
to the right in the Project panel, Premiere Pro always maintains the clip names on the left so you know which clips you're seeing information about. Note You may need to drag a heading divider to expand the width of a column before you can see its sort order indicator or all of the information available in the column. One
way you can help make things smoother during the edit is to invest a little time in organizing your clips at the beginning. If you rename your clips after importing them, you can more easily locate content later (see "Changing names" in this lesson). 1. Click the Name column heading at the top of the Project panel. Each
time you click the Name heading, items in the Project panel are displayed in alphabetical order. If you're searching for several clips with particular features—such as a duration or a frame size—it can be helpful to change
the order in which the headings are displayed. 2. Scroll to the right until you can see the Media Duration heading in the Project panel. This shows the total duration heading in the Project panel. This shows the total duration heading in the Project panel. This shows the total duration heading in the Project panel. This shows the total duration heading in the Project panel. This shows the total duration heading in the Project panel.
Media Duration heading. Each time you click the heading, the direction arrow toggles between showing clips in order of increasing duration and decreasing duration and decreasing duration. Tip The Project panel configuration is saved with workspaces, so if you want to always have access to a particular setup, save it as part of a custom
workspace. 4. Drag the Media Duration heading to the left until you see a blue divider between the Frame Rate heading will be repositioned right next to the Name heading. Filtering bin content Premiere Pro has search tools to help you
find your media. Even if you're using the nondescriptive original clip names assigned in-camera, you can search for clips based on a number of factors, such as frame size or file type. Note Graphic and photo files such as Adobe Photoshop PSD, JPEG, and Adobe Illustrator AI files import with a default frame duration.
You can change this by choosing Preferences > Timeline > Still Image Default Duration. At the top of the Project panel, you can type in the Search (or Filter Bin Content) field to display only clips with names or metadata matching the text you enter. This is a guick way to locate a clip if you remember its name (or even part
of its name). Clips that don't match the text you enter are hidden, and clips that do match are revealed, even if they are inside a closed bin. Try this now. 1. Click in the Filter Bin Content box, and type jo. Note The name bin comes from film editing. The Project panel is also effectively a bin; it can contain clips and
functions like any other bin. Premiere Pro displays only the clips with the letters jo in the mame or in the metadata. Notice that the name of the project is displayed above the text-entry box, along with (filtered). This is the only indication that some of the clips in the Project panel may be hidden. 2. Click the X on the right of
the Search field to clear your search. 3. Type psd in the box. Premiere Pro displays only clips that have the letters psd in their name or metadata. In this case, it's the Theft Unexpected title you imported in the previous lesson as a layered image—this is a Photoshop PSD file. Using the Filter Bin Content box in this way.
you can search for particular types of files. Some types of metadata can be edited directly in the Project panel. For example, you can add notes to the Description field, and these will immediately be searchable. Be sure to click the X on the right of the Search field to clear your filter when you have found the clips you
want. Do this now. Using advanced Find Premiere Pro also has an advanced Find feature. To learn about it, let's import these items: Seattle Skyline.mov from the Assets/Video and Audio Files/General Views folder Under Basket.mov from the
Assets/Video and Audio Files/Basketball folder At the bottom of the Project panel, click the Find button. Premiere Pro displays the Find dialog box, which has more advanced options for locating your clip. You can perform two searches at once with the advanced Find dialog box. You can choose to display clips that
match all search criteria or any search criteria. For example, depending on the setting you choose from the Match menu, you could do either of the following: Search for a clip with the word dog or boat in its name. You can refine your search with the following
menus: Column: This menu lists the columns in the Project panel. When you click Find, Premiere Pro will search options. You can choose to have the search return clips that contain your search term, match it exactly, begin with it,
end with it, or lack it entirely. Tip You can find clips in sequences too. With a sequence open and the Timeline panel active, choose All to find a clip with both your first and your second search text. Choose Any to find a clip with either your first or your second search term. Case Sensitive:
Select this option to return only results that exactly match the uppercase and lowercase letters you enter. Find What: Type your search criteria. Click Find again, and Premiere Pro highlights the next clip that matches your search
criteria. Click Done to exit the Find dialog box. WORKING WITH BINS Bins allow you to organize clips by dividing them into groups. Just as with folders on your hard drive, you can have multiple bins inside other bins, creating a hierarchical structure as complex as your project requires. There's an important difference
between bins and the folders on your storage drive, however: Bins exist only in your Premiere Pro project bins on your storage drive. Creating bins Let's create a bin. 1. Click the New Bin button at the bottom of the Project panel. Premiere Pro
creates a new bin and automatically highlights the name, ready for you to rename it. It's a good habit to name bins as soon as you create them, 2. You have already imported some clips from a short film, so let's give them a bin. Name the new bin Theft Unexpected, and press Return (macOS) or Enter (Windows), 3. You
can also create a bin using the File menu. Let's do this now: Make sure the Project panel is active, and deselect the bin you just create a new bin, the new bin is placed inside the selected bin.) Choose File > New > Bin. 4. Name the new bin Graphics, and press Return/Enter. Note It
can be difficult to find a blank part of the Project panel to click when it is full of clips. Try clicking just to the left of the icons, inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin, drag the new bin out of the selected bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin of the new bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin or choose Edit > Deselect All. Tip If you accidentally create a new bin inside an existing bin or choose Edit > Deselect All. Tip If you accidentally create a new bin or choose Edit > Deselect All. Tip If you accidentally create a new bin or choose Edit > D
and create it again after deselecting. 5. You can also make a new bin by right-clicking a blank area in the Project panel and choosing New Bin. Try this now. 6. Name the new bin Illustrator Files, and press Return/Enter. One of the guickest and easiest ways to create a new bin for clips you already have in your project is
to drag and drop the clips onto the New Bin button at the bottom of the Project panel, 7. Drag and drop the clip Seattle Skyline, moving the Revision onto the New Bin button, 8. Name the newly created bin City Views, and press Return/Enter, 9. Make sure the Project panel is active, but no existing bins are selected. Press the keyboard
shortcut Command+B (macOS) or Ctrl+B (Windows) to make another bin. 10. Name the bin Sequences, and press Return/Enter. If your Project panel is set to List view, with the Name heading selected for sorting at the top of the panel, bins are displayed in alphabetical order among the clips. Newly created bins in List
view are automatically expanded, with their disclosure triangles set open. Note To rename a bin, right-click it and choose Rename. Type the new name, and click away from the text to apply it. Managing media in bins Now that you have some bins, let's put them to use. As you move clips into bins, use the disclosure
triangles to hide their contents and tidy up the view. Note When you import a Photoshop file with multiple layers and their sequence, 1. Drag the clip Brightlove film logo, ai onto the Illustrator Files bin icon. This will move the
clip into the bin, 2. Drag Theft Unexpected, png into the Graphics bin, 3. Drag the bin called Theft Unexpected Lavered (created automatically when you imported the lavered PSD file as individual lavers) into the Graphics bin, 4. Drag the clip Under Basket, mov into the City Views bin, You may need to resize the panel
or switch it to full-screen to see both the clip and the bin. 5. Drag the sequence called First Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence called First Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Sequence bin. 6. Drag all the remaining clips into the Seq
can with files on your hard drive. You should now have a nicely organized Project panel, with each kind of clip in its own bin. Tip To expand or collapse all disclosure triangle. You can also copy and paste clips to make extra copies if this helps
you stay organized. In the Graphics bin, you have a PNG file that might be useful for the Theft Unexpected content. Let's make an extra copy. 7. Click the disclosure triangle for the
Theft Unexpected bin to display the contents. Note When you make copies of clips, you are not making duplicate copies as you like of a clip in vour Premiere Pro project. Those copies will all link to the same original media file. 10. Right-click the Theft
Unexpected bin and choose Paste. A copy of the clip is added to the Theft Unexpected bin. Finding your media files If you would like to know where a media file is on your hard drive, you can right-click the clip in the Project panel and choose Reveal In Finder (macOS) or Explorer (Windows). The folder in your storage
drive that contains the media file will open. This can be useful if you are working with media files stored on multiple hard drives or if you have renamed your clips in that bin now, which is the voice-over
you recorded in an earlier exercise. If you tried recording voice-over multiple times, you may have more than one audio clip, each with a different number. Let's remove the clip but keep the audio: 1. Right-click that voice-over clip and choose Reveal In Finder (macOS) or Explorer (Windows). 2. Switch back to Premiere
Pro. Click the icon for the Audio 1.way clip to select it, and press Backspace (macOS) or Delete (Windows) to remove it, Premiere Pro displays a warning message to remind you that the clip is currently used in a seguence. Clicking Yes will remove the clip from the Project panel and any seguence that contains the clip
Click Yes to remove the clip. 3. Switch back to the folder containing the file in your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage. It's still there! Removing a clip in Premiere Pro does not remove it from your storage.
options. For all intents and purposes, you can treat the Project panel as a bin; many Premiere Pro editors use the terms bin and Project panel interchangeably. Bins have three views, You choose between them by clicking the List View button, or Freeform View button at the bottom left of the Project panel interchangeably.
panel. List view: This view displays your clips and bins as a list, with a significant amount of metadata displayed. You can scroll through the metadata and use it to sort clips by clicking column headers. Icon view: This view displays your clips and bins as thumbnails you can rearrange and use to preview clip contents.
Freeform view: This view displays clips and bins as thumbnails that you can assign different sizes, group together, and place freely in a large area. More information on this view is coming up later in this lesson in "Freeform View." The Project panel has a zoom control, next to the List View, Icon, and Freeform View
Double-click the Theft Unexpected bin to open it in its own panel (the option to open bins in a new panel when double-clicking can be changed in the General preferences). 2. Click the Icon View button on the Theft Unexpected bin to display thumbnails for the clips. You may want to resize the Project panel to view more
thumbnails. Note You can also change the font size in the Project panel or a bin by clicking the panel menu and choosing Font Size. This is particularly useful if you are working on a high-resolution screen. 3. Try adjusting the zoom control. Premiere Pro can display large thumbnails to make browsing and selecting your
clips easier. You can also apply various kinds of sorting to clip thumbnails in Icon view by clicking the Sort Icons menu. 4. Switch to List view, it doesn't help that much to zoom, unless you turn on the display of thumbnails in this view. 5. Open the panel menu, and choose Thumbnails. Premiere
Pro now displays thumbnails in List view, as well as in Icon view. 6. Drag the Zoom control to the right to increase the size of thumbnails in List view, as well as in Icon view. 6. Drag the Zoom control to the right to increase the size of thumbnails. The clip thumbnails in List view, as well as in Icon view. 6. Drag the Zoom control to the right to increase the size of thumbnails. The clip thumbnails in List view, as well as in Icon view. 6. Drag the Zoom control to the right to increase the size of thumbnails.
clapperboard, but it would be useful to see the character. Notice the numbers in the clip names. For these are the original media file names that were retained when adding descriptive names. For these lessons, we'll only refer to the descriptive clip names and omit the numbers from the original media. 7. Switch to Icon view
Note Selecting a clip by clicking its thumbnail reveals a small timeline control under it. Drag on this timeline to view the contents of the clip. In this view, you can hover the pointer over t
the shot. 9. While the frame you have chosen is displayed, press the I key. The I key is the keyboard shortcut for Mark In, a command that sets the beginning of a selection when choosing part of a clip that you intend to add to a sequence. The same selection also sets the visible frame, called the poster frame, for a clip
in a bin. 10. Switch to List view. Premiere Pro shows your newly selected frame as the thumbnail for this clip. 11. Choose Thumbnails in List view. Creating Search bins When using the Search field to display specific clips, you have the option to create a special kind of virtual
bin, called a Search bin. After typing in the Search bins and place them in other bins. The contents of a search performed when using the Search field. You can rename search bins and place them in other bins. The contents of a
Search bin will update dynamically, so if you add new clips to a project that meet the search criteria, they'll appear in the Search bin automatically. This can be a fantastic time-saver when working with documentary material that changes over time as you obtain new footage. Assigning labels Every item in the Project
panel has a label color. In List view, the Label column shows the label color for every clip. When you add clips to a sequence, they are displayed in the Timeline panel with this label color. Let's change the label color for a title. 1. In the Theft Unexpected bin, right-click 
You can change label colors for multiple clips in a single step by selecting them and then right-clicking them to choose another label color. 2. Press Command+Z (Mindows) to change the Theft Unexpected.png label color back to Lavender. When you add a clip to a sequence, Premiere Pro creates a
new instance, or copy, of that clip. You'll have one copy in the Project panel and one copy in the seguence. Both link to the same media file. When you change the label color for a clip in the Project panel or rename a clip, it may or may not update copies of the clip in seguences. You can set this by choosing File > Project
Settings > General and enabling or disabling the option to display the project item name and label colors, you can right-click a clip at any time and choose Label > Select Label Group to select and highlight all visible items with the same label. Changing the
available label colors You can assign up to 16 colors as labels to items in your project. There are seven types of items that label colors can be assigned to automatically based on the item type (video, audio, still, etc.), which means there are nine spare label colors. If you choose Premiere Pro > Preferences > Labels
(macOS) or Edit > Preferences > Labels (Windows), you'll see the list of colors, each with a color swatch. You can use the Label Defaults options to choose different default labels for each kind of item in your project. Changing
names Because clips in your project are separate from the media files on the hard drive are left untouched. This makes it safe to rename clips—and it can be helpful when organizing a complex project. If you opened the Theft
Unexpected bin by doubleclicking it, it will have opened as a new panel in the same group as the Project panel. Let's begin by navigating between bins. At the top left of the Theft Unexpected bin, you'll see a button to navigate up. This button appears whenever you are viewing the contents of a bin by opening it. Just as
Finder (macOS) or Explorer (Windows) have navigation buttons, you can use this button to browse "up" to the container of the current bin. 1. Click to navigate up to the Project panel. The Project panel comes to the front and becomes the active
panel. The Theft Unexpected bin is still open. Whenever you navigate between bins that are already open, the existing open instance is displayed. This way, you won't have multiple instances of the same bin taking up space on-screen. 2. Open the Graphics bin. 3. Right-click the clip Theft Unexpected.png and choose
Rename. 4. Change the name to TU Title BW (that is, Theft Unexpected Title Black and White). After typing the new name, click the newly renamed clip, TU Title BW, and choose Reveal In Finder (macOS) or Reveal In Explorer (Windows). Tip To rename an
item in the Project panel, you can also click the item name, wait a moment, and click again, or you can select the item and press Return (macOS) or Enter (Windows). The original file is displayed in its current location. Notice that the original filename has not changed. Earlier you deleted a clip in this project and the
original media file renamed—in a sense this is similar to renaming a clip in a project. Changing the clip does not change the made of a clip in Premiere Pro, the new name is stored in the project file. Different Premiere Pro project files may use different names for the same clip. In
fact, you could have two copies of a clip in the same project with different names. It's helpful to be clear about the relationship between your original media files and the clips inside the Premiere Pro project because it explains much of the way the application works. Customizing bins When set to List view, the Project
panel displays a number of columns of information about each clip. Depending on the clips you have and the types of metadata you are working with, you might want to change the columns that are displayed. 1. In the Project panel group, select the Theft Unexpected bin tab to bring it to the front of the group. 2. Open the
panel menu, and choose Metadata Display in the List view of the Project panel (and any bins). All you have to do is select the checkbox for the kind of information you would like to be included. 3. Click the disclosure triangle for
Premiere Pro Project Metadata to show those options. Note Notice there's a Search box at the top of the Metadata Display dialog box. Enter the name of an item here to locate it if you're not sure which category to browse in. 4. Select the Media Type option. 5. Click OK. Media Type is now added as a heading for the
Theft Unexpected bin only. You can apply the change to every bin in one step by using the panel menu in the Project file, while
metadata display settings for the Project panel are saved with the workspace. Any bins without modified metadata display settings from the Project panel are saved with the settings from the Project panel. Note Several useful bin columns are displayed by default, including the Good check box. Select this box for clips you prefer, and then click the
column heading to sort selected shots from unwanted content. Some columns provide information only, while others can be edited directly in the bin. The Scene column gives information about the original media and cannot be
edited directly. If you add information and press the Return (macOS) or Enter (Windows) key, Premiere Pro activates the same box for the next clip down. This way, you can use the keyboard to quickly enter information about several clips, jumping from one box to the next without using your pointer. You can also use the
Tab key to move between boxes toward the right, and you can press Shift+Tab to move between boxes toward the left. This way, you can switch to a faster keyboard workflow for metadata entry (it also leaves a hand free to hold a cup of coffee...). Having multiple bins open at once Every bin panel behaves in the same
way, with the same options, buttons, and settings. By default, when you double-click a bin, it opens in a new panel, in the same panel group. You can change this in Preferences by choosing Premiere Pro > Preferences > General (macOS) or Edit > Preferences > General (Windows). The options in the Bins area of the
General preferences allow you to choose what will happen when you double-click (macOS) or Ctrldouble-click (Windows); or Option-double-click (
match the way Finder (macOS) or Explorer (Windows) open folders, with bins opening in place when you double-click, for example. The settings shown here are a good match. REVIEWING FOOTAGE The greater part of video editing is spent watching or listening to clips and making creative choices about them.
Premiere Pro has multiple ways to perform common tasks, such as playing video clips. You can use the keyboard, click buttons with your pointer, or use an external device like a jog/shuttle controller. 1. Continue working in the Theft Unexpected bin. 2. Click the Icon View button at the lower-left corner of the bin, and use
the Zoom control to set the thumbnails to a size you are happy with. 3. Hover your pointer over any of the elip as you move your pointer. The left edge of the thumbnail represents the beginning of the clip, and the right edge represents the end. In this way, the
width of the thumbnail represents the whole clip. This is called hover scrubbing. 4. Select a clip by clicking it once (be careful not to double-click or the clip will open in the Source Monitor). Now, hover scrubbing is turned off. While hover scrubbing, a tiny navigator appeared at the bottom of the thumbnail. When the clip is
selected, this navigator gets larger, and a small gray playhead appears. Try dragging through the clip using the playhead. When a clip is selected, you can in the Media Browser. Tip If you press the J or L key multiple times, the video will play
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at multiple speeds. Pressing Shift+J or Shift+L reduces or increases playback speed in 10% increments. 1. J: Play backward 2. K: Pause 3. L: Play forward 5. Select a clip, and use the J, K, and L keys to play the video in the thumbnail. When you double-click a clip, Premiere Pro displays the clip in the Source Monitor
and also adds it to a list of recent clips. Touchscreen editing If you are working on a touchscreen computer, you may see additional controls on thumbnails in the Project panel. These allow you to perform editing tasks without a mouse or trackpad. To see these controls on a nontouchscreen computer, click the panel
menu and choose Thumbnail Controls For All Pointing Devices. Tip Notice that you have the option to close a single clip or close all clips, clearing the menu and the monitor. Some editors like to clear the menu and then open several clips that are part of a scene by selecting them in the bin and dragging them into the
Source Monitor together. You can then use the Recent Items menu to browse only the clips from that selection. You can also toggle between clips on this recent list by pressing the Source Monitor panel keyboard shortcut, Shift+2. 6. Double-click four or five clips from the Theft Unexpected bin to open them in the Source
Monitor. 7. Open the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Source Monitor panel menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the bottom left of the Source Monitor panel menu to browse your recent clips. 8. Open the Zoom Level menu at the Bottom Level menu at the B
higher resolution than the monitors. It's likely scroll bars have appeared at the bottom and on the right of your Source Monitor so you can view different parts of the image got smaller. The benefit of viewing with Zoom set to 100% is that
you see every pixel of the original video, which is useful for checking the quality. 9. Choose Fit from the Zoom Level menu. Using essential playback controls. 1. Double-click the shot Excuse Me (not Excuse Me Tilted) in the Theft Unexpected bin to open it in the Source
Monitor, 2. At the bottom of the Source Monitor, you'll find a blue playhead marker, Drag it along the bottom of the playhead to go, and it will jump to that spot. Tip Hover the pointer over each one to see the name and keyboard shortcut (in
parentheses). 3. Below the time ruler and its playhead, there's a scroll bar that doubles as a Zoom control. Drag one end of this scroll bar to zoom in on the time ruler. This will make it easier to navigate longer clips. 4. Click the Play/Stop button to play the clip. Click it again to stop playback. You can also use the
spacebar to start and stop playback. 5. Click the Step Back 1 Frame and Step Forward 1 Frame buttons to move through the clip one frame at a time. You can also use the Left Arrow keys on your keyboard. Note Panel selection is important when using keyboard shortcuts (and menus). If you find the J.
K, and L keys don't work, double-check that the Source Monitor is selected (it will be outlined in blue). 6. Try using the J, K, and L keys to play your clip. 7. Try holding K while you press and release the J or L key. The playhead will move one frame and play associated audio, making it useful when seeking a precise
moment in dialogue. Lowering the playback resolution If you have an older or slower computer processor or are working with RAW media with large frame sizes, such as Ultra High-Definition (UHD, 4K, 8K, or above), your computer may struggle to play all the frames of your video clips. Clips will play with the correct
timing (so 10 seconds of video will still take 10 seconds), but some frames may not be displayed. To work with a wide variety of computer hardware configurations, from powerful desktop workstations to lightweight portable laptops, Premiere Pro can lower the playback resolution to make playback smoother. There are
separate menus in the Source Monitor and Program Monitor to set the playback resolution. The default resolution as often as you like, using the Select Playback Resolution menu on the Source Monitor and Program Monitor panels. Some lower resolutions are available only
when working with particular media types. For other media types, the work of converting the image to lower resolution because not all codecs can be played back at a lower resolution efficiently. In that case, some resolutions will be dimmed and
unavailable. Tip If you are working with a particularly powerful computer, you may want to choose High Quality Playback from the monitor Settings menu. This maximizes preview playback quality, particularly for compressed media like H.264 video, graphics, and stills (at the expense of playback performance). Getting
timecode information At the bottom left of the Source Monitor, a timecode display in blue shows the current position of the playhead in hours, minutes, seconds, and frames (00:00:00:00), according to the clip's timecode. For example, 01:54:08:05 is 1 hour, 54 minutes, 8 seconds, and 5 frames. Clip timecode will rarely
begin at 00:00:00:00, so you should not count on this number to assess the duration of a clip. At the bottom right of the Source Monitor, a timecode display in light gray shows the duration of your clip. By default, this shows the whole clip duration, but later you'll add special In and Out marks to make a partial selection.
When you do, that duration shown will change accordingly. In and Out marks are simple to use: Click the Mark In button to set the beginning of the part of a clip you want. You'll learn more about this in Lesson 5, "Mastering the Essentials of
Video Editing." Displaying safe margins Television monitors often crop the edges of the picture to achieve a clean edge. Open the Settings menu at the bottom of the Source Monitor, and choose Safe Margins to display useful white outlines over the image. The outer box is the action-safe zone. Aim to keep important
action inside this box so that when the picture is displayed, edge cropping does not hide what's going on. The inner box is the title-safe zone. Keep titles and graphics inside this box so that even on a badly adjusted display, your audience will be able to read the words. Premiere Pro also has advanced overlay options
that can be configured to display useful information in the Source Monitor and Program Monitor. To enable or disable overlays, open the monitor's Settings menu and choose Overlays, open the monitor's Settings menu and choose Overlays.
Settings > Settings. You can disable Safe Margins or Overlays by choosing them from the Source Monitor's Settings menu again. Do so now so you can see the image clearly. Customizing the monitors To customize the way a monitor displays video, open each monitor's Settings menu. The Source
Monitor and Program Monitor have similar options. In the Source Monitor, you can view the waveform of the audio in the clip, which shows amplitude over time (useful if you are searching for a particular sound or the start of a word). Tip If you are working with 360° video, you can switch to a VR video viewing mode using
the Source Monitor and Program Monitor Settings menus. Make sure Composite Video is chosen from the Source Monitor and Program Monitor Settings menus for now. You can quickly switch between viewing the clip audio waveform and the video by clicking Drag Video Only or Drag Audio Only, just under the video
display. These icons are mainly used to drag only the video or only the audio part of a clip into a sequence, but they also provide this useful shortcut to view the audio waveform. You can add, move, or remove buttons at the bottom of the Source Monitor and Program Monitor. Note that any customizations you make to
the buttons on one of the monitor panels are applied only to that panel. 1. Click the Button Editor at the bottom right of the Source Monitor. The complete set of available buttons appears on a floating panel. 2. Drag the Loop Playback button from the floating panel to a spot to the right of the Play button on the Source
Monitor (the other buttons will automatically make space for it), and click OK to close the Button Editor. 3. Double-click the Excuse Me clip in the Theft Unexpected bin to open it in the Source Monitor if it isn't open already. 4. Click the Loop Playback button you added to enable it. 5. Click the Play button to play the clip.
Play the video using the spacebar or the Play button on the Source Monitor. Stop the playback when you've seen the video start again. With Loop turned on, Premiere Pro continuously repeats playback of a clip or sequence. If there are In and Out marks set, playback loops between them. This is a great way to review a
section of a clip. 6. Click the Step Back 1 Frame Frame and Step Forward 1 buttons to move through the clip one frame at a time. You can also use the Left Arrow keys on your keyboard. FREEFORM VIEW The important third viewing mode in the Project panel is called Freeform view. This mode looks a
lot like Icon view except that now you can position clips anywhere, including beyond the currently visible edges of the panel. You can set different thumbnail sizes for different thumbna
to each other in a line, you can use hover scrubbing to quickly review multiple clips. Let's try this with some new clips. 1. If you have browsed into a bin in the Project panel or if a bin is selected, the following steps will result in new items being added to that bin. To avoid this, use the Navigate Up button or deselect any
bins in the Project panel before continuing. Note Importing a folder can work well if your media files do not include additional supporting files, DSLR footage will often work well. If you are using more advanced camera footage, you should import by selecting clips in the Media Browser, 2. Click the name of the Media
Browser to select it. 3. Use the navigator on the left to browse to Lessons/Assets/Video and Audio Files. 4. In the contents of the Desert folder are imported, placed in a bin that is automatically created and named after the folder. 5. In
the Project panel, double-click the new Desert bin to open it in its own panel, 6. Click the Freeform View button in the Project panel group to full screen, so there's more room to arrange the clips. Initially, your clips may appear as a single
column of thumbnails. 7. Right-click an empty space in the Project panel and choose Reset To Grid > Name to make more efficient use of the many options to rearrange the clip thumbnails and you have set the panel to full screen, there are still horizontal and
vertical scroll bars. Freeform view gives you a wide area to arrange your clips in. While bins provide a convenient way to organize your clips, either as lists of items or as thumbnails, Freeform view allows you to group clips within a bin. Not only that, you can give different clips different thumbnail sizes. Freeform view is an
open canvas for you to arrange clips into groups and experiment with possible combinations before adding them to a sequence. Here are the features of Freeform view: Thumbnails do not snap to a grid, although you can tidy up the view by right-clicking the background of the Project panel and choosing Align To Grid.
Choose Reset To Grid, followed by an option, to both tidy up the view and sort the clips. You can snap the edges of clips by holding Option (macOS) or Alt (Windows) as you drag a thumbnail. You can save multiple Freeform view clip layouts by right-clicking the background of the Project panel and choosing Save As
New Layout. Restore a layout by right-clicking the background of the Project panel and choosing Restore Layouts you no longer need. You can select one or more clips and assign a thumbnail size. To do this, right-click one or more selected clips and choose
Clip Size, followed by a particular size. The Zoom control (and pinch and zoom on a trackpad) will zoom the whole view. You can also hold Options to enable or disable two lines of metadata, label colors, and badges.
Freeform view is a powerful alternative to the traditional clip and bin organizational system. Take a little time now to explore the options and familiarize yourself with this view. Most of the workflows presented in this book will apply to any of the three views, and you are likely to alternate between them often. MODIFYING
CLIPS Premiere Pro uses metadata associated with clips to know how to play them back. This metadata is normally added correctly when the media is created (by the camera, for example), but occasionally it might be wrong. Sometimes, you'll need to tell Premiere Pro how to interpret clips. You can change the
interpretation of clips for one file or multiple files in a single step. All selected clips are affected by changes you make to interpretation. Choosing audio channels Premiere Pro has advanced audio management features. You can create complex sound mixes and selectively target output audio channels with original clip
audio. You can work with mono, stereo, 5.1, Ambisonics, and even 32-channel sequences and clips with precise control over the routing of audio channels. If you're just starting out, you'll probably want to produce sequences mastered in stereo using mono or stereo source clips. In this case, the default settings are most
likely what you need. When recording audio with a professional camera, it's common to have one microphone record onto another audio channels that would be used for regular stereo audio, but they now contain completely
separate sound. Your camera adds metadata to the audio channel? When an audio recording is created, it's always
captured and stored as one or more audio channels. Think of a channel as a single signal—something you could hear with one ear. Because we have two ears, we are able to hear in stereo—sensing where a sound comes from by comparing differences in the way the sound arrives at each ear. The process happens
automatically and precognitively (your conscious mind doesn't do any analysis to sense where a sound comes from). To capture stereo (the sound two ears can detect), you need two signals, so two channels are recorded using microphones. One signal (let's say the sound a microphone captures) becomes one channel
in an audio recording. For output, one channel will play through one speaker or headphone ear. The more channels you have for recording, the more sources you can capture independently (think of capturing an entire orchestra with many channels to be able to adjust the volume of each instrument separately in post-
production). To play audio with different volume levels on multiple speakers (for surround sound, for example), you need multiple playback channels. You'll learn more about working with audio in Lesson 10, "Editing and Mixing Audio." You can tell Premiere Pro how to interpret audio channels when new media files are
imported by choosing Premiere Pro > Preferences > Timeline > Default Audio Tracks (Mindows). The Use File option means Premiere Pro will use the audio channel settings applied to the clip when it was created. You can override that option for each
media type using the appropriate menu. If the setting was wrong when you imported your clips, it's easy to set a different way to interpret the audio channels in the Project panel. 1. Click the name of the Theft Unexpected bin to bring it to the front. If the bin is not open, double-click it to open it in the Project panel. 2.
Right-click the Reveal clip in the Theft Unexpected bin and choose Modify > Audio Channels. When the Preset menu is set to Use File, as it is here, Premiere Pro will use the file's metadata to set the channel format for the audio. In this case, Clip Channel Format is set to Stereo, and Number of Audio Clips is set to 1—
that's the number of audio clips that will be added to a sequence if you edit this clip into it. Now look at the channel matrix below those options. The Left and Right audio channels of the source clip (described as Media Source Channel) are both assigned to a single clip (described as Clip 1). When you add this clip to a
sequence, it will appear as one video clip and one audio clip, with both audio channels in the same audio clip. 3. Open the Preset menu, and choose Mono, so the Left and Right source channels are now linked to two separate clips. This means that when
you add the clip to a sequence, each audio channel will go on a separate track, as separate clips, allowing you to work on them independently. Tip Be sure to use the Preset menu and not the Clip Channel Format menu to correctly change this setting. 4. Click OK. A few tips on audio clip channel interpretation Here are
some things to keep in mind when working with audio clip channel interpretation: In the Modify Clip dialog box, every available audio channels won't need, you can deselect them, and those empty channels won't take up space in your sequence. You can override the
original file audio channel interpretation (mono, stereo, etc.). This will mean a different type of audio track may be needed when the clip is added to a sequence. The list of clips on the left (which may be as short as one clip) shows how many audio clips will be added to a sequence when edited in. Use the checkboxes to
choose which source audio channels are included when the clip is edited into a sequence. This means you can easily combine multiple source audio channels into a single sequence clip or separate them into different clips in any way that works for your project. Merging clips It's common for professional video to be
recorded on a camera with relatively low-quality audio, while highquality sound is recorded on a separate device. When working this way, you'll want to combine the highquality audio with the video by merging them in the Project panel. The most important factor when merging video and audio files in this way is
synchronization for the audio. You will either manually define a sync point—like a clapperboard mark—or allow Premiere Pro to sync vour clips automatically based on their original timecode information or by matching up their audio. If you choose to sync clips using audio. Premiere Pro will analyze both the in-camera
audio and the separately captured sound and match them up. The option to sync automatically using the audio in both clips makes it worthwhile attaching a microphone to your camera, even if you know you won't use the audio in post-production. The following steps are described for your information only—no need to
follow along. 1. If you don't have matching audio in the clips you are merging, you can manually add a marker to each clip you want to merge on a clear sync point like a clapperboard. The keyboard shortcut to add a marker is M. 2. Select the camera clip and the separate audio clip, right-click either item, and choose
Merge Clips. 3. Under Synchronize Point, choose your sync method, and click OK. There's an option to use audio timecode (sometimes useful for older archived tape-based media). There's also an option to automatically remove the unwanted audio included with the audio-video clip. You may want to keep that audio,
though, just in case there's an issue with the external microphone audio. A new clip is created that combines the video and the "good" audio in a single item. Interpreting video footage For Premiere Pro to play a clip correctly, it needs to know the frame rate for the video, the pixel aspect ratio (the shape of the pixels), and,
if your clip is interlaced, the order in which to display the fields. Premiere Pro can usually find out this information from the file's metadata, but you can change the interpretation easily. 1. Use the Media Browser panel to import RED Video, R3D from the Assets/Video and Audio Files/RED folder, Double-click the clip to
open it in the Source Monitor. It's full anamorphic widescreen, which is wider than regular 16×9 footage. This wider aspect ratio is achieved by using pixels that are not wider, 2. Right-click the clip in the Project panel and choose Modify > Interpret Footage. The option to modify audio channels is unavailable because this
clip has no audio. 3. Right now, the clip is set to use the pixel aspect ratio setting from the file: Anamorphic 2:1. This means the pixel aspect Ratio section, select Conform To, choose Square Pixels (1.0), and click OK. Take a look at the clip in the Source monitor. The clip
looks almost square! 5. Try another aspect ratio. Right-click the clip in the Project panel and choose Modify > Interpret Footage. Choose DVCPRO HD (1.5) from the adjacent menu. Then click OK, and take a look at the clip again in the Source monitor. From now on, Premiere Pro will interpret the clip as having pixels
that are 1.5 times wider than they are tall. This reshapes the picture to make it standard 16:9 widescreen. REVIEW QUESTIONS 1. How do you change the List view column headings displayed in the Project panel? 2. How can you quickly filter the display of clips in the Project panel to make finding a clip easier? 3. How
do you create a new bin? 4. If you change the name of a clip in the Project panel, does it change the name of the media file it links to on your hard drive? 5. What keyboard shortcuts can you use to play video and sound clips? 6. How can you change the way clip audio channels are interpreted? REVIEW ANSWERS 1.
Open the Project panel menu, and choose Metadata Display. Select the checkbox for any column heading you want to appear. You can also right-click a heading and choose Metadata Display to access the settings. 2. Click the Search field, and start typing the name of the clip you are looking for. Premiere Pro hides
clips that don't match what you typed and reveals those that do. 3. There are several ways to create a new bin: by clicking the New Bin, by right-clicking a blank area in the Project panel and choosing New Bin, or by pressing Command+B (macOS) or
Ctrl+B (Windows). You can also drag clips onto the New Bin button on the Project panel. 4. No. You can duplicate, rename, or delete clips in your original media files. 5. The spacebar starts and stops playback. J. K. and L can be used like a shuttle controller to play backward
and forward, and the arrow keys can be used to move one frame backward or one frame forward. If you are using a trackpad, you may be able to position your pointer over the Timeline panel and use gestures to scrub through the content. 6. In the Project panel, right-click the clip you want
to change and choose Modify > Audio Channels. Choose the correct option (usually by selecting a preset) and click OK. 5 Mastering the Essentials of Video Editing Lesson overview In this lesson, you'll learn how to do the following: Work with clips in the Source Monitor. Create sequences. Use essential editing
commands. View timecode. Understand tracks. This lesson will take about 75 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the
Getting Started section at the beginning of this book. This lesson will teach you the core editing skills you will use again and again in Adobe Premiere Pro. Editing is much more than choosing shots. You'll choose your cuts precisely, place clips in sequences at exactly the right point in time and on the tracks you want (to
create layered visual effects), add new clips to existing sequences, and remove unwanted content (that you can restore later if you want—this is nonlinear editing, you'll use a few simple techniques time and again. Most of the practice of
video editing is carefully reviewing and making partial selections of your clips and placing them in your sequence. There are several ways of doing this in Premiere Pro. Before you begin, make sure you're using the Editing workspace. 1. Open the Lesson 05.prproj project file from the Lessons folder. 2. Choose File >
Save As. 3. Rename the file Lesson 05 Working, prproj. 4. Choose a preferred location on your hard drive, and click Save to save the project. 5. In the Workspaces panel, click Editing; then click the panel menu next to the Editing option, and choose Reset To Saved Layout. You'll begin by learning more about the Source
Monitor and how to add In and Out points to your clips to get them ready to be added to a sequence. Then you'll learn about the Timeline panel, where you'll go when you want to check your assets before including
them in a sequence. When you open video clips in the Project panel to view them in the Source Monitor, you watch them in their frame rate, frame size, field order, audio sample rate, and audio bit depth exactly as they were recorded, unless you have changed the way the clip
is interpreted. For more on how to do this, see Lesson 4, "Organizing Media." Note Change clip interpretation by right-clicking the clip to a seguence, Premiere Pro conforms it to the seguence settings. For example, if the clip and
the sequence don't match, the clip frame rate and audio sample rate will be adjusted so that all the clips in the sequence play back the same way. As well as being a viewer for multiple types of media, the Source Monitor provides important additional functions. You can use two special kinds of markers, called In points
and Out points, to select part of a clip for inclusion in a sequence. You can also add comments in the form of markers that you can refer to later or use to remind yourself about important facts relating to a clip. You might include a note about part of a shot you don't have permission to use, for example. Loading a clip To
load a clip in the Source Monitor, try the following: 1. In the Project panel, presuming your preferences have default settings, double-click the Theft Unexpected bin while holding Command (macOS) or Ctrl (Windows). This opens the bin in the existing panel. In the same way that you would double-click a folder in the
Finder (macOS) or Windows Explorer (Windows), you have navigated into the bin. When you have finished working in a bin that you have pened in the current panel, you can navigate up now. Tip Notice that
active panels have a blue outline. It's important to know which panel is active because menus and keyboard shortcuts sometimes give different results depending on your current selection. 2. Double-click the RED Video.R3D video clip, or drag it into the Source Monitor. Tip When selecting clips, be sure to click the icon or
thumbnail, rather than the name, to avoid accidentally renaming it. Either way, the result is the same: Premiere Pro displays the clip in the Source Monitor, ready for you to watch it and add In and Out points. 3. Position your mouse pointer so that it is over the Source Monitor, and press the `(accent grave) key. The panel
fills the Premiere Pro application frame, giving you a larger view of your video clip. Press the `(accent grave) key again to restore the Source Monitor to its original size. If your keyboard does not have a `(accent grave) key, you can double-click the panel name to toggle the full-screen view. Viewing video on a second
monitor If you have a second monitor connected to your computer, Premiere Pro can use it to display full-screen video every time you click Play. Choose Premiere Pro > Preferences > Playback (Mindows), make sure Mercury Transmit is enabled, and select the checkbox for
the monitor you want to use for full-screen playback. You also have the option of playing video via third-party hardware, if it is installed. It's common to use third-party hardware user guide for installation and setup.
Using Source Monitor controls As well as playback controls, there are some important additional buttons in the Source Monitor. Add Marker: Adds a marker to the clip at the location of the playhead. Markers can provide a simple visual reference, can be various colors, and can store comments. Mark In: Sets the In point
at the current playhead location. The In point is the beginning of the part of the clip you intend to use in a sequence, so a new In point will automatically replace an existing one. Mark Out: Sets the Out point at the current playhead location. The Out point is the end of
the part of the clip you intend to use in a sequence. You can have only one Out point, so the new Out point, so the new Out point. Go To Out: Moves the playhead to the clip Out point. Insert: Adds the clip to the active sequence displayed in the
Timeline panel using the insert edit method (see "Using essential editing commands" later in this lesson). Export Frame: Allows you to create a still
image file from whatever is displayed in the monitor. See Lesson 16, "Exporting Frames, Clips, and Sequences," for more on this. Selecting a range in a clip You will usually want to include only a specific part of a clip in a sequence. Much of an editor's time is spent watching video clips and choosing not only which ones
to use but also which parts to use. Let's make some partial selections: 1. Double-click the clip Excuse Me (not Excuse Me Tilted) in the Source Monitor. It's a shot of John nervously asking whether he can sit down. 2. Play the clip to get an idea of the action. John walks on-screen
about halfway through the shot but takes a moment to speak. 3. Position the playhead around 01:54:06:00, just as John pauses briefly and does not start at 00:00:00:00. Tip If you want the timecode for all clips to be displayed as starting at
00:00:00:00, you can choose this option in the Media preferences, using the Timecode menu. 4. Click the Mark In button . You can also press the I key on your keyboard. Premiere Pro highlights the section of the clip that is selected. You have excluded the first part of the clip, but you can easily reclaim this part later if
you need to do so—that's the freedom of nonlinear editing! 5. Position the playhead just as John sits down. Around 01:54:14:00 is perfect. Using a numerical keypad, you can use it to enter timecode numbers directly. For example, if you type 700 when the Timeline
panel is active, Premiere Pro will position the playhead at 00:00:07:00. There's no need to enter the leading zeros or number separators. Be sure to use the numerical keypad, on the right on your keyboard, and not the numbers along the top of your keyboard (these have a different use). Even if you don't have a
dedicated numerical keyboard, if the Source Monitor is active, you can press the Tab key to highlight the timecode, ready to type in new numbers using the keys along the top of your keyboard. Note In and Out points added to clips are persistent. That is, they will still be present if you close and open the clip again. Tip If
you hover your pointer over a button, a tool tip appears displaying the name of the button followed by the keyboard shortcut key for that button in parentheses (if it has one). 6. Click the Mark Out button in parentheses (if it has one). 6. Click the Mark Out button in parentheses (if it has one).
want clips to loop between In and Out points when you play them. Note Some editors prefer to go through all the available clips, adding In and Out points as required, before building a sequence. Some editors prefer to add In and Out points only as they use each clip. Your preference may depend on the kind of project
you are working on. Now you'll add In and Out points for two more clips. Double-click the icon for each clip to open it in the Source Monitor. 7. For the HS Suit clip, add an In point just after John's line of dialogue, about a quarter of the way into the shot (01:27:00:16). 8. Add an Out point when John passes in front of the
camera, blocking our view (01:27:02:14). 9. For the Mid John clip, add an In point just as John begins to sit down (01:39:52:00). 10. Add an Out point after he has a sip of tea (01:40:04:00). Tip To help you find your way around your footage, Premiere Pro can display timecode on the Source Monitor and Program Monitor
time rulers. Toggle this option on and off by clicking the Settings menu and choosing Time Ruler Numbers. Editing from the Project until you change them, you can add clips to a sequence directly from the Project panel, as well as from the Source Monitor. If
you have already looked at all your clips and chosen the parts you want, this can be a quick way to create a rough version of a sequence. Remember, you can add In and Out points directly in the Project panel too. Premiere Pro applies the same editing controls when you're working from the Project panel as it does when
you're using the Source Monitor, so the experience is similar—and a few clicks guicker. Although it's faster to work this way, there's also value in having one last look at your clips in the Source Monitor before you add them to a sequence. Creating subclips If you are working with a long clip, you might want to use several
different parts in your sequence. It can be useful to separate the sections so they can be organized in the Project panel prior to building your sequence. This is exactly what subclips are partial copies of clips. They are commonly used when working with long clips, such as interview footage, where
there are several parts of the same original clip that might be used in a sequence. Subclips have a few notable characteristics. They can be organized in bins and renamed, just like regular clips, though they have a different icon in the Project panel. They have a limited duration based on the In and Out points used to
create them, which makes it easier to view their contents when compared with viewing potentially much longer original clips. They share the same media as the original media as the original media file is deleted, both the original clip and any subclips will go "offline"—with no media. They can be edited to
change their contents and even converted into a copy of the original full-length clip. Let's make a subclip. 1. Double-click the Cutaways clip in the Source Monitor, 2. While viewing the contents of the Theft Unexpected bin, click the New Bin button at the bottom of the panel to create
a new bin. The new bin will appear inside the existing Theft Unexpected bin. 3. Name the bin Subclips, and hold Command (macOS) or Ctrl (Windows) while double-clicking the new Subclips bin to have it open in the same frame, rather than in a new panel. 4. Choose a section of the clip to turn into a subclip by marking
the clip with an In point and an Out point. The moment roughly halfway through when the packet is removed and replaced might work well. As with many workflows in Premiere Pro, there are several ways to create subclips, and the outcome is always the same. Note If Restrict Trims To Subclip Boundaries is selected,
you won't be able to access the parts of your clip that are outside your selection when viewing the subclip. This might be exactly what you want to help you stay organized (and you can change this setting by right-clicking the subclip in the bin and choosing Edit Subclip). 5. Try one of the following: 1. Right-click in the
picture display of the Source Monitor and choose Make Subclip. 2. With the Source Monitor active, choose Clip > Make Subclip. 3. With the Source Monitor active, press Command+U (macOS) or Ctrl+U (Windows). 4. While holding Command (macOS) or Ctrl (Windows), drag the picture from the Source Monitor into the
Project panel bin. 6. Name the new subclip Packet Moved, and click OK. The new subclip is added to the Subclips bin, with the duration you specified with your In and Out points. NAVIGATING THE TIMELINE PANEL The Timeline panel is your creative canvas. In this panel, you'll add clips to your sequences, make
editorial changes to them, add visual and audio special effects, mix soundtracks, and add titles and graphics. Here are a few facts about the Timeline panel: You view and edit clips in
sequences in the Timeline panel. The Program Monitor shows the contents of the currently displayed sequence, at the position of the playhead. You can open multiple sequence and timeline panel. The terms sequence and timeline are often used interchangeably, as in "the
clip is in the sequence" or "the clip is on the Timeline." Sometimes timeline (lowercase) is used when speaking of a sequence of clips in the abstract, without reference to a specific user interface panel. If you add clips to a completely empty Timeline panel, you'll be invited to create a sequence. You can add any number
of video tracks. Preview playback is limited only by your system's hardware resources. Upper video tracks play "in front" of lower ones, so you would normally place foreground graphic clips on tracks above background video clips. You can add any number of audio tracks, and they all play at the same time to create an
audio mix. Audio tracks can be mono (1 channels), 5.1 (6 channels), or adaptive—with up to 32 channels, you can change the height of tracks in the Timeline panel to gain access to additional controls and thumbnails on your video clips. Each track has a set of controls, shown on a track header on the
far left, to change the way it functions. Time moves from left to right in the Timeline panel, so when you play a sequence, the playhead will move in that direction. You can zoom in and out of the sequence using the = (equals) and - (minus) keys (at the top of your keyboard). Use the \ (backslash) key, if your keyboard has
one, to toggle the zoom level between your current setting and to show your whole sequence. You can also double-click the navigator at the bottom of the Timeline panel to view the whole sequence. If your keyboard doesn't have dedicated = (equals) and – (minus) keys, it's straightforward to create new keyboard
strangely, check to make sure these modes are set as shown here. Selecting a tool Premiere Pro makes use of tools that change the way the cursor works. In this way, it's similar to Adobe Photoshop. For most operations on the Timeline panel and some operations in the Program Monitor, you will use the standard
Selection tool, which you will find at the top of the Tools panel. Make a tool active by clicking its icon in the Tools panel. There are several other tools that serve different purposes, and each tool has a keyboard shortcut. If in doubt, press the V key—this is the keyboard shortcut for the Selection tool. What is a sequence?
A sequence is a series of clips that play one after another—sometimes with multiple blended layers and often with special effects, titles, and audio—making a complete film. Tip As with clips, you can edit sequences into other sequences, in a process called nesting. This creates a dynamically connected set of sequences
for advanced editing workflows. You can have as many sequences as you like in a project. Sequences are stored in the Project panel, just like clips, and have their own icon. Let's make a new sequence for the Theft Unexpected drama. 1. In the Theft Unexpected bin, drag the clip Excuse Me (not Excuse Me Tilted) onto
the New Item button at the bottom of the panel. You may need to resize the Project panel to see the button. Note If you are still browsing inside the Subclips bin you created, you will need to click the Navigate Up button to see the Theft Unexpected bin. This is a shortcut to make a sequence that perfectly matches your
media. Note If you already have a sequence open when you create a new sequence, with the same name as the clip you used to create it. 2. The sequence is highlighted in the bin, and it would be a good idea to
rename it right away. Right-click the sequence in the bin and choose Rename. Name the sequence Theft Unexpected. Notice that the icon used for clips. Tip You can use the Timeline panel Settings menu to choose Minimize All Tracks or
Expand All Tracks to change the height of all tracks in a single step. The sequence is automatically open, and it contains the clip you used to create it. This works for our purposes, but if you had used a random clip to perform this shortcut (just to make sure you had the right sequence settings), you could select it in the
sequence and delete it by pressing Delete (macOS) or Backspace (Windows). You can zoom into the sequence, with its single clip, using the navigator at the bottom of the Timeline panel. To see a thumbnail on the clip, increase the height of the V1 track by dragging the dividing line between the V1 and V2 tracks in the
track header area (where the track controls are located). Opening a sequence in the Timeline panel To open a sequence in the Timeline panel, do one of the following: Double-click the icon for the sequence in a bin. Right-click the sequence in a bin and choose Open In Timeline. Open the Theft Unexpected sequence
you just created. Tip You can also drag a sequence into the Source Monitor to use it as if it were a clip. Be careful not to drag a sequence or create a new sequence from it instead. Conforming Sequences have a frame rate, a frame size,
and an audio mastering format (mono or stereo, for example). They conform, or adjust, any clips you add to match these settings. You can choose whether clips should be scaled to match your sequence frame size. For example, for a sequence with a frame size of 1920x1080 (regular high-definition) and a video clip that
is 3840x2160 (ultra-high-definition), you might decide to automatically scale the high-resolution clip down to match your sequence. When clips are scaled, the vertical and horizontal sizes are scaled equally to keep
the original aspect ratio. If a clip has a different aspect ratio from your sequence, it may not completely fill the frame of your sequence, you'll see gaps at the sides. Using the Motion controls in the Effect Controls
panel (see Lesson 9, "Putting Clips in Motion"), you can adjust which part of the picture you see or even create a dynamic panand-scan effect inside the picture. Understanding tracks keep trains in line, sequences have video and audio tracks that constrain the positions of clips you add to them.
The simplest form of sequence would have just one video tracks, one after another, from left to right, and they play in the order you place them. Sequences can have additional video and audio tracks. They become layers of video and additional audio channels.
Because higher video tracks appear in front of lower ones, you can combine clips on different tracks to add titles to a sequence or to blend multiple layers of video using visual effects to create a complex composition. You might use
multiple audio tracks to create a complete audio composition for your sequence, with original source dialogue, music, spot audio effects such as gunshots or fireworks, atmospheric sound, and voice-over. You can scroll through clips and sequences in multiple ways, depending on the location of your pointer. If you hover
your pointer over the Source Monitor or Program Monitor, you can navigate earlier or later using the scroll wheel; trackpad gestures work too. You can navigate sequences in the Timeline panel this way if you choose Horizontal Timeline Mouse Scrolling in the Timeline preferences. If you hold Option (macOS) or Alt
(Windows) while scrolling with your pointer, the Timeline view will zoom in or out. Tip If you're scrolling to change track height while holding Shift, you can also hold Command (macOS) or Ctrl (Windows) for finer control. If you hover your pointer over a track header and
scroll while holding Option (macOS) or Alt (Windows), you'll increase or decrease the height of the track. If you double-click on a blank space in a track header, you'll increase or decrease the height of the track. If you hover your pointer over a video or audio track header and scroll while holding the Shift key, you'll increase or
decrease the height of all tracks of that type (Video or Audio tracks). Targeting tracks The portion of each Timeline track header to the far left end of the track headers are the source track indicators. These represent the tracks available
in the clip currently displayed in the Source Monitor or selected in the Project panel. They are numbered just like the Timeline tracks. This helps keep things clear when performing more advanced edits. When you use a keyboard shortcut or the buttons on the Source Monitor to add a clip to a sequence, source track
indicators are important. The position of a source track indicator relative to a Timeline track to which the new clip will be added. A source track indicator also needs to be selected, in blue, for the contents of that track to be added to the sequence. In the example to the left, the position of the source
track indicators means a clip with one video track and one audio track would be added to the Video 1 (V1) and Audio 1 (A1) tracks in the Timeline panel when using buttons or a keyboard shortcut to add a clip to the current sequence. Note Remember, Timeline track selection buttons matter when rendering effects or
making timeline selections, but they don't affect editing clips into a sequence; only the source track indicators do. In the following example, the source track indicators do the Video 2
(V2) and Audio 2 (A2) tracks on the Timeline when using buttons or a keyboard shortcut to add a clip to the current sequence. Click a source track indicator to enable it. A blue highlight indicates a track is enabled. You can make advanced edits by dragging the source track indicators up or down to different
Timeline tracks and selecting which source tracks you have on or off. When performing edits in this way, enabling or disabling timeline tracks won't affect results. Though the source track indicators,
while on the right, it's the sequence track selection. If you drag a clip into a sequence, the position of the source tracks is added. Using In and Out points in the Timeline panel The In and Out points used in the Source Monitor define the part of a clip you
will add to a sequence. The In and Out points you use in a sequence have two primary purposes. To tell Premiere Pro where, in time, a new clip should be positioned when it is added to a sequence. To select parts of
clips, from specific tracks by using In and Out points in combination with the track selection buttons. Selected parts of a sequence, defined by In and Out points, are highlighted in the Timeline panel. The highlighted in the Timeline panel. The highlighted in the Timeline panel.
except V2, so there's a gap in the highlight where In and Out points define a selection. Notice the Source track V1 selection does not impact track selection. Setting In and Out points in the Timeline panel is almost the same as adding them in the Source Monitor. One key difference is that unlike
the controls in the Source Monitor, the selection buttons on the Program Monitor also apply to the currently displayed sequence. To add an In point to a sequence at the current position of the playhead, make sure the Timeline panel or Program Monitor is active and then press the I key or click the Mark In button on the
Program Monitor. To add an Out point to a sequence at the current position of the playhead, make sure the Timeline panel or Program Monitor. Clearing In and Out points If you open a clip that already has In and Out points, you can
change them by adding new ones; your new In and Out points will replace the existing ones. You can also simply remove existing In and Out points on the Timeline, in the Program Monitor, and in the Source Monitor. 1. In the Timeline panel,
select the Excuse Me clip by clicking it once. 2. Press the X key. This adds an In point to the Timeline at the end of the clip (on the left) and an Out point at the end of the Timeline panel, and
take a look at the menu commands. Choose the command you need from this menu, or use one of the following keyboard shortcuts: 1. Option+O (macOS) or Ctrl+Shift+O (Windows): Removes the Out Point (choose Clear Out) 3.
Option+X (macOS) or Ctrl+Shift+X (Windows): Removes both the In Point and Out Point (choose Clear In And Out points. Try it now to remove the In and Out points you just added. Using time rulers The time rulers at the
bottom of the Source Monitor and Program Monitor, and at the top of the Timeline panel, all serve the same purpose: They allow you to navigate through your clips or sequences in time. Time goes from left to right in Premiere Pro, and the location of the playhead gives you a visual reference in relation to your clips. Drag
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left and right in the Timeline panel time ruler now. The playhead moves to follow your pointer. As you drag across the Excuse Me clip, you see the contents of the clip in the Program Monitor, Program Monitor, and Timeline all
have navigation bars at the bottom of the panel. Zoom the time ruler by hovering over the navigation bar and using your mouse wheel to scroll (trackpad gestures work too). Once you have zoomed in, move through the time ruler by dragging the navigator. Adjust the zoom level of the time ruler by dragging the ends of the
navigator. Double-click the navigator to fully zoom out. Using the Timecode panel There is a dedicated Timecode panel that, like other panels, can float in its own window or be added to a panel group. To open it, choose Window > Timecode, The Timecode panel offers multiple lines of timecode information. Each line
can be configured to show a particular type of time information. The default configuration shows the Master timecode, the total duration, and the duration set by In and Out points for the active panel—Source Monitor, or Timeline panel. The Master timecode matches the timecode displayed at the bottom
left of the Source Monitor and Program Monitor and At the top left of the Timeline panel. You can add or remove lines of timecode panel and choosing Add Line or Remove Line. Tip If a panel is active/selected, you can press
Command+W (macOS) or Ctrl+W (Windows) to close it. To configure the type of information displayed in a line, right-click the line and choose Save Preset to store a configuration you would like to use again. The preset you create will appear in the menu when
you rightclick the Timecode panel. You can also right-click and choose Manage Presets to assign a keyboard shortcut to presets or delete presets or delete presets or delete presets. There's a compact mode for the Timecode panel that shows the same information in a smaller panel. Rightclick the panel to choose between Compact and Full Size. The
Timecode panel has no active controls—that is, you won't use it to add In or Out points or make edits —but it provides useful additional information and selected duration, for example, can help you gauge your total available media for multiple edits.
Close the Timecode panel now. Customizing track headers Just as you can customize the Source Monitor and Program Monitor controls, you can change several options on the Timeline track headers. 1. To access the options, right-click a video or audio track header and choose Customize, or click the Timeline Display
Settings menu and choose Customize Video Header or Customize Video Header from the menu. 2. Hover your pointer over buttons in the Button Editor to see the tool tip. Some of these will be familiar to you already; others will be explained in later lessons. 3. Add a button to a track header by dragging it from the Button
Editor onto a track header. You can remove a button from a track header by dragging it away while the Button on the Button Editor to
return the track header to the default options. 5. Click Cancel to leave the Button Editor. USING ESSENTIAL EDITING COMMANDS No matter how you add a clip to a sequence—by dragging, clicking a button on the Source Monitor, or using a keyboard shortcut—you'll choose one of two kinds of edits: an insert edit or
an overwrite edit. When a sequence has existing clips at the location where you want to add a new clip, these two choices—insert and overwrite—will produce markedly different results. Performing one or other of these two types of edit is the absolute heart of nonlinear editing. Of all the skills you will learn in this book.
this is the one you will perform most often. Fundamentally, this is nonlinear editing, so take a little extra time to be sure you are comfortable with this workflow before you continue. Performing an overwrite edit Continue working on the Theft Unexpected sequence. So far, you have just one clip, in which John asks if a seat
is free. First, let's use an overwrite edit to add a reaction shot to John's request for a chair, 1. Open the Source Monitor, You added In and Out points to this clip earlier. Tip Professional editors often use the terms shot and clip interchangeably. You'll next need to set up the Timeline panel carefully.
This may seem like a slow process at first, but after practice, you'll find editing is fast and easy. 2. Position the Timeline playhead (rather than the Source Monitor playhead) just after John makes his request. Around 00:00:04:00 is perfect. Tip You can copy and paste timecode into the current time indicator at the bottom
left of the Source Monitor or Program Monitor. Click to select the timecode, paste the new timecode, and press Return or Enter to move the playhead to that time. This is a useful feature when working with camera logs that allow you to quickly locate a particular part of a clip. Unless an In or Out point has been added to
the Timeline, the playhead is used to position new clips when editing with the keyboard or on-screen buttons (it becomes the In point). When you drag a clip into a sequence, the location of the playhead and existing In or Out points are ignored. 3. Though the new clip has an audio track, you don't need it. You'll keep the
audio that is already in the timeline. Click the source track selection indicator A1 to turn it off. The button should be gray rather than blue. 4. Check that your track headers look like the example at shown. You may need to click track targeting buttons to enable them. Only the Source A1 and V1 track indicators matter for
this edit because the other tracks in the sequence don't have any clips on them. 5. Click the Overwrite button Monitor. in the Source The clip is added to the sequence, rather than using an on-screen button or keyboard shortcut, you'll perform an
overwrite edit. You can perform an insert edit by holding down Command (macOS) or Ctrl (Windows) while you drag. 6. Position the Play button on the Program Monitor, or press the spacebar, to play the result of your edit.
The timing might not be perfect, but you're now editing dialogue! Performing an insert edit Now try an insert edit. 1. In the Timeline panel, position the playhead over the Excuse Me clip, just after John says "Excuse me" (around 00:00:02:16). Make sure there is no In or Out point in the sequence. 2. From the Project
panel, open the clip Mid Suit in the Source Monitor, add an In point at 01:15:46:00, and add an Out point at 01:15:48:00. This is actually from a different part of the action, but the audience won't know, and it works well as a reaction shot. 3. Adjust your Timeline panel track selection indicators as necessary to match the
following example. 4. Click the Insert button on the Source Monitor. The clip Excuse Me, already in the sequence, has been split, with the part after to make space for the new clip. Note Editors often use the words sequence and edit interchangeably. In this case, the word edit means any change
made to one or more clips in a sequence. Note When you apply an insert edit, it makes your sequence longer. The clips already on the selected track, located to the right of the new clip, will move later (to the right) in the sequence to make room for the new clip. Congratulations! You have completed an insert edit. 5.
Position the playhead at the beginning of the sequence and play through your edit again. If your keyboard has a Home key, you can use it to jump to the beginning; you can drag the playhead with your pointer to move forward or back, or you can press the Up Arrow key to jump the playhead to earlier edits (the Down
Arrow key jumps to later edits). Tip As your seguence gets longer, you may find yourself often zooming in and out to get a better view of your clips. 6. Now open the Mid John (not the Source Monitor. You added In and Out points to this clip earlier. 7. Position the Timeline playhead at the end of the
seguence—on the end of the Excuse Me clip. When dragging the playhead, you can hold the Shift key to have the playhead snap to the ends of clips. Tip If your Mac has no Home key, try pressing Fn+Left Arrow, 8. Click either the Insert or Overwrite button in the Source Monitor. Because the Timeline playhead is at the
end of the sequence, there are no clips in the way, and it makes no difference which kind of edit you perform. Now you'll insert one more clip. 9. Position the Timeline playhead just before John takes a sip of tea, around 00:00:14:00 in the sequence. 10. Open the clip Mid Suit in the Source Monitor, and use In and Out
points to choose a part you think would go well between John sitting down and his first sip of tea. An In point around 01:15:55:00 and an Out points you previously added to this clip are replaced. 11. Edit the clip into the sequence using an insert edit.
Note You can also edit clips into a sequence by dragging them from the Project panel or Source Monitor into the Project
the timing later —that's the beauty of nonlinear editing. The important thing, to begin with, is to get the order of the clips right. Even from this short exercise it's clear that clip names are important. It can save hours of post-production having well-organized and clearly named clips. These clip names are unusual because
they incorporate new regular names to help identify the contents and the original media numbers. There are no fixed rules about naming and organizing clips. Performing three-point editing To add a clip or part of a clip to a seguence. Premiere Pro needs to know its duration and when and where it should be placed in the
sequence. This means there should be two In points and two Out points. An In point for the clip An Out point for the sequence setting the beginning of the clip once it has been added In fact, you need to specify only
three of these points: Premiere Pro calculates the fourth automatically based on the selected duration. Here's an example: If you choose four seconds of time in your sequence. Once you have set the location for the clip to be
placed, you're ready to perform the edit. Using just three points to perform edits in this way is called three-point editing. When you performed your last edit, Premiere Pro aligned the In point from the clip (the start of the clip) with the In point in the sequence (the playhead is used as the In point if no In point has been
added). Even though you didn't manually add an In point to the sequence, you're still performing a three-point edit, with the duration calculated from the sequence instead of an In point, In this case, Premiere Pro will align the
Out point of the clip in the Source Monitor with the Out point in the sequence (in the sequence) when vou perform the edit. You might choose to do this, for example, if you have a piece of timed action, like a door closing at the end of a clip in the sequence, and your new clip needs to line up in time with it. What happens
if you use four points? You can use four points to make an edit: both In and Out points in the Source Monitor and In and Out points on the Timeline. If they're different, Premiere Pro will invite you to choose what you want to
happen. You can selectively ignore one of your In or Out points or stretch or compress the playback speed of the new clip to fit the selected duration on the Timeline. PERFORMING STORYBOARD-STYLE EDITING The term storyboard usually describes a series of drawings that show the intended camera angles and
action for a film. Storyboards are often quite similar to comic strips, though they usually include additional technical information, such as intended camera moves, lines of dialogue, and sound effects. You can use clip thumbnails in a bin as storyboard images. Drag the thumbnails to arrange them in the order you want the
clips to appear in your sequence, from left to right and from top to bottom, select them, and then drag them all into your sequence, so if you lasso to select the clips, start your selection in the top-left corner. Using a storyboard to build an
assembly edit An assembly edit is a sequence in which the order of the clips is correct but the timing of the edits has yet to be worked out. It's common to build sequences as an assembly edit first, just to make sure the structure works, and then adjust the timing later. You can use storyboard editing to quickly get your
clips in the right order. 1. Save your current project. 2. Open Lesson 05 Desert Sequence.prproj in the Lessons folder. Note You can switch between them by choosing Window > Projects, and you can close all project by choosing File > Close All Projects. 3. Choose
File > Save As. Save the project as Lesson 05 Desert Sequence Working project, but avoid making the name so long it's hard to manage the file. This project has a Desert Montage sequence that already has
music but no visuals. You'll add some shots. The audio track A1 has been locked (click the track padlock icon to lock and unlock a track). This means you can make adjustments to the sequence without risking making changes to the music track. Arranging your storyboard It's not necessary to pre-arrange clips in the
Project panel prior to adding them to a sequence. However, it's a helpful step to quickly give you a sense of the sequence structure. 1. Double-click the Freeform View button at the lower-left corner of the bin to see thumbnails
for the clips. You can set the Project panel to Icon view to arrange clips as a storyboard but Freeform view gives you more... freedom! It's a more flexible way to display clip thumbnails. 3. Double-click the Desert Footage bin name to toggle it to full screen. Then, right-click on the background of the bin and choose Reset
To Grid > Name. This neatly arranges the clips, sorted by name. 4. Drag the thumbnails in the bin to position them in the sequence, from left to right and from top to bottom—just like a comic strip or storyboard. In Freeform view, thumbnails can overlap and be arranged
loosely. However, the order in which clips are selected is the order they will be added to a sequence in the next step, so try to arrange clips broadly so they are left to right, top to bottom. 5. Make sure the Desert Footage bin is selected (with a blue outline), but click the background of the bin to deselect any clips. Now
press Command+A (macOS) or Ctrl+A (Windows) to select all the clips based on their position in the bin. 6. Double-click the Desert Footage bin name to toggle it back to its original position. Drag the clips into the sequence, positioning them on the Video 1 track right at the beginning of the Timeline, above the music clip.
Tip You may need to scroll to see the clips after toggling the bin panel back to its original size. The clips are added to the sequence in the Project panel. 7. Play your sequence to see the result Although you chose an order for the clips to play in the bin, remember that you are free
to change the order, or the timing, of the clips in the seguence at any time. Now that you have two projects open at the project information at the top of the Premiere Pro interface. If you see an asterisk (*) after the project name,
changes have been made to the project since it was last saved. 8. Close each project by choosing File > Close Project twice or by choosing File > Close Project twice or by choosing File > Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project by choosing File > Close Project twice or by choosing File > Close Project twice or by choosing File > Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved. 8. Close each project since it was last saved each project since it was last saved each project sa
automatically when you added them to the sequence. Graphics and photos can have any duration in a sequence. However, they have default In and Out points applied as you import them. Choose Premiere Pro > Preferences > Timeline (macOS) or Edit > Preferences > Timeline (Windows) to change the duration in the
Still Image Default Duration box. The change you make applies to clips when you import them, so it won't change sequences (a series of images intended to play one after another, as animation) have no timebase—that is, the number of frames that
should play each second. You can set the default timebase for still images by choosing Premiere Pro > Preferences > Media (Mindows) and setting an option for Indeterminate Media Timebase. REVIEW QUESTIONS 1. What do In and Out points do? 2. Is the Video 2 track in front
of the Video 1 track or behind it? 3. How do subclips help you stay organized? 4. How would you select a sequence time range to work with in the Timeline panel? 5. What is the difference between an overwrite edit and an insert edit? 6. How much of your source clip will be added to a sequence if the source clip has no In
or Out points and there are no In or Out points in the sequence? REVIEW ANSWERS 1. In the Source Monitor and in the Project panel, In and Out points are used to define parts of your sequence you want to remove, edit,
render, or export as a file. 2. Upper video tracks are always in front of lower ones. 3. Though subclips make little difference to the way Premiere Pro plays back video and sound, they make it easier for you to divide your footage into different bins. For larger projects with lots of longer clips, it can make a big difference to
be able to divide content this way, 4. You'll use In and Out points to define parts of your sequence as a file. 5. Clips added to a sequence using an overwrite edit replace any content already in the sequence
where they are placed. Clips added to a sequence using an insert edit displace existing clips, pushing them later (to the right) and making the sequence clip, the entire clip will be added the sequence. Setting an In point, an Out point, or both will limit the portion of
the source clip used in the edit. 6 Working With Clips and Markers Lesson overview In this lesson, you'll learn how to do the following: Understand the differences between the Program Monitor and the Source Monitor Play 360° video for virtual reality (VR) headsets. Use markers. Apply sync locks and track locks. Select
items in a sequence. Move clips in a sequence. Remove clips from a sequence. This lesson will take about 90 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson
files and Web Edition" in the Getting Started section at the beginning of this book. Adobe Premiere Pro makes it easy to fine-tune you're editing clips in your video sequence. STARTING THE LESSON The art and craft of video editing is
perhaps best demonstrated during the fine-tuning phase after the first version of your sequence is completed. Once you've chosen your shots and put them in approximately the right order, the process of carefully adjusting the timing of your edits begins. You'll move clips around in your edit and remove the parts you
don't want. You can also add markers with comments to store information about clips and sequences, which can be useful during your edit or when you send your sequence to other Adobe Creative Cloud applications. In this lesson, you'll learn about additional controls in the Program Monitor and discover how markers
help you stay organized. You'll also learn about working with clips that are already on the Timeline—the "nonlinear" part of nonlinear editing workspace. 1. Open the file Lesson 06.prproj from the Lessons folder. 2. Choose File > Save As. 3.
Rename the file Lesson 06 Working, prproj. 4. Choose a location on your hard drive, and click Save to save the project. 5. Reset the workspaces panel, click Editing, open the menu next to the Editing option, and choose Reset To Saved Layout. Typing timecode You can click a
timecode display, type the timecode you want the playhead to move to 00:00:27:15, you can type 2715. There's no need to enter leading zeros. When typing timecode, you can use a period (full stop) as a replacement for
two zeros or to skip to the next number type. For example, if you want the playhead to move to 01:29:00:15, you can type 1.29..15. You can also type incremental amounts. For example, typing +200 will move the playhead 2 seconds later (because the punctuation will be added automatically, making this 00:00:02:00).
USING THE PROGRAM MONITOR CONTROLS The Program Monitor is almost identical to the Source Monitor. but there are a small number of important differences. What is the Program Monitor? The Program Monitor displays the frame your sequence playhead is sitting on, or playing. The sequence in the Timeline
panel shows the clip segments and tracks, while the Program Monitor shows the resulting video output. The Program Monitor time ruler is a smaller version of the one in the Timeline panel, and the two are linked. In the early stages of editing, you're likely to spend a lot of time working with the Source Monitor. Once your
sequence is roughly edited together, you will spend most of your time using the Program Monitor and the Timeline panel. Adding clips to a sequence with the Program Monitor You've already learned how to make a partial clip selection with the Source Monitor and then add the clip to a sequence by pressing a key,
clicking a button, or dragging. You can also drag a clip from the Source Monitor or Project panel into the Program Monitor, each highlighting a drop zone that gives different options for the edit you're about to perform.
Comparing the Program Monitor and the Source Monitor Advisor and the Source Monitor shows the contents of whichever sequence is currently displayed in the Timeline panel. In particular,
it shows whatever is under the playhead in the Timeline panel. The Source Monitor has Insert and Overwrite buttons for adding clips (or parts of clips) to sequences. By contrast, the Program Monitor has Extract and Lift buttons for removing clips (or parts of clips) from sequences (more on Extract and Lift edits is coming
up). Both monitors have a time ruler. The playhead on the Program Monitor matches the playhead in the sequence you're currently viewing in the Timeline panel (the name of the current sequence is displayed at the top left of the Program Monitor). As one playhead moves, the other moves as well, so you can use either
panel to change the currently displayed frame. When you work with special effects in Premiere Pro, you'll see the results in the Program Monitor. There's one exception to this rule: Master clip effects are viewed in both the Source Monitor and the Program Monitor (for more information about effects, see Lesson 12,
"Adding Video Effects"). The Mark In and Mark Out buttons in the Program Monitor work in the same way as the ones in the Source Monitor. In and Out marks are added to the currently displayed sequence when you add them in the Program Monitor, and those marks are persistent in sequences in the same way that
they are persistent in clips. Take a look at the options now (vou'll put them to work in this section's second exercise): 1. In the Sequences bin, open the Theft Unexpected bin, drag the clip HS Suit over the viewing area of the Program Monitor but don't release it yet (remember to
always drag using the icon rather than the clip name). Take note of the overlays that appear in the Program Monitor. 3. Move the pointer over each overlay to indicate the type of edit you will apply if you release the clip (don't, though), 4. Continue to drag the clip into the
Source Monitor and release it. Most of the time you will double-click to open clips in the Source Monitor, but intuitive steps like dragging work too. If you didn't take the time to hover over each overlay in step 3, here's the list of overlay options: Insert: This performs an insert edit, using the source track indicators to choose
the track (or tracks) the clip will be added to. Overwrite: This performs an overwrite edit, using the source track indicators to select the track (or tracks) the clip will be added to. Overlay: If there is already a clip under the Timeline playhead in the current sequence, this adds the new clip to the next available track above it.
If there's already a clip on the next track, the one above that is used, and so on. Replace edits in Lesson 8, "Mastering Advanced Editing Techniques"). Replace edits cannot be used to replace graphics and titles created in
the Timeline panel but will work when replacing imported photos and graphics. Insert After: This inserts the new clip immediately before the clip currently under the Timeline playhead. The Program Monitor overlays
give maximum flexibility when editing by touch, with a computer screen that allows touch interaction. You can use the mouse or trackpad to drag clips by touch, with a computer screen that allows touch interaction. You can use the mouse or trackpad to drag clips by touch, with a computer screen that allows touch interaction. You can use the mouse or trackpad to drag clips by touch, with a computer screen that allows touch interaction. You can use the mouse or trackpad to drag clips by touch.
components of the clip (video and audio channels) are used. Now that you are familiar with the options, let's add that HS Suit clip to the sequence. Tip When the Project panel is set to List view, you can use the Left Arrow and Right Arrow keys to expand and
collapse bins that are selected in the Project panel or to navigate up and down a list of items. 1. Position the Timeline playhead at the end of the sequence, just after the last frame of the clip Mid John. You can hold the Shift key to snap the playhead to edits, or you can press the Up Arrow and Down Arrow keys to
navigate between edits. Tip You can press the End key to move the playhead to the sequence, and pressing the Home key moves the playhead to the sequence, and pressing the Home key moves the playhead to the sequence, and pressing the Home key moves the playhead to the sequence. If your macOS keyboard lacks these keys, you can use Fn+Right Arrow in place of the End key and Fn+Left Arrow in place of Home. 2.
If it's not already open, open the clip HS Suit from the Theft Unexpected bin in the Source Monitor. This is a clip that has already been used in the sequence, but you'll choose a different part. 3. Set an In point for the clip around 01:26:49:00. There's not much going on in the shot, so it works well as a cutaway. Add an
Out point around 01:26:52:00 so you have a little time with the man in the suit. 4. Click in the middle of the picture in the Source Monitor, but don't release it yet. For this edit, there is no clip under the playhead in the Timeline panel. Choose Insert—just because it's the largest
drop zone and easier to aim for. 5. Release the clip. The clip is edited into the sequence at the playhead position, and your edit is complete. Insert edit into the middle of the current sequence using the same technique. 1. Position the Timeline playhead on the edit at
00:00:16:01, between the Mid Suit and Mid John shots. The continuity of movement isn't perfect on this cut, so let's add another part of that HS Suit clip in the Source Monitor. Choose any part you like, selecting about two seconds in total. You can see the selected
duration at the lower-right corner of the Source Monitor, 3. Once again, drag the clip from the Source Monitor viewing area, When you release the mouse button, the clip is inserted into your seguence. Drag only video or audio into a seguence If you prefer to drag clips into the
Timeline panel, there's a way to bring in just the video or audio part of a clip. Note Remember, only the source track selection indicators matter when editing clips into a sequence, not the Timeline track selection controls next to them. Let's try a combination of techniques. You'll set up your Timeline track headers and
then drag into the Program Monitor. 1. Position the Timeline playhead at 00:00:25:20, just before John takes out his pen. 2. Open the Mid Suit clip in the Source Monitor. At about 01:15:56:00. You just need a quick alternative angle
for now, 4. On the Timeline track headers, drag the Source V1 track selection button next to the Timeline Video 2 track. For the technique you're about to use, the track targeting is used to set the location of the clip you are adding. At the bottom of the Source Monitor, you'll see the Drag Video Only and Drag Audio Only
icons. These icons serve three purposes. 1. They tell you whether your clip has video, audio, or both. If there is no audio, the waveform is dimmed. 2. You can click one or the other icon to switch between viewing the clip audio waveform or video. 3. You can
drag them to selectively edit video or audio into your sequence. 5. Drag the filmstrip icon from the bottom of the Source Monitor, and release it on the Overwrite option. When you release, just the video part of the clip is added to the Video 2 track in the sequence. This works even if both the
Source Video and Source Audio selection buttons in the Timeline panel are enabled, so it's a guick, intuitive way to select the part of a clip you want. You could achieve the same effect by selectively disabling Source track selection buttons, but it would require more clicks. 6. Play your sequence from the beginning. The
timing may not be perfect, but the edit is off to a good start. The clip you just added plays in front of the end of the HS Suit clip, changing the timing. Because Premiere Pro is a nonlinear editing system, you can adjust the timing later. You'll learn how to do this in Lesson 8, "Mastering
Advanced Editing Techniques." Why are there so many ways to edit clips into a sequence? As you continue to develop your editing skills and build experience, you'll find that some ways of adding clips to sequences work better than others depending on the particular situation. Perhaps you need to be absolutely sure
you've got the timing right, so you carefully select options in the Source Monitor and Timeline panel. Perhaps you are in a hurry to throw something together, so you drag clips from the Project panel into the Timeline panel and worry about timing later. In addition, you'll find you naturally tend toward one editing style or
another. To ensure editors can work flexibly according to their own styles, Premiere Pro includes multiple workflows for the same outcome. SETTING THE PLAYBACK RESOLUTION The Mercury Playback Engine enables Premiere Pro to play multiple media types, special effects, and more in real time—without pre-
rendering. Mercury uses the power of your computer hardware to boost performance. This means the speed (and number of cores and type) of your CPU, the amount of RAM you have, the power of your GPU, and the speed of your storage drives are all factors that impact playback performance. If your system has
difficulty playing back every frame of video in your sequence (in the Program Monitor) or in your clips (in the Source Monitor), you can lower the playback resolution to make playback resolution to make playback smoother. If you see your video playback stuttering, stopping, and starting, it usually indicates that your system is unable to play the file
because of a hardware limitation. It's worth remembering that playing high-resolution video files is hard! A single frame of uncompressed full HD video is roughly equivalent to more than 8 million letters of text. And, of course, there are usually at least 24 frames per second, adding up to 192 million letters of text a second
for HD video playback. UHD video (often described as 4K video) is four times that! Reducing the playback resolution means you won't see every pixel in your pictures, but it can dramatically improve performance, making creative work much easier. It's common for video to have a higher resolution than can be displayed
because your Source Monitor and Program Monitor are often smaller than the original media size. For this reason, you may not always see a difference in the display when you lower the playback resolution. Changing playback resolution Let's try adjusting playback resolution. 1. Open the clip Snow 3 from the Boston
Snow bin in the Source Monitor. At the bottom right of the Source Monitor and Program Monitor, vou'll see the Select Playback is set to half-resolution. If it isn't, choose that option now, In fact, it's half horizontal resolution, and half vertical resolution, so it's really quarter-resolution.
2. Play the clip to get a sense of the quality when it's set to half-resolution. 3. Change the resolution to Full and play it again to compare. It probably looks similar. 4. Try reducing the resolution to 1/8 and play the clip—a dramatic difference! Notice that the picture is sharp when you pause playback. This is because the
pause resolution is an independent setting from the playback resolution (see the next section). Note The choices on the Playback Resolution menu are the same on the Playback Resolution menu are the same on the Source Monitor, but the option you choose on one of the menus is independent of the other. You'll notice the biggest
differences in images with lots of detail, like text. Compare the detail in the tree branches, for example. 5. Try dropping the playback resolution to 1/16. Premiere Pro makes an assessment of each kind of media you work with, and if the benefits of reducing resolution are less than the effort it takes to drop the resolution.
the option is unavailable. In this case, the media is full 4K (4096×2160 pixels), and the 1/16 resolution all of the time, but it can make an enormous difference when working with very highresolution media on a low-powered computer. 6. Return the setting to
1/2. ready for the other clips in this project. If you're working on a powerful computer, you may want to maximize the playback guality when previewing at full resolution. There's an extra option to do this. You can choose High Quality Playback from the Settings menu for the Source Monitor or Program Monitor. With High
Quality Playback selected, playback is performed at the same quality as file export. Without this option enabled, a small amount of quality loss is allowed in exchange for better playback resolution when playback is paused. The playback resolution control is also available in the Settings menu on
the Source and Program Monitors. If you look in the Settings menu on either monitor, you'll find a second set of options related to display resolution, but as you might have guessed, it changes the resolution only when the video is
paused. Most editors choose to leave Paused Resolution set to Full. That way, during playback you may see lowerresolution video to get the timing right, but when you pause, Premiere Pro reverts to showing you a full resolution image. This means when adjusting effects, you'll see the video at full resolution. Some third-
party special effects, may not make use of your system hardware as efficiently as Premiere Pro does. As a consequence, it might take a long time to update the picture when you adjust the effect settings. You can speed things up by lowering the paused resolution. The playback resolution and paused resolution settings
have no impact on output quality when exporting to a file. PLAYING BACK VR VIDEO Virtual reality headsets for the home are now commonplace. Premiere Pro has built-in support for 360° video and 180° video for VR headset display, with clip interpretation options, dedicated immersive video visual effects, desktop
playback controls, integrated VR headset playback, and Ambisonics Audio support. What's the difference between 360° video and virtual reality? 360° video and 
complete sphere that surrounds the viewer. The sphere is flattened into 2D video footage that's described as equirectangular. This is the same term used to describe a globe of the Earth that has been flattened into an atlas you can view in a book. Equirectangular video looks distorted, which makes it hard to view.
However, although the appearance is strange for human eves, it's still a regular video file like any other, and Premiere Pro can work with it. To view 360° video properly, it's usually necessary to wear a virtual reality headset. In the headset you can turn your head to see different parts of the image, Because a VR headset
is required to see 360° video properly, it's often referred to as VR video. True VR isn't actually video. It's a complete 3D environment you can move around in, viewing things from different locations in the virtual reality space. In a sense, VR is a little like a
3D gaming experience. The key difference is this: In 360° video, you can view in different angles, but in true VR you can view from different locations within the scenario. Let's try playing a 360° video clip. 1. Browse into the Further Media bin, and open the clip 360 Intro.mp4 in the Source Monitor. Play the clip. This is an
introduction to a 360° video film. The clip is in 4K resolution (4096×2160 pixels), which might be difficult for you're looking at. That's
because the clip is equirectangular video (a spherical video intended for VR headsets has been flattened into a 2D image). To see this clearly, let's switch to the VR Video mode. 2. Click the Source Monitor Settings menu, and choose VR Video mode. 2. Click the Source Monitor Settings menu, and choose VR Video mode. 2. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu, and choose VR Video mode. 3. Click the Source Monitor Settings menu.
control the angle of view. They're helpful, but they take up a lot of space. 4. Open the Source Monitor. 5. Open the Source Monitor Settings menu, and choose VR Video > Show Controls to deselect the option. You can still drag the image to change the angle of view, but now the image is much larger in the Source Monitor. 5. Open the Source
Monitor Settings menu, and choose VR Video > Settings to open the VR Video Settings dialog box. Different VR headsets have different angles of view. To accurately preview the viewer's experience, you can specify the height and width of the view in degrees, emulating various VR headsets. By default, the height and
width are quite small. Change the Monitor View Horizontal option to 150 degrees, and click OK. 6. Play the video and drag the image to change the angle of view. Much better! Each VR headset you create content for is a little like a different screen you might prepare regular video for. You'll want to preview your content
for each expected display medium to be sure your audience will have the experience you expect. 7. Now open the Source Monitor's Settings menu, and choose VR Video > Enable to deselect it. USING MARKERS Sometimes it can be difficult to remember where you saw that useful part of a shot or what you intended to
do with it. Wouldn't it be useful if you could mark clips with comments and flag areas of interest for later? What you need are markers, what are markers and add comments to them. These temporal (time-based) markers are a fantastic aid to help you
stay organized and communicate with coeditors. You can use markers for personal reference or for collaboration. You can add marker to a clip, it's included in the metadata for the original media file. This means you can open the clip in another Premiere Pro
project, or even another Creative Cloud application, and see the same markers. You can disable this option by choosing Premiere Pro > Preferences > Media (Windows) and deselecting Write Clip Markers To XMP. Exploring the types of markers More than one type of marker is
available, and like clips, each marker that a color. You can change a marker type by double-clicking it and choosing a new color. Comment Marker: This is a marker that DVD and Bluray Disc design applications can convert into a
regular chapter marker. Note If a single clip is selected in a sequence on the timeline when you add a marker, the marker will be added to the selecting clips in sequences. Segmentation Marker: This marker makes
it possible for video distribution servers to divide content into parts. Web Link: Certain video formats can use this marker to automatically open a web page while the video plays. When you export your sequence to create a supported format, web link markers are included in the file. Flash Cue Point: This is a marker used
by Adobe Animate. By adding these cue points to the Timeline in Premiere Pro, you can begin to prepare your Animate project while still editing your sequence. Sequence markers to a sequence markers to a sequence. 1. Open the City Views sequence from the Sequence bin. This is a simple assembly edit with a few
shots from a travelogue program. 2. Set the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the Timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can click the background of the timeline playhead to around 00:01:12:00, and make sure no clips are selected (you can clips are 
Program Monitor transport controls. 2. Right-click the Timeline, just above the playhead. The same marker appears at the bottom of the Program Monitor. You can use this as a visual reminder of an important moment in
time or change it into a different kind of marker. You'll do that in a moment, but first let's look at this marker in the Markers panel. Tip The Markers panel. Next to the Search box are marker color filters. Click one (or several) of
these to see only markers with matching colors in the Markers panel. 4. Open the Markers panel. By default, the Markers panel is grouped with the Project panel is grouped with the Project panel. If you don't see it there, choose Window > Markers. The Markers panel shows you a list of markers, displayed in time order. The same panel shows you
markers for a sequence or for a clip, depending on whether the Timeline, a sequence clip, or the Source Monitor is active. Tip You can open the Marker spanel or by double-clicking the marker icon in the Timeline panel or a monitor. Tip You can quickly add a marker in the Markers for a sequence or for a clip, depending on whether the Timeline, a sequence clip, or the Source Monitor is active. Tip You can open the Markers panel or by double-clicking the marker in the Markers panel or by double-clicking the marker in the Markers panel or by double-clicking the marker in the Marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker in the Marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker dialog box by double-clicking a marker in the Markers panel or by double-clicking the marker dialog box by double-clicking a marker dialog box by do
and immediately display the Marker dialog by pressing M twice, in quick succession. 5. Double-click the thumbnail for the marker in the Marker dialog box. 6. Click the Duration field, and type 400. Avoid the temptation to press Enter or Return, as this will close the panel. Premiere Pro
automatically adds punctuation, turning this into 00:00:04:00 (four seconds) as soon as you click away or press the Tab key to move to the next field. 7. Click in the Name box, and type a comment, such as Replace this shot. Tip Each different type of marker can have a keyboard shortcut assigned. Working with markers
using the keyboard is generally much faster than using the mouse or trackpad. 8. Click OK, or press Return/Enter. The marker now has a duration on the Timeline. Zoom in to the Timeline. Zoom in the Timeline. Zoom in to the Timeline. Zoom in t
a moment to open the Markers menu, at the top of the screen on the main menu bar, to see the available commands. At the bottom of the Markers menu, at the top of the screen on the main menu bar, to see the available commands. At the bottom of the Markers menu, at the top of the screen on the main menu bar, to see the available commands. At the bottom of the Markers menu, at the top of the screen on the main menu bar, to see the available commands. At the bottom of the Markers menu, at the top of the screen on the main menu bar, to see the available commands.
operations that change the sequence duration and timing. With this option disabled, markers stay where they are when your clips move. The menu includes a command with the "snappy" name Copy Paste Includes Sequence Markers. With this option enabled, when you copy a section of a sequence that you've selected
using In and Out marks and then paste that content somewhere else, any sequence markers in the selection are included. Clip markers to a clip. 1. Open the clip Seattle Skyline.mov from the Further Media bin in the Source Monitor. 2. Play the clip, and while it plays, press the M key several times to
add markers. Note Markers can be added using a button or a keyboard shortcut. If you use the keyboard shortcut, M, it's easy to add markers that match the beat of your music because you can add them during playback. 3. Look in the Markers panel. If the Source Monitor is active, every marker you added will be listed.
When clips with markers are added to a sequence, they retain their markers. Tip You can use marker to quickly navigate your clips and sequences. If you single-click a marker in the Markers panel, the playhead will move to the location of the marker—a fast way to find your way around. If you
double-click a marker, the options for that marker will be displayed. 4. Make sure the Source Monitor is active by clicking it. Choose Markers > Clear All Markers. All the marker will be displayed. 4. Make sure the Source Monitor is active by clicking in the Source
Monitor, in the Program Monitor, or on the Timeline time ruler and choosing Clear All Markers. Exporting markers You can export markers associated with a clip or sequence as an HTML page with thumbnails or as a CSV (comma-separated value) file readable by spreadsheet-editing applications. This is great for
collaboration and as a reference. In order to export markers, choose File > Export > Markers, choose File > Markers, 
Find or pressing Command+F (macOS) or Ctrl+F (Windows) will display search options for that panel. When clips in a sequence are found that match your search criteria, Premiere Pro highlights them. If you choose Find All, Premiere Pro will highlight all clips that meet the search criteria. USING SYNC LOCK AND
TRACK LOCK There are two distinct ways to lock tracks on the Timeline. Sync locks keep clips in sync, so when you apply an insert edit or extract edit, clips on other tracks stay synchronized. Track locks enable you to lock a track so that absolutely no changes can be made to it. Using sync locks If an actor's lips move
out of time with the audio of the person's voice, it's considered bad lip-sync. It's obvious when this kind of synchronization (sync) goes wrong, but other types of sync issue may be harder to detect. It's helpful to think of syncing as coordinating any two things that are meant to happen at the same time. It might be a
musical event that happens at the same time as a climactic visual or something as simple as a lower-third title that identifies a speaker. If it happens at the same time, it's synchronized. 1. Open the Theft Unexpected 02 sequence from the Sequences bin. When John arrives, at the beginning of the sequence, the
audience won't know what he's looking at. Let's add a new opening shot of the other actor to set the scene. 2. Open the Mid Suit clip, from the Theft Unexpected bin, in the Source Monitor. Add an In mark around 01:15:35:18, and add an Out mark around 01:15:39:00. 3. Position the Timeline playhead at the beginning of
the sequence, and make sure there are no In or Out marks on the Timeline. 4. Deselect Sync Lock for the Video 2 track. 5. Check that your Timeline panel is configured as in the following example, with the Source V1 track patched to the Timeline V1 track (drag it into position if necessary). The Timeline track header
buttons are not important now, but having the right source track selection buttons enabled is. Before you do anything else, take a look at the position of the Mid Suit cutaway clip on the Video 1, covering that
edit for the viewer. Note You may need to zoom out to see the other clips in the sequence. 6. Insert-edit the source clip into the beginning of the sequence (you can click the Source Monitor Insert Edit button ). Take another look at the location of the Mid Suit cutaway clip. The Mid Suit cutaway clip on the Video 2 track
has not moved because the sync lock was turned off for that track. The other clips, on the Video 1 track, have moved to the right to accommodate the new clip. This is a problem because the cutaway is now out of position with the clips to which it relates—it no longer covers the cut! 7. Undo by pressing Command+Z
(macOS) or Ctrl+Z (Windows). Note Overwrite edits do not change the duration of your sequence, so they are not affected by sync locks. 8. Turn on the Sync Lock for the Video 2 track, and perform the insert edit again. This time, the cutaway clip moves with the other clips on the Timeline, even though nothing is being
edited onto the Video 2 track. This is the power of sync locks—they keep things in sync! Using track locks prevent you from making any changes at all to a track. They are an excellent way to avoid making accidental changes to your sequence and to fix clips on specific tracks in place while you work. For
example, you could lock your music track while you insert different video clips. By locking the music track, you can simply forget about it while editing because no changes can be made to it. The content of a locked track is still included in the sequence; you just can't make changes. Lock and unlock a track by clicking the
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Track Lock button. Clips on a locked track are highlighted with diagonal lines. Track locks override sync locks, so even though the sync locks are enabled in this example, you'd break sync with the video clips if you were to change the position of the audio clips. FINDING GAPS IN THE SEQUENCE Until now, you've
been exclusively adding clips to a sequence (not removing them). Part of the power of nonlinear editing is in having the freedom to move clips around in a sequence and remove the parts you don't want. When removing clips or parts of clips, you'll either leave a gap by performing a lift edit or not leave a gap by
performing an extract edit. An extract edit is a little like an insert edit but in reverse. Rather than other clips move in to fill the gap left behind by a clip you are removing. When you zoom out of a long complex sequence, it can be difficult to
see smaller gaps between clips. To automatically locate the next gap, choose Sequence > Go To Gap > Next In Sequence. Once you've found a gap, you can remove it by selecting it and pressing Delete/Backspace. Clips after the gap will move to close the gap. You can remove multiple gaps by choosing Sequence >
Close Gap. If you have set In and Out marks in the sequence, only gaps between the marks will be removed. Let's explore working with the Theft Unexpected 02 sequence. SELECTING CLIPS Selection is an important part of working with Premiere Pro. For
example, depending on the panel you have selected to be active, different menu options will be available. Select clips in your sequences that have video and audio, you'll have two or more segments for each clip; one video segment and one or
more audio segments. When the video and audio clip segments come from the same original media file, they are automatically linked to a sequence. If you select one, the other is automatically selected too. Toggle the Linked Selection button off, at the top left of the Timeline panel, to ignore links
between clips. All clip linking will be ignored. For example, if there's more than one audio clip, you'll select just the one you click. There's a guick way to ignore linked selections without clicking the Linked Selection button: Hold Option (macOS) or Alt (Windows) while selecting clip segments in a seguence. Selecting a clip
or range of clips When selecting clips in a sequence, there are two approaches. Make time selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks. Make clip segment selections by using In and Out marks.
you to adjust the In or Out marks (these will update, live, in the sequence). When making selections, you'll generally use the Selection tool, which is selected in the Tools panel by default. This tool has the keyboard shortcut V. If you hold the Shift key while selecting sequence clip segments, you'll add or remove clips
from the selection. Selected clips do not have to be contiguous. You can also drag the Selection box will be selected. There is
also an option to automatically select whichever clip the Timeline playhead passes over. This is particularly useful for keyboard-based editing workflows and effects setup. You can enable the option by choosing Sequence > Selection Follows Playhead. Note If no tracks are enabled, pressing D will select all clips under
the Timeline playhead. You can also press the keyboard shortcut D to select the current clip under the Timeline playhead. Clips on every track, there are two handy tools to do just that: the Track Select Forward tool, which
has the keyboard shortcut A, and the Track Select Backward tool, which has the keyboard shortcut Shift+A. You can click and hold the Track Select Forward tool and click any clip on the Video 1 track. Every clip on every track,
from the one you select until the end of the sequence, is selected. This is useful if you want to add a gap to your sequence to make space for more clips; you can drag all the selected clips to the right. When you click a clip with the Track Select Backward tool, every clip up to the one you clicked is selected. If you hold the
Shift key while using either of the tools, you'll select clips on only one track. Tip The V key is a useful shortcut. If the Timeline panel seems to be acting strangely, try pressing V to return to the Selection tool. When you have finished, switch to the Selection tool by clicking it in the Tools panel or by pressing the V key.
Splitting a clip It's also common to add a clip to a sequence and then realize you need it in two parts. Perhaps you want to take just a section of a clip and use it as a cutaway, or maybe you want to separate the beginning and the end to make space for new clips. You can split clips in several ways. Use the Razor tool. If
you hold the Shift key while clicking with the Razor tool, you'll split the clips on every track, Make sure the Timeline panel is selected and choose Sequence > Add Edit, Premiere Pro adds an edit at the location of your playhead to clips on any tracks that are targeted (with the track selection button on). If you have
selected clips in the sequence, Premiere Pro adds the edit only to the selected clips, ignoring track selections. If you choose Sequence > Add Edit to clips on all tracks, regardless of whether they are targeted. Use the Add Edit keyboard shortcuts. Press Command+K (macOS) or
Ctrl+K (Windows) to add an edit to targeted tracks or selected clips, or press Shift+Command+K (macOS) or Shift+Ctrl+K (Windows) to add an edit to targeted tracks or selected clips, or press Shift+Command+K (macOS) or Shift+Ctrl+K (Windows) to add an edit to targeted tracks or selected clips, or press Shift+Ctrl+K (Windows) to add an edit to targeted tracks. Tip The keyboard shortcut for the Razor tool is C. Clips that were originally continuous will still play back seamlessly unless you move them or make separate
adjustments to different parts. If you click the Timeline Display Settings menu, you can choose Show Through edit and press Delete to rejoin the two parts of a clip. You don't need the Through Edits icons to be displayed for this to
work, but they are a handy visual indicator. Try splitting some clips in your current sequence using these techniques. Then try rejoining them work, but they are a handy visual indicator. Try splitting some clips in your current sequence using these techniques. Then try rejoining them work, but they are a handy visual indicator. Try splitting some clips in your current sequence using these techniques.
connected video and audio segments can be switched off and on easily. Just select the clip or clips you want to change, right-click the selected clips, and choose Unlink. You'll find the command in the Clip menu too. You can link the clip segments again by selecting both segments, right-clicking one of them, and
choosing Link. There's no harm in linking or unlinking clips—it won't change the way Premiere Pro plays your sequence. It just gives you flexibility in the way you work with clips. Even if video and audio clip segments are linked, you'll need to make sure the Timeline Linked Selection option is enabled to select linked clips
together. MOVING CLIPS Insert edits and overwrite edits and overwrite edits and overwrite edits and overwrite edits simply replace them. This theme of having two ways of working with clips extends to the techniques you'll employ to move clips
around a sequence and to remove clips. When moving clips using the Insert mode, you may want to ensure the sync locks are on for all tracks to avoid losing sync. Let's try a few examples. Dragging clips At the top left of the Timeline panel, you'll find the Snap button. When snapping is enabled, clip segments snap
automatically to each other's edges. This simple but useful feature will help you position clip segments frame-accurately. 1. Select the last clip on the Timeline, HS Suit, and drag it a little to the right. Because there are no clips after this one in the seguence, you simply introduce a gap before the clip. No other clips are
affected. 2. Make sure the Snap option is enabled, and drag the clip back to its original position. If you move slowly, you'll notice that the clip segment jumps into position at the last moment. When this happens, you can be confident it's perfectly positioned. Notice that the clip also snaps to the end of the cutaway shot on
the Video 2 track. 3. Drag the clip left until the right edge of the clip snaps to the right edge of the previous clip so they are overlapping. When you drag and drop clips, the default editing mode is Overwrite. 4. Undo to return the clip to its original
position. Nudging clips Many editors prefer to use the keyboard as much as possible, minimizing the use of the mouse or trackpad because working with the keyboard is usually faster. You can reposition clip segments in a seguence using the arrow keys in combination with a modifier key, nudging the selected items left
and right (earlier or later in time) or up and down between tracks. Because of the separator between the video and audio clips up or down, one or other clip may be left in its original position. This introduces a vertical gap between the linked clips. This
won't impact playback but can make it a little harder to see which clips are linked together. Default clip-nudging shortcuts Premiere Pro has many keyboard Shortcuts preferences, prioritizing the use of
available keys to suit your workflow. Here are the default shortcuts for nudging clips: Nudge Clip Selection Left 1 Frame (add Shift for 5 frames): Command+Right Arrow (macOS) or Alt+Right Arrow (windows) Nudge Clip Selection Right 1 Frame (add Shift for 5 frames): Command+Right Arrow (macOS) or Alt+Right Arrow (macO
(Windows) Nudge Clip Selection Up: Option+Up Arrow (macOS) or Alt+Up Arrow (Windows) Nudge Clip Selection Down: Option+Down Arrow (Windows) Rearranging clips in a seguence If you hold the Command (macOS) or Ctrl (Windows) key while you drag clip segments in the Timeline
panel, Insert mode (rather than Overwrite mode) is used to place the clip when you release the mouse button. Tip You may need to zoom in to the Timeline to see the clips clearly and move them easily. To try this out, click the name of the Theft Unexpected sequence to bring it into view. The HS Suit shot that begins
around 00:00:16:00 might work better if it appeared before the previous shot—and it might help to hide the poor continuity between the two shots of John. 1. Make sure Snapping is enabled, with a blue icon at the top left of the Timeline panel. 2. Start dragging the HS Suit clip to the left of the clip before it. After you have
begun dragging, hold the Command (macOS) or Ctrl (Windows) key. 3. Drag until the left edge of the HS Suit clip snaps to the left edge of the HS Suit clip snaps to the left edge of the Mid Suit clip. Release the modifier key. 4. Play the result. This creates the edit you want, but it introduces a gap where the clip HS
Suit was originally placed. Let's try that again with an additional modifier key. Tip Be careful when dropping the clip into position. The ends of clips snap to edges just as the beginnings do. 5. Undo to restore the clips to their original positions. 6. Holding Command+Option (macOS) or Ctrl+Alt (Windows), drag the HS Suit
clip to the beginning of the previous clip again. This time, no gap is left in the sequence after you drop it. Play through the edit to see the result. Using the clipboard You can copy and paste text in a word processor. 1. In a sequence, select any clip segment
(or segments) you want to copy, and then press Command+C (macOS) or Ctrl+C (Windows) to add them to the clips you copied, and press Command+V (macOS) or Ctrl+V (Windows). Premiere Pro adds copies of the clips to your sequence based
on which track targeting buttons are enabled. The lowest targeted track receives the clip (or clips). If no tracks are targeted, the clips will be added to their original tracks, which can be useful when rearranging the contents of a sequence. You can use In and Out points combined with track selection buttons to set the parts
of clips that you'll copy. EXTRACTING AND DELETING SEGMENTS Now that you know how to add clips to a sequence and how to move them around, all that remains is to learn how to move them around, all that remains is to learn how to move them. Once again, you'll be operating in a kind of Insert or Overwrite mode. There are two ways to select parts of a sequence
you want to remove. You can use In and Out marks combined with track selections, or you can select clip segments. Performing a li edit A lift edit will remove the selected part of a seguence, leaving blank space. It's similar to an overwrite edit but in reverse. 1. Click the name of the Theft Unexpected 02 seguence in the
Timeline panel to bring it into view. This sequence has two unwanted clips. They have different label colors to make them easy to identify. Next, you'll set In and Out points on the Timeline to select the part that will be removed. You could do this by positioning the playhead and pressing I or O, but the next step will show
you a handy shortcut. 2. Position the playhead so that it's somewhere over the first unwanted clip, Excuse Me Tilted. 3. Make sure the Video 1 and Audio 1 tracks are selected, and then press X. There's no need to select the clip first. This adds an In point and an Out point that match the beginning and end of the clip.
You'll see a highlight that shows the selected part of the sequence. 4. Click the Lift button at the bottom of the Program Monitor. If your keyboard has a; (semicolon) key, you can press it instead. Premiere Pro removes the part of the sequence you selected, leaving a gap. This might be fine on another occasion, but on
this occasion we don't want the gap. You could remove the gap now, but for the next exercise you'll try performing an extract edit so no gap is left. Different shortcuts to add In and Out marks You can set In and Out points at the beginning and end of a selected clip (or multiple clips) by pressing / (forward slash). This is a
little different from using the X key after positioning the playhead over the clip (without selecting it) with the correct tracks selection-based / key, provided your track selections are already set up. Performing an extract edit An extract edit
removes the selected part of your sequence and does not leave a gap. It's similar to an insert edit but in reverse. 1. Undo the last edit. Note Non-English keyboard shortcuts preferences. 2. Click the
Extract button at the bottom of the Program Monitor. If your keyboard has an' (apostrophe) key, you can press it. This time, Premiere Pro removes the sequence move to close the gap. Performing a delete and ripple delete edit Just as there are two ways to remove
part of a sequence based on In and Out points, there are also two similar ways to remove clips by selecting clip segments: Delete and Ripple Delete. Click once to select the second unwanted clip, called Cutaways, and try these two options: Pressing the Delete/Backspace key removes the selected clip (or clips), leaving
a gap behind. This is the same as a lift edit. Pressing Shift+Forward Delete (macOS) or Shift+Delete (Windows) removes the selected clip (or clips) without leaving a gap behind. This is the same as an extract edit. If you're using a Mac keyboard without a dedicated Forward Delete key, you can convert the Delete key
into a Forward Delete key by holding Function (fn) when you press the Delete key. The result seems similar to that achieved by using In and Out marks because you used In and Out marks because you will not only on the Indiana you will not be a support of the Indiana you will not be a support of the Indiana you w
clips, while selecting clip segments and pressing Delete/Backspace will always remove whole clips. Disabling a clip You can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's output off or on, or you can turn a whole track's o
selectively hiding parts of a complex, multilayered sequence when you want to see background layers or compare different tracks. Try this on the cutaway shot on the Video 2 track, toward the end of the sequence. 1. Right-click the Mid Suit clip on
the Video 2 track and choose Enable to deselect it. Note When right-clicking clips in a sequence, be careful not to right-click the FX badge as this will give you options. Play through that part of the sequence, and you'll notice that the clip is present, but you can no
longer see it. 2. Right-click the clip again and choose Enable. This reenables the clip. REVIEW QUESTIONS 1. When dragging clips directly into the Timeline panel, what modifier key (Command/Ctrl, Shift, or Option/Alt) should you use to make an insert edit rather than an overwrite edit? 2. How do you drag just the
video or audio part of a clip from the Source Monitor into a sequence? 3. How do you reduce the playback resolution in the Source Monitor or Program Monitor? 4. How do you add a marker to a clip or sequence? 5. What is the difference between an extract edit and a lift edit? 6. What is the difference between Delete
and Ripple Delete? REVIEW ANSWERS 1. Hold the Command (macOS) or Ctrl (Windows) key when dragging a clip into the Timeline panel to make an insert edit rather than grabbing the picture in the Source Monitor, drag the filmstrip icon or the audio waveform icon at the bottom of the
monitor to take only the video or audio part of the clip. You can also use the source patching buttons in the Timeline panel to deselect the parts you want to exclude. 3. Use the Select Playback Resolution menu at the bottom of the monitor to change the playback resolution. 4. To add a marker, click the Add Marker
button at the bottom of a monitor, or on the Timeline panel, press the M key, or use the Marker menu. 5. When you lift, a gap remains. 6. When you delete one or more clip segments in a sequence, a gap is left behind. When you
ripple delete, no gap is left. 7 Adding Transitions Lesson overview In this lesson, you'll learn how to do the following: Understand transitions. Fine-tune transitions. Apply transitions to multiple clips at once. Use audio transitions. This lesson will
take about 75 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. Transitions can
help create a seamless flow between two video or audio clips. Video transitions are often used to signify a change in time or location. Audio transitions provide a useful way to avoid abrupt edits that jar the listener or to blend the significance of two scenes. STARTING THE LESSON Although the most common transition
is a cut—where one clip abruptly ends and another begins—there are great opportunities for creativity using transitions between video and audio clips to help your edits flow more smoothly. You'll also learn best practices for choosing the most
appropriate transitions. For this lesson, you'll use a new project file. 1. Start Adobe Premiere Pro, and open the project Lesson 07 Working prproj in the same folder. 3. Choose Effects in the Workspaces panel, or choose Window > Workspaces > Effects.
Reset the workspace to the saved layout. This changes the workspace to a preset optimized for working with transitions and effects. The workspace uses stacked panels to maximize the number of panels that can be on-screen at a time. Note If you have been using Premiere Pro for a while, there's a chance the
Workspaces panel is not displayed. You can always restore it by choosing the correct workspace from the Window menu and then going back to the Window menu and choosing Workspaces > Reset To Saved Layout. You can enable stacked panels for any panel group by opening the panel menu and choosing Panel
Group Settings > Stacked Panel Group. The same option will toggle off stacked panels. You can click the name of any stacked panel to view it. Start with the Effects panel, you can click effect category disclosure triangles to display their contents. The panel automatically changes height to display
listed items. WHAT ARE TRANSITIONS? Adobe Premiere Pro offers several special effects and preset animations to help you bridge neighboring clips in a sequence. These transitions—such as dissolves, page wipes, dips to color, and so on—provide a way to ease viewers from one scene to the next. As well as
smoothing the join between two clips, transitions can be used to focus attention on a major jump in the story. Adding transition you want onto the cut between two clips. The skill comes in their placement, length, and settings, such as direction,
motion, and start/end positions. You can adjust some transition settings in the Timeline panel, but it's usually easier to make precise adjustments in the Effect Controls panel, select it in a sequence. In addition to the unique options for each transition.
the Effect Controls panel features an A/B timeline display. This makes it easy to change the timing of transitions to clips that don't have enough head or tail frames—that is, additional content to provide an overlap at the beginning (head) or end
(tail) of a clip. VR video transitions Though it is beyond the scope of this book. Premiere Pro includes excellent support for 360° video and includes effects and transitions designed to deal with wraparound video.
with no edges. The techniques described here also apply to 360° video transitions—just be sure to use one of the options available in the Video Transitions are similar to the rules of screenwriting. They're effective
when they help the viewer understand the story or a character. For example, you may switch from indoors to outdoors in a video, or you may jump forward in time by several hours in the same location. An animated transition, a fade to black, or a dissolve helps the viewer understand that time has passed or that the
location has changed. Transitions are a standard storytelling tool in video editing. A fade to black at the end of a scene is a clear indication that the scene has finished. The trick with transitions is to be intentional—and this often means using restraint—unless, of course, a total lack of restraint is the creative result you
want! Only you can know what is right for your project. As long as it looks like you meant to include a particular effect, your audience will tend to trust your decision (whether or not they agree with your creative choice). It takes practice and experience to develop sensitivity for the right time, and the wrong time, to use
effects such as transitions. If in doubt, less is usually best. Following best practices with transitions You may be tempted to use a transition on every cut. Don't! Or at least, get them out of your system with your first project. Most TV shows and feature films use cuts-only edits. You'll rarely see any transition visual effects
Why is this? An effect should be used only if it gives an additional benefit; transition effects can sometimes be a distraction from the video, reminding viewers they are watching a story and not experiencing it. If a news editor uses a transition effect, it's for a purpose. The most frequent use in newsroom editing is to take
what would have been a jarring or abrupt edit and make it a more comfortable experience. A jump cut is a good example of a scenario where a transition effect can help. A jump cut is a cut between two similar shots. Rather than looking like a continuation of the story, they look a little like a piece of the video is
unintentionally missing. By adding a transition effect between the two shots, you can make a jump cut look intentional and less distracting. Dramatic transition effects do have their place in storytelling. Consider the Star Wars movies with their highly stylized transition effects, such as obvious, slow wipes. Each of those
transitions has a purpose. In this case, it's to create a look reminiscent of old serialized movies and TV shows. The transition effects send a clear message: "Pay attention now. We're transitioning across space and time." USING HANDLES To understand transition effects, you'll need to understand edit points and
handles. An edit point is the point in your sequence where one clip ends and the next begins. This is often called a cut and sometimes simply called an edit. These are easy to see because Premiere Pro displays vertical lines to show where one clip ends and another begins (much like two bricks next to each other). When
you edit part of a clip into a sequence, the unused sections at the beginning and end are still available but hidden in the Timeline panel. Those unused sections are referred to as clip handles, or simply handles. When you first edited a clip into a sequence, you set an In point and an Out point to select the part you
wanted. There's a handle between the clip's original beginning and the In point you set. There's also a handle between the clip's original end and the Out point you set. There's also a handle between the clip's original end and the Out point you set. There's also a handle between the clip's original end and the Out point you set. There's also a handle between the clip's original end and the Out point you set. There's also a handle between the clip's original end and the Out point you set. There's also a handle between the clip's original end and the Out point you set.
you may have set just an In point or an Out point at the beginning or end of the clip. In this case, you would have either no unused media at only one end of the clip. In the sequence, if you see a little triangle in the upper-right or upper-left corner of a clip, it means you've reached the end of the original
clip and there are no additional frames available. In this example, the first clip has no handles (triangles at both ends). The second clip has a handle available at the start (on the left) but no handle at the end (on the right). For transitions to work, you usually need handles because they provide the overlap needed when
creating a transition effect. These unused sections of clips are not visible unless you apply a transition effect automatically creates an overlap between the outgoing clip and the incoming clip. For example, if you wanted to add a two-second Cross Dissolve transition centered between two video clips.
you'd need at least a onesecond handle on both clips (one additional second each that would not normally be visible in the sequence). In the Timeline panel, the transition of the duration of the duration of the duration of the effect and the clip overlap. ADDING VIDEO TRANSITIONS Premiere Pro gives you multiple
video transition effects to choose from. Most options are available in the Video Transitions group in the Effects panel. The transitions are organized into eight effect subcategories. You'll find some additional transitions in the Video Effects > Transition group in the Effects panel. However, these effects are meant to be
applied to an entire clip and can be used to reveal the visual contents of the clip over time between its start and end frames (not using clip handles overlapping another clip). This second category works well for superimposing text or graphics. Note If you'd like more transition effects, check the Adobe website. Visit
helpx.adobe.com/premiere-pro/plug-ins.html. There, you'll find several third-party effects to explore. Applying a single-sided transition The easiest transition to understand is one that applies to just one end of a single-sided transition. There, you'll find several third-party effects to explore. Applying a single-sided transition to understand is one that applies to just one end of a single clip. This could be a fade from black on the first clip in a sequence or a dissolve into an animated graphic.
Note You can use the Search field, at the top of the Effects panel, to locate an effect by name or keyword, or you can browse the folders of effects. Let's give it a try. 1. If necessary, open the sequence called Transitions. This sequence has four video clips and background music. The clips have handles long enough for
transition effects to be applied between them. 2. In the Effects panel, open the Video Transition is in the right position, release it. 4.
Drag another Cross Dissolve effect onto the end of the last video clip. The Cross Dissolve icon shows the timing of the effect, you just applied to the last clip in the sequence will start before the end of the clip and complete by the time it reaches the clip's end. Transitions of this kind don't extend
the clip (using the handle) because the transition doesn't reach past the end of the clip, where there is no connected clip, the picture dissolves into the background of the Timeline. Because the background of the timeline is black, this
looks like a Dip to Black effect, which transitions to black. In reality you are causing the clip to become gradually transparent in front of a black background layers. 5. Play the seguence to see the result. You should see
a fade from black at the start of the sequence and a fade to black at the end. Applying a transition between two clips Let's apply transition, you'll break some artistic rules and try a few different options. As you go through these steps, play the sequence regularly to
view the results. Tip On an English-language keyboard, it's easy to remember that pressing the = key (if your keyboard has one) zooms in because there is usually a + symbol on the same key. 1. Continue working with the previous sequence, called Transitions. 2. Move the Timeline playhead to the edit point between clip
1 and clip 2 on the Timeline and then press the equal sign (=) key two or three times to zoom in fairly close. If your keyboard does not have the = key, use the navigator at the bottom of the Timeline panel to zoom. You can also create a custom keyboard shortcut for this purpose—see Lesson 1, "Touring Adobe Premiere
Pro." 3. Drag the Dip To White transition from the Dissolve group in the Effects panel onto the edit point between clip 1 and clip 2. The effect with the middle of the edit, not the end of the first clip or beginning of the second clip. The Dip To White transition
effect gradually builds to a completely white screen, which obscures the cut between the first clip and the next. 4. In the Effects panel, click the disclosure triangle for the Slide category to display its contents. Drag the Push transition onto the edit point between clip 2 and clip 3 in the sequence. 5. Play through the
transition to see the result, and then position the playhead on the edit between clip 2 and clip 3 by pressing the Up arrow on your keyboard. The Up and Down arrow keys are shortcuts to move the Timeline playhead to the previous or next edit. 6. Click the Push transition effect icon in the Timeline panel once to select it
and open the Effect Controls panel (remember, if you can't see a panel, it will always be listed in the Window menu). 7. Change the direction control to the right of the thumbnail at the top left of the Effect Controls panel, it will always be listed in the Window menu). 7. Change the direction control to the right of the thumbnail at the top left of the Effect Controls panel, it will always be listed in the Window menu). 7. Change the direction control to the right of the thumbnail at the top left of the Effect Controls panel. Each small white triangle
changes the direction for the Push transition effect. Hover the pointer over a triangle to see a tool tip describing the option. In the Timeline panel, play through the transition from the 3D Motion group onto the edit point between clip 3 and clip 4. 9. Review the sequence by
playing it from beginning to end. Having watched this sequence, you can probably see why it's a good idea to use transition effect. 10. Drag the Split transition from the Slide category onto the existing Push transition effect icon, between clip 2 and clip 3. The new
transition effect replaces the old one, taking the duration of the old effect. Note When you drag a new video or audio transition, it replaces the existing effect. It also preserves the alignment and duration of the previous transition. This is an easy way to
experiment with alternative transition effects. 11. Select the Split transition effect icon on the Timeline so its settings will be displayed in the Effect Controls panel, set Border Width to 7 and Anti-aliasing Quality to Medium to create a thin black border at the edge of the wipe. Note You may need to scroll
down in the Effect Controls panel to access further controls. The anti-aliasing method reduces potential flicker when the line animates during the effect. 12. Play through the transition to view the result. The best way to do this is probably to click a little farther back in the sequence to watch the video leading up to the
transition. If the video does not play smoothly during the transition, press the Return/Enter key to prerender the effect (more on this later), wait for the rendering to complete, and try again. Video transitions have a default duration, which can be set in seconds or frames (it's frames by default). The effective duration of a
transition effect will change depending on the seguence frame rate, unless the default duration is set in seconds. The default transition duration can be changed in the Timeline (windows).
Depending on your geographic region, you may see a default Video Transition Duration setting of 30 Frames or 25 Frames. 14. This is a 24-frames-per-second. Do so now, and click OK. Existing transition effects
keep their existing settings when you change the preference, but any future transitions you add will have the new duration. The duration of an effect can dramatically change its impact, and later in this lesson, you'll learn about adjusting the timing of transitions. Apply the default transition effect to multiple clips So far,
you've been applying transitions to video clips. However, you can also apply transitions to still images, graphics, color mattes, and even audio, as you'll see in the next section of this lesson. It's common for editors to create a photomontage, which might look good with transitions between photos. Applying transitions one
at a time to 100 images would take a long time. Premiere Pro makes it easy to automate this process by allowing a default transition effect (which you set) to be added to any group of clips. 1. In the Project panel, find and open the seguence Slideshow. This seguence consists of several images placed in a particular
order. Notice that a Constant Power audio crossfade has already been applied to the beginning and end of the music clip to create a fade in and out. 2. Play the sequence by making sure the Timeline panel is active and pressing the spacebar. There's a cut between each clip. 3. Press the backslash (\) key to zoom out
the Timeline so the whole sequence is visible. If your keyboard does not have a \ key, drag the right end of the Timeline panel navigator to adjust the zoom. Tip If you discover a useful keyboard shortcut that uses a key not included on your keyboard, you can use the Keyboard Shortcuts dialog box to assign a different
key. 4. Increase the height of the V1 track to see thumbnails on the clips (you can drag the dividing line between V1 and V2 in the track header). 5. With the Selection tool, draw a marquee around all the clips to select them. You'll need to begin outside of the clips to make this selection, or you'll move the first clip you
click on instead. 6. Choose Sequence > Apply Default Transitions To Selection. This applies the default transition between all the currently selected clips. Notice that the Constant Power audio crossfade at the beginning and end of the music clip is now shorter. The default video transition effect is a one-second Cross
Dissolve, and the default audio transition effect is a one-second Constant Power Crossfades with new, shorter ones. Tip You'll find the option to apply audio-only transition effects in the Sequence menu too. You can change the default transition
by rightclicking a transition effect in the Effects panel and choosing Set Selected As Default Transitions, 7. Play the seguence to see the difference the new Cross Dissolve transitions make to the montage. Note If you're working with clips that have linked video and audio, you can select just the video or audio portions if
you Option-drag (macOS) or Altdrag (Windows) with the Selection tool. Then choose Seguence > Apply Default Transitions To Selection tool. Then choose Seguence > Apply Default Transition effect to multiple edits using the keyboard. Let's try it. 1. Press Command+Z (macOS) or Ctrl+Z
(Windows) to undo the last step, and press Esc to deselect the clips. 2. Choose any transition effect in the Effects panel, and drag it onto the seguence. 3. Select the transition you just applied by clicking its effect icon once in the seguence. 4. Press Command+C
(macOS) or Ctrl+C (Windows) to copy the effect. Then hold Command (macOS) or Ctrl+V (Windows) while vou use the Selection tool to drag a marguee around multiple other edits to select them, rather than clips. 5. With the edits selected, press Command+V (macOS) or Ctrl+V (Windows) to paste the transition effect onto
all the selected edits. This is a great way to add transition effects with matching settings to multiple edits, especially if you have taken the time to customize an effect. Sequence display changes When you add a transition to a sequence, a red or yellow horizontal line may appear above it in the Timeline panel. A yellow
line indicates that Premiere Pro expects to be able to play the effect smoothly. A red line means that this section of the sequence may need to be rendered before you can play a preview without dropped frames. You can choose to render at any time to make these sections preview more smoothly on a slower computer.
The easiest way to render is to use the keyboard shortcut Return (macOS) or Enter (Windows). If you add In and Out points to select a part of your sequence will render. This is useful if you have many effects that need to render, but you're concerned with only
USING A/B MODE TO FINE-TUNE A TRANSITION When you review transition effect settings in the Effect Controls panel, you have access to an A/B editing mode that splits a single track are now displayed as
individual clips on separate tracks, with a transition between them. Separating the elements of the transition in this way allows you to manipulate the head and tail frames (or handles) and to change other transition options. Changing parameters in the Effect Controls panel All transitions in Premiere Pro can be
customized. Some effects have just a few customizable properties (such as duration or starting point). Other effects offer more options, such as direction, color, border size, and so on. A major benefit of the Effect Controls panel is that you can see the outgoing and incoming clip handles (unused media in the original
clip). This makes it easier to adjust the timing of an effect. Let's modify a transition, 1. In the Timeline playhead over the Split transition you added between clips 2 and 3, and click the transition effect icon to select it. 3. In the Effect Controls panel,
select Show Actual Sources to view frames from the actual clips. This makes it easier to assess the changes you'll make. 4. In the Effect Controls panel and the Timeline panel switches to show the new position. 5. Click
the small Play The Transition button at the upper-left corner of the Effect Controls panel to preview the transition beneath the button. 6. Now change the transition button at the upper-left corner of the Effect Controls panel, click the blue numbers for the effect Duration, type 300, and click away from the numbers or press the Tab key to apply
the new setting. Premiere Pro will add the correct punctuation automatically, changing 300 into 00:00:03:00—that is, 3 seconds. The Alignment menu changes to Custom Start because the effect now reaches beyond the beginning of the next transition effect. To make the new transition duration fit, Premiere Pro sets the
start a little earlier. Examine the right side of the Effect Controls panel, which displays the transition in a small timeline. Note The Effect Controls timeline way not currently be visible. Clicking the Show/Hide Timeline View button in the Effect Controls panel toggles it on and off. You might need to resize the Effect Controls
panel to make the tiny Show/Hide Timeline View button visible. In this example, the Effect Controls panel playhead is centered on the cut, and you can see the way the effect timing has been adjusted automatically. These automated adjustments can be subtle, so always double-check the results of new settings. Tip The
bottom of the Effect Controls panel timeline includes a zoom navigator that works the same way as the one in the Monitors and Timeline panel. 7. Play the transition to see the change. It's important to play through transitions to be sure you're happy with the newly revealed media in the handles—this media was hidden
from view until you added the transition effect. Although it's useful that Premiere Pro automatically modifies the timing of effects when necessary, it makes it even more important to check the transition before you move on. Now let's customize the transition. 8. In the Effect Controls panel timeline, hover the pointer over
the thin vertical black line that crosses all three layers (the two video clips and the transition effect between the may need to move the playhead out of the way—earlier or later—to see the edit point between two clips. This edit line is close to the left edge of the
effect, so you will probably want to zoom in to the Effect Controls panel timeline to conveniently make adjustments. The pointer changes to a red Rolling Edit tool. Note When trimming, it's possible to shorten a transition to a duration of one frame. This can make it hard to grab and position the transition effect icon, so try
using the Duration and Alignment controls. If you want to remove a transition, select it in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still in the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line. 9. Still line the Effect Controls panel, the Rolling Edit tool lets you reposition the edit point by dragging the edit line and the Rolling Edit tool lets you reposition the edit point by dragging the edit line and the Rolling Edit tool lets you reposition the edit point by dragging the edit line and the Rolling Edit tool lets you reposition the edit point by dragging the edit line and the Rolling Edit tool lets you reposition the edit point by dragging the edit line and the edit
drag the Rolling Edit tool left and right. As you do, you're changing the timing of the cut. The Out point of the edit update in the Timeline panel when you release the mouse button. This is a form of trimming. Tip You can position the start time of a
dissolve asymmetrically by dragging it. This means you don't have to settle for the Centered, Start At Cut, and End At Cut options. You can drag the position of a transition effect directly on the Timeline too; there's no need to use the Effect Controls panel. You'll explore trimming in more detail in Lesson 8, "Mastering
Advanced Editing Techniques." 10. Move the pointer to the left or right of the edit line in the Effect Controls panel, and the cursor changes to the Slide tool. The edit line is the time ruler playhead. Using the Slide tool changes the
start and end points of the transition without changing its overall duration. Unlike using the Rolling Edit tool, moving the edit point between the two sequence clips. Instead, it changes the timing of the transition effect. 11. Use the Slide tool to drag the
transition rectangle left and right and compare the results. Using a Morph Cut effect Morph Cut is a special transition effect that aims to be invisible. It's designed specifically to help with "talking head" video interviews, where a single speaker looks in the direction of the camera. If your subject pauses a lot or there is
inappropriate content in the footage, you may want to remove a section of the interview. This would normally produce a jump cut (when the image seems to jump suddenly from one piece of content to another), but with the right media and a little experimentation, the Morph Cut effect might yield an invisible transition that
seamlessly hides what you have removed. Let's try it. 1. Open the sequence Morph Cut. Play the beginning of the sequence. This sequence has one clip, with a jump cut but enough to jar the audience. 2. In the Effects panel, look in the Video Transitions > Dissolve group for the Morph
Cut effect. Drag this effect to the join between the two clips. The Morph Cut transition effect begins by analyzing the two clips in the background. You can continue to work on your seguence while this analysis takes place. Depending on your media, you may achieve improved results with the Morph Cut transition effect by
experimenting with different durations. 3. Double-click the Morph Cut transition effect to display the Set Transition Duration dialog box. Change the duration setting). 4. When the analysis is complete, press Return (macOS) or Enter (Windows)
to render the effect (if your system requires it) and play a preview. The result is not perfect, but it's close, and it's unlikely an audience will notice the best results. Dealing with inadequate (or nonexistent) head or tail handles If you try to extend
a transition for a clip that doesn't have enough frames as a handle, the transition still appears but has diagonal warning bars through it. This means Premiere Pro is using a freeze frame to extend the duration of the clip. You can adjust the duration and position of the transition to resolve the issue. 1. Open the sequence
called Handles. 2. Locate the edit between the two clips. These two sequence clips have no heads or tails. You can tell this immediately because of the original clip. 3. Select the Ripple Edit tool in the Tools panel, and use it to drag
the right edge of the first clip to the left (begin dragging just to the left (begin dragging just to the left, to close the gap. Notice that
the little triangle at the end (the right edge) of the clip you have just trimmed is no longer present. 4. Drag the Cross Dissolve transition onto the edit point between the two clips. You can drag the transition onto the right side of the edit but not the left. That's because there's no handle available
at the beginning of the second clip to create a dissolve overlapping the end of the first clip without using freeze frames. 5. Press V to select the Select in too select the Select in too select the too in the Tools panel. Click the Cross Dissolve transition effect icon once to select it. You may need to zoom in to make it easier to select
the transition, 6. In the Effect Controls panel, set the duration of the effect to 1:12. The clip handle is not long enough to create this effect Controls panel and in the Timeline panel, indicate a freeze frame has been automatically added to fill the duration you set, 7. Play
the transition to see the result. 8. In the Effect Controls panel, change the alignment of the transition and watch the result. 1. For the first half of the transition (up to the edit point), the B clip is a freeze frame, while the A clip continues to play. 2.
At the edit point, the A clip and the B clip start to play. 3. After the edit, a short freeze frame is used. There are several ways to fix this kind of issue. You can change the duration or timing of the transition effect. Note The Rolling Edit tool lets you move the transition left or right but does not change the overall length of the
sequence because it extends one clip while shortening another. You can use the Rolling Edit tool, accessible by pressing and holding the timing of the transition in the Timeline panel. This won't necessarily remove all the freeze frames, but it may improve the overall
result. Be sure to click the edit between the clips and not the transition effect icon. You can use the Ripple Edit tools in Lesson 8.
ADDING AUDIO TRANSITIONS Audio transitions can dramatically improve a sequence's soundtrack by removing unwanted audio pops or abrupt edits. Audiences are usually much more aware of inconsistency in the soundtrack than they are of the overall quality of the soundtrack, and crossfade transitions can have a
big impact in smoothing variation between clips. Creating a crossfade (as its name implies) transitions audio by using a constant audio gain (volume) adjustment between the clips. Though this transition leads to a slight perceived dip in the
audio level for the listener, some find it useful. It's most useful in situations where you do not want much blending between two clips. Constant Power: This is the default audio transition. It creates a smooth, gradual transition between two audio clips. The Constant
Power crossfade works in a similar way to a video dissolve. The outgoing clip fades out slowly at first and then faster toward the end of the transition. This crossfade is
useful in situations where you want to blend the audio between two clips, without a noticeable drop in level in the middle. Exponential Fade transition creates a fairly smooth fade between clips. It uses a logarithmic curve to fade out and fade up audio. Some editors prefer the Exponential Fade
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transition when performing a single-sided transition (such as fading in a clip from silence at the start or end of a program). Applying audio transition effect just as you would a video transition effect,
but there are also useful shortcuts to speed up the process. Audio transitions have a default duration, measured in seconds or frames. You can change the default duration by choosing Premiere Pro > Preferences > Timeline (macOS) or Edit > Preferences > Timeline (windows). Let's take a look at the three methods for
applying audio transitions. 1. Open the sequence called Audio. The sequence to review the contents. 3. Open the Audio Transitions > Crossfade group in the Effects panel. 4. Drag the Exponential Fade transition to the start of the first audio clip. 5. Navigate to the end of
the sequence. 6. Right-click the right edge of the last clip in the sequence and choose Apply Default Transitions. Note To add only an audio transition, hold Option (macOS) or Alt (Windows) when right-clicking to select only the audio clip. New video and audio transitions are added. The Constant Power transition is added
to the end audio clip as a transition to create a smooth blend as the audio ends. 7. You can change the length of any transition you just created, and then listen to the result. 8. To polish the project, add an opening Cross Dissolve transition effect to
the video clip at the beginning of the sequence. Move the playhead near the beginning, and press Command+D (macOS) or Ctrl+D (Windows) to add the default video transition. You now have a fade from black at the beginning and a fade to black at the end. Now let's add a series of short audio dissolves to smooth out
the sound mix. Note The selection of clips does not have to be contiquous in the Timeline panel. You can Shift-click clips to select individual clips in a sequence. Tip You could choose Apply Audio Transition in the Sequence menu to add transitions exclusively to audio clips, but if you have already chosen audio-only
clips, there's no need, as the default transition option will have the same effect. 9. With the Selection tool, press Option (macOS) or Alt (Windows) and marquee all the audio clips to avoid accidentally selecting items on the video
track. Pressing Option (macOS) or Alt (Windows) lets you temporarily unlink the audio clips from the video clips to isolate the transitions. 10. Press Shift+Ctrl+D (Windows) to apply the default audio transitions to the selection. 11. Play the sequence to see and hear the changes you have
made. Tip To add the default audio transition to an edit point near the playhead, between selected clips, or at selected cut points, press Shift+Ctrl+D (Windows). Track targeting (or clip selection) is used to work out where exactly the effects should be applied. 12. Choose File > Close to
close the current project. Click Yes to save the file if you are prompted. It's common for audio editors to add one- or two-frame audio transitions to every cut in a sequence to avoid jarring pops when an audio clip begins or ends. If you set the default duration for audio transitions to two frames, you can select multiple clips
and then choose Sequence > Apply Audio Transition to quickly smooth your audio mix. REVIEW QUESTIONS 1. How can you apply the default transition effect by name? 3. How do you replace a transition with another one? 4.
Explain three ways to change the duration of a transition. 5. What is an easy way to gradually increase the audio level at the beginning of a clip? REVIEW ANSWERS 1. Select the clips, and choose Sequence > Apply Default Transitions To Selection. 2. Start typing the transition name in the Contains text box in the
Effects panel. As you type, Premiere Pro displays all effects and transitions (audio and video) that have that letter combination anywhere in their names. Type more letters to narrow your search. 3. Drag the replacement transition on top of the transition you're rejecting. The new one automatically replaces the old one
while adopting its timing, 4. Drag the edge of the transition icon in the Timeline, do the same thing in the Effect Controls panel. You can also double-click the transition icon in the Timeline panel and change the Duration value in the dialog
box that appears, 5. Apply an audio-crossfade transition to the beginning of the clip, 8 Mastering Advanced Editing Techniques Lesson, you'll learn how to do the following: Perform a four-point edit. Change the speed or duration of clips in your sequence. Replace a clip in a sequence. Replace
footage in a project. Create a nested sequence. Perform basic trimming on media to refine edits. Apply slip and slide edits to refine your edit. Trim clips dynamically. This lesson will take about 120 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at
www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. In Adobe Premiere Pro, the main editing commands are straightforward to master. More advanced techniques take a little time to learn, but they're
worth it! They'll accelerate your editing and provide the understanding you'll need to produce the highest-level professional results. STARTING THE LESSON In this lesson, you'll use several short sequences to explore advanced editing concepts in Adobe Premiere Pro. The goal is to get hands-on with the techniques
you'll need for advanced editing. 1. Open the project Lesson 08.prproj in the Lessons folder. 2. Save the project as Lesson 08 Working.prproj in the Lessons folder. 3. Choose Editing in the Workspaces panel, or choose Window > Workspaces > Editing. 4. Reset the workspace to the saved version by clicking the Editing
menu in the Workspaces panel, by choosing Window > Workspaces > Reset To Saved Layout, or by double-clicking the Editing workspace name. PERFORMING A FOUR-POINT EDIT In previous lessons, you used the standard technique of three-point editing. You used three In and Out points (split between the Source
Monitor as well as the Program Monitor or Timeline panel) to set the source, duration, and location of an edit. But what happens if you set four points? The short answer is that you have to make a choice. It's likely that the duration you've marked in the Source Monitor differs from the duration you've marked in the
Program Monitor or in the Timeline panel. In this case, when you attempt to perform the edit using a keyboard shortcut or on-screen button, a dialog box warns you to make a decision about what to change. Most often, you'll discard one of the points. Setting editing options for four-
point edits If you perform a four-point edit with mismatched selected durations in the clip and the sequence, the Fit Clip dialog appears to alert you, with options to resolve the issue. You can ignore one of the four points or automatically change the speed of the clip to fit the new duration in the sequence. Change Clip
Speed (Fit To Fill): The first choice assumes that you set four points with different durations deliberately. Premiere Pro preserves the source clip's In and Out points but adjusts its playback speed to match the duration you set in the Timeline panel or in the Program Monitor. This is an excellent choice if you want to
precisely adjust clip playback speed to fill a gap. Ignore Source In Point: The source clip's In point is ignored, converting your edit back to a three-point and no In point in the Source Monitor, the In point is worked out automatically based on the duration set in the Timeline panel or
Program Monitor (or the end of the clip). This option is available only if the source clip is longer than the duration set in the source Monitor, the Out
point is worked out based on the duration set in the Timeline panel or Program Monitor (or the end of the clip). This option is available only if the source clip is longer than the targeted duration. Tip You can choose to set a default behavior when a four-point edit occurs by selecting an option and selecting Always Use This
Choice. If you change your mind, open the Preferences dialog box, click Timeline, and select Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatches. The Fit Clip Dialog Opens For Edit Range Mismatch
duration is taken from the Source Monitor. Ignore Sequence Out Point: The sequence Out point is ignored, making a four-point edit. You'll change the playback speed of a clip to fit a duration set in the sequence.
1. If it's not already open in the Timeline panel, open the sequence 01 Four Point, Play through the sequence to review the content, 2. Locate the section with In and Out points already set. You should see a highlighted range in the Timeline panel, 3. Browse inside the bin called Clips To Load, and open the clip called
Laura 04 in the Source Monitor. Clip In and Out points should already be set on this clip. 4. In the Timeline panel, check that the source V1 positioned next to Timeline Video 1. There's no audio in this source clip, so you just need to check the Source V1. 5. In the Source
Monitor, click the Overwrite button to make the edit. 6. In the Fit Clip dialog box, select the Changing the playback speed (Fit To Fill) option, and click OK. Premiere Pro applies the edit. Note Changing the playback speed of a clip counts as a visual effect. Notice the small fx badge on the clip changes color to indicate an effect has
been applied. 7. Zoom in to the Timeline panel using the Navigator controls at the bottom of the panel until you can see the name and speed information on the Laura 04 clip you just edited into the sequence. The percentage shows the new playback speed. The speed has been adjusted perfectly to fit the new duration.
8. Play the sequence to see the result of your edit and the speed change. The result is not super smooth, but you'll discover ways to improve the result of your edit and the speed adjustments later. CHANGING CLIP PLAYBACK SPEED Slow motion is one of the most commonly used effects in video post-production. It can
be an effective way to add drama or to give the audience more time to experience a moment. You might change the speed of a clip, you will usually achieve smoother playback if the new speed is an even multiple or fraction of the original
clip playback speed. For example, changing a 24 fps clip to play back at 25% speed will result in 6 fps, and this will usually look smoother than if the clip is set to a nonequally divided playback speed, like 27.45%. Sometimes you'll get the best results by changing clip playback speed and then trimming to get a precise
duration. The fit-to-fill edit you just learned about is one way to change clip playback speed, and its results. Also, because fit-to-fill edits can result in precise partial frame rates, they may produce inconsistent motion. One way to
achieve high-quality slow motion is to record at a higher frame rate than your sequence playback frame rate. If you play the video at a slower frame rate is still at least as high as your sequence frame rate. For example, imagine a 10-second
video clip was recorded at 48 frames per second but your sequence is set to 24 frames per second, matching the sequence. Playback will be smooth, with no frame rate conversion when the clip is added to the sequence. However, the clip will be playing at half
its recording frame rate, resulting in 50% slow motion. It will take twice as long to play back, so the clip will now have a 20-second duration. Overcranking because early film cameras were driven by turning a crank handle. The faster the handle was turned, the more frames per
second were captured. Slower turning would capture fewer frames per second. This way, when the film was played back at a regular speed, filmmakers would achieve slow motion or fast motion. Modern cameras often allow recording at faster frame rates to provide excellent quality slow motion in post-production. The
camera assigns a playback frame rate to the clip metadata that might differ from the recorded rate (the system frame rate is used). This means clips may play in slow motion automatically when you import them into Premiere Pro. Use the Interpret Footage dialog box to tell Premiere Pro how to play clips. Let's try this. 1.
Open the sequence 02 Laura In The Snow. Play the clip in the sequence. The clip plays in slow motion for the following reasons: 1. The clip is set to 24 frames per second playback (this was set by the camera). The sequence is configured for 24 frames per second
playback, so it matches the clip playback setting and no conforming is necessary. 2. In the Timeline panel, right-click the clip in the Project panel and choose Reveal In Project. This highlights the clip in the Project panel and choose Reveal In Project. This highlights the clip in the Project panel and choose Reveal In Project. This highlights the clip in the Project panel and choose Reveal In Project.
box to tell Premiere Pro how to play back this clip. 4. Select the Assume This Frame Rate option, and enter 96 in the box. This tells Premiere Pro to play the clip at 96 frames per second (the original recording speed). Click OK. Look back at the Timeline panel. The clip has changed appearance. You have given the clip at
faster frame rate, and with the new playback speed it has a shorter duration. Rather than change the sequence clip duration, which might impact the timing of your edit, diagonal lines indicate the portion of the clip that now has no media. The part of the sequence clip that has no media is now empty. Note If you're using a
system with slow storage, you may need to lower the playback resolution in the Program Monitor to play clips with fast frame rates without dropping frames. 5. Play the sequence again. The clip plays at regular speed because it was originally recorded at 96 frames per second. It's much less smooth—not because there's
anything wrong with the clip but because the original camera recording was bumpy! 6. Drag the Laura 01.mp4 clip onto the sequence close to the first instance, so you can see both versions side by side. The new clip instance is shorter, matching the playback time at the new frame rate. If you were to slow the clip
playback speed to 25%, it would restore the original frames, producing slow motion. Changing clip speed for a clip in two different
ways. You can set the duration of a clip to match a certain time, or you can set the playback speed, it will play back at half-speed; 25% would be one-quarter speed. Premiere Pro allows you to set playback speeds up to two decimal places, so you could
have 27.13% if you wanted. Let's explore this technique. 1. Open the sequence 03 Speed and Duration. Play the sequence and choose Speed/Duration. You can also select the clip in the sequence and choose Clip.
> Speed/Duration. The Clip Speed/Duration dialog box gives you several options for controlling the clip playback speed. 1. If you click the small chain is broken, , you can change the speed or duration settings without them
updating each other. When settings are linked or unlinked in this way, they are described as ganged or unganged. Note If you set a duration that is longer than the available media, based on the playback speed you set, you won't be able to click OK. The button will be dimmed. 2. By default, if there are other clips in the
sequence after this one, shortening the clip will leave a gap. If you make the clip longer than the space available before the next clip to make room for the new duration when you change these settings. If you select the Ripple Edit,
Shifting Trailing Clips option, the clip will make space for itself, pushing other clips later in the sequence. 3. To play a clip backward, select the Reverse Speed option. 4. If a clip has audio, consider selecting the Maintain Audio Pitch check box. This will keep the clip's original pitch at the new speed. With this option
disabled, the pitch will naturally go up or down as the speed changes. Tip The option to maintain audio pitch is more effective for small speed changes; dramatic resampling can produce unnatural sounding results—consider adjusting the audio in Adobe Audition if you need to make a more significant speed change. See
the Adobe Audition Classroom in a Book for audio speed change workflows and more. 3. Make sure Speed and Duration are linked with the clip in the Timeline panel. Notice that the clip is now 10 seconds long. That's because it's playing at 200% speed:
Double the playback speed means half the original duration, 4. Choose Edit > Undo, or press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip on the Timeline, and press Command+R (macOS) or Ctrl+R (Windows), 5. Select the clip of the Ctrl+R (Windows), 5. Select the Ctrl+R (Windows), 5
and Duration settings are unlinked. Then, change Speed to 50%. 7. Click OK; then play the clip. The clip plays back slower, with unlinked duration, so it's the same length on the Timeline. Tip You can change the speed of multiple clips at the same time. To do so, select multiple clips and choose Clip > Speed/Duration.
When you change the speed of multiple clips, be sure to pay attention to the Ripple Edit, Shifting Trailing Clips option. This will automatically close or expand gaps for all the selected clips after the speed change. The clip is now playing at 50% speed, so it should play for twice as long. But because you've turned off the
link between playback speed and duration, the second half has been trimmed to maintain the 20second duration in the sequence. Now try reversing playback. 8. Select the clip, and open the Clip Speed/Duration dialog box again. 9. Leave Speed at 50%, but this time select Reverse Speed; then click OK. 10. Play the
clip. Now it plays in reverse at 50% slow motion. You'll see a negative sign next to the new speed displayed in the sequence. Note Speed changes must always result in a clip duration that is whole frames. The speed may be adjusted automatically, with the precise new speed displayed on the clip, to achieve this
Changing clip speed with the Rate Stretch tool Sometimes you'll have the perfect clip to fill a gap in your sequence—but it is just a little too short or 
content, but the first video clip is too short. You can make a guess and try to make an exact Speed/Duration adjustment, but it's much easier and faster to use the Rate Stretch tool to drag the end of the clip to fill the gap. 2. In the Tools panel, press and hold the Ripple Edit tool to select the Rate Stretch tool . 3. With this
tool. drag the right edge of the first video clip until it reaches the left edge of the second video clip. The speed of the clip is playing more slowly. Tip If you change your mind about a change made with the Rate Stretch tool, you can always use it to stretch a
clip back. Alternatively, you can use the Speed/Duration command and enter a Speed value of 100% to restore the clip to its original speed. 4. Using the same tool, drag the right edge of the third clip until it matches the end of the audio.
The duration of the video now matches that of the music. You may need to zoom in to the Timeline panel to see the new playback speed of a clip. 6. Play the sequence to view the result. Some of the faster action is noticeably jumpy. 7. Press the shortcut key V or click the Selection tool in the Tools panel to select it. 8.
With the Timeline panel active, press Command+A (macOS) or Ctrl+A (Windows) to select all the clips. Note Using Optical Flow to render a new playback speed can produce visual artifacts, particularly with footage that has motion blur as a result of a slow camera shutter speed. Always check the results. 9. Right-click
any clip and choose Time Interpolation > Optical Flow. This smooths playback when changing clip speed. It's a more advanced system for rendering playback speed changes and needs to be rendered before you preview the result. 10. Render and play the seguence to see the result. A great improvement! Optical Flow is
usually worth choosing when adjusting clip playback speed. You can adjust and preview the timing is right, switch to Optical Flow and preview again. Edit timing and playback speed If you change the speed of a clip where
there are other clips placed after it in a sequence, it's going to affect those other clips. You might see: Gaps caused if clips grow shorter because of the Ripple Edit option. Potential audio issues created by changes in speed—including changing pitch. When
making speed or duration changes, check the overall impact on the sequence. REPLACING CLIPS AND MEDIA It's common to swap one sequence clip for another as you try different versions of an edit. This might mean making a global replacement, such as replacing one version of an animated logo with a newer file.
You might also want to swap out one clip in a sequence for another that you have in a bin. Depending on the task at hand, you'll use different approaches. Dragging in a replace edit. Let's try it. 1. Open the 05 Replace
Clip sequence. 2. Play the sequence. On the Video 2 track, clips 2 and 3 are actually the same SHOT4 clip repeated. The clip has motion keyframes applied to make it spin onto the screen and spin off again. You'll learn how to create these kinds of animation effects in Lesson 9, "Putting Clips in Motion." Let's replace
the first instance of the clip SHOT4. You don't want to have to re-create the effects and animation, as these are already set perfectly. This is an ideal scenario for replacing a sequence clip. 3. From the Clips To Load bin, drag the Boat Replacement clip straight from the Project panel over the first instance of the SHOT4
clip in the sequence, but don't release the mouse button yet. It's not necessary to position the pointer precisely; just make sure it's over the clip is longer than the existing clip that you intend to replace. 4. Hold the Option (macOS) or Alt (Windows) key. While you're holding this modifier key,
the replacement clip snaps to fit the length of the clip it's replacing. Just enough of the new clip will be used to replace the existing clip in the sequence. All the picture-in-picture clips have the same effect applied. The
new clip inherits the settings and effects from the clip it replaced. This is a guick and easy way to try different shots in a sequence. Performing a synchronized replace edit When you drag to replace a sequence clip, Premiere Pro synchronizes the first frame (or In point) of the replacement clip with the first visible frame of
the existing clip in the sequence. This is often fine, but what if you need to synchronize a particular moment in the middle of the action, such a hand clap or a door closing? For this, you can use a more advanced type of replace edit and synchronize a particular frame of the replacement clip with a particular frame of the
clip it's replacing. 1. Open the sequence 06 Replace Edit. This is the same sequence you previously fixed, but this time you'll position the playhead in the sequence at approximately 00:00:06:00. The playhead will be the sync point for the edit you are about to perform. 3. Click
the first instance of the SHOT4 clip in the sequence to select it. 4. From the Source Monitor, position the playhead just after the dog turns its head. There's a marker on the clip for guidance. You can click the marker to line up the playhead with it. 6.
Make sure the Timeline panel is active, with the first instance of SHOT4.mov selected, and choose Clip > Replace With Clip > From Source Monitor, Match Frame. The clip is replaced. 7. Play the newly edited sequence to check the edit. The playhead position in the Source Monitor and Program Monitor was
synchronized. The sequence clip duration, effects, and settings are all applied to the replacement clip. This technique can be a huge time-saver when the precise timing of action needs to be matched. Using the Replace Footage feature While a replace edit replaces a clip in a sequence, the Replace Footage feature
replaces footage in the Project panel so that the clip links to a different media file. This can be of great benefit when you need to replace a clip that occurs several times in a sequence or in multiple sequences. You might use this to update an animated logo or a piece of music, for example. When you replace footage in
the Project panel, all instances of the clip you replace are changed anywhere the clip is used. 1. Load the sequence 07 Replace Footage. 2. Play the sequence on the fourth video track with something more interesting. 3. In the Clips To Load bin, click to select the clip DRAGON LOGO.psd in
the Project panel. 4. Choose Clip > Replace Footage, or right-click the clip in the Project panel and choose Replace Footage. 5. Navigate to the Lessons/Assets/Graphics folder, and open the DRAGON LOGO FIX.psd file. Note The Replace Footage command cannot be undone. To switch back to the original clip,
choose Clip > Replace Footage again to navigate to and relink the original file, or choose File > Revert to restore the current project to the last saved version (you'll lose changes made since you last saved). 6. Play the sequence. The graphic has been updated throughout the sequence and project. The clip name in the
Project panel has updated to match the new file. NESTING SEQUENCES A nested sequence with all its clips, graphics,
layers, multiple audio/video tracks, and effects—into another, "master" sequences look and behave like single audio/video clips, but you can edit their contents and see the changes update inside the master sequences. Nesting sequences is quite an advanced workflow, but if you can get to grips with
treating sequences as clips, it can be a powerful addition to your post-production workflow. Nested sequences: Simplify editing by allowing you to create complex sequences in separate parts. This can help you avoid running into conflicts or accidentally moving clips and ruining your edit. Allow you to apply an effect to a
group of clips in a single step. Let you use sequences as source media in multiple other sequences. For example, you can create one intro sequence, it will immediately update in every sequence that it's nested. Allow you to organize your
work in the same way you might create additional bins in the Project panel. Allow you to apply transitions to a group of clips as a single item. In the upper-left corner of the Timeline panel, there's an important button with a rather long name: Insert And Overwrite Seguences As Nests Or Individual Clips. This lets you toggle
between adding the contents of a sequence or nesting it. Adding a nested sequence One reason to use a nest is to reuse an existing edited sequence is to drag a sequence from the Project panel into the appropriate
track or tracks of the currently active sequence in the Timeline panel. You can also drag a sequence into the Source Monitor, add In and Out points, and perform insert and overwrite edits to add a selected section to another sequence. 1. Open the sequence 08 Bike Race, and make sure the option is set to nest
sequences . 2. Set an In point at the start of the sequence . 3. In the Project panel, single-click the sequence 09 Race Open to select it. In the Timeline panel, make sure that source track V1 is patched to (lined up with) the sequence Video 1 track. Make sure the source track A1 is patched to the Audio 1 track. When a
clip or sequence is selected in the Project panel or open in the Source Monitor, its source track indicators appear in the Timeline panel so you can use any method to edit a sequence into another sequence—sequences really do behave just like clips when you nest. On this occasion,
press the Comma (,) key. This performs an insert edit. Because you set an In point in the sequence, it's not important where the Timeline playhead is—the In point will be used for timing. 5. Play the 08 Bike Race sequence to see the result. The 09 Race Open sequence is added as a single clip, even though it contains
multiple video tracks and audio clips. It is now nested. Tip If you want to make a change to the contents of a nested sequence, double-click it, and it will open in a new Timeline panel, in the same panel group as the currently open sequence. 6. Undo that last edit by pressing Command+Z (macOS) or Ctrl+Z (Windows).
7. Turn off sequence nesting . 8. Drag the sequence 09 Race Open from the Project panel into the beginning of the sequence in the Timeline panel while holding Command (macOS) or Ctrl (Windows). This also performs an insert edit. The individual clips in the Race Open sequence are added to the current sequence.
These instances of the clips are not directly connected to the Race Open sequence. Also, the contents of that sequence haven't changed. Using sequences this way allows you to group clips based on their contents and review them in one long stream, before adding them to your main sequence. PERFORMING
REGULAR TRIMMING You can adjust the part of a clip that is used in a sequence in several ways. This process is generally called trimming. When you trim, you can make the selected part of the original clip shorter or longer in the sequence. Some trimming methods affect just one clip, while others can adjust the
relationship between two adjacent clips, or even multiple clips, or even multi
Monitor, you can adjust its In and Out points. The clip will update in the sequence of the available content in the sequence of the available content in the sequence of the available content in the sequence. By default, when you open a sequence of the available content in the available content in the available content in the available content in the available con
two basic ways to change existing In and Out points in the Source Monitor. Add new In and Out points: In the Source Monitor, set new In or Out points in the sequence, before or after the current clip, you cannot extend the In or Out point in that
direction. Drag In and Out points: Position your pointer over an In or Out point in the mini timeline at the bottom of the Source Monitor. The pointer with two-way arrows, indicating that a trim can be performed. Now you can drag left or right to change the In or Out point. Once again, if
the clip has another clip adjacent to it in the sequence, you cannot extend the current clip in that direction. Trimming in a sequence Another, faster way to trim clips is directly in the Timeline panel. Making a single clip shorter or longer is called a regular trim, and it's fairly easy. 1. Open the sequence 10 Regular Trim. 2.
Play the sequence. Tip The keyboard shortcut for the Selection tool is V. The last shot is cut off, and it needs to be extended to match the end of the music. 3. Make sure you have the Selection tool selected. 4. Position the pointer over the right edge of the last video clip in the sequence. The pointer changes into the red
Trim Out pointer with a directional arrow. Precisely hovering the pointer over the end of a clip, you can change between trimming the In point of the next clip (open to the right). In this case, there's no next clip, of course. Note If you make a clip shorter, it will leave a gap
between it and any adjacent clips. Later in this lesson you'll learn to use the Ripple Edit tool to automatically remove gaps or push clips later in a sequence when you trim a clip. This clip has a transition effect applied to the end. You may need to zoom in to make it easier to trim the clip and not adjust the transition effect
5. Drag the edge to the right until it meets the end of the audio file. A tool tip shows you how much you've trimmed. In this instance, the tool tip also shows that the trim has reached the end of the original media, 6. Release the drag to apply the trim. PERFORMING ADVANCED TRIMMING The trimming methods you've
learned so far have their limitations. They can leave gaps in the sequence caused by shortening a clip or prevent you from lengthening a shot if there's an adjacent clip. Fortunately, Premiere Pro offers several more ways to trim. Let's check out ripple edits. Making ripple edits You can avoid introducing gaps when
trimming by using the Ripple Edit tool rather than the Selection tool. Note When performing a ripple edit, you might shift items on all tracks in sync. You can use the Ripple Edit tool to trim a clip in the same way that you use the Selection tool. When you use
the Ripple Edit tool to change the duration of a clip, the adjustment ripples through the sequence. That is, clips after the clip you have trimmed slide to the left to fill the gap, or they slide to the right to make room if the clip gets longer. Tip The keyboard shortcut for the Ripple Edit tool is B. Let's try it. 1. Open the sequence
11 Ripple Edit. 2. In the Tools panel, press and hold the Rate Stretch tool to reveal the tools hidden underneath and select the Ripple Edit tool in the Tools panel. The Rate Stretch tool is usually accessed by pressing and holding the Rolling Edit tool. 3. Hover the Ripple Edit tool pointer over the insideright edge of the
seventh clip (SHOT7) until it turns into a yellow, left-facing bracket and arrow. The shot is too short, so let's add some more footage from the tool tip reads +00:00:01:10. Notice that while you're using the Ripple Edit tool, the Program Monitor displays the last frame
of the clip on the left side of the edit, and the first frame of the clip on the right side. The image updates dynamically while you trim. 5. Release the drag to complete the edit. The clip you have trimmed now has a longer duration, so the clip to its right slides right to make space for it. Play that part of the sequence to see
whether the edit works smoothly. Making ripple edits with keyboard shortcuts Though the Ripple Edit tool gives fine control when trimming, there are two useful keyboard shortcuts to work, the correct
Timeline Track Indicators must be enabled. Whichever tracks are enabled will be trimmed. Position the Timeline playhead over a clip (or multiple layers of clips), and press one of the following shortcuts: 1. Q: Ripple trims clips from their current start to the playhead position. 2. W: Ripple trims clips from their current end to
the playhead position. This can be a fast way to trim clips, particularly in the early stages of editing, when you may simply want to "top and tail" (remove unwanted content at the start or end) your clips. 6. Make another trimming adjustment—add another +2:00 seconds to the end of the SHOT7 clip. Play through the newly
trimmed edit between SHOT7 and SHOT8. This time, the trim has exposed a slight on-camera shake that you'll work on next. Tip You can temporarily use the Selection tool as a Ripple Edit tool by holding Command (macOS) or Ctrl (Windows). Be sure to click to one side of the edit to avoid performing a rolling edit
(described next). Making rolling edits Using the Ripple Edit tool changes the overall length of the sequence. This is because one clip gets shorter or longer while the rest of the sequence moves to close the gap (or moves out of the way). There's another way to change the timing of an edit: a rolling edit, sometimes
referred to as a double-roller or dual-roller or dual-roller trim. With a rolling edit, the overall length of the sequence does not change. Instead, a rolling edit shortens one clip and lengthens another at the same time, adjusting the clips by the same number of frames. For example, if you use the Rolling Edit tool to extend a clip by two
seconds, you will also shorten the adjacent clip by two seconds. 1. Continue working with the sequence 11 Ripple Edit. Tip The keyboard shortcut for the Rolling Edit tool to select the in the Tools panel. 3. Drag the edit point between SHOT7 and SHOT8 (the last
two clips on the Timeline). Use the Program Monitor split screen to find a better-matching edit between the two shots, dragging the edit left to remove the camera shake. Tip Zoom in to the Timeline panel to make more accurate adjustments. Note You can use the Selection tool while holding the Command (macOS) or
Ctrl (Windows) key as a shortcut for the Ripple Edit tool or Rolling Edit tool. Try rolling the edit to the left 1 second and 20 frames (-01:20). You can use the Program Monitor timecode or the pop-up timecode in the Timeline panel to find the edit, and if you pre-position the playhead, the edit will snap to it as you drag. Note
When trimming, it's possible to trim a clip to a 0 (zero) duration (removing it from the Timeline altogether). Making slip edits A slip trim changes the
beginning and end by equal amounts, it doesn't change the duration of your sequence. In this way, it's the same as a rolling trim. Slip trims change only the clip you adjust are not affected. Using the Slip tool to adjust a clip is a little like moving a convevor belt: The visible
perform the slip edit. The two top images are the Out point of SHOT4 and the In point of SHOT6, before and after the clip you are adjusting; these edit points do change. The Slip tool is well worth taking time to
get to grips with. It can be the fastest tool for adjusting timing when cutting action. Making slide edits The Slide tool works by leaving the duration of the previous clip and the In point of the following clip are changed by equal amounts, in opposite directions, It's
another form of dual-roller trim. In a sense, it's the opposite of a slip trim. Because you're changing the other clip durations by an equal number of frames, the length of the sequence doesn't change. 1. Continue working with the sequence 11 Ripple Edit. 2. Click and hold the Slip tool select the Slide tool in the Tools panel
to . The keyboard shortcut for the Slide tool is U. 3. Position the Slide tool over the middle of the second clip in the sequence, SHOT2. 4. Drag the clip left or right. 5. Take a look at the Program Monitor as you perform the slide edit. The two top images are the In point and Out point of SHOT2—the clip you are dragging.
They do not change because you are not changing the selected part of SHOT2. The two larger images are the Out point and In point of the previous and next clips. TRIMMING IN THE PROGRAM MONITOR If you'd like to trim with more
control, you can use the Program Monitor Trim mode. In this mode, both the outgoing and incoming frames of the trim you're working on are displayed, and there are dedicated buttons for making precise adjustments. When the Program Monitor is set to Trim mode, pressing the spacebar to play the sequence loops
playback around the edit you have selected. This means you can continually adjust the timing of an edit and view the result immediately. You can perform three types of trims using the Program Monitor Trim mode controls. You learned about each of these earlier in this lesson. Regular trim: This basic type of trim moves
the edge of the selected clip. This method trims only one side of the edit point. It moves the selected edit point either forward or backward in the sequence, but it doesn't shift any of the other clips. Roll trim: The roll trim moves the tail of one clip and the head of the adjacent clip. It lets you adjust an edit point (provided
there are handles). No gap is created, and the sequence duration doesn't change. Ripple trim: This moves the selected edge of the edit shift to close a gap or make room for a longer clip. Using Trim mode in the Program Monitor When the Program Monitor is in Trim mode, some
of the controls change to make it easier to focus on trimming. To use Trim mode, you need to activate it by selecting an edit point (the left or right end of a clip) on the Timeline with a selection tool or a trimming tool. With the correct Timeline
track indicator enabled, press Shift+T. The playhead will move to the nearest edit point, and the Program Monitor will switch to Trim mode. Tri
dragging a rectangle around them using the Selection tool if you hold Command (macOS) or Ctrl (Windows). When invoked, Trim mode shows the incoming clip (also called B side). Below the frames are five
buttons and two indicators. 1. Out Shift counter: This shows how many frames the Out point for the A side has changed. 2. Trim Backward Many: This performs the selected trim, adjusting by multiple frames earlier. You can change the size of the adjustment in the Large Trim Offset option in the Trim section of the
Preferences dialog box. 3. Trim Backward: This performs the selected trim, adjusting by one frame at a time earlier. 4. Apply Default Transition effect to selected edit points. 5. Trim Forward: This is like Trim Backward except it adjusts the edit one frame later. 6. Trim
Forward Many: This is like Trim Backward Many except it adjusts the edit multiple frames later. 7. In Shift counter: This shows how many frames the In point for the B side has changed. Choosing a trimming method in the Program Monitor You've already learned about the three types of trims you can perform (regular,
roll, and ripple). Using Trim mode in the Program Monitor makes the process easier because it provides rich visual feedback. It also provides of the Timeline panel view scale: Even if the Timeline panel is zoomed a long way out, you'll be able to make frame-accurate trim
adjustments in the Program Monitor Trim view. 1. Open the sequence 12 Trim View. 2. With the Selection tool (keyboard shortcut V), hold down Option (macOS) or Alt (Windows) and doubleclick the video edit between the first video clip and the second video clip in the sequence. Holding this modifier key selects just the
video edits and leaves the audio tracks untouched. 3. In the Program Monitor, hover the pointer over the A and B clip images (but don't click yet). As you move the pointer from left to right, you'll see the tool change from Trim Out (left side) to Roll (center) to Trim In (right). 4. Drag in between both clips in the Program
Monitor to perform a rolling edit trim. Note Clicking the A or B side will switch which side is being trimmed. Clicking in the center will switch to a rolling edit. Adjust the timing until the time display on the lowerright side of the Program Monitor, as an overlay on the B clip image, reads 01:26:59:01. 5. Press the Down Arrow
key three times to jump between edits until you have selected the edit between the third and fourth clips (the cut in the audio track counts as one jump). The first shot plays too long and shows the actor beginning to sit down, which is repeated in the next shot. When dragging in the Program Monitor to trim, the color of the
tool indicates the type of trim you'll perform. Red indicates a regular trim, and yellow indicates a ripple trim. You can quickly change the trim type by holding Command (macOS) or Ctrl (Windows) and clicking one of the images in the Program Monitor. After clicking, you'll need to move the pointer in order for the color of
the tool to update, 6. Now, Command-click (macOS) or Ctrl-click (Windows) one of the images in the Program Monitor until the trim tool, 7. Drag to the left on the outgoing clip (on the left side of the Program Monitor) to make the clip shorter.
Make sure the time display on the left reads 01:54:12:18. 8. Play the edit by pressing the spacebar. Notice that playback loops over the edit to allow you to review it. Modifier keys to make precise selections before trimming. Hold Option (macOS) or Alt (Windows) when selecting clips to
temporarily ignore links between audio and video clip segments in a seguence. Hold Shift to select multiple edit points. You can trim "handle," adjustments will be made when you apply a trim. Combine these two modifier keys to make
advanced clip selections for trimming. Performing dynamic trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will perform will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will be to tune the rhythm of an edit. In many ways, perfecting the trimming work you will be to tune the rhythm of an edit.
to get a feel for the timing of an edit. You can also trim using keyboard shortcuts or buttons while the sequence 12 Trim View. 2. Press the Down Arrow key to move to the next video edit point, between the fourth and fifth video clips. Set the trim type to a
rolling trim. You can stay in Trim mode while switching between edit points, 3. Press the spacebar to loop playback, You'll see a playback loop lasting a few seconds, showing the shot before the cut (pre-roll) and after the cut (pre-roll). This should help you get a feel for the timing of the edit, Note To adjust the pre-roll
and post-roll durations, go to Premiere Pro Preferences and select the Playback category. You can set the duration in seconds most useful. 4. Try adjusting the trim using the methods you've learned while the playback loops. The Trim Forward and Trim Backward
buttons at the bottom of Trim mode view work well and can adjust the edit while the clip plays back. Now let's try using the keyboard for more dynamic control. The same J, K, and L keys you use to control playback can also be used to control trimming, as long as the Program Monitor is in Trim mode. 5. Click Stop or
press the spacebar to stop the playback loop. 6. Press the L key multiple times to trim faster. If you are in Ripple Trim mode, clips will
move to accommodate the new clip duration. These clips are quite short, so you'll reach the end quickly. Let's refine and trim with a little more precision. 7. Press the K key to shuttle left in slow motion. Note Timeline clip segment durations update after you
press K to stop trimming. 9. Release both keys to stop the trim, 10. Exit Trim mode by clicking away from the edit on the Timeline to deselect the edit. Trimming with the keyboard here are some of the most useful keyboard shortcuts to use when trimming. If you have a color-coded keyboard, it's easier to remember which
key is which. MACOS WINDOWS Trim Backward: Trim Backward: Option+Left Arrow Trim Backward Many: Option+Shift+Left Arrow Trim Forward: Trim Forward: Trim Forward: Option+Right Arrow Ctrl+Right Arrow Trim Forward Many: Trim Forward Many: Option+Shift+Left Arrow Trim Forward: Trim Forward: Trim Forward: Option+Right Arrow Trim Forward: Option+Shift+Left Arrow Trim Forward: Trim Forward: Trim Forward: Option+Right Arrow Trim Forw
Option+Shift+Right Arrow Ctrl+Shift+, (comma) Slide Clip Selection Left Slide Clip Selection Left Slide Clip Selection Left Slide Clip Selection Left Slide Clip Selection Slide Clip Selection Slide Clip Selection Left Slide Clip Selection Left Slide Clip Selection Slide Clip Select
Right Five Frames: Right Five Frames: Option+Shift+. (period) Alt+Shift+. (period) Alt+Shift+. (period) Slide Clip Selection Right One Frame: Option+Shift+L Ctrl+Alt+Shift+Left eft
Command+Option+Right Arrow Slip Clip Selection Right One Frame: Ctrl+Alt+Right Arrow REVIEW QUESTIONS 1. If you change the playback speed of a clip to 50%, what effect will this have on the clip duration? 2. Which tool allows you to stretch a sequence clip to change its playback speed? 3. What's the difference
between a slide edit and a slip edit? 4. What is the difference between replacing a sequence clip and replacing footage? REVIEW ANSWERS 1. The clip will be twice as long. Reducing a clip's speed causes the clip to become longer, unless the Speed and Duration parameters are unlinked in the Clip Speed/Duration
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dialog box or the clip is blocked by another clip. 2. The Rate Stretch tool allows you to adjust playback speed as if you were trimming. This is useful when you need to fill a small extra amount of time in a sequence or shorten a clip just a little. 3. You slide a clip over adjacent clips, retaining the selected clip's original In

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and Out points. You slip a clip under adjacent clips (or roll the contents like a conveyor belt), changing the selected clip's In and Out points. 4. Replacing footage replaces a clip in the Project panel with a new source clip. Any
instance of the clip in any sequence in the project is replaced. In both cases, effects that were applied to the clip that is replaced are maintained. 9 Putting Clips in Motion Lesson, you'll learn how to do the following: Adjust the Motion effect for clips. Change clip size and add rotation. Adjust the
anchor point to refine rotation. Work with keyframe interpolation. Enhance motion with shadows and beveled edges. This lesson will take about 75 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more
information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. The Motion effect controls can add movement to a clip. You can animate a graphic or resize and reposition a video clip within the frame. You can animate an object's position using keyframes and
enhance that animation by controlling the way those keyframes are interpreted. STARTING THE LESSON Video projects are often motion graphics-oriented, and it's common to see multiple video clips streaming past
in floating boxes, or you'll see a video clip shrunk down and placed next to an on-camera host. You can create those effects (and many more) using the Motion effect in the Effect Controls panel or using a number of other clip-based effects that offer Motion settings. The Motion effect allows you to position, rotate, or
change the size of a clip within the frame. Some adjustments can be made directly in the Program Monitor. The adjustments you make in the Effect Controls panel relate exclusively to the one clip you have selected and not to the sequence it is in. A keyframe is a special kind of marker that stores settings at a particular
point in time. If you use two (or more) keyframes with different settings, the settings animate over time. You can control the timing of that animation using different types of keyframes. The result is dynamic combinable effects that you can configure to respond to your content, producing unique visuals and helping you tell
compelling stories. ADJUSTING THE MOTION EFFECT Every visual clip in a Premiere Pro sequence automatically has certain effects (also sometimes called intrinsic effects). Motion is the name of one of these effects. To adjust a clip's Motion effect, select the clip in a
sequence and look in the Effect Controls panel. Expand the Motion effect to adjust the settings. Tip Unlike other effect controls, if you expand or collapsed for all clips. The Motion effect allows you to adjust the position, scale, or rotation of a
clip. Let's look at the way this effect has been used to reposition a clip in a sequence. 1. Open Lesson 09.prproj in the Lessons folder. 2. Save the project as Lesson 09 Working.prproj. Tip As you have been saving projects with new names while working on them, you can go back to earlier lessons and experiment again
with a fresh copy of the original project file. 3. Choose Effects in the Workspaces panel, or choose Window > Workspaces > Effects. Reset the workspaces > Effects. Reset the workspace of Floating. This simple sequence has just one clip in it (Gull.mp4). 5. Make sure Fit is chosen from the Select Zoom
Level menu in the Program Monitor. It's important to see the whole composition when setting up visual effects. This menu does not change the contents are viewed. It can be helpful to zoom in or out to see fine details in an image or set up effects, but generally you will want to
keep this menu set to Fit. 6. Play the sequence. This clip's Position, Scale, and Rotation properties have been added, with different settings at various points in time, so the clip animates. Understanding Motion settings Though these controls are called Motion, there's no movement
until you configure it. By default, clips are positioned in the center of the Program Monitor, at their original scale. Select the clip in the sequence now, and then, click the disclosure triangle next to Motion in the Video Effects section of the Effect
Controls panel to display the available settings. Here are the options: Position: This places the clip along the x-axis (horizontal) and y-axis (vertical). The position is calculated based on the position of an anchor point (covered later in this list) measured from the upperleft corner of the clip image. For example, the default
position for a 1280×720 clip would be 640, 360 (the exact center of the image). Scale (Scale Height, when Uniform Scale is deselected): Clips are set to their full original size by default (100%). To shrink a clip, reduce this number. You can scale up to 10,000%—though be warned, scaling up will make images pixelated
and soft. Scale Width: Deselect Uniform Scale to make Scale Width available. This lets you change the clip width and height independently. Rotation: You can enter degrees or a number of rotations. For example, 450 is the
same as 1×90 (one full 360° turn plus an additional 90°). Positive numbers give clockwise rotation, and negative numbers give counterclockwise rotation and position adjustments are all based on the anchor point, which is at the center of a clip by default. This can be changed to any point,
including one of the clip's corners or even a point outside the clip image. Tip The anchor point position can be animated, just like every other Motion control. For example, if you set the anchor point to the corner of the clip, when you adjust the Rotation setting, the clip will rotate around that corner rather than around the
center of the image. If you change the anchor point in relation to the image, you may have to reposition the clip in the frame to compensate for the adjustment. Anti-flicker Filter: This feature is useful for interlaced video clips and for images that contain high detail, such as fine lines, hard edges, or parallel lines (which can
cause moiré effects). These high-detail images can flicker during motion. To add some blurring and reduce flicker, set this to 1.00. Note If the Effect Controls will overlap or be hidden. Resize the panel as necessary before working on effect settings. Let's look closer at the
animated clip, continuing to work with the sequence 01 Floating. 1. Click the clip in the Timeline panel once to make sure it is selected. 2. Make sure the Effect Controls panel is visible. It should have appeared when you reset the Effects workspace, but if you can't find it, look for it in the Window menu. 3. In the Effect
Controls panel, if necessary, expand the Motion effect controls by clicking the disclosure triangle next to the word Motion. 4. Still in the Effect Controls panel, if the integrated timeline is not visible, click the small triangle at the top-right corner of the panel to toggle it open. The timeline in the Effect Controls panel displays
keyframes. 5. Each setting control has its own keyframe arrows to jump between existing keyframe arrows to jump between existing keyframe markers relates to the
animation. Note It can be difficult to line up the playhead with an existing keyframe. Using the Previous/Next Keyframe buttons helps you avoid adding unwanted keyframe. Now that you know how to view the settings for an
existing animation, let's begin by resetting the clip. 7. The Toggle Animation stopwatch button for each setting already has some
keyframes, a warning message lets you know they will be deleted if you continue. Click OK to continue. Note Each control is returned to its default state at the time where your playhead is positioned. This will add a keyframe with a default setting if
animation is enabled for the setting. 9. Turn off keyframes for the Scale and Rotation properties in the same way. 10. Click the curved-arrow Reset Effect button to the right of the Motion effect heading in the Effect Controls panel. Note When the Toggle Animation button is on, clicking the Reset button will not change any
existing keyframes. Instead, a new keyframe will be added with a default setting. It's important to turn off animation before resetting the effect to avoid this. Now the Motion properties are spatial. That means the
changes you make are easy to see because the object will change in size and position. You can adjust these properties by entering numerical values, by using the Scrubbable numbers (drag on the blue numbers), or by dragging the Transform controls. 1. Open the sequence 02 Motion. 2. In the Program Monitor, make
sure the zoom level is set to 25% or 50% (or a zoom amount that allows you to see space around the active frame). Setting the zoom small like this makes it easier to position items outside the frame. Tip You may find it easier to work with the Motion effect in the Program Monitor if you toggle the panel full screen. 3.
Scrub the Timeline panel playhead over the video clip so you can see the contents in the Program Monitor. 4. Click the Motion effect heading in the Effect Controls panel to select it. This highlights the effect heading in
gray. When you select the Motion effect, a bounding box with a crosshair and handles appears around the clip in the Program Monitor, avoiding the crosshair in the center (that's the anchor point). Drag the clip down and to the right so it is partially out of the
frame. Note When positioning items, the upper-left corner of the screen is 0 x-axis and 0 y-axis. All x and y values to the left of or above the upper-left corner are positive. Position values in the Effect Controls panel update as you move the clip. 7. Now
position the clip so that it's centered in the upper-left corner of the screen. Make sure the anchor point crosshair is aligned with the upper-left corner of the frame. Note Several effects, like the Motion effect, allow you to use direct manipulation in the Program Monitor when you select the effect heading. Try this with
Corner Pin. Crop. Mirror, Transform, and Twirl. If you hold Command (macOS) or Ctrl (Windows) while dragging, the clip edges and anchor point is used for position and rotation controls. Be careful not to click the anchor point control, or you'll move it in relation to the
image. Tip Hold Shift while scrubbing numbers, and they'll change ten times faster. Hold Command (macOS) or Ctrl (Windows), and they'll change ten times slower, allowing more precise adjustment. The Position settings in the Effect Controls panel should now be close to 0, 0. You can click the numbers and type 0, 0 in
to exactly position the clip on-screen. This is a 1280×720 sequence, so the position at the lower-right corner of the screen is 1280, 720. The middle of the screen is 1280, 720. The middle of the screen is 640, 360. 8. Click the Reset button for the motion settings to restore the clip to its default position. 9. Scrub the blue number for the Rotation value in the
Effect Controls panel. As you scrub left or right, the control updates and clip rotates. 10. Click the Reset button for the Motion heading in the Effect Controls panel to restore the clip to its default position. CHANGING CLIP POSITION, SIZE, AND ROTATION The Motion effect can combine multiple independent settings
changes. In the next example, you'll build an intro segment for a behind-the-scenes featurette. Changing position Let's begin by using keyframes to animate the position. The picture will begin off- screen and then move fully across the screen
from right to left. 1. Open the sequence 03 Montage. The sequence 03 Montage. The sequence of which have their output switched off. You'll use those tracks, some of which have their output switched off. You'll use those tracks later. 2. Position the Timeline panel playhead at the start. 3. Set the Program Monitor zoom level to Fit. 4. Click once to select the first video clip on track V3. You
might want to make the track taller to see it better. The clip's controls appear in the Effect Controls panel, click the Toggle Animation stopwatch button icon should turn blue for Position (the ). This turns on keyframing for that setting and automatically adds a keyframe at the playhead
position, visible in the Effect Controls panel. The keyframe icon is partially obscured because it's applied to the very first frame of the clip. Now that animation is enabled for Position, whenever you change the setting a keyframe will be added automatically at the playhead position. 6. The Position control has two numbers
As is usual for a Motion control that has two numbers, they are the values for the x-axis and the y-axis, respectively. Enter a Position setting position. The clip moves off-screen to the left, revealing the contents of the V1 and V2 tracks below. Track V2 is empty at
the played position, so you see the clip Map.jpg on V1. 7. Drag the playhead to the last frame of the selected clip (00:00:4:23). You can do this in the Effect Controls panel timeline, the playhead will be on the first frame of the
next clip. Be sure to move the playhead back one frame to line up with the last frame of the current clip. 8. Enter 1920 for the screen. 9. Play the first part of the sequence. The clip moves from off-screen left to off-screen right. The second clip on V3 appears
suddenly. You'll animate this clip and others next. Reusing Motion settings Now that you've applied keyframes and effects from a clip to one or more other clips is as easy as copy and paste. In the following example, you'll apply the left-
to-right floating animation you configured to other clips in the sequence. There are several methods for reusing effects. Let's try one now. 1. In the Timeline panel, make sure the clip you just animated is still selected. It's the first clip on V3. 2. Choose Edit > Copy, or press Command+C (macOS) or Ctrl+C (Windows). The
clip, with its effects and settings, is now temporarily stored on your computer's clipboard. 3. With the Selection tool (V), beginning on the background of the Timeline panel, drag from right to left across the five other clips on the V2 and V3 tracks (you may need to zoom out a little to see all the clips). This selects the clips.
but the selection should not include the first video clip. 4. Choose Edit > Paste Attributes. Note As an alternative to copying a whole clip in the Effect Controls panel. Command-click (macOS) or Ctrl-click (Windows) to select multiple effects,
and choose Edit > Copy. You can then select another clip (or clips) and choose Edit > Paste to paste the effects, with their current settings onto other clips. The Paste Attributes dialog box opens, letting you selectively apply effects and keyframes copied from another clip. 5. Leave the checkboxes with their default
values, and click OK. 6. Play the sequence to see the result. Adding rotation and changing the anchor point Moving clips around the screen can be effective, but you can really bring things to life by combining animated properties. Let's start with Rotation. The Rotation property revolves a clip around its anchor point. By
default, the anchor point is in the center of the clip image. However, you can change the relationship between the anchor point and the image for more interesting animation. Let's add some rotation to a clip. 1. In the Timeline panel, click the Toggle Track Output button for V6 to enable it. The clip on the track is a title
graphic that reads Behind the Scenes. This clip is a title graphic created in Premiere Pro, using vector-based design tools. This means it can be scaled to any size and will always look sharp, with smooth curves and no pixelation. Vector graphics work the same way as non-vector graphics; you can use the same controls,
effects, and adjustments. 2. Move the playhead to the start of the graphic clip (00:00:01:13). Try holding the Shift key while you scrub on the Effect Controls appear in the Effect Controls panel. Because this is a vector graphic, there are two
types of Motion effects available. 1. Graphics—Vector Motion: Treats the contents of the graphic as vectors, allowing you to scale up the image and retain clean lines without pixelation. 2. Video—Motion: Treats the contents of the graphic as pixels. When you scale up, the pixels will increase in size, producing jagged
edges and softening the image. Believe it or not, there may be a time that you want to achieve exactly this effect. In the Effect Controls panel. This graphic has just one layer, and you can see it under the Vector Motion effect. 4. In the
Effect Controls panel, select the Vector Motion effect heading (not the regular Motion effect) to see the anchor point, a small circle with a cross in the center of the title. Let's adjust the Rotation property in the Effect Controls panel
and see the effect it has. 5. Click the disclosure triangle to reveal the Vector Motion effect controls, and enter a value of 90.0 into the Rotation field. The title rotates in the center of the screen. 6. Choose Edit > Undo. 7. Make sure the Vector Motion settings heading is still selected in the Effect Controls panel. 8. In the
Program Monitor, drag the anchor point until the crosshair sits in the upper-left corner of the letter B in the first word. The Position property and Anchor point in relation to the clip image. 2. The Position
settings in the Effect Controls panel control the location of the anchor point in relation to the sequence frame. Now that you have moved the anchor point in the Effect Controls panel. Note The position settings update automatically when you
reposition the anchor point in the Program Monitor. If you change the Anchor Point property in the Effect Controls panel, you will need to adjust the Position property separately. 9. In the Vector Motion effect settings, click the Animation stopwatch button for Rotation to toggle on animation. This adds a keyframe
automatically. 10. Set the rotation to 90.0. This updates the keyframe you just added. 11. Move the playhead forward to 00:00:06:00, and click the reset button for the Rotation property (returning it to 0.0). This adds another keyframe automatically. 12. Play the sequence to see your animation. Changing clip size There
are a few approaches to changing the size of items in a sequence. By default, items added to a sequence frame size, you can manually adjust the clip size or let Premiere Pro do it for you automatically: Adjust the Scale property of
the Video > Motion effect or Graphics > Vector Motion effect in the Effect Controls panel. Right-click the clip in the sequence and choose Set To Frame Size. This automatically adjusts the Scale property of the Video > Motion effect to fit the clip in the frame. The Scale property remains fully adjustable. Right-click the clip
in the sequence and choose Scale To Frame Size. This has a similar result to the Set To Frame Size option, but Premiere Pro resamples the image at the new (often lower) resolution. If you scale back up now using the Motion > Scale setting, the image might look soft, even if the original clip was very high resolution.
You can also select Scale To Frame Size or Set To Frame Size automatically by choosing Premiere Pro > Preferences > Media > Default Media Scaling (Windows). The setting is applied to assets as you import them (but won't change assets you have
already imported). For maximum flexibility, use the first or second method so you can scale as required without sacrificing quality. Let's try this. 1. Open the sequence to view the clips. The second and third clips on the V1 track are much larger than the first clip. In fact, your
system may struggle to play such high-resolution clips without dropping frames. They are dramatically cropped by the edge of the frame. Move the Timeline playhead over the last clip in the sequence on the V1 track. 3. Right-click the clip and choose Scale To Frame Size. This conveniently scales the image to fit the
sequence resolution, resampling the image at the sequence resolution. However, there's an issue: The clip is full 4K, with a resolution of 4096×2160, and that is not a perfect 16:9 image. It doesn't fit the aspect ratio of the sequence, and black bars are introduced at the top and bottom of the image. These bars are often
called letterboxing. This is a common outcome when working with content that has a different aspect ratio than your sequence, and there is no easy way around it. You'll need to make a manual adjustment. 4. Right-click the clip again and select Scale To Frame Size again to deselect it. This is an option you can turn off
and on at any time. 5. Right-click the clip and choose Set To Frame Size. This seems to achieve the same result, but now the change has been achieved by modifying a property—and you can modify it a little more. 6. With the clip selected, open the Effect Controls panel. Use the Scale setting to adjust the clip's image
size until it fits the sequence frame without showing letterboxing; a setting of 34% should work. You can choose any framing and adjust the Position settings to reframe the shot if necessary. When clip and sequence aspect ratios don't match, you'll have to choose between letterboxing, cropping, and changing the aspect
ratio of the image by deselecting the Uniform Scale option in the Effect Controls panel, Note The settings in the Effect Controls panel don't indicate if they are pixels, percentages, or degrees. This can take a little getting used to, but you'll find with experience the controls for each setting do make sense. Animating clip
size changes In the previous example, the clip image has a different aspect ratio compared to the sequence. Let's try another example and animate the adjustment. 1. Position the Timeline playhead over the first frame of the second clip in the 04 Scale sequence, at 00:00:05:00. This clip is 3840×2160-pixel ultra-high
definition (UHD), which is the same image aspect ratio (shape) as the sequence, which is 1280×720 (16:9). It's also the same aspect ratio as full HD, at 1920×1080. This makes shooting UHD content convenient if you intend to include it in an HD production. 2. Select the clip and look in the Effect Controls panel. The
scale setting is 100%. 3. Right-click the clip in the Timeline panel and choose Set To Frame Size. The clip scales down to 33.3% and 100% and maintain guality, while still filling the frame, 4. Turn on keyframing for Scale by clicking the Toggle
Animation stopwatch button for Scale in the Effect Controls panel. 5. Position the playhead over the last frame of the clip never scales
to more than 100%, it maintains full quality. This clip includes motion, and it already looks like the ground is coming up to meet the camera. 8. Try reversing the timing of the keyframe sets Scale to 33.3%. The result is reminiscent of the famous Dolly
Zoom effect. 9. Use the Undo command to restore the timing, with the clip starting at 33.3% and animating to 100%. It's safe to experiment with effect configuration because you can always undo to restore a recent setup. 10. Turn on the Track Output option for the V2 track. This track has an adjustment layer clip on it
Adjustment layers apply effects to all footage on lower video tracks, 11. Select the Adjustment Layer clip to display its settings in the Effect Controls panel, A Brightness & Contrast effect has been added, You'll learn more about adjustment layers in Lesson 12. "Adding Video Effects." 12. Play the seguence. You may
need to render the sequence to see smooth playback because some of the clips are high resolution and will take a lot of computer processing power to play. To render the sequence > Render In To Out. WORKING WITH KEYFRAME INTERPOLATION
Throughout this lesson you've been using keyframes to define your animation. The term keyframe originates from traditional animation, where the lead artist would draw the key frames (or major poses) and then assistant animators would animate the frames in between. When animating in Premiere Pro, you're the master
animator, and the computer does the rest of the work as it interpolates values in between the keyframes you set. Using different keyframes is their interpolation method. This is a fancy way of describing the particular way to get from point
A to point B. Premiere Pro has five interpolation methods. Changing the method can create a very different animation. You can access all the available interpolation methods by right-clicking a keyframe icon to see the options (some effects have both spatial and temporal options). Linear: This is the default method of
keyframe interpolation. It gives a uniform rate of change between keyframe, the rate of change switches instantly to the rate between it and the third keyframe, and so on. This can be effective,
and even "snappy," but it can also look a little mechanical. Bezier: This gives the most control over keyframe interpolation. Bezier keyframe interpolation. Bezier keyframes (named after the French engineer Pierre Bézier) provide manual handles you can adjust to change the shape of the value graph or motion path on either side of the keyframe. By
dragging the Bezier handles that appear when the keyframe is selected, you can create smooth curved adjustments or sharp angles. For example, you could have an object move smoothly to a position onscreen and then sharply take off in another direction. Tip If you are familiar with Adobe Illustrator or Adobe
Photoshop, you will recognize Bezier handles; they work the same way in Premiere Pro. Auto Bezier keyframes. Continuous Bezier: This
option is similar to the Auto Bezier option, but it provides some manual control. The motion or value path will always have smooth transitions, but you can adjust the shape of the Bezier curve on both sides of the keyframe with a control handle. Hold: This is available only for temporal (timebased) properties. Hold-style
keyframes hold their value across time, without a gradual transition. This is useful if you want to create staccato-type movements or make an object suddenly disappear. When the Hold style is used, the value of the first keyframe will hold until the next hold keyframe is encountered, and then the value will change
instantly. Temporal vs. spatial interpolation Some properties and effects offer a choice of temporal and spatial interpolation methods for transitioning between keyframes. You'll find that all properties have temporal controls (which relate to time). Some properties also offer spatial interpolation (which refers to space or
movement). Here's what you need to know about each method: Temporal interpolation: Temporal interpolation deals with changes in time. It's an effective way to determine the speed at which an object moves. For example, you can add acceleration and deceleration with a special kind of keyframe called Bezier. Spatial
interpolation: The spatial method deals with changes in an object akes across the screen. That path is called a motion path, and there are ways to display it in the Program Monitor. Does an object create hard angular ricochets as it moves from one
keyframe to the next, or does it have a more sloping movement with round corners? You can choose, using spatial interpolation. Adding Ease to Motion A quick way to add a feeling of inertia to clip motion is to use a keyframe and
choosing Ease In or Ease Out. Ease In is used for approaching a keyframe, and Ease Out is used when leaving a keyframe. Continue working with the 04 Scale sequence. 2. In the Effect Controls panel, locate the Rotation and Scale properties. 3. Click the disclosure icon
next to the Scale property, and select the Scale property, and select the Scale property heading to select the Scale keyframes and reveal the controls panel to make room for the extra controls. Don't be overwhelmed by the next numbers and graphs. Once you
understand one of these controls, you'll understand them all because they use a common design. The graph makes it easier to view the effects of keyframe interpolation. A straight line means a steady speed without acceleration. 4. Click the background of the Effect Controls panel to deselect the keyframes, and then
right-click the first Scale keyframe (level with the Scale heading) and choose Ease Out. The keyframe is partially obscured by the left edge of the mini-timeline. 5. Right-click the second Scale keyframe and choose Ease In. The graph now shows a curved line, which translates as a gradual acceleration and deceleration
of the animation. 6. Play the sequence to see your animation. 7. Experiment by dragging the blue Bezier handles in the Effect Controls panel to see their effects on speed and ramping. The steeper the curve you create, the more sharply the animation's movement or speed increases. After experimenting, you can choose
Edit > Undo repeatedly if you don't like the changes. APPLYING THE AUTO REFRAME EFFECT Once upon a time... all screens were 4×3. Then they settled eventually on 16×9, as the standard delivery aspect ratio for television shows and online video distribution platforms
today. This is sometimes written as 1.78:1. Theatrical cinema releases tend to be wider, with the two standard aspect ratios being 1.85:1 and 2.39:1. It's common for major film studios to produce multiple versions of a film with different aspect ratios and color standards, intended for several traditional video distribution
standards. Still, these are usually close to 16×9 or 4×3. With the development of popular social media platforms, in particular on smartphones, demand for dramatically different aspect ratios has returned. To help you repurpose sequences, Premiere Pro has an Auto Reframe workflow. You can largely automate the
process of converting a finished sequence from one aspect ratio to another. The stand-out feature of this workflow is that the visuals in your clips are analyzed, and then keyframes are added to clip Motion properties to automatically keep points of interest—such as faces—on-screen. You will want to check and adjust
results, but this can be a huge time-saver if you intend to deliver your content on multiple platforms, Try it now: 1. Open the sequence 05 Auto Reframe, 2. Play the sequence of clips that don't fit in the
frame. If you were to nest this sequence in another sequence and manually add keyframes to reframe the content, it would take guite some time. 3. With the Timeline panel active or the sequence selected in the Project panel, choose Sequence > Auto Reframe Sequence to open the dialog box of the same name. When
you click Create, a new separate sequence will be created based on the choices you make in the Auto Reframe Sequence name: Give the new sequence a name. By default, the new aspect ratio is added to the original name. 2.
Aspect Ratio: Specify a new aspect ratio. You can repeat this process and produce multiple sequences with different aspect ratios. 3. Motion Preset: Set the number of keyframes that will be used to follow the motion in the sequence. For slower, smoother movements choose Slower Motion, and for faster action choose
Faster Motion. 4. Clip Nesting: Choose whether or not to nest clips. There can be only one Motion effect on each clip, and if you have motion keyframes on your clips already, they will be replaced in the new sequence unless you choose to nest the clips. If you do nest your clips, however, you'll lose transition effects
between them. 4. Leave the settings at their defaults, and click Create. Premiere Pro performs visual analysis of the sequence appears in the Project panel, inside a new bin called Auto Reframed Sequences, and opens in the Timeline panel. 5. Play the sequence to review the results of the
reframing. 6. Select the first clip in the Timeline panel, and look in the Effect Controls panel. Position keyframes have been added—all editable—and the Auto Reframe effect to change the Motion preset and re-analyze the content. ADDING A DROP SHADOW Premiere Pro
offers a number of effects to control motion. Although the Motion effect is the most immediately accessible, you may find yourself wanting more. The Transform and Basic 3D effects are also useful and give more control over an object (including 3D rotation). Adding a drop shadow A drop shadow creates perspective by
adding a small shadow behind an object. This is often used to help create a sense of separation between foreground and background elements. Try adding a drop shadow, 1. Open the seguence 06 Enhance, 2. Make sure the Program Monitor zoom level is set to Fit, 3. In the Effects panel, browse into Video Effects >
Perspective. 4. Drag the Drop Shadow effect onto the Journey to New York Title clip on the V3 track. 5. Experiment with the Drop Shadow settings in the Effect Controls panel. You may need to scroll down to see them. When you have finished experimenting, choose the following settings: 1. Darken the shadow by
changing Opacity to 85%. 2. Drag the Direction value to about 320° to see the shadow's angle change. 3. Set Distance to 15 so the shadow is further offset from the clip. 4. Set Softness to 25 to soften the edges of the shadow. Generally, the greater the Distance setting, the more softness you should apply. 6. Play the
sequence to view the result. Adding motion with the Transform effect An alternative to the Motion effect settings is the Transform effect, These two effects offer similar controls, but there are two key differences. The Transform effect processes changes to a clip's Anchor Point, Position, Scale, and Opacity settings in the
stack with other effects, unlike the Motion settings. This means effects such as drop shadows and bevels can behave differently (usually more correctly). The Transform effect includes Skew, Skew Axis, and Shuttle Angle settings to allow a visual angular transformation to clips. Let's compare the two effects: 1. Open the
sequence 07 Motion and Transform, 2. Play the sequence to familiarize vourself with it. There are two sections in the sequence, Each has a picture-in-picture (PIP), rotating twice over a background clip, while moving from left to right, Look carefully at the position of the shadow on each pair of clips, 1. In the first example
the shadow follows the bottom edge of the PIP and appears on all four sides of the clip as it rotates, which obviously isn't realistic because the light source producing the shadow wouldn't be moving. 2. In the second example, the shadow stays on the lower right of the PIP, which is more realistic. 3. Click the first clip on
the V2 track, and view the effects applied in the Effect Controls panel: the Motion effect and the Drop Shadow effect, 4. Now click the second clip on the V2 track. The Transform effect is producing the motion this time, with the Drop Shadow effect again producing the shadow. The Transform effect has many of the same
options as the Motion effect, with the addition of Skew, Skew Axis, and Shutter Angle, As you can see, the Drop Shadow effect than when it's used with the Motion effect alone because of the order in which the effects are applied; the Motion effect is
always applied after other effects. Note When applying the Transform effect, deselect Use Composition's Shutter Angle of 180 to match many modern camera systems. Manipulating clips in 3D space with Basic 3D Another
option for creating movement is the Basic 3D effect, which can manipulate a clip in 3D space. It allows you to rotate the image around horizontal and vertical axes as well as move it toward or away from you. You'll also find an option to enable a specular highlight, which creates the appearance of light reflecting off the
rotating surface. Let's explore the effect: 1. Open the sequence 08 Basic 3D. 2. Drag the playhead over the sequence in the Timeline panel (scrub) to view the contents. The light comes from above, you won't see the
effect until the image is tilted backward to catch the reflection. Specular highlights of this kind can be used to enhance the realism of a 3D effect. 1. Swivel: This controls the rotation around the vertical y-axis. If you rotate past 90°, you'll see the back of the image,
which is a mirror of the front. 2. Tilt: This controls the rotation around a horizontal x-axis. If you rotate beyond 90°, the back will be visible. 3. Distance To Image: This moves the image along the z-axis to simulate depth. As the distance value gets larger, the image moves farther away. 4. Specular Highlight: This adds a
alint of light that reflects off the surface of the rotated image, as though an overhead light were shining on the surface. This options. Note that the Draw Preview Wireframe option applies only when working in Software Only mode (without GPU acceleration enabled
a clip in the frame? 2. You want a clip to appear full screen for a few seconds and then spin away. How do you make the Motion effect's Rotation feature start within a clip to appear full screen for a few seconds and then spin away. How do you make the Motion effect's Rotation feature start within a clip to appear full screen for a few seconds and then spin away. How do you make the Motion effect's Rotation feature start within a clip to appear full screen for a few seconds and then spin away.
a clip, why might you choose to use a different motion-related effect rather than the Motion effect? REVIEW ANSWERS 1. The Motion effect can be animated. 2. Position the playhead where you want the rotation to begin, and click the Add/Remove
Keyframe button or the stopwatch icon. Then move to where you want the spinning to end and change the Rotation parameter; another keyframe interpolation to be gradual rather than sudden. 4. The Motion effect is the last effect applied to a
clip. Motion takes whatever effects you apply before it (including Drop Shadow) and spins the entire assemblage as a single unit. To create a realistic drop shadow on a spinning object, use Transform or Basic 3D and then place a Drop Shadow effect below that in the Effect Controls panel. 10 Editing and Mixing Audio
Lesson overview In this lesson, you'll learn how to do the following: Work in the Audio workspace. Understand audio characteristics. Adjust clip audio Clip Mixer. This lesson will take about 90 minutes to complete. To get the
lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. Until now, our focus has been primarily on working with visuals.
No doubt about it, the pictures count, but professional editors tend to agree that sound is at least as important as the images on the screen—sometimes more important as the images on the screen important as the images of the screen important as the screen import
Consider the difference it makes if you turn the sound off when watching a horror movie. Without an ominous soundtrack, scenes that were scary a moment ago can seem like comedy. Music works around many of our critical faculties and directly influences our feelings. Your body will react to sound whether you want it
to or not. For example, it's normal for your heart rate to be influenced by the beat of the music you're listening to. Fast music tends to record perfect on-camera audio that's ready for output without any adjustments, but Premiere
Pro enables you to do many things to improve your audio mix. For instance, you can: Interpret recorded as stereo can be interpreted as separate mono tracks. Clean up background sound. Whether it's system hum from
your recording equipment or the sound of an airconditioning unit, Premiere Pro has tools for adjustments made, and tuning your audio. Adjust the volume level on clips in the Project panel and on clip segments in seguences. The adjustments made
to clips in sequences can vary over time to create a dynamic sound mix. Add music, and then mix levels between music clips and dialogue clips. This can be performed automatically or manually. Add audio spot effects, such as explosions, door slams, or atmospheric environmental sounds. In this lesson, you'll begin by
learning how to use the audio tools in Premiere Pro, and then you'll make adjustments to clips and a sequence. You'll also use the Audio Clip Mixer to make changes to your volume "on the fly" while your sequence plays. SETTING UP THE INTERFACE TO WORK WITH AUDIO Let's begin by switching to the Audio
workspace. 1. Open Lesson 10.prproj in the Lessons folder. 2. Save the project as Lesson 10 Workspace name and click Yes in the Confirm Workspace Reset dialog box. This is a convenient shortcut to reset the workspace to the
original saved layout. Working in the Audio workspace You'll recognize most of the components of the Audio workspace from the video-editing workspace from the Audio Clip Mixer is displayed in place of the Source Monitor. The Source Monitor is still there; it's just hidden right
now, grouped with the Audio Clip Mixer. Clip adjustments and track adjustments are combined for final output. So, if you reduce a clip's audio level by -3 dB, you'll have a total drop of -6 dB. You can apply clip-based audio effects and modify their settings in the Effect Controls
panel. In fact, adjustments made using the Audio Clip Mixer appear in the Effect Controls panel, along with any other adjustments. Track-based audio adjustments and effects are applied before track-based
adjustments and effects. The order in which adjustments are applied can have a big impact on results, especially when working with effects, so it's important to pay attention to. You can modify the Timeline panel track headers and add an audio meter for each track, along with trackbased level and pan controls. This is
useful when mixing audio as it helps you locate the sources of audio levels you might want to adjust. Let's try this: Tip You will have noticed that these projects have different bin structures and are organized in different ways. There is no one correct way to organize your project. Try a few options to find a system that
works best for your editing style. 1. If it's not open already, open the Theft Unexpected sequence in the Master Sequences bin. 2. Open the Timeline Display Settings menu choose Customize Audio Header, and
click OK. When you clicked OK, however, the audio track headers returned to their previous size, so you may need to resize an audio header vertically and horizontally to see the new meter. Now every audio track will have a small built-in audio meter. There are two audio mixer panels in Premiere Pro. Let's look at the
differences between the two. Audio Clip Mixer: This provides controls to adjust the audio level and pan of sequence, you can make adjustments, and Premiere Pro will add keyframes to clips as the playhead moves over them. Audio Track Mixer: This adjusts audio level and pan on tracks
rather than clips. The controls are similar, but the Audio Track Mixer offers more advanced mixing options. You may need to scroll down to view the controls if the Effects And Sends section at the top of the panel has been expanded (it will be discussed in Chapter 11, "Improving Audio"). Configuring the audio master
track Sequences have settings that are similar to media files. For example, sequences have a frame rate, frame size, and pixel aspect ratio. The Audio Master setting that are similar to media files. For example, sequences have a frame rate, frame size, and pixel aspect ratio. The Audio Master setting that are similar to media files. For example, sequences have a frame rate, frame size, and pixel aspect ratio. The Audio Master setting defines the number of audio channels the sequences have a frame rate, frame size, and pixel aspect ratio.
sequence using the option to automatically match sequence settings, the sequence audio mastering setting will be the audio format for the New Sequence dialog box, under Audio. Stereo has two audio channels: Left and
Right. This is the most common option for delivered content. 5.1 has six audio channels: Middle, Front-Left, Front-Left, Front-Left, Rear-Left, Rear-Left,
audio channels vou can choose. This option is most commonly used for advanced multichannel broadcast television workflows, particularly multilingual delivery. Mono has one audio channel, which is useful for web video if you want to minimize file size. You can change most seguence settings at any time, but not the
Audio Master setting. With the exception of multichannel sequences, you cannot change the number of channels that your sequence will output. You decide to change your audio mastering setting, you can copy and paste clips from a sequence with one mastering
setting to a seguence with a different setting. What is an audio channel? It's common to think that Left and Right audio channels designated as Left or Right. When recording sound, it's the standard configuration to have Audio
Channel 1 as Left and Audio Channel 2 as Right. What makes Audio Channel 1 Left is only the following: It's recorded from a microphone pointing left. It's interpreted as Left in Premiere Pro. It outputs to a speaker positioned on the left. Otherwise, it's a single mono audio channel. If you perform the same recording from
a microphone pointing right (but with Audio Channel 2), then you have stereo audio. They are, in fact, two mono separate audio channels. Using the audio meters when previewing a clip in the Source Monitor or Project panel, the audio meters display the level for each audio channel in the clip separately. When
previewing a sequence, the audio meters display the audio meters will give you the overall mix output volume for your sequence. If the audio meters are not already displayed, you will find them in the Window menu. If
the audio meters are too narrow, you can resize the panel. If you make the meters wide enough, the audio level will be displayed horizontally. There is a Solo button at the bottom of each audio meter. This allows you to exclusively hear the selected channel (or multiple channels). If the Solo buttons are displayed as
small circles, drag the edge of the panel a little to make the meters wider. Larger Solo buttons will be displayed. Note The Solo buttons are not displayed when using the mono audio mastering option. If you right-click the audio meters, you can choose a different display scale. The default is a range from 0 dB to -60 dB,
which clearly shows the main information about the audio level you'll want to see. You can also choose between static and dynamic peaks. When you get a loud "spike" in audio levels that makes you glance at the meters, the sound is usually gone by the time you look. With static peaks, the highest peak is marked and
maintained in the meters so you can see what the loudest level was during playback. You can click the audio meters to reset the peak level will continually update; keep watching to check the levels. About audio level The scale displayed on the audio meters is decibels, denoted by dB. The
decibel scale is a little unusual in that the highest volume is designated as 0 dB. Lower volumes become larger and larger negative numbers until they reach negative numbers until they reach negative infinity. If a recorded sound is too quiet, it might get lost in the background noise. Background noise might be environmental, such as an air-conditioning
system making a hum. It also might be system noise, such as the quiet hiss you hear from speakers when no sound is playing. When you decrease the overall volume, background noise gets quieter. This means it's often better to
record audio at a higher level than you need (while avoiding such high levels that the audio distorts) and then reduce the volume later to remove (or at least reduce) the background noise. Depending on your audio hardware, you may have a bigger or smaller signal-to-noise ratio; that's the difference between the sound
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you want to hear (the signal) and the sound you don't want to hear (the background noise). Signal-to-noise ratio is often described as SNR, also measured in dB. Viewing samples Let's look at an individual audio sample. 1. In the Project panel, open the Music bin, and doubleclick the clip Graceful Tenure - Patrick
Cannell.mp3 to open it in the Source Monitor. Because this clip has no video, Premiere Pro automatically displays the waveforms for the two audio channels. At the bottom of the Source Monitor, the time ruler represents the total duration of the Source Monitor. Because this clip has no video, Premiere Pro automatically displays the waveforms for the two audio channels.
Numbers. The time ruler now shows timecode indicators. Try zooming in to the time ruler (drag the handles all the way together). The maximum zoom shows you an individual frame. 3. Open the Source Monitor Settings menu again, and choose Show Audio Time Units. Note
The audio sample rate is the number of times per second the recorded sound source is sampled. It's common for professional camera audio to take a sample 48,000 times per second. This time, you'll see individual audio samples counted on the time ruler. You can zoom in to an individual audio sample—in this case,
one 44,100th of a second, the sample rate of this audio! The Timeline panel has the same option to view audio samples in the panel menu (rather than the Time Ruler Numbers and Show Audio Time Units options. Showing
audio waveforms When you use the waveform display option in the Source Monitor, you'll see an extra navigator zoom control at the bottom of the panel. You can resize the vertical navigator to view the
waveforms larger or smaller, which is particularly useful when navigating quiet audio. Note Viewing an audio waveform is helpful if you are trying to locate specific dialogue and you are trying to locate specific dialogue and you are trying to locate specific dialogue and you are not as concerned about the video portion of the footage. You can choose to display audio waveforms for any clip that has audio by
choosing Audio Waveform from the Source Monitor Settings menu. If a clip has video as well as audio, the video will be displayed in the Source Monitor by default. You can switch to viewing the audio waveform by clicking the Drag Audio Only button. Let's look at some waveforms. 1. Open the clip HS John from the
Theft Unexpected bin. 2. Open the Source Monitor Settings menu, and choose Audio Waveform. You can easily see where the dialogue begins and out marks are shown as a highlighted region on the waveform. Notice also, you can click the waveform to move the Source Monitor playhead.
3. Switch back to viewing the composite video using the Source Monitor Settings menu. You can also turn off and on the display of waveforms for clip segments on the Timeline, 4. The sequence Theft Unexpected should already be open in the Timeline panel. If not, open it from the Master Sequences bin. 5. Open the
Timeline Display Settings menu, and make sure the Show Audio Waveform option is enabled. 6. Resize the Audio 1 track to make sure the waveform is fully visible. Notice that two audio channels are displayed in each audio clip in this sequence: The clips have stereo audio. The audio waveform on these clips looks a
little different from the waveform in the Source Monitor. That's because, by default, the Timeline panel displays Rectified audio waveforms, which make it easier to see lower-volume audio, like the dialogue in this scene. You can switch between Rectified and regular audio waveforms. 7. Open the Timeline panel menu
(not the Settings menu), and choose Rectified Audio Waveforms to deselect it. The regular waveform display works well for louder audio, but notice the quieter parts of the speech; it's harder to follow the level changes, 8. Open the Timeline panel menu, and restore the Rectified Audio Waveforms option. Working with
standard audio tracks In a sequence, the standard audio track type can accommodate both mono audio clips and stereo audio clips. The controls panel, the Audio Track Mixer work with both kinds of media. If you're working with a combination of mono and stereo clips,
you'll find it more convenient to use the standard track type than the traditional separate mono or stereo tracks. Monitoring audio You can choose which sequence audio channels you hear when monitoring. Let's try this with a sequence. 1. Open the Desert Montage sequence from the Master Sequences bin, 2. Play the
sequence, and while you do, try clicking each of the Solo buttons at the bottom of the audio meters. When you select a Solo button, you'll hear only the channels to hear a specific combination—though in this example it wouldn't help much, as you have only two channels to
choose between. Soloing is useful if you're working with audio where the sound from different microphones is recorded location sound. The number of channels and associated Solo buttons you'll see when previewing a seguence depends on
your current seguence audio master setting. You can also use the track header Mute button Solo button or for specific audio tracks, it impacts the final output from your seguence, so be sure to turn off soloing before exporting. EXAMINING AUDIO CHARACTERISTICS
When you open a clip in the Source Monitor and view the waveform, you're seeing each channel displayed. The taller the waveform is, the louder the audio for that channel will be. In a sense, you're seeing a plot graph over time showing the strength of the air pressure wave during any given sample. Three factors affect
the way audio sounds to your ears. Consider them in terms of a television speaker. Frequency: This refers to how fast the surface of the speaker beats the air per second is measured as Hertz (Hz). Human hearing
ranges from approximately 20 Hz to 20,000 Hz. Many factors, including age, affect the frequency range you can hear. The higher the perceived tone. Amplitude: This is how far the speaker surface moves. The bigger the movement, the louder the sound will be because it produces a higher air
pressure wave, carrying more energy to your ears. Phase: This is the precise timing with which the surface of the speaker moves out and in. If two speakers push out air and pull in air in sync, they are considered "in phase." If they move out of sync, they become "out of phase," and this can produce problems with sound
reproduction. One speaker can reduce the air pressure at exactly the moment the other speaker is attempting to increase it. The result is that you may not hear parts of the sound is generated, but, of course, the
same rules apply to all sound sources. What are audio characteristics? When the surface of a speaker moves, it creates a high- and low-pressure wave that moves through the air until it arrives at your ears in much the way that surface ripples move across a pond. As the pressure wave hits your ears, it makes a tiny part
of it move, and that movement is converted into energy that is passed to your brain and interpreted as sound. This happens with extraordinary precision, and because you have two ears, your brain does an impressive job of balancing the two sets of sound information to produce an overall sense of what you can hear.
Much of the way you hear is active, not passive. That is, your brain is constantly filtering out sounds it decides are irrelevant and identifying patterns so you can focus your attention on things that matter. For example, you have probably had the experience of being at a party where the general hubbub of conversation
sounds like a wall of noise until someone across the room mentions your name. You perhaps didn't realize your brain was listening to the person standing next to you. There's a body of research on this subject that broadly falls under the title
psychoacoustics. For these exercises, we'll be focusing on the mechanics of sound more than on the psychology, though it's a fascinating subject worthy of further study. Recording equipment makes no such subtle discrimination, which is part of the reason why it's so important to listen to location sound with headphones
and to take care to get the best possible recorded sound. It's usual practice to try to record location sound with no background noise at all. The background noise at all all the backgroun
OVER TRACK If you have a microphone set up, you can record audio directly into a sequence using the Audio Track Mixer or a special Voice-over Record button on each audio track header. To record audio in this way, check that your Audio Hardware preferences are set so that the microphone you want to use is
chosen as the input. You can check your audio hardware input and output settings by choosing Premiere Pro > Preferences > Audio Hardware (Windows). Let's use the Timeline panel Voice-over Record button: 1. Open the Voice Over seguence in the Master Seguences
bin. This is a simple sequence with visuals only; you'll add the voice-over. 2. Take a look at the header for the A1 track. You should already be able to see the Voice-over Record button . 3. Mute your speakers or put on headphones. This way you can avoid getting microphone feedback when you record the voice-over. 4.
Position the playhead at the beginning of the sequence, and click the Voice-over Record button for the A1 track. After the Program Monitor gives a short countdown, you can begin Describe the shots that you are recording,
and the audio meter shows the input level. 5. When you're finished recording, press the spacebar or click the Voice-over Record button to stop. The new audio appears in the Following example, audio was recorded onto a stereo track, so two
audio channels were recorded. If this were a mono track, only one channel would be recorded. A new audio file is created in the location as your project file. If you have a studio microphone and sound booth, you can use this
technique to record professional quality audio directly into the Timeline panel. Or, you could use the built-in microphone on a laptop to record a quide-track voice-over while on your way back from a shoot. That voice-over can form the basis for an outline edit, saving significant time later. ADJUSTING AUDIO VOLUME
There are several ways to adjust the volume of clips, and they are all nondestructive. Changes you make don't affect your original wersion. Adjusting audio in the Effect Controls panel Earlier, you used the Effect Controls panel to make adjustments
to the scale and position of clips in a sequence. You can also use the Effect Controls panel to adjust volume, 1. Open the Excuse Me sequence with two clips in it (if the second clip isn't visible, scroll to the right a bit in the Timeline panel). In fact, it's the same
clip added to the sequence twice. One version has been interpreted as stereo, and the other has been interpreted as having separate mono channels. For more on clip interpreted as having separate mono channels. For more on clip interpreted as having separate mono channels. For more on clip interpreted as having separate mono channels.
expand the Volume, Channel Volume, and Panner controls. Each control gives the right options for the selected clip. 2. Channel Volume adjust the audio level for individual channels in the selected clip.
3. Panner gives you overall stereo left/right output balance control for the selected clip. The keyframe to a setting and use it to apply an adjustment, the
adjustment will apply to the whole clip. 4. Position the Timeline playhead somewhere over the first clip where you choose if you intend to make only one adjustment). 5. Click the Timeline Display Settings menu, and make sure Show Audio
Keyframes is selected. 6. Increase the height of the Audio 1 track so you can see the waveform and the special thin white line for adding keyframes, often referred to as a rubber band. 7. In the Effect Controls panel, scrub left on the blue Level number that sets the volume. Set it to around -25dB. Note The rubber band
uses the entire height of the audio clip to adjust the volume. Premiere Pro adds a keyframe, and the rubber band in the Timeline panel moves down, indicating the reduced volume. The difference is subtle, but as you become more familiar with the Premiere Pro interface, it'll stand out more and more clearly. 8. Now
select the second version of the Excuse Me clip in the sequence. You'll notice there are similar controls available in the Effect Controls panel, but now there is no Channel volume option. This is because each channel is its own clip segment, so the Volume control for each channel is already an individual one. The
Balance control has now become a Pan control. This has a similar purpose but is suited to mono audio channels, which do not need to balance with other audio channels in the same clip. 9. Experiment with adjusting the volume for these two independent clips, and listen to the results. Adjusting audio gain Most music is
created with the loudest possible signal to maximize the difference between the signal and the background noise. This is usually much too loud to use in most video sequences. To address this issue, you can adjust the clip's audio gain. This method works in a similar way to the adjustment you made in the previous
exercise but is applied to the clip in the Project panel, so any parts of the clip you use in any sequence will already include the adjustment. You can apply audio gain adjustments to multiple clips in a single step, both in the Project panel and in the Timeline panel. 1. Double-click the clip Graceful Tenure - Patrick
Cannell.mp3 from the Music bin to open it in the Source Monitor. You may need to adjust the zoom level on the Source Monitor to see the waveform. 2. Right-click the clip in the Project panel and choose Audio Gain, or select the clip and press G. The Audio Gain dialog box contains two important options that you should
learn about now. 1. Set Gain To: Use this option to specify a particular adjustment for your clip. 2. Adjust Gain By: Use this option to specify an incremental adjustment for your clip. For example, if you apply -3 dB, this will adjust the Set Gain To amount to -3 dB. If you go into this menu a second time and apply another
-3 dB adjustment, the Set Gain To amount will change to −6 dB, and so on. 3. Select the Set Gain To option, set the gain to −12 dB, and click OK. Right away, you'll see the waveform change in the Source Monitor. Note None of the changes you make to the gain or volume of your clips will change the original media
files. You can make a change to the overall gain here, in the bin, or in the Effect Controls panel, in addition to any changes you make using the Effect Controls panel, and your original media files will remain unmodified. Changes like this, where you are adjusting the audio gain in the bin, will not update clips already edited into
a sequence. However, you can right-click one or more clips in a sequence and choose Audio Gain, or select the clip and press G, and make the same kind of adjustment to the clip gain. The difference is
that normalization is based on automated analysis rather than a manual adjustment. When you normalize a clip, Premiere Pro analyzes the audio. The gain for the clip is then adjusted automatically so that the highest peak matches a level
you specify. You can adjust the volume for multiple clips this way so that they match any peak volume you like. Imagine working with multiple clips of a voice-over, recorded over several days. Perhaps because of different recording setups, different microphones, or different voices, several clips might have different
volumes. You can select all the clips and, in a single step, have Premiere Pro automatically set their volumes to match. This saves significant time you might have spent manually going through each clip, one by one, to make adjustments. Let's normalize some clips: 1. Open the Journey to New York sequence from the
Master Sequences bin. Note You may need to adjust the track size to see the audio waveforms. Do this by dragging the divider between the level on the audio meters. The voice level varies quite a lot, with clip one noticeably quieter than the third and fourth clips.
3. Select all the voice-over clips in the sequence on Track A1. To do so, you can lasso them or make an item-by-item selection. 4. Right-click any of the selected clips and choose Audio Gain, or press the G key. 5. You'll normally choose a peak level for audio based on your overall intended mix. For these clips, select
Normalize All Peaks To, enter -8 dB, and click OK. Tip You can also apply normalization to clips in the bin before you add them to a sequence, Just select all the clips you want to automatically adjust, go to the Clip menu, and choose Audio Options > Audio Gain, or you can select the clips and press the G key, 6. Listen
again. The music adds to the overall level displayed in the audio meters, making it difficult to assess the voice-over level. Sending audio to Adobe Audition, which is a dedicated audio post-production
application. Audition is a component of Adobe Creative Cloud. It integrates neatly into your workflow when editing with Premiere Pro. You can send a complete sequence to Adobe Audition, bringing all your clips and a video file based on your sequence, to produce an audio mix that follows along with the pictures.
Audition can even open a Premiere Pro .pproj project file natively and convert sequences into multitrack sessions for advanced audio finishing. If you have Audition installed, you can send a sequence to it by following these steps: 1. Open the sequence you want to send to Adobe Audition. 2. Choose Edit > Edit In Adobe
Audition > Sequence, 3. You'll be creating new files to work with in Adobe Audition to keep your original media safe, so choose a name and browse for a location, then choose the remaining options as you prefer, and finally click OK. 4. In the Video menu, you can choose Send Through Dynamic Link to view the video
part of your Premiere Pro sequence live in Audition. Adobe Audition. Adobe Audition has fantastic tools for working with sound. It has a special spectral display that helps you identify and controls. It's also easy to send an individual clip to
Audition for editing, effects, and adjustment features. To send an audio clip to Audition, right-click the clip in your Premiere Pro duplicates the audio clip, replaces the current sequence clip with the duplicate, and opens the duplicate in Audition, ready to
work on it. From now on, every time you save changes you have made to the clip in Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they'll automatically update in Premiere Pro. For more information about Adobe Audition, they are also a premier and the premiere Pro. For more information about Adobe Audition, they are also a premier and the prem
track. 8. Listen again. Every selected clip is adjusted so that the loudest peaks are at -8 dB. Notice that the peaks of the clip waveforms now reach approximately the same level. If you choose the Normalize Max Peak To option, rather than the Normalize All Peaks To option, gain adjustments are made based on the
loudest moment of all the clips combined, as if they were all one clip. The same amount of adjustment will be applied to every clip, maintaining the relative levels of all the clips. 9. Click the Solo option for the Audio 1 track to disable it. AUTO-DUCK MUSIC One of the most common tasks when working on an audio mix is
reducing music level during sections of speech. If there's a voice-over track, for example, you may want the music to get quieter when information is being shared and then quickly become the dominant element in the mix again. This is the way radio DJs speak over music, with the music automatically getting quieter
when the DJ speaks. The technique is called ducking. You can manually add audio keyframes to achieve ducking (and you'll explore this technique later), but there's an automated way to do it too, with the Essential Sound panel. You'll learn about the Essential Sound panel in more detail in Lesson 11, "Improving Audio."
Still, this is a guick and easy workflow that saves time when creating your mix, and it's worth learning right away. 1. Continue working in the Journey to New York sequence. Make sure all the voice-over clips on the Audio 1 track are selected. 2. In the Essential Sound panel, click the Dialogue button to assign the dialogue
audio type to the selected clips. Assigning the dialogue audio type gives access to tools and controls that are relevant to dialogue. 3. Resize the Audio 2 track so you can see the music clip's audio waveform clearly. Select the clip, and in the Essential Sound panel select the Music audio type, 4. In the Essential Sound
panel, select the box to enable Ducking, and take a look at the options. 1. Duck Against: There are multiple types of audio will trigger automatic ducking. 2. Sensitivity; The higher the sensitivity, the lower the audio level necessary to trigger ducking. 3. Duck
Amount: The amount the music level will be reduced by, measured in dB. 4. Fades: The slower the fade setting, the longer it will take for the music to get guieter and then louder again, 5. Generate Keyframes: Click this button to apply the settings and add keyframes to the music clip, 5. Choosing the right settings for
audio ducking is a science and an art, and the type of audio you are working with will influence the choices you make. Experimentation is the key. For this audio, choose these settings: 1. Duck Against: Dialogue Clips should already be selected (it's the default). 2. Sensitivity: 6.0 3. Duck Amount: -8.0 dB 4. Fades: 500
ms 6. Click Generate Keyframes. Keyframes are added to an Amplify effect that the ducking feature automatically applies to the music clip. The effect Controls panel. 7. Play the seguence to listen to the result. It's not perfect, but it's closer to a finished mix. You can adjust the settings
and click the Generate Keyframes button repeatedly to remove and replace existing keyframes, making it easy to experiment. You can also manually adjust the keyframes at any time. CREATING A SPLIT EDIT A split edit is a simple, classic editing
technique that offsets the cut point for audio and video. The audio from one clip is played with the visuals from another, carrying the feeling of one scene into another, carrying the feeling of one scene into another, carrying the feeling of one scene into another. Adding a J-cut The J-cut gets its name from the shape of the edit. Picture the letter J over an edit. The lower part (the audio cut) is to the left of the upper
part (the video cut), 1. Open the Theft Unexpected sequence, 2. Play the last cut in the sequence. The join in the audio between the last two clips is rather abrupt. You may need to turn up your speaker volume to hear the join, You'll improve things by adjusting the timing of the audio cut, 3. Select the Rolling Edit tool.
accessible by clicking and holding the Ripple Edit tool icon. Tip With the default Premiere Pro preferences, you can use the Selection tool to apply a rolling edit if you hold Command (macOS) or Ctrl (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows), 4. Press and hold Option (macOS) or Alt (Windows),
the audio segment edit between the last two clips (not the video) a little to the left, in a single motion. Congratulations! You've created a J-cut! Tip For more information on keyboard shortcuts, see "Using and setting keyboard shortcuts" in Lesson 1, "Touring Adobe Premiere Pro." 5. Play through the edit. You might want
to experiment with the timing to make the cut seem more natural, but for practical purposes the J-cut works. You could also smooth it over and improve it further with an audio crossfade later, 6. Switch back to the Selection tool (V), Adding an L-cut works in the same way as a J-cut but in reverse, Repeat the
steps, but drag the audio segment edit a little to the right while holding Option (macOS) or Alt (Windows). Play through the edit and see what you think. ADJUSTING AUDIO LEVELS FOR A CLIP As well as adjusting clip gain, you can use the rubber band to change the volume of clips in a seguence. You can also change
the volume for tracks. These two volume adjustments combine to produce an overall output level. If anything, using rubber bands to adjust ments at any time, with immediate visual feedback. The result of adjusting the rubber bands
on a clip is the same as adjusting the volume using the Effect Controls panel. In fact, one control automatically updates the other. Adjusting overall clip levels Let's try adjusting the Volume using the Effect Controls panel. In fact, one control automatically updates the other. Adjusting overall clip levels Let's try adjusting the Volume using the Effect Controls panel. In fact, one control automatically updates the other. Adjusting overall clip levels Let's try adjusting the Volume using the Effect Controls panel. In fact, one control automatically updates the other. Adjusting overall clip levels Let's try adjusting the Volume using the Effect Controls panel. In fact, one control automatically updates the other. Adjusting overall clip levels Let's try adjusting the Volume using the Effect Controls panel. In fact, one control automatically updates the other.
the beginning and end. Let's adjust the volume between those fades. 2. Use the Selection tool to drag the bottom of the A1 track header down, or hold Option (macOS) or Alt (Windows) and hover the pointer over the track header while you scroll to make the track taller. This will make it easier to apply fine adjustments to
the volume. 3. The middle part of the music is a little too loud. Drag the middle part of the rubber band on the clip down a little. As you drag, a tool tip appears, displaying the amount of adjustment you are making. 4. Each time you make an adjustment of this kind, the only way to review the result is to play the audio. Try
this now, and if you are not happy with the result, you can adjust the level and review the result again. Because you're dragging a segment of the rubber band rather than a keyframes, you're adjusting the overall level for the clip between the two existing keyframes. If the clip did not have existing keyframes, you're dragging a segment of the rubber band rather than a keyframe, you're adjusting the overall level for the clip between the two existing keyframes. If the clip did not have existing keyframes, you're dragging a segment of the rubber band rather than a keyframe.
adjusting the overall level for the entire length of the clip. Changing clip volume with keyboard shortcuts If the Timeline playhead is over a clip, you can also raise and lower clip volume using keyboard shortcuts. The result is the same, although you won't see the tool tip informing you about the amount of adjustment.
These are particularly convenient shortcuts for quick, precise audio level adjustments: Use the [key to decrease clip volume by 1 dB. Use Shift + [to decrease clip volume by 6 dB. Use Shift + ] to increase clip volume by 6 dB. If your keyboard does not have square bracket
keys, choose Premiere Pro > Keyboard Shortcuts (macOS) or Edit > Keyboard Shortcuts (Windows) to set alternative keys. Keyframing volume changes You can use the Selection tool to adjust existing audio keyframes added to sequence clips in the same way that you might adjust visual keyframes. If you drag a
keyframe up, the audio will get louder; drag a keyframe down to make the audio guieter. Tip If you adjust the clip audio gain, Premiere Pro combines the effect with the keyframe adjustments dynamically. You can change either at any time. The Pen tool adds keyframes to rubber bands. You can also use it to adjust
existing keyframes or to lasso multiple keyframes to adjust them as a group. You don't need to use the Pen tool, though. If you want to add a keyframe using the selection tool, though. If you want to add a keyframe using the position of keyframes up or
down on audio clip segments is that the rubber band is reshaped. Just as before, the higher the rubber band, the louder the sound. Add a few keyframes now, with dramatic level adjustments to the music, and listen to the results. Go crazy with the keyframes so the adjustments are clear, and then play the sequence to
hear the results. Smoothing volume between keyframes The adjustments you just made are probably pretty overwhelming. You might want to smooth the adjustments you just made are probably pretty overwhelming. You might want to smooth the adjustments. To do so, right-click any of the keyframes. You'll see a range of standard options, including Ease In, Ease Out, and Delete. If you use the Pen tool, you
can lasso multiple keyframes and then right-click any one of them to apply a change to them all. The best way to learn about the different kinds of keyframes is to select each kind, make some adjustments, and see or listen to the results. Using clip vs. track keyframes Until now, you've made all your keyframe
adjustments to sequence clip segments. When working with the Audio Clip Mixer, as you will in a moment, all adjustments are made directly to clips in the current sequence. There are similar controls for the audio tracks those clips are placed on. Track-based keyframes work in the same way as the clip-based ones. The
difference is that they don't move with the clips. This means you can set up keyframes for your addition level using track controls and then try different music clips. Each time you put new music into your seguence, you'll hear it via the adjustments you have made to your track. As you develop your editing skills with
Premiere Pro and create more complex audio mixes, explore the flexibility offered by combining clip and track keyframe adjustments. Working with the Audio Clip Mixer The Audio Clip Mixer provides intuitive controls to add and adjust clip volume and pan keyframes over time. Each sequence audio track is represented
by a set of controls. Though the controls are organized by track names, the adjustments you make will be applied to clips (not tracks). You can enable an option to write keyframes to clips during playback when dragging a fader or adjusting a pan control. What's a
fader? Faders are industry-standard controls based on real-world audio-mixing decks. You move the fader up to increase the volume. Let's try this: 1. Continue working with the Desert Montage seguence. Make sure the Audio 1 track is set to show audio keyframes, using the
Timeline Display Settings menu. 2. Open the Audio Clip Mixer (not the Audio Track Mixer), and play the seguence from the beginning. Because you already added keyframes to this clip, the Audio Clip Mixer fader moves up and down during playback. 3. Position the Timeline playhead at the beginning of the seguence
again. In the Audio Clip Mixer, enable the Write Keyframes button in the fader for Audio 1, 4. Play the sequence, and while it plays, make some really dramatic adjustments to the Audio 1 fader. Keyframes appear after you stop playback, 5. If you repeat the process, you'll notice that the fader follows existing keyframes
until you make a manual adjustment. When you use the fader control to add keyframes, a lot of keyframes are added. By default, a keyframe is added with every adjustment. However, you can set a minimum time gap for keyframes to make them more manageable. 6. Choose Premiere Pro > Preferences > Audio
(macOS) or Edit > Preferences > Audio (Windows). Select Minimum Time Interval Thinning and set a minimum time of 500 milliseconds (half a second is relatively slow, but it provides a balance between precise adjustment and keyframe overload). Click OK. 7. Set the playhead to the beginning of the sequence, and,
once again, use the Audio Clip Mixer to add level keyframes using the fader control. Tip You can adjust audio pan in the same way as you would adjust volume using the Audio Clip Mixer: Enable keyframing, play your seguence, and make adjustments using the Audio Clip Mixer Pan control. The result is a much more
orderly adjustment. Even with dramatic adjustments, the smaller number of keyframes is much more manageable. You can adjust keyframes that were created using the Selection tool or the Pen tool. The difference between Pan and Balance Mono and
stereo audio clips have different panner controls to set the level for each output when producing a stereo or 5.1 surround audio sequence, this allows you to distribute the single audio channel between the left or right side of the mix. Stereo audio clips have a
Balance control, which adjusts the relative levels of the left and right channels in the clip. The controls displayed vary depending on your sequence audio mastering setting and the audio configuration of each clip you select. You have now explored several ways to add and adjust keyframes in Premiere Pro. There's no
right or wrong way to work with keyframes; it's entirely a matter of personal preference or the needs of a particular project. Tip There are keyboard Shortcuts dialog box. The fundamental building block of animation, whether it's
visual effects or audio, is the keyframe. Experiment and practice to make sure you feel truly comfortable with the concept and application of keyframes, and it will help with your developing understanding of postproduction effects. REVIEW OUESTIONS 1. How can you isolate an individual seguence audio channel to hear
only that channel? 2. What is the difference between mono and stereo audio? 3. How can you view the waveforms for a clip that has audio in the Source Monitor? 4. What is the difference between a J-cut and an L-cut? 6. Which option in the Audio Clip Mixer
must be enabled before you can use the fader controls to add keyframes to sequence clips during playback? REVIEW ANSWERS 1. Use the Solo buttons at the bottom of the audio meters or in the track headers to selectively hear an audio channel. 2. Stereo audio has two audio channels, and mono audio has one. It's
the universal standard to record audio from a Left microphone as Channel 1 and audio from a Right microphone as Channel 2 when recording stereo sound. 3. Use the Settings menu on the Source Monitor to choose Audio Waveform. You can also click the Drag Audio Only button at the bottom of the Source Monitor.
Clips in a sequence can display waveforms in the Timeline panel, 4. Normalization automatically adjusts the Gain setting for a clip based on the original peak amplitude. You use the Gain setting for a clip based on the original peak amplitude.
described as "audio leads video"). With Lcuts, the sound from the previous clip remains until after the visuals begin (sometimes option for each track you would like to add keyframes to. 11 Improving Audio Lesson overview In this lesson, you'll learn how to
do the following: Work with the Essential Sound panel. Improve the sound of speech. Clean up noisy audio. This lesson will take about 75 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information,
see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. Audio effects in Premiere Pro can dramatically change the power of integration with Adobe Audition. In this lesson,
you'll learn some guick, easy ways to improve the guality of your sound mix. STARTING THE LESSON You'll find many audio effects in Adobe Premiere Pro. These effects can be used to change pitch, create an echo, add reverb, and remove tape hiss. You can set keyframes for effects and adjust their settings over
time, 1. Open the project Lesson 11, prproj. 2. Save the project as Lesson 11 Working, prproj. 3. In the Workspaces panel, click Audio, Then open the menu adjacent to the Audio option and choose Reset To Saved Layout, or double-click the Workspace panel name and click Yes in the Confirm Workspace Reset dialog
box to reset the layout. IMPROVING AUDIO WITH THE ESSENTIAL SOUND PANEL Video production rarely produces perfect audio. You'll need to use audio effects in post-production to fix a few problems and improve the quality of the sound, particularly for vocals, because audiences are acutely sensitive to issues
with the sound of a human voice. Not all audio hardware plays all audio
flaw in your playback hardware as you adjust the sound. Professional audiomonitoring hardware is carefully calibrated to ensure that you'll produce a consistent sound for your listeners. It can be helpful to listen to your audio on low-quality speakers
too. This allows you to confirm that enough of the audio is clear and that low-frequency sound doesn't cause distortion. Premiere Pro offers a variety of helpful effects, including the following, all of which are available in the Effects panel: Parametric Equalizer: This allows you to make subtle and precise adjustments to the
audio level at particular frequencies. Studio Reverb: This can increase the "presence" in the recording using reverb. For example, it can simulate the sound of a larger room. Delay: This effect can add a slight (or pronounced) echo to your audio. Bass: This effect can adjust the low-end frequencies of a clip. It works well
on narration clips, particularly for male voices. Treble: This effect adjusts the higher-range frequencies in an audio clip. Note Expand your knowledge of audio effects in Premiere Pro by experimenting. These effects are nondestructive, which means they do not change your original audio files. You can add any number of
effects to a clip, change settings, and then delete them and start again. Apply effects by dragging them from the Effects onto edits earlier. Select a clip to find its effect controls in the Effect Controls panel. There are many presets to help you get a feel for the ways you
can use effects. You can remove an effect in the Effect Controls panel by selecting it and pressing Delete. Use the 01 Effects seguence have a range of audio to make it easy to hear the results of your adjustments. This lesson focuses on the Essential Sound
Sound panel has a comprehensive list of features to help you work with dialogue audio. To use the Essential Sound panel, select a tag that corresponds to the type of audio in the clip. Selecting each tag displays different tools that are suitable for that type of media. There are
more options for dialogue audio than any other—and for good reason! Your dialogue sound is probably the most important, and music, prepared special effects (SFX), and ambient sound files are often already mixed and ready to use. Every adjustment you apply with the Essential Sound panel actually adds one or more
audio effects to your selected clips and modifies the settings for those effects. This is an excellent shortcut to achieving great results with simplified controls. You can always select a clip and adjust the detailed effect settings in the Effect Controls panel. In the following exercises, you'll try several of the adjustments
available in the Essential Sound panel. All of the options you set can be stored as a preset, accessible at the top of the Essential Sound panel. If you expect to use some settings often, for a lot of the clips in your project, consider creating a preset. You can apply a preset without first assigning the audio type. To create a
preset, select an audio type, apply some settings, and click the Save Settings As A Preset button at the top of the Essential Sound panel. Presets are not fixed—you can apply one and make changes to the settings and even create a new preset based on the adjustments you have made. Setting loudness The Essential
Sound panel makes it easy to set the audio level for multiple clips to an appropriate volume for broadcast television. Let's try this. 1. Open the sequence you worked with previously when learning about normalization. 2. Increase the height of the Audio 1 track, and zoom in a little so you
can see the voice-over clips clearly. About the Loudness scale Until recently, audio level has been described exclusively in decibels (dB). You'll find the decibel scale a useful reference all throughout production and post-production as it is still commonly used. Peak level (the loudest moment of a clip's audio level) is often
used to set limits for audio level. Although it's a useful reference, it doesn't account for the soundtrack, and it's common to produce a mix that sets every part of the soundtrack, and it's common to produce a mix that sets every part of the soundtrack, and it's common to produce a mix that sets every part of the soundtrack, and it's common to produce a mix that sets every part of the soundtrack, and it's common to produce a mix that sets every part of the soundtrack louder than is natural, for dramatic effect. A whisper, for example, can sound as loud as a shout. As long as the peak level of
the audio is within prescribed limits, it might be allowed for broadcast television. This is why so many television commercials sound as loud as they do—even the quiet sections of the soundtrack are loud. The Loudness limit
is used, it's okay for content to have loud sections, but overall the total amount of energy in the soundtrack can't rise above the level set. This forces content to have loud sections, you will almost certainly use the Loudness scale when
assessing your audio mix, and this is the scale used in the Essential Sound panel. 3. Play the sequence to hear the different levels for the voice-over clips. 4. Select all the voice-over clips in the sequence. 5. In the Essential Sound
panel, click the Dialogue button. This assigns the Dialogue audio type to these clips, 6. If necessary, click the title of the Loudness options, Clicking a category in this way is a little like clicking a disclosure triangle in the Effect Controls panel—options are displayed or hidden when you
click. 7. Click Auto-Match. Each clip is analyzed, and Audio Gain is automatically adjusted to achieve the -23 LUFS standard level for broadcast television dialogue. LUFS stand
another audio level. You can adjust the level for multiple selected clips, after using Auto-Match, using the Volume control at the bottom of the Essential Sound panel. As with normalization, which also adjusts clip gain, this adjustment updates the waveforms for the clips. 8. Play the sequence to hear the adjustment.
Repairing audio However hard you try to capture clean audio on location, it's likely some of your footage will have unwanted background noise. The Essential Sound panel has a number of ways to clean up dialogue clips. Take a look at the Repair category to reveal the options for repairing dialogue. Reduce Noise:
Reduce the level of unwanted noises in the background, like the sound of an airconditioning unit, rustling clothes, or background hiss. Reduce Rumble: Reduce lectrical interference hum. In North and South America, this is in the
60 Hz range, while in Europe, Asia, and Africa, it's in the 50 Hz range. If your microphone cable was lying next to a power cable, you may have this intrusive but easy-to-remove unwanted sound. DeEss: Reduce harsh, high-frequency "ess"-like sounds common in the sibilance part of voice recordings. Reduce Reverb:
When recording in an environment with a lot of reflective surfaces, some of the sound may be reflected back to the microphone as reverb. This can be reduced to make vocals clearer. Different clips are likely to benefit from one or more of these cleanup features, and often you will use a combination. The default settings
have high enough intensity to make it clear when a repair is enabled or disabled. In most cases, you will obtain the best results by starting with a setting of 0, playing the audio, and increasing the effect intensity until you are happy with the result, minimizing potential distortion. Let's try cleaning up some power hum. Tip
You can turn the display of audio and video clip names on and off by choosing the appropriate options from the Timeline Display Settings menu. 1. Open the sequence to listen to the voice-over. This is a simple sequence, with voice-over accompanying some visuals. There's a
loud electrical interference power hum in the audio. If you can't hear the hum, your speakers may not be able to reproduce audio at sufficiently low frequencies—try listening with headphones. 3. Select the voice-over clip in the sequence. The clip has already been designated as dialogue, so the dialogue audio options
are displayed in the Essential Sound panel. 4. If it's not already open, click the Repair heading in the Essential Sound panel to display the options. Enable DeHum by selecting the check box. 5. Play the sequence to hear the difference. The impact is significant! The electrical interference hum was loud but at a specific
frequency, which makes removing it relatively straightforward. This example clip has 60 Hz hum, so the default option doesn't work, try switching to 50 Hz. After adjusting the DeHum control, check the start of the clip. You may discover a tiny amount of hum remains before the
repair is applied. To remove this, add a short crossfade at the beginning of the clip. Tip For more challenging audio cleanup, where the repair options in Premiere Pro don't give you a result that is clean enough, try Adobe Audition, which has advanced noise reduction features. Learn more in Adobe Audition Classroom in
a Book, 2nd edition. Reducing noise and reverb In addition to specific types of background noise like hum and rumble. Premiere Pro offers advanced noise and reverb reduction tools. These audio cleanup effects have simple controls in the Essential Sound panel and more advanced options when accessed via the
Effect Controls panel. Reducing noise Let's try reducing noise first. 1. Open the sequence 04 Auto Noise and Reverb. This sequence to familiarize yourself with this challenging audio—lots of unwanted background noise and reverb because
it was recorded at a noisy location. The clips in this sequence have already been assigned the Dialogue audio type in the Essential Sound panel, and the Auto-Match option in the Essential Sound panel, select the
box to enable the Reduce Noise option. The default setting for the effect intensity is 5.0. 3. Play the clip in the sequence to hear the difference. The loud rumble that begins at about 00:00:10:00 is immediately much quieter. 4. As with many effects, trial and error will usually yield the best results. Try adjusting the effect
intensity during playback—if the effect is too strong, speech might begin to sound distorted. If the effect is not strong enough, too much of the unwanted background sound might remain. When you have finished experimenting, leave the setting on 5.0. Tip You can reset any setting in the Essential Sound panel by
doubleclicking the control. Part of the challenge in working with this audio is that some of the low-frequency background sound is close to speech, making it harder to automatically remove. Let's use the more advanced settings. As soon as you enable the Reduce Noise option in the Essential Sound panel, a DeNoise
effect is applied to the selected clip, visible in the Effect Controls panel. If you can't see the Effect Controls panel, and make sure the first clip is still selected in the Timeline panel. In the Effect Controls panel, click the Edit button to access
the advanced controls for the DeNoise effect. The Clip Fx Editor – DeNoise window opens. During playback and scrubbing, the bottom) and the cleanup adjustment applied (in red at the top). While the effect controls are open, you can still interact
with the Timeline panel, placing the playhead and playing the sequence. The left end of the graph shows low frequencies, and the right end shows high frequencies, and the right end shows high frequencies. 6. Play the clip again and pay particular attention to the activity in the graph when there is no speech, only rumble. It's clear that the rumble is in the low
frequencies. Take a look at the controls; 1. Presets; You can choose Heavy or Light Noise Reduction—these two options just adjust the Essential Sound panel. Use this to adjust the intensity of the effect, 3. Output Noise Only; Enable this option
to hear only the noise that is being removed—helpful when assessing whether you're removing too much of the desired audio. 4. Gain: When reducing the overall level of the audio. You can adjust the overall gain here to compensate. By looking at the level meter before and after
applying the effect, you can see how much gain to apply to keep the overall audio at the original level. The Processing Focus control is a little less selfexplanatory. By default, the DeNoise effect is applied to the full frequency range of a clip—that means it applies equally to low, medium, and high tone sounds. Using the
Processing Focus control, you can selectively apply the effect to particular frequencies option, and play the clip again
This sounds good, but let's push the effect a little harder. 8. Drag the Amount slider up to around 80%, and play the clip again. Next, try setting the slider to 100%, and play the clip again. Next, try setting the effect to full allows the speech to be audible, and the rumble is almost gone. Even
with this more advanced control, you will need to experiment to get the ideal result. 9. For now, set the amount to 80%, and close the Clip Fx Editor – DeNoise window. Note When you modify effect settings, related options in the Essential Sound panel are marked to remind you that the settings have been customized.
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Reducing reverb The Reduce Reverb option works in a similar way to the Reduce Noise option. Let's try it. 1. Listen to the second clip in the sequence. The background noise is less of a challenge
in this clip, but the reverb is quite intense. 2. Select the clip, and enable the Reduce Reverb option in the Essential Sound panel. The difference is dramatic! Just as you finessed the Reduce Reverb option in the Essential Sound panel.
with enough intensity and the speech sounding natural. When you enabled the Reduce Reverb option, a DeReverb effect was applied to the DeNoise effect, with one significant difference. Click the Edit button for the effect in
the Effect Controls panel now. The colors are a little different, but the DeReverb settings are otherwise almost identical to the DeNoise settings. However, you'll notice there's an Auto Gain option in the upper-right corner. When reducing reverb, reduced overall level is inevitable. The Auto Gain option automatically
compensates, making this effect even easier to set up. 4. Make sure the Auto Gain option is enabled, and play the clip to compare the result. Next, close the DeReverb settings window. 5. There are two more clips in this sequence for you to experiment with. Try combining the Reduce Noise and Reduce Reverb options
with lower values for subtler results. Improving clarity The Clarity category in the Essential Sound panel gives you three quick and easy ways to improve the quality of spoken audio. Dynamics: Increases or decreases the dynamic range of the audio—that is, the range of volume between the quietest and loudest parts of
the recording. EQ: Applies amplitude (volume) adjustments at specific frequencies. A list of presets makes selecting useful settings easy. Enhance Speech: Improves clarity at specific frequencies, depending on your selection of a male or female voice. It's worth experimenting with all three controls, as you'll find dialogue
recordings will benefit from different combinations of settings. Let's try these settings. Let's try these settings. 1. Open the sequence, but there are two versions of the voice-over. The first version is cleaner than the second. 2. Listen to the first voice-over clip.
3. Select the first voice-over clip, and in the Essential Sound panel, scroll down to the Clarity options. You may need to click the Options. 4. Enable Dynamics, and experiment with different levels of adjustment. You can play the seguence while making adjustments in the Essential Sound
panel, and the effect will be applied "live." Disable Dynamics when you have tried a few settings. 5. Enable the EQ option, and experiment with the Preset options. Podcast Voice EQ prese When you apply an EQ preset, a diagram illustrating the adjustment appears. This diagram is based on a Parametric Equalizer
effect (see the "Using the Parametric Equalizer effect" section for more on this effect). You can adjust the Amount slider to add more or less of the Essential Sound panel, select the Enhance Speech option and
make sure Female is selected. 8. Play the second voice-over clip. Try enabling and disabling the Enhance Speech option during playback. The difference is subtle. In fact, you may need headphones or good-quality studio monitors to clearly detect the improvement. This option clarifies speech to make it more
apprehensible, and in some cases this means reducing the power in the lower frequencies. Making creative adjustments Below the Clarity section of the Essential Sound panel is the Creative section. This has just one adjustment, Reverb. The effect can be similar to recording in a large room with lots of reflective
surfaces, or it can be subtler. Experiment with this effect on the first voice-over clip in the 05 Clarity sequence. Just a small amount of reverb can "thicken" a voice to give it more presence. Adjusting volume In addition to adjusting the gain for clips in the Project panel, setting the volume level for clips in a sequence, and
applying an automated Loudness adjustment, there's an option to set the clip level at the bottom of the Essential Sound panel. It's curious that this additional option exists—especially considering the number of ways you can already adjust the volume of your clips. But there's something special about this volume control:
No matter how much you change the volume of your clips with this control, the level will not distort. That is, the clips won't become too loud. Try this now. 1. Open the sequence 06 Level. This sequence contains a reasonably loud version of the voice-over clip you have heard already. 2. Select the clip, and play the
sequence. While the sequence plays, use the Clip Volume Level adjustment to increase and decrease the playback level. Note It's a good idea to reset controls in the Essential Sound panel to their default values before making adjustments. You can do this guickly by double-clicking a control. 3. Try increasing the level to
the maximum, +15 dB. No matter how much you adjust the audio level, it won't override (become so loud that the loudest parts of the audio cannot be played). Even if you combine a clip gain increase with a clip volume increase (using the rubber band) and then apply this adjustment, the clip will not override. 4. Reset
the Clip Volume Level adjustment by doubleclicking the slider. Using additional audio effects As mentioned at the beginning of this lesson, there are many audio effects being
added to clips automatically as you worked. Setting up effects in this way is quicker because all of the Essential Sound panel adjustments work like presets—as soon as you have set things the way you want them in the Essential Sound panel, the effects are set up appropriately in the Effect Controls panel. Take a look
now at the Effect Controls panel, with the clip you worked on in the O6 Level sequence selected. When you made a Clip Volume Level adjustment in the Essential Sound panel, a Hard Limiter effect in the
Effect Controls panel, and you'll discover all of the settings for this advanced effect are available in case you'd like to change them. If you make changes in the Essential Sound panel, you can watch the controls update for effects in the Effect Controls panel. In most cases, the settings applied by the Essential Sound
panel will be suitable, but the option to make further subtle changes will always be available. Close the settings for now, and let's look at some of the other useful audio effects. Using the Parametric Equalizer effect The Parametric Equalizer effect is a popular effect. It offers a nuanced and intuitive interface for precise
audio level adjustment at specific frequencies. It includes a graphic interface you can use to drag level adjustment controls that are linked together to achieve nuanced, natural-sounding audio. Let's try this effect. 1. Open the sequence 07 Full Parametric EQ. This sequence has one musical clip. 2. Locate the Parametric
Equalizer effect in the Effects panel (try using the Search box at the top of the window), and drag the effect Controls panel, click the Edit button to access the Custom Setup controls for the Parametric Equalizer effect. The horizontal axis of the graphic
control area indicates frequency, while the vertical axis (labeled on the right) shows amplitude. The blue line across the middle of the graph represents any adjustments you have made, and you can reshape the line directly. Wherever the blue line is higher or lower in the display, adjustments are made to the audio level
at those frequencies. You can drag any of the five main control points directly, as well as the Low Pass and High Pass controls at the ends, On the left is an overall Master Gain level adjustment, which offers a guick fix if the changes you make result in audio that is too loud or too guiet overall, 4. Play the clip to get
familiar with its sound. At the bottom of the controls, there's a Range option. By default, the Parametric Equalizer effect graph to reduce
the audio level at low frequencies. Listen to the music again. Tip Another way to use the Parametric Equalizer effect is to target a specific frequency, like a high-frequency noise or a low hum. What's special about this interface is that changes
you make to one area of the blue line impact surrounding frequencies, resulting in a more natural sound. The control Point 1 has been set to 65 Hz (which is very low frequency), with a gain adjustment of -30.8 dB
(which is a big gain reduction) and a Q of 2 (which is quite wide). 6. Change the Q factor for Control Point 1 from 2 to 7. You can click the 2 and type in a new setting directly. The line has a much sharper curve, so the adjustment you are making now applies to fewer frequencies. 7. Play the sequence to hear the changes.
Let's refine the vocals, 8. Drag Control Point 3 down to about -20 dB, and set the O factor to 1 for a very broad adjustment, 9. Play the sequence to hear the changes—the vocals are much guieter, 10. Drag Control Point 4 to around 1500 Hz, with a gain of +6.0 dB. Adjust the O factor to 3 for more precise adjustment on
the EO adjustment. Note Avoid setting the volume too high (the Peak meter line will turn red, and the peak monitors will light up). This can lead to distortion. 11. Play the seguence to hear the changes. Tip If your audio meters are not displayed, you can access them by choosing Window > Audio Meters. 12. Drag the
High frequency filter (the H control) down, and set its gain around -8.0 dB to make the highest frequencies quieter. 13. Use the Master Gain control to adjust the overall level. You may need to see your audio meters to find out whether your mix is right. 14. Close the Parametric Equalizer settings. Note Exploring all the
attributes of all the audio effects in Premiere Pro is beyond the scope of this book. To learn more about audio effects, search Premiere Pro is beyond the sequence to hear the changes intended to illustrate a technique. Of course, you'll usually make subtler adjustments. Audio
adjustments and effects can be modified during playback. You might want to enable looping playback in the Program Monitor rather than clicking repeatedly to play a clip or sequence. You can enable looping playback by choosing Loop from the Program Monitor Settings menu. There are also useful additional buttons
available in the Program Monitor Button Editor. Loop: This toggles looped playback on and off. If you have set In and Out points, the sequence will play between them and stop. Audio Plug-in Manager It's easy to install third-party
plug-ins. Choose Premiere Pro > Preferences > Audio (macOS) or Edit > Preferences > Audio (Windows). Then click the Audio Plug-ins, click the Add button, AU plug-ins are Mac only, 2. If needed, click the Scan For Plug-Ins button
to find all available plug-ins. 3. Click the Enable All button to activate all of the plug-ins, or select individual plug-ins to activate them alone. 4. Click OK to commit your changes. Using the Notch effect removes frequencies near a specified value. The effect targets a frequency range and eliminates those
sounds. The effect works well for removing radio interference hum and other electrical interference and listen for the sequence 08 Notch Filter. 2. Play the sequence 08 Notch Filter effect (not the Simple Notch Filter.
effect) and apply it to the clip in the sequence. When you do, the clip is automatically selected, so the effect controls will appear in the Effect Controls panel. 4. In the Effect Controls panel, click the Edit button for the Notch Filter effect. The Notch Filter effect looks a lot like the Parametric Equalizer effect and functions in
a similar way. However, you will notice there's no Q control, which sets the sharpness of the curves. By default each adjustment is extremely acute, and a Notch Width menu allows you to adjust the curves. 5. While playing the sequence, experiment with presets and listen to the results. The presets usually apply multiple
adjustments. This is because signal interference is often found in multiple harmonic frequencies, 6. Choose 60Hz And Octaves from the Presets menu and then listen to the sequence again to find out whether it's improved. 7. Often, when working with the Notch Filter effect, you'll listen, adjust, and listen again until you
get the settings you need. This audio has hum at 60 Hz, 120 Hz, and 240 Hz. These and more have been targeted by the preset you chose. Click the Enable buttons for control points 4, 5, and 6 to turn them off. Now play the sequence again to review the effect. Even though the interference was at precise frequencies, it
made it difficult to take in the vocals. Now it's removed, and everything sounds much clearer. 8. Close the effect was applied to the Clip —the DeHummer. The Notch Filter effect has slightly more advanced controls, so if you
don't get the result you need using the Essential Sound panel, try this next. Removing background noise with Adobe Audition installed, you can try the following: 1. In Premiere Pro, open the sequence 09 Send to
Audition from the Project panel. 2. Right-click the Noisy Audio.aif clip in the Timeline and choose Edit Clip In Adobe Audition shows a large
waveform for the clip. To use Audition's advanced noise reduction tools, you need to identify part of the clip that's just the noise so Audition knows what to remove. 4. If you don't see Spectral Frequency Display under the waveform, click the Show Spectral Frequency Display button at the top of the application window.
Play the clip. The beginning contains a few seconds of just noise, which is perfect for making a selection tool (the I-bar tool the section of noise you just identified. in the toolbar), drag to highlight 6. With the selection active, choose Effects > Noise Reduction/ Restoration > Capture Noise Print.
You can also press Shift+P. Click OK in the dialog that appears to inform you that the noise print will be captured. 7. Choose Effects > Noise Reduction/Restoration > Noise Reduction (process). You can also press Shift+Command+P (macOS) or Shift+Ctrl+P.
(Windows). A new panel opens so you can process the noise. 9. Select the Output Noise Only check box. This option allows you to hear only the noise you're removing, which helps you make an accurate selection so you don't accidentally remove too much of the audio you want to keep. 10. Click the Play button at the
bottom of the window, and adjust the Noise Reduction and Reduce By sliders to remove noise from the clip. Try not to pull down much or any of the voice. 11. Deselect the Output Noise Only check box, and listen to your cleaned-up audio. You may need start again, choosing a different section of the audio when
capturing the noise print. 12. When you're happy with the results, click the Apply button to apply the cleanup. 13. Choose File > Close and save your changes. 14. Saving in Audition automatically updates the clip in Premiere Pro. Switch back to Premiere Pro, where you can listen to the cleaned-up audio clip. You can
quit Audition. Using the Loudness Radar effect If you are producing content for broadcast television, it's likely you will be supplying media files according to strict delivery requirements. One of those requirements will relate to the maximum volume for the audio—and there is more than one approach to this. As described
earlier, a popular modern way of measuring the audio level for broadcast is called the Loudness scale, and there's a way to measure your sequences. The precise settings you'll require for your audio should be given to you
as part of your delivery specifications. To measure the loudness for a whole sequence, follow these steps—you can try this with the Audio Clip Mixer). You may need to resize the frame to see all the controls in the Audio Track
Mixer. The Audio Track Mixer allows you to add effects to tracks, rather than to clips, and the Master output track is no exception. Unlike the Audio Track Mixer are arranged in columns.
one column per audio track plus the Master track at the right. If necessary, at the top left of the panel, click the tiny triangle to display the Effects And Sends section of the Master track at the top of the Master track controls, open the first Effect
Selection menu and choose Special > Loudness Radar. The effect appears at the top of the stack, with controls at the bottom. 4. Right-click the Loudness Radar effect name in the Audio Track Mixer and choose Post-Fader. The Fader controls on the Audio Track Mixer adjust the audio level for the track. It's important
that the Loudness Radar analyzes the audio level after any Fader adjustments because otherwise adjustments made with the fader are ignored. 5. Double-click the name of the Loudness Radar effect to display the full controls. 6. Set the Timeline playhead at the beginning of the sequence and press the spacebar to
play, or click Play on the Program Monitor. During playback, the Loudness Radar monitors loudness Radar monitors loudness Radar monitors loudness and displays it as a range of values illustrated in blue, green, and yellow (there's also a peak indicator). The goal is to keep loudness generally within the green band on the Loudness Radar, though what that level will be
depends on the standard you are working to, and this will be defined by your broadcast specifications. 7. When the analysis is complete, close the Loudness Radar won't change the audio level. It gives you a precise measure of Loudness that you can use to guide changes you'll make to
the mix. Make adjustments to your audio levels; then use the Loudness Radar again to check them. You can change the measurement levels indicated by the various bands in the Loudness Radar by clicking Settings. You can also use a preset, based on widely used standards, by choosing the Presets menu. If you set
levels automatically using the Essential Sound panel, you are likely to produce a mix that is within appropriate limits for broadcast. Still, nothing compares to a professionally produced audio mix where levels for each clip are checked. When using the Loudness Radar, you can use the J, K, and L keys to play back up to
4x normal speed and still see results. Close this project by choosing File > Close Project. If you are asked if you would like to save, do so, REVIEW OUESTIONS 1, How would vou use the Essential Sound panel to set an industry-standard audio level for broadcast television dialogue clips? 2. What's a quick, easy way to
remove electrical interference hum from clips? 3. Where can you find the more detailed controls for the options you send a clip to Adobe Audition directly from the Premiere Pro timeline? REVIEW ANSWERS 1. Select the clips you want to adjust. In the Essential
Sound panel, choose Dialogue as the audio type. Then, in the Loudness section, click Auto-Match, 2. Use the DeHum option in the Essential Sound panel to remove electrical interference hum. Try the 60 Hz or 50 Hz option, depending on the origin of your source footage, 3. Most adjustments you make using the
Essential Sound panel are applied as effects to clips. You can find the detailed controls by selecting a clip and looking in the Effect Controls panel. 4. It's easy to send a clip to Audition. Rightclick the clip and choose Edit Clip In Adobe Audition. 12 Adding Video Effects Lesson overview In this lesson, you'll learn how to
do the following: Work with fixed effects. Browse effects with the Effects panel, Apply and remove effects. Use keyframing effects. Use virtual reality (VR) video effects. Render effects. This lesson will take about 120 minutes to complete. To
get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. Adobe Premiere Pro features more than 100 video
effects. In this lesson, you'll learn the main skills you need to work with all kinds of effects, as well as the some of the more advanced workflows. Most effects for many
reasons. They can solve problems with image quality, such as under exposure or a color balance offset. They can also help solve a number of production problems, such as camera shake or a poorly lit subject. 1. Open Lesson
12.prproj. 2. Save the project as Lesson 12 Working prproj. 3. Switch to the Effects workspaces panel or by choosing Window > Workspaces panel or by choosing Wi
purposes. You can alter the color or distort footage, and you can animate the size and position of a clip within the frame. The exciting challenge is in knowing when to use an effect and when to keep it simple. Standard effects can be constrained within elliptical or polygon masks, and these masks can automatically track
vour footage. For example, vou might blur someone's face to hide their identity and have the blur follow them as they move through the shot. You can use the same feature to relight a scene in postproduction. WORKING WITH VISUAL EFFECTS You already know how to apply effects and change their settings. You can
drag a visual effect onto a clip, as you have already done with audio effects, or you can select the clip (or multiple clips) and double-click the effects as you want on a single clip, which can produce surprising results. You can use an adjustment layer to add effects to a
collection of clips. When it comes to deciding which video effects to use, the number of choices in Premiere Pro can be a little overwhelming. Plus, many additional effects are available from third-party manufacturers for sale or free of charge. Although the range of effects and their controls can be complex, the techniques
you'll use to apply, adjust, and remove effects are straightforward and consistent. Modifying fixed effects when you add a clip to a sequence, it will automatically have a few effects are straightforward and consistent. Modifying fixed effects are called fixed effects, or intrinsic effects, and you can think of them as controls for the usual geometric, opacity,
speed, and audio properties that every clip should have. Fixed effects are automatically applied to every clip in a sequence, but they don't change anything until you modify their settings. The effects include: Motion: The Motion effect allows you to animate, rotate, and scale a clip. You can also use the Antiflicker Filter
control to decrease shimmering edges for an animated object. This comes in handy when you scale down a high-resolution or interlaced source and Premiere Pro must resample the image. Opacity: The Opacity effect lets you control how opaque or transparent a clip is. You can also access special blend modes to create
visual effects from multiple layers of video. You'll explore this more in Lesson 14, "Exploring Compositing Techniques." Time Remapping: This effect lets you freeze a frame. Think of it as a more advanced version of the Clip Speed/Duration options in the
Timeline panel. In fact, the two controls are linked. Audio Effects: If a clip has audio, Premiere Pro displays its Volume, Channel Volume, and Panner controls. You can modify all fixed effects using the Effect Controls panel. 1. If it's not already in the
Timeline panel, open the sequence 01 Fixed Effects. Tip To expand or collapse all items in the Effect Controls panel, look at the fixed effects.
applied to this clip. 3. Click the disclosure triangles next to headings or individual controls to display their properties. 4. Click to select the second clip in the sequence and look at the Effect Controls panel. These effects have keyframes, so their settings can change over time. In this case, a slow Scale and Pan animation
was applied to the clip to create a digital zoom that didn't exist before and to recompose the shot. When people fix attention on an object, they tend to experience subtle tunnel vision. A slow zoom-in effect can feel the same way for your audience, enhancing the viewer's focus and adding tension in a dramatic moment. 5.
Play the current sequence to compare the two clips. Navigating the Effects panel In addition to the fixed video effects, Premiere Pro has standard effects that change a clip's appearance. Because there are so many to choose from, effects are organized into 17 categories. If you install third-party effects, you may have
more choices. There's an additional category called Obsolete effects have been replaced with newer, betterdesigned versions, but they have been kept in Premiere Pro to ensure compatibility with older project files. It is best not to use these effects when working on new projects as they may be removed in
future versions. Effects are grouped into categories by functions, including Distort, Keying, and Time, so you can more easily navigate them. Each category has its own bin in the Effects panel. 1. Open the Effects panel. Tip The keyboard shortcut to display the Effects panel is Shift+7. 2. In the Effects panel, expand
Video Effects. Note With so many video effect categories, it's sometimes tricky to locate the effect you want. If you know part or all of an effect's name, start typing it in the search box at the top of the Effects panel. Premiere Pro will display all effects and transitions that contain that letter combination, narrowing the
search as you type. 3. Click the New Custom Bin button at the bottom of the panel. The new custom bin appears in the Effects panel at the bottom of the list (you may need to scroll down to see it). Let's rename it. 4. Click once to select the bin. 5. Click once more, directly on the bin's name (Custom Bin 01), to select it. 6.
Change its name to something like Favorite Effects. 7. Open any video effects category and drag a few effects from a custom bin to copy them. You may need to resize the panel to make it easier to drag effects. Choose any effects that sound interesting to you. You can add or remove effects from a custom bin
whenever you like. You can also click the Delete Custom ltems button to remove copied effects. Note When you add an effect remains in its original folder. You can use custom bins to create your own effect categories. As you
browse the video effects, you'll notice icons next to many of the effect names (you may need to resize the Effects panel to see the icons). Understanding these icons should influence your choices when working with effects. Accelerated effects The Accelerated Effect icon indicates that the effect can be accelerated by
your graphics processing unit (GPU). The GPU (often called the video card or graphics card) can greatly enhance of Premiere Pro. The range of cards supported by the Mercury Playback Engine is broad, and with the right card installed, these effects often offer accelerated or even real-time performance
and need rendering only on final export (which is also hardware accelerated). You'll find a list of recommended cards on the Premiere Pro product page. 32-bit color (high-bit-depth) effects Effects with the 32-Bit Color icon can process in a 32-bits-per-channel mode, which is also called highbit-depth or float processing
For maximum quality, use 32-bit color effects. Note When using 32-bit color effects on a clip, try to use only combinations of 32-bit effects force processing back to 8-bit color for that clip. If you are editing without GPU acceleration, in Software mode,
effects will be rendered in 8-bit color by default. To take advantage of 32-bit color effects, make sure your sequence settings have the Maximum Bit Depth video-rendering option enabled. If your project is set to use a hardware-accelerated renderer (in the Project settings), supported accelerated effects will automatically
be rendered in 32-bit. Understanding bit depth is the number of steps from one end of a scale to another. A good example is the brightness and 100% brightness? Most video cameras record 8-bit video. This gives 256 steps per color channel
from one end of the scale to the other. For every 1 bit you add, the number of steps doubles. So 10-bit video (a popular option) has 1024 steps will always be 0, these two scales are really: 8-Bit: 0-255 10-Bit: 0-1023 32-bit processing allows over 4 billion possible colors, and when rendering
effects in 32-bit color. the result is as good as lossless—no quality is lost when calculating the effect. YUV effects Effects with the YUV icon process color in YUV (implemented in Premiere Pro as Luminance, ColorBlue, Color-Red channels). This is particularly important if you're applying color adjustments. Effects without
the YUV icon are processed in the computer's native RGB space, which might make adjusting exposure and color less accurate. Tip You can select any of the Effects panel to display only effects with those features. Note To learn more about YUV effects, be sure to read the article
at www.provideocoalition.com/what is yuv/. YUV effects break down the video into a Y (or luminance) channel and two channels for color information, which is how most video footage is structured natively. Because the brightness of the image is separate from the colors, it's easy to adjust contrast and exposure without
shifting the colors. Applying effects Once you have applied an effect, virtually all the video effect settings are accessible in the Effect Controls panel. You can add keyframes to nearly every control, making it easy to apply changes over time (just look for controls with a stopwatch icon). In addition, you can use Bezier
curve handles on those keyframes to adjust the velocity and acceleration of those changes. 1. Open the sequence 02 Browse. 2. Type white into the Effects panel Find box, you'll see
a fantastic list of presets for lens distortion removal because they relate to a particular camera with the word black in the name. Typing the word white instead displays a shorter list of effects to scroll through. 3. Drag the Black & White video effect onto the Run Past clip in the Timeline panel. This effect immediately
converts your full-color footage to black and white, or more accurately, grayscale. 4. Make sure the Run Past clip is selected in the Timeline panel, and open the Effect Controls panel. 5. Toggle the Black & White effect off and on by clicking the fx button next to the effect name in the Effect Controls panel. Be sure the
sequence playhead is over this footage clip to view the result. Toggling an effect on and off is a good way to see how it works with other effect. 7. Type
direction into the Effects panel search box to locate the Directional Blur video effect. Note If you have a clip selected, you can apply effects by double-click the Directional Blur effect to apply it to the
selected clip. 9. In the Effect Controls panel, expand the Directional Blur effect's controls. 10. Set Direction to 75.0 degrees and Blur Length to 45. 11. It's an interesting result, but now it's impossible to tell what's going on in the image. Click the disclosure triangle to expand the Blur Length control, and move the slider to
reduce the strength of the effect. Tip The slider limit may be smaller than the number you can enter by typing. Note You won't always use visual effects are intended to look like in-camera results. As you change the setting, the result is displayed in the Program Monitor. 12.
Click the panel menu for the Effect Controls panel, and choose Remove Effects. The Remove Attributes dialog box opens. 13. The Remove and deselect which effects you want to keep. You want to remove them all, so click OK. This is an easy way to start
fresh. Effects are processed in a particular order, which can lead to unwanted scaling or resizing. You can't reorder fixed effects, but you can use the Transform effect instead of the Motion fixed effect, or you can use the Alpha Adjust effect instead of the
Opacity fixed effect. These effects are not identical, but they're a close match, they behave similarly, and they can be placed in any order you choose. Other ways to apply effects To make working with effects more flexible, here are three ways to reuse an effect you have already configured: You can select an effect from
the Effect Controls panel, choose Edit > Copy, select a destination clip (or several clips), and choose Edit > Paste. You can copy all the effects from one clip so you can paste them onto another clip: Select the first clip in the sequence and choose Edit > Copy, then select the destination clip (or clips), and finally choose
Edit > Paste Attributes. You can create an effect preset to store a particular effect (or multiple effects) with settings for reuse later. You'll learn about this technique later in this lesson. Using adjustment layers Adjustment layers offer a convenient way to apply effects to multiple clips. The concept is straightforward: Create
an adjustment layer clip that can hold effects, and position it above other clips on the Timeline, on a higher video track. Everything beneath the adjustment layer clip is viewed through it, receiving any effects it contains. You can easily adjust the duration and opacity of an adjustment layer clip, as you would adjust any
graphics clip, making it easy to control which other clips are seen through it. An adjustment layer makes it faster to work with effects because you can change the settings on the layer (a single item) to influence the appearance of several other clips. Let's add an adjustment layer to a sequence. 1. Open the sequence 03
Multiple Effects. 2. At the bottom right of the Project panel, click the New Item button, and choose Adjustment Layer, You may need to resize the Project panel to see the New Item button. The Adjustment Layer dialog box will
reflect the settings in the current sequence. 3. Click OK. Premiere Pro adds a new adjustment layer to the Project panel to the beginning of the Video 2 track in the Timeline panel. 5. Drag to trim the right edge of the adjustment layer so it extends to the end of the
sequence. Let's apply an effect to the adjustment layer. Once the effect is set up, you can change the adjustment layer's opacity to alter the intensity of the effect. 7. Drag the effect onto the adjustment layer clip in the sequence. 8. Move the timeline
playhead to 27:00 to have a good close-up shot to use when designing the effect. 9. By default, the Guassian Blur effect doesn't change the image. Make sure the adjustment layer clip is selected. In the Effect Controls panel, set Blurriness to a high value, around 25.0. Select the Repeat Edge Pixels option to apply the
effect evenly. The effect is much too strong. Let's blend the adjustment layer with the clips beneath it using a blend mode to create a film look. Blend mode to create a film l
the adjustment layer still selected in the sequence, click the disclosure triangle next to the Opacity control in the Effect Controls panel to view the settings, 11. Choose Soft Light from the Blend Mode menu to create a gentle blend with the footage, 12. Set Opacity to 75% to reduce the effect. You can enable and disable
the Track Output for the Video 2 track in the Timeline panel to see the before and after states of the effect. Adjustment layers are a great way to apply a look to a whole scene. Once you have adjusted the colors for individual clips so they match, you can give the overall scene a particular look with an adjustment layer.
The same is true of vour entire sequence—vou can place an adjustment layer above the clips and below graphics to give all clips the same look. Sending a clip to Adobe After Effects If you're working with a computer that also has Adobe After Effects installed, you can easily send clips back and forth between Premiere
Pro and After Effects. Thanks to the close relationship between Premiere Pro and After Effects, you can seamlessly integrate the two applications more easily than with any other editing platform. This is a useful way to significantly extend the effects capabilities of your editing workflow. You don't need to learn to use After
Effects to get the most out of Premiere Pro. Still, many editors find working with both applications expands their creative toolset in exciting ways. The process you use to share clips is called Dynamic Link. With Dynamic Link you can seamlessly exchange clips with no unnecessary rendering. When a clip is sent from
Premiere Pro to After Effects, it is put into a new composition (After Effects composition are analogous to sequence settings that match the original Premiere Pro project, with a composition name based on the Premiere Pro project name, followed by Linked Comp
workflow. 1. Open the sequence AE Dynamic Link. 2. This sequence has several drone shots of a desert. They have interesting movement but would benefit from some contrast and color saturation adjustments. You can experiment and compare results with the various clips. Right-click the first clip in the sequence and
choose Replace With After Effects Composition, 3, If it's not running already, After Effects launches, If the After Effects project, Name the project Lesson 12-01, app, and save it to a new folder inside the Lessons folder, Clips become layers in After
Effects compositions to make it easier to work with advanced controls on the Timeline panel. There are lots of ways to apply effects with After Effects. To keep things simple, let's work with animation presets (these are similar to effect presets in Premiere Pro). For more on effects workflows, see Adobe After Effects
Classroom in a Book (2020 release). 4. If the composition isn't already open, look for it in the After Effects Project panel, and double-click to load it. It should be called Lesson 12 Working Linked Comp 01 (the number may be higher if you have tried this workflow before). Click the Valley of fire 0996.mp4 layer in the
Timeline panel to select it. 5. Locate the Effects & Presets panel (you can find this in the Window menu if it's not on-screen already). Click the disclosure triangle to expand the *Animation Presets category is not displayed, check that it is enabled in the Effects & Presets panel menu. Animation presets in
After Effects use standard built-in effects to achieve impressive results. They are an excellent shortcut to producing a professional finish for your work. 6. Expand the Image - Creative folder. You may need to resize the panel a little to read the full preset names. 7. Double-click the Contrast - Saturation preset to apply it to
the selected layer, 8. In the Timeline panel, make sure the clip is still selected, and press the E key to view any applied effects. You can click the disclosure triangles for each effect setting to see the controls, right inside the Timeline panel. The Contrast - Saturation preset actually uses an effect with a different
name, Calculations, to make changes to the appearance of the clip. 9. 10. Now look at the Effect Controls panel. The same effect is displayed here. Press the spacebar to play the clip in the current composition, with the effect applied, as fast as possible (depending on the power of your
editing system). The green line at the top of the Timeline panel indicates a temporary preview has been created. Only playback of the highlighted section of the timeline is likely to be smooth. The effect is subtle but gives richer color saturation and stronger contrast to a shot that would otherwise be a little flat. 11. Choose
File > Save. 12. Switch back to Premiere Pro, and play the sequence to view the results. You can repeat this process with other clips. If an After Effects project, rather than needing a new project. 13. Quit After
Effects. The original clip on the Timeline in Premiere Pro has been replaced with the dynamically linked After Effects composition. Any changes made in After Effects to Premiere Pro. To improve
preview playback performance in Premiere Pro, you can select the clip in the Timeline and choose Sequence > Render Effects In To Out. APPLYING MASTER CLIP EFFECTS You can also apply effects to master clips in the Project panel. You use the same visual effects and work with them in the same way. With
master clips, any instance of a clip, or part of a clip, you add to a sequence will inherit the effects you have applied. You can even apply master clip sequences will update—a powerful way to make adjustments to multiple clips segments in a single step. For example, you
could add a color adjustment to a clip in the Project panel so that it matches other camera angles in a scene. Each time you use that clip or part of that clip in a sequence, the adjustment will already be applied. Even if you don't make the adjustment until after the scene is edited, you can use a master clip effect to quickly
match the colors. Let's add a master clip effect now. 1. Open the sequence 04 Master Clip Effects. This has one clip, Laura 02, edited five times into the same sequence. The copies of the clip are separated by a number of other, similar shots, 2. Position the Timeline panel playhead over the first instance of the
Laura 02 clip. We want to open this sequence clip's original master clip in the Source Monitor so we can apply an effect to it. It's no good double-clicking the clip in the sequence because it will open that instance. Select the clip and press the F kev. This is the shortcut for Match Frame. which opens the original master
clip in the Source Monitor at the frame that is displayed in the Program Monitor. This is a useful shortcut to remember, as you will often want to check master clips when reviewing sequences, either to see a version of a clip without effects applied or to check for alternative content. 3. You now have the same clip open in
the Source Monitor (the master clip) and displayed in the Program Monitor (the sequence segment), so you can see how the changes affect the sequence as you apply them. 4. In the Effects panel, type 100 in the Find box to quickly locate the Lumetri Look effect preset named Cinespace 100. Tip You can also apply an
effect to a master clip by dragging the effect onto the clip directly in the Project panel or by selecting a clip in a sequence and dragging the effect into that panel. Note Selection is important in Premiere Pro. Clicking to activate the Source Monitor
before going to the Effect Controls panel is necessary to see the correct options. 5. Drag the Cinespace 100 effect into the Source Monitor to make sure it's the active panel, and open the Effect Controls panel to see the effect options. Because you
applied the effect to the clip in the Source Monitor and then selected the Source Monitor to make it active, the Effect Controls panel shows the effect applied to the master clip, rather than the Timeline instance of the clip. This is a Lumetri Color effect, and you will be learning a lot more about these effects in Lesson 13.
"Applying Color Correction and Grading." 7. Because the effect has been applied to the master clip, every instance of the clip in the sequence to see that the effect is applied to every copy of the Laura 02 clip. You can tell a master clip effect is applied to a clip because the fx badge
has a red underline. The result of the effect is displayed in the Source Monitor and the Program Monitor because sequence clips inherit their master clip has the
effect applied, none of the Timeline instances of the Laura 02 clip on the Effect Controls panel—no Lumetri Color effect, just the usual fixed effects (which are applicable only to
sequence clips, not clips in the Project panel). At the top of the Effect Controls panel there are two tabs. The tab on the right shows the name of the sequence followed by the name of the sequence clip, 04 Master Clip Effects * Laura 02.mp4.
Because you selected the clip in the sequence, the tab on the right is highlighted in blue, showing that you're working on that instance of the clip. 9. In the Effect Controls panel, click the tab at the top that
shows the master clip name. You'll see the master clip effect options. 10. Experiment with the controls for the Lumetri Color effect, and then play the sequence. You'll see the master clip effects provide a powerful way to manage effects in Premiere Pro. You may need to
experiment a little to make the most of them. You use the same visual effects as you would use on the timeline, so the techniques you're learning in this book will work the planning is a little different. MASKING AND TRACKING VISUAL EFFECTS All standard visual effects can be constrained within
elliptical, polygon, or custom masks, which you can manually animate using keyframes. These masks can motion-track your shots to animate their position, following the action with the constrained special effect. Masking and tracking effects are great ways to hide a detail like a face or logo behind a blur. You can also
use the technique to apply subtle creative effects or modify the lighting in a shot. Continue working with the 04 Master Clip Effects sequence, Evening Smile. Note This example uses a vivid adjustment to illustrate a technique. You will usually
make subtler adjustments. It looks good, but it would benefit from a stronger light on the Brightness & Contrast effect. 3. Apply this effect to the clip. 4. In the Effect Controls panel, scroll down to the Brightness & Contrast
controls. Choose the following settings: 1. Brightness 35 2. Contrast 25 You can set these levels by clicking the blue numbers and typing the new setting, by scrubbing the heur numbers and typing the new setting, by scrubbing the heur numbers and typing the new setting.
one area of the shot. Just under the name of the Brightness & Contrast effect in the Effect Controls panel, you'll see three buttons that allow you to add an elliptical mask. Immediately, the effect is constrained to the mask you just created. You can add multiple masks to
an effect. If you select a mask in the Effect Controls panel, you can click and modify the shape in the Program Monitor to reposition the mask so it covers subject's face and hair. You may find it helpful to adjust the Zoom
level for the Program Monitor to see beyond the edges of the image. If you deselect the mask, the controls will disappear —select the mask. Set Mask Feather to about 240. If you deselect the mask in the Effect Controls
panel, to hide the mask handles in the Program Monitor, you'll see that you have lifted the area around the subject's face, with a natural return to regular lighting in the rest of the picture. Now you just need the mask to follow the moving video. 8. Make sure the playhead is still on the first frame of the clip. Click the Track
Selected Mask Forward button in the Effect Controls panel, to the right of the Mask Path item. Premiere Pro to follow the
action. 9. Deselect the mask by clicking the background of the Effect Controls panel, or an empty track in the Timeline panel, and play the sequence to view the result. Premiere Pro can also track backward so that you can select an item partway through a clip and then track in both directions to create a natural path for
the mask to follow. In this example you're making a subtle lighting adjustment, but almost any visual effect can be constrained to a mask in this way. You can even add multiple masks to the same effect. KEYFRAMING EFFECTS When you add keyframes to an effect, you're setting particular values for controls at that
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moment in time. One keyframe will keep information for one control. If, for example, you were intending to keyframe Position, Scale, and Rotation, you would need three separate keyframes. Note Be sure to move the playhead over the clip you're working with when applying effects so you can view your changes as you
work. Selecting the clip alone will not make it visible in the Program Monitor. Set keyframes at precise moments where you need a particular setting, and let Premiere Pro work out how to animate the controls between them. Adding keyframes You can change almost all parameters for all video effects over time using
keyframes. For example, you can have a clip gradually become out of focus, change color, or lengthen its shadow. 1. Open the sequence to get familiar with the footage, and then position the Timeline playhead over the first frame of the clip. 3. In the Effects panel, locate the Lens
Flare effect and apply it to the clip in the sequence. This is not a subtle effect, but it illustrates keyframes beautifully. 4. In the Effect Controls panel, select the Lens Flare effect heading. With the effect selected, the Program Monitor displays a small control handle. Use the handle to reposition the lens flare to match the
following figure so that the center of the effect is near the top of the waterfall, as seen in the frame. 5. Make sure the Effect Controls panel timeline is visible. If it isn't, click the stopwatch icons to toggle
animation for the Flare Center and Flare Brightness properties. Clicking the Stopwatch icon enables keyframing and adds a keyframe at the current location with the current location with the current settings. 7. Move the playhead to the last frame of the clip. You can drag the playhead directly in the Effect Controls panel. Make sure you see the
last frame of video and not black (which would be the first frame of the next clip if there were one). 8. Adjust Flare Center and Flare Brightness settings so the flare drifts across the screen with the camera pan and gets brighter. Use the following figure for guidance. 9. Deselect the Lens Flare effect, and play the
sequence to watch the effect animate over time. You may need to render the sequence for full frame rate playback, by choosing Sequence > Render Effects In To Out. Tip Be sure to use the Next Keyframe and Previous Keyframe buttons to move between keyframes efficiently. This will keep you from adding unwanted
keyframes. Adding keyframe interpolation and velocity Keyframe interpolation changes the behavior you've seen so far is linear; in other words, it produces a constant change between keyframes. What generally works better
is something that mirrors your real-world experience or exaggerates it, such as gradual acceleration or deceleration and the Velocity graph. Keyframe interpolation is easy and simplified, whereas adjusting the Velocity graph can be complex but
more precise. The Velocity graph appears on the right side of the Effect Controls panel, along with the keyframes, when you expand a property by clicking its disclosure triangle . 1. Open the sequence 06 Interpolation. 2. Position the playhead at the beginning of the clip, and select the clip. A Lens Flare effect has been
applied to this clip and is animated. However, the movement begins before the camera, which isn't very natural-looking. 3. Toggle the Lens Flare effect off and on by clicking the fx button next to the effect name in the Effect Controls panel so you can see the result. 4. In the timeline view of the Effect Controls panel, right-
click the first keyframe for the Flare Center property. Choose the Temporal Interpolation > Ease Out method to create a gentle transition from the keyframe for the Flare Center property and choose Temporal Interpolation > Ease In. This creates a gentle transition from
the stationary position of the last keyframe. 6. Let's modify the Flare Brightness property. Click the first keyframe so both are active, highlighted in blue. Note When working with position-related parameters, the context menu for a
keyframe will offer two types of interpolation: spatial (related to location) and temporal (related to time). You can make spatial adjustments in the Effect Controls panel. You can make temporal adjustments on the clip in the Timeline and
in the Effect Controls panel. These motion-related topics were covered in Lesson 9, "Putting Clips in Motion. You could also click the Flare Brightness property name, which selects keyframes, so it's worth remembering the
Shift key. 7. Right-click either one of the Flare Brightness keyframes and choose Auto Bezier to create a gentle animation between the two properties. Because both keyframes were selected, both are changed. 8. Play back the animation to watch the changes you've made. Understanding interpolation methods Here's a
rundown of the keyframe interpolation methods available in Premiere Pro: 1. Linear: This is the default behavior and creates a uniform rate of change between keyframe. Beziers allow for sudden or smooth acceleration into or
out of a keyframe. 3. Continuous Bezier: This method creates a smooth rate of change through a keyframe. 4. Auto Bezier: This
method creates a smooth rate of change through a keyframe even if you change the keyframe even if you change to a Continuous Bezier point, retaining the smooth transition through the keyframe. The Auto Bezier option can occasionally produce unwanted
motion, so try one of the other options first. 5. Hold: This method holds a setting until the next keyframe and converts it to a Bezier
keyframe. 7. Ease Out: This method gradually accelerates the value changes leaving a keyframe and converts it to a Bezier keyframe. Let's refine the pointer over the Effect Controls panel and then, if your keyboard has the key, press `(accent grave) to maximize the panel
full-screen; or doubleclick the panel name. This will give you a clearer view of the keyframe controls. 10. If necessary, click the disclosure triangles next to the Flare Center and Flare Brightness properties to show the adjustable properties. The Velocity graph shows the velocity between keyframes. Any sudden drops or
jumps represent sudden changes in acceleration. The farther the point or line is from the center, the greater the velocity. 11. Select a keyframe and then adjust its extended handle to change the steepness of the velocity curve. After adjusting the second keyframe for the Flare Center control 12. Press the `(accent grave)
key, or double-click the panel name, to restore the Effect Controls panel, and play back your sequence to see the impact of your changes to the velocity of the keyframes for the Flare Center isn't enough to make the
movement appear perfectly natural. Try dragging the first keyframe later to better match the camera movement and adjust the velocity keyframes. USING EFFECT PRESETS You'll find that there are several prebuilt presets included for specific tasks already, but the true power of effects lies in creating your own presets,
particularly when you know you'll need a particular effect configuration in the future. A single preset can contain more than one effect and can even include keyframes for animation. Using built-in presets The effect presets provided with Premiere Pro give you a head start when performing common tasks, such as setting
up a picture-in-picture effect or creating a stylized transition. 1. Open the sequence 07 Presets. This sequence has a single clip with a slow start—the emphasis is on the texture of the background. Let's use a preset to add visual interest to the beginning of the shot. 2. In the Effects panel, click the X to clear the Search
box at the top of the panel. Browse inside the Presets > Solarizes category to find the Solarize In preset onto the sequence. 4. Play back the sequence to watch the Solarize effect transform the opening. 5. Select the clip in the Timeline panel, and view its controls in the Effect
Controls panel. 6. There are two keyframes, relatively close together. Zoom in by adjusting the navigator at the bottom of the second keyframe in the Effect Controls panel to customize the effect. If you extend the timing of the
effect, it creates a gentler start to the shot. Saving effect presets Although there are several built-in effect presets to choose from, you can easily create your own. You can easily create your own.
each with an adjustment layer on the V2 track and a title on the V3 track, 2. Play the sequence to watch the opening animation, 3. Select the first instance of the "Laura in the snow" title clip on V3 and look in the Effect Controls panel. A Fast Blur effect has been applied to the title, and there are keyframes animating
several controls, 4. In the Effect Controls panel, click the Vector Motion effect heading to select it. Next, hold Command (macOS) or Ctrl (Windows) while you click the effect and then Opacity effect. 5. Right-click any of the selected effects in the Effect Controls panel and choose Save
Preset. 6. In the Save Preset dialog, name the effect Title Animation. Click in the Description box, and type Title blurs into view. When you apply an animated preset to a clip with a different duration, Premiere Pro needs to know how to distribute the keyframes. There are three options. 1. Scale: Scales the original preset
keyframes to the duration of the new clip proportionally. Any existing keyframes on the original clip are deleted. 2. Anchor To In Point: Preserves the position of the first keyframes as well as the relationship of other keyframes in a clip. Other keyframes are added to the clip relative to its In point. 3. Anchor To Out Point:
Preserves the position of the last keyframe as well as the relationship of other keyframes in a clip. Other keyframes are added to the clip relative to its Out point. 7. For this preset, select Anchor To In Point so the timing matches at the start of each clip the preset is applied to. 8. Click OK to store the effects and keyframes
as a new preset. 9. In the Effects panel, locate the Presets category and your newly created Title Animation preset to see the description you added appear as a tool tip. 10. Drag the new Title Animation preset onto the second instance of the "Laura in the snow" title clip on the V3 track
in the Timeline, 11. Watch the sequence play back to see the newly applied title animation, 12. Select the second title clip in the Timeline panel and look in the preset have been added to the clip. The name of the preset is included in parentheses, so you know the way the
effect has been configured. You can still edit the effect controls, but it's a useful way to check which preset you used. You can change the configuration of a preset by rightclicking it. Double-clicking an effect (rather than a preset) will apply the
effect to a selected clip. Tip Effect presets can be exported and imported so they can be shared. You'll find the Import and Export an individual preset or a whole custom bin containing multiple presets. You'll find a number of free presets at
premierepro.net/presets. Using multiple GPUs If you're using a GPU card or external GPU. If you're using a feffects or the export of clips, consider additional slot that can support a second graphics card. An additional GPU won't improve playback
performance when previewing real-time effects or displaying multiple layers of video, but Premiere Pro takes full advantage of computers with multiple GPU cards to significantly accelerate render and export times. You can find additional details about supported cards on the Adobe website. EXPLORING FREQUENTLY
USED EFFECTS In this lesson, you've encountered several effects. Although it's beyond the scope of this book to explore all the options, here are a few additional effects that are useful in many editing situations. We'll be exploring color adjustments in the next lesson. Applying image stabilization and rolling shutter
reduction The Warp Stabilizer effect can remove jitter caused by camera movement (which is increasingly common with today's lightweight cameras). The effect is useful because it can remove unstable parallax-type movements (where images appear to shift on planes). The result is achieved by zooming into the image
by just enough to animate the clip position within the frame to compensate for unwanted camera movement. Let's explore the effect. 1. Open the sequence to see the wobbly shot. 3. In the Effects panel, locate the Warp Stabilizer VFX effect and apply it to the shot.
As the clip is analyzed, a banner across the footage lets you know you'll need to wait before working with the effect. There's also a detailed progress indicator in the background, so you can carry on working while waiting for it to complete. 4. Once the analysis has
completed, you can adjust settings in the Effect Controls panel to improve results by choosing options that better suit the shot. 1. Result: You can choose Smooth Motion to retain the general camera movement (albeit stabilized), or you can choose No Motion to attempt to remove all camera movement. For this exercise,
choose Smooth Motion. 2. Method: You can use the four methods available. The two most powerful, because they warp and process the image more heavily, are Perspective and Subspace Warp. If either method creates too much distortion, you can try switching to Position, Scale, Rotation, or just Position. 3.
Smoothness: This option specifies how much of the original camera movement should be retained for Smooth Motion. Use a higher value to smooth out the shot the most. Experiment with this shot until you're happy with its stability. 5. Play the clip. The impact is pretty dramatic. Tip If you notice that some of the details in
the shot appear to wobble, you may be able to improve the overall effect. In the Advanced section, select Detailed Analysis. This makes the Enhanced Reduction option from the Rolling Shutter Ripple option in the Advanced category. These
options are slower to render but produce better results. 6. Play the second clip in the sequence to review it. This show should be static, but it's handheld, so there's a little movement. Repeat the process for this clip. Choose No Motion from the Warp Stabilizer Result menu. Warp Stabilizer is amazingly effective at locking
these kinds of shots into position. Tip The Warp Stabilizer effect adds quite a lot of data to the Premiere Pro project files take longer to open and to
save. Use an adjustment layer with the Clip Name effect If you intend to send a review copy of a sequence to a client or colleague, you can apply the Clip Name effect to an adjustment layer and have it generate visible clip names for the entire sequence. This is helpful because it allows others to give feedback based on
a particular clip. You can control the clip name format position, size, and opacity. You can enable a similar timecode overlay when exporting media, but the sequence 10 Clip Names. 2. At the bottom right of the Project panel, click the New Item button, and choose
Adjustment Layer. Click OK. You may need to resize the Project panel to see the New Item button. Tip If you work with multiple sequences with different format settings in a single project, it's worth naming adjustment layers to make it easier to identify their resolution. You can rename adjustment layers in the Project
panel just as you would any other item by right-clicking the adjustment layer and choosing Rename. A new adjustment layer to the beginning of track V2 in the current sequence. 4. Position the Timeline
playhead at the end of the sequence. Click once to select the right edge of the new adjustment layer, and press Esc to deselect the edit. This useful shortcut performs an Extend edit, which trims the selected edit to the current position of the playhead. 5. You can add most visual effects to an adjustment
layer. Let's try an example effect. In the Effects panel, locate the Horizontal Flip effect. You can still use masks to constrain the
effect, which produces interesting results where there is movement in the shot. This effect works well with this kind of content but may not work if there is visible text or a recognizable logo in the picture. Let's add the Clip Name effect. 6. In the Effects panel, search for the Clip Name effect. Tip You can click the Clip
Name effect heading in the Effect Controls panel and then drag the anchor point for the name displayed in the Program Monitor to reposition it. 7. Apply the Clip Name effect to the adjustment layer clip. By default, the effect shows the name of the clip you applied it to, which in this case is Adjustment Layer—not very
useful! 8. In the Effect Controls panel, in the Clip Name effect controls, choose Video 1 from the Source Track menu, and set the size to 25%. Now the clip names from the V1 track are displayed. 9. Clear the Effects panel Search box by clicking the X. Using immersive video effects Premiere Pro includes comprehensive
tools and effects for equirectangular 360° video (often referred to as VR video or immersive video). The effects workflow for 360° video is similar to the workflow for any other kind of video. However, the dedicated Immersive Video effects take into account the wraparound nature of 360° video. The fact that 360° video
seamlessly surrounds the viewer and can connect on all sides (depending on the configuration) does not impact most visual effects. The exception is any effect that generates changes to surrounding pixels, such as blurs and glows. These effects make changes to multiple pixels, and only effects specially designed to
work with 360° video images will result in an image without a visible join along the original edges. Let's try this. 1. Open the sequence 11 Immersive Video, rideo viewing mode in the Program Monitor. 2. Use the Program Monitor Settings menu to choose VR
Video > Enable. 3. The viewing angle is a little narrow by default. Go to the Program Monitor Settings menu again, and choose VR Video > Settings, 4. Set Monitor View Horizontal to 150, and click OK. When producing immersive video, you'll want to choose the viewing angle of the intended VR headset. 5. In the Effects
panel, find the Gaussian Blur effect, in the Video Effects > Blur & Sharpen category. Add the effect to the video clip in the sequence. 6. In the Effect Blurriness to 50, a high setting that makes the result easy to see. 7. Try dragging the image in the Program Monitor to see
different views. The Gaussian Blur effect is designed to work on regular 2D video, and there's a visible join where the edges of the 360° video meet. Drag the image to around 150° to see the join. Even if you enable the Gaussian Blur Repeat Edge Pixels option, a join is visible. 8. Select the Gaussian Blur effect in the
Effect Controls panel and press Delete to remove it. 9. In the Effects panel, find the VR Blur effect, in the Video category. Add the effect to the video category.
there is no visible join. This effect, and others in the Immersive Video category, will give you dedicated controls for 360° video. 11. When you have finished, use the Program Monitor Settings menu to deselect VR video mode. Removing lens distortion Action and point-of-view (POV) cameras such as the GoPro Hero and
DJI Inspire are popular. While the results can be amazing, the wide-angle lenses can introduce the appearance of lens distortion. You can use the Lens Distortion effect to correct lens distortion. Premiere Pro has a number of
built-in presets intended to correct distortion from popular cameras. You'll find the presets in the Effects panel, under Lens Distortion Removal. Remember, you can make a preset from any effect, so if you are working with a camera that has no built-in preset, you can always create your own. Rendering all sequences If
you have several sequences with effects you want to render, you can render them all as a batch, without opening each sequence to render in the Project panel, and choose Sequence > Render Effects In To Out. All effects that need to render in the selected
sequences will be rendered. USING THE RENDER AND REPLACE COMMAND If you are working on a low-powered system and your media is high resolution, you may find media tends to drop frames routinely when previewing. You may also see dropped frames when working with dynamically linked After Effects
compositions or complex thirdparty visual effects that don't support GPU acceleration. If all your media is high resolution, you may decide to use the proxy workflow, which allows you to switch between full-resolution and lower-resolution media file playback. However, if just one or two clips are difficult to play back, you
also have the option to render just those clips as a new media file and replace the original item in a sequence guickly and easily. To replace a sequence guickly and easily. To replace a sequence guickly and easily. To replace a sequence guickly and easily.
the proxy workflow. Here are the main settings: Source: Create a new media file that matches; the frame rate and frame size of the sequence, the original media, or a preset. Format: Specify your preferred file type. Different formats give access to different codecs. Preset: Choose a preset here. You can use a custom
preset created with Adobe Media Encoder or one of the several built-in options. Note The CineForm preset (which uses the CineForm codec) will work only if you are working with standard frame sizes, such as 1929x1080 HD. The CineForm codec requires a frame width that is evenly divisible by 16, and a frame height
that is evenly divisible by 8. For more information, see helpx, adobe, com/premiere-pro/using/goprocineformcodec, html. If you enable Include Video Effects for an option, Premiere Pro will incorporate the effects into the new file, which means there will no longer be effects that can be edited. Once you have chosen a preset
and a location for the new file, click OK and the sequence clip is replaced. A rendered and replaced clip is no longer directly linked to the original media—it's a new media file. This means, for example, changes made to a dynamically linked After Effect composition will not update in Premiere Pro. To restore the link to the
original item, right-click the clip and choose Restore Unrendered. If you had chosen the option to include video effects, they will be restored along with the original file. REVIEW OUESTIONS 1. What are two ways to apply an effect to a clip? 2. List three ways to add a keyframe. 3. Dragging an effect onto a clip turns on
its parameters in the Effect Controls panel, but you don't see the effect in the Program Monitor. Why not? 4. Describe how to save multiple effects to a custom preset. REVIEW ANSWERS 1. Drag the effect to the clip or select the clip and double-click the effect
in the Effects panel. 2. Move the playhead in the Effect Controls panel to where you want a keyframe and activate keyframe button; and with keyframing activated, move the playhead to a position and change a
parameter. You could also set up and use a custom keyboard shortcut. 3. You need to move the Timeline playhead to the selected clip to see it in the Program Monitor. Selecting a clip does not move the playhead to that clip. Also, many effects do not produce visible changes until you adjust the controls. 4. You can add
an adjustment layer above the clips you want to affect. You can then apply an effect to the adjustment layer that will modify all the clips you would like to apply the effect to and then drag the effect onto the group or double-click the effect in the Effects panel. 5. You can click
the Effect Controls panel and choose Edit > Select All. You can also hold Command (macOS) or Ctrl (Windows) while you select multiple effect headings in the Effect Controls panel menu. 13 Applying Color Correction and
Grading Lesson overview In this lesson, you'll learn how to do the following: Work in the Color workspace. Use the Lumetri Color correction effects. Fix exposure and color balance problems. Work with special color effects. Create a look
This lesson will take about two-and-a-half hours to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of
this book. Editing your clips together is just the first part of the creative process. Now it's time to work with color. In this lesson, you'll learn some key techniques for improving the look of your clips to give them a distinctive atmosphere. STARTING THE LESSON So far you've organized your clips, built sequences, and
applied special effects. All of these skills come together when working with color correction. Consider the way your eyes register color and light, the way your eyes register color and light eyes a
factors when considering the final look of your production. Premiere Pro has multiple color correction tools and makes it easy to create your own presets. In this lesson, you'll begin by learning some fundamental color correction skills and then explore some of the most popular color correction special effects, before using
them to deal with common color correction challenges. 1. Open Lesson 13.prproj in the Lessons folder. 2. Save the project as Lesson 13 Working.prproj. 3. Select Color in the Workspaces panel, or choose Window > Workspaces > Color, to switch to the Color workspace. 4. Choose Window > Workspaces > Reset To
Saved Layout, or double-click the Color workspace name, to reset the workspace to its default layout. This changes the workspace to a preset that was created to make it easier to work with color correction effects and, in particular, the Lumetri Color panel and Lumetri Scopes panel. About 8-bit video As mentioned
earlier, 8-bit video works on a scale from 0 to 255 for each of the three color channels. That means, for RGB color, each pixel has red, green, and blue (RGB) values somewhere on that scale, which combine to produce a particular color. You can think of 0 as 0% and 255 as 100%. A pixel that has a red value of 127 is
equivalent to having a red value of 50%. However, this is the way RGB images store color, and broadcast video uses a similar but different range, with a color system called YUV. YUV color uses the three color channels differently but still uses 8 bits per channel. If you compare the YUV scale with the 0 – 255 RGB
scale, you'll find that 8-bit YUV pixel values range from 16 to 235. TVs usually use YUV color, not RGB. However, your computer screen is RGB. If you are producing video for broadcast television, this can create issues because you are looking at your video footage on a different kind of screen than the kind it will
ultimately be viewed on. There is only one sure way of overcoming the uncertainty this creates: Connect a TV or calibrated broadcast monitor to your footage on that screen. The difference is a little like comparing a photograph you view on-screen in Photoshop with a printed version. The
printer and your computer screen use different color systems, and it's an imperfect translation from one to the other. Sometimes you will view footage with visible detail on an RGB screen (like your computer display) that disappears when viewed on a TV screen. You'll need to make adjustments to the color to bring those
details into the TV screen color range. Some TVs give you the option to display color as RGB, using a range of names such as Game Mode or Photo Color Space. If your screen is set up this way, you may see the full 0 to 255 RGB range. With some computer screens, Premiere Pro can adjust the way video colors are
displayed to more accurately mimic other screens (see "Understanding display color management"). UNDERSTANDING DISPLAY COLOR MANAGEMENT Computer monitors generally use a different system for displaying color than do TV screens and cinema projectors (see the sidebar "About 8-bit video" for more on
this). If you're producing video for online distribution, you can be reasonably confident your audience will be using a computer monitor similar to yours to view your content, and you can be confident the colors and brightness levels of your images will be comparable. If you're delivering video for TV or the cinema screen,
you'll need a way to view video that matches the type of screen it's intended for. Professional colorists have multiple display systems to check their work on. If they're working on a film intended for theaters, they'll use the same kind of projector a theater would use. Some computer monitors offer excellent color
reproduction—better than television screens. If you have enabled GPU acceleration (see Lesson 2, "Setting Up a Project") and you are using a computer monitor of this kind, Premiere Pro can adjust the way video is displayed in the Source Monitor and Program Monitors to match the colors a television screen would
display. Premiere Pro automatically detects if you have the right kind of monitor. To enable this feature, choose Premiere Pro > Preferences > General (Windows), and select Display Color Management (Requires GPU Acceleration). For more information about this feature, as
well as a helpful breakdown of the types of color displays and the ways colors will be adjusted by Premiere Pro, including examples, check out the excellent article by Jarle Leirpoll on display color management at: premierepro.net/color-management-premiere-pro. FOLLOWING THE COLOR ADJUSTMENT WORKFLOW
Now that you've switched to the Color workspace, it's a good time to switch to a different kind of thinking. With your clips in place, it's time to look at them less in terms of whether they fit together aesthetically and have the right look. There are two main phases to working with
color. Make sure clips in each scene have matching colors, brightness, and contrast so they look like they were shot at the same time, in the same time, in the same time, in the same time, a "look"—in other words, a particular tonality or color tint. You'll use the same tools to achieve both of these goals, but it's
common to approach them in this order, separately. If two clips from the same scene don't have matching colors, it creates a jarring continuity problem that will distract the audience. This might be your goal, but most of the time you will want your audience to focus on the story. Color correction and color grading You've
probably heard of both color correction and color grading. There is often confusion about the difference of approach. Color correction is usually aimed at standardizing the shots to make sure they fit together and to improve the appearance in
general—to give brighter highlights and stronger shadows or to correct a color bias captured in-camera. This is more craft than art. Color grading is aimed at achieving a look that conveys the atmosphere of the story more completely. This is more art than craft. There is, of course, a debate about where one ends and the
other begins, and being a nonlinear process, you will sometimes alternate between the two approaches. Exploring the Color workspace includes the Lumetri Color panel, which has a number of sections offering color adjustment controls, and places the Lumetri Scopes panel in the same group as
the Source Monitor. The Lumetri Scopes panel contains a set of image analysis tools. The remaining screen area is devoted to the Program Monitor, Timeline, and Project panels. The Timeline panel shrinks to accommodate the Lumetri Color panel. Select the Lumetri Scopes panel to bring it into view. To view the set of
scopes shown in the example, rightclick in the middle of the Lumetri Scopes panel and choose Presets > Vectorscope YUV/Parade RGB/Waveform YC. You can open and close any panel at any time, but this workspace focuses on finishing work, rather than organizing or editing your project. Tip If more than one track-
targeted track has a clip under the playhead, the clip on the highest targeted track is selected. While the Lumetri Color panel is displayed, seguence clips on tracks that have track targeted automatically as you scrub the playhead over them. This feature is important because adjustments made with
the Lumetri Color panel, like other effects, are always applied to the selected clip. You can apply an adjustment and guickly move the Timeline panel playhead over the next clip to select it, and then you can work on it. You can enable or disable automatic clip selection by choosing Seguence > Selection Follows
Playhead. Getting an overview of the Lumetri Color panel There is a regular effect available in the Effects panel called Lumetri Color panel. Like any other effect, its controls are displayed in the Effect Controls panel. The first time you make an
adjustment using the Lumetri Color panel, a Lumetri Color effect is applied to the selected clip. If there is a Lumetri Color effect are adjusted. In a sense, the Lumetri Color panel is a kind of remote control for the Lumetri Color effect settings in the Effect
Controls panel. As with any other effect, you can create presets, copy and paste Lumetri Color effects from one clip to another, and change the settings in the Effect Controls panel. You can apply more than one Lumetri Color effect to the same clip, each making different types of adjustment to produce a combined result.
This can make it easier to stay organized when working on complex projects. At the top of the Lumetri Color effect to work on. The same menu allows you to rename the current Lumetri Color effect to
make it easier to navigate your effects. You can also rename effects in the Effect Controls panel by right-clicking the effect name and choosing Rename. The Lumetri Color panel is divided into six sections. Each section provides a group of controls with different approaches to color adjustment. You can use any or all of
the sections to achieve the result you want. Note You can expand or collapse a section in the Lumetri Color panel by clicking its heading. Let's take a look at each section, a menu allows you to apply
a preset adjustment to your media in the form of an Input LUT (Lookup Table), which makes standard adjustments to media that might otherwise look guite flat. Note Each section has a check box to enable and disable it, making it easy to toggle the result and check the effect against the original image. A LUT is actually
a file, a little like an effect preset intended to adjust the appearance of clips. LUTs can be imported and exported for advanced color grading workflows. If you're familiar with Adobe Photoshop Lightroom, you'll recognize the list of simple controls in the Basic Correction section. You can work your way down the list making
adjustments to improve the look of your footage, or you can click the Auto button to let Premiere Pro work out some settings for you. Creative As the name suggests, the Creative Included, with a preview based on
your current clip. Click the arrows on the preview to review different Looks, and then click the image to apply a Look to the clip. You can make subtle adjustments to the color intensity, and there are color wheels configured to adjust the color for the shadow (darker) pixels or highlight (lighter) pixels in the image. Curves
With curves you can make precise adjustments to visuals. They make it easier to achieve natural-looking results with just a few clicks. These are some of the more advanced adjustments to the luminance, red, green, and blue pixels. Adjustments are made in a similar way to those you applied
to the Parametric Equalizer effect graph, or the audio rubber bands on clips. The position of the line in the graph indicates the adjustment. Tip You can reset most controls in the Lumetri Color panel by double-clicking the control. In addition to traditional RGB curves, there are multiple controls for hue, saturation, and luma
curves. Each of these gives precise control over a specific adjustment. For example, the first control, Hue Vs Sat, allows you to add (by clicking) and position (by dragging) control points to increase or decrease color saturation for specific hues. The next, Hue Vs Hue, allows you to change one hue into another. For an
exploration of these controls. check out blog.frame.io/2017/11/06/advanced-curvestechniques/. Color Wheels & Match This section provides precise control puck from the center of a wheel toward the edge to apply an adjustment. Each color
color adjustments to be made to precisely selected areas of an image, defined by selecting Hue, Saturation, and Luminance ranges. Using this section of the Lumetri Color panel you could selectively make a blue sky even bluer, or make a field of grass a deeper green, without affecting other areas of the picture. The Hue
Saturation Curves controls provide similar options, and vou are likely to choose one method or the other based on personal preference a simple vignette effect can make to a picture. A vignette was originally caused by camera lenses darkening the edge of the frame, but
modern lenses rarely have this issue. Instead, a vignette is commonly used to bring attention to the center of an image, and it can be highly effective, even when the adjustment is subtle. The Lumetri Color panel in action Because adjustments made using the Lumetri Color panel are added collectively as a regular
Premiere Pro effect, you can also enable and disable the effect in the Effect Controls panel or create an effect preset. Let's start with some prebuilt looks. 1. If it's not already open, open the sequence Jolie's Garden in the Sequences bin. This simple sequence has a series of clips that have a good range of color and
contrast. 2. Position the playhead over the first clip in the sequence. The clip should highlight automatically in the Timeline panel. 3. Click the Creative section heading in the Lumetri Color panel to reveal its controls. 4. Browse through several prebuilt looks by clicking the arrows on the right and left sides of the preview
display. When you see a look you like, click the preview image to apply it. 5. Try adjusting the Intensity slider to vary the amount of adjustment. This is a good time to experiment with the others will take time to master. Use the
clips in this sequence as a testing ground to learn about the Lumetri Color panel through experimentation; drag all the controls in detail later in this lesson. Understanding Lumetri Scopes essentials You might have wondered why
the Premiere Pro interface is so gray. There's a good reason: Human vision is subjective. In fact, it's also highly relative. If you see two colors next to each other, the way you perceive colors in your
sequence, Adobe has made the interface almost entirely gray. If you've ever seen a professional color-grading suite, where artists provide the finishing touches to films and television programs, you've probably noticed that most of the room is gray. Colorists sometimes also have a large gray piece of card, or a section of
a wall, that they can look at for a few moments to "reset" their vision before checking a shot. The combination of your subjective vision and the variations in the way computer monitors display color and brightness means we need a way to objectively measure color and brightness. Video scopes
provide just that. And they're used throughout the media industry; learn them once, and you'll be able to use them everywhere! 1. Open the sequence Lady Walking. 2. Position the Timeline playhead so that it's over the clip in the sequence. 3. The Lumetri Scopes panel should be sharing the frame with the Source
Monitor. Click to select the panel and make it active, or select it in the Window menu. 4. Open the Lumetri Scopes panel Settings menu, and choose Presets > Premiere 4 Scope YUV (float, no clamp). You should see the lady walking in the street in the Program Monitor, along with the synchronized display in the
Lumetri Scopes panel. For an exploration of the Lumetri Scopes panel, see blog.frame.io/2017/09/27/introduction-to-videoscopes/. Working with the Lumetri Scopes panel displays an array of industry-standard meters to get an objective view of your media. The full complement of displays can
be a little overwhelming at first, plus you'll have smaller graphs because they are all sharing one panel. You can turn individual items on the list. Tip You can also access the Lumetri Scopes Settings menu by right-clicking anywhere in the panel. In the Settings
menu, you can specify whether you are working to an ITU Rec. 2020 (UHD), ITU Rec. 709 (HD), or ITU Rec. 601 (SD) color space. If you're producing content for broadcast television, you will almost certainly be working to one of these standards. If not or if you're not sure, you will probably be happy choosing 709. At the
bottom right of the Lumetri Scopes panel, you can choose to display the scopes in 8 bit, float (which is 32-bit floating-point color), or even HDR. The option you choose does not change the way effects are rendered but does change the way the information is displayed in the scopes. You'll want to choose an
option that matches the color space you're working in. HDR refers to High Dynamic Range, which has a much bigger range between the darkest and brightest parts of the picture. Though HDR is beyond the scope of these lessons, it's an important new technology and one that will be increasingly relevant as new
cameras and displays support it. The Clamp Signal option constrains the scopes to standard legal levels for broadcast television. Again, this doesn't impact the image or the result of your effects—it's a matter of personal preference if you would like to limit the range of the scopes in this way to see the scales more clearly
Let's simplify the view. Use the Lumetri Scopes settings menu to click each of the selected items to deselect them and remove it. Let's take a look at two of the main components in the Lumetri Scopes panel. Waveform Right-click in
the panel and choose Presets > Waveform RGB. If you're new to waveforms, they can look a little strange, but they're actually a relatively simple graph. They show you the brightness and color saturation of your images. Every pixel in the current frame is displayed in the waveform. The brighter the pixel, the higher it
appears on the graph. The pixels have their correct horizontal position (that is, a pixel halfway across the screen will be displayed halfway across the vertical position indicates brightness or color intensity; the brightness and
color intensity waveforms are displayed together in this version of the waveform, using different colors. 0, at the bottom of the scale, represents a pixel that is fully bright. On the RGB scale, this value would be 255 (you can see this scale
on the right side of the waveform display). This all might sound rather technical, but in practice it's straightforward. There's a visible baseline that represents "fully bright." The numbers on the edge of the graph might change depending on your settings, but the use is
essentially always the same. You can view the waveform in several ways. To access each type, open the Lumetri Scopes Settings menu and choose Waveform Type, followed by one of these options: RGB: Shows the Red, Green, and Blue pixels in their own colors. Luma: Shows the brightness (luminance) value of
pixels against a scale of -20 to 120, called IRE (Institute of Radio Engineers). This allows for precise analysis of bright spots and contrast ratio. YC: Shows the image luminance (brightness) in green and the chrominance (color intensity) in blue. YC No Chroma: Shows the luminance only, with no chrominance. Why YC?
The letter C, for chrominance, makes simple sense, but the letter Y, for luminance, takes a little explaining. It comes from a way of measuring color, and the use of Y to represent
brightness, or luminance, stuck. Let's try this display a little. 1. Continue using the Lady Walking sequence. Set the Timeline playhead to 00:00:07:00 so you can see the lady against the smoky background. 2. Set the waveform display to YC No Chroma. This is a brightness-only waveform, with no color information, that
shows a full range, with no limits set for broadcast television. The smoky parts of the image, and they are clearly visible in
the middle area of the waveform display. 3. Expand the Basic Correction section of the Lumetri Color panel, 4. Experiment with the Exposure, Contrast, Highlights, Shadows, Whites, and Blacks controls, As you adjust the controls, watch the waveform display to see the result. If you make an adjustment to the image and
then wait a few seconds, your eyes will adjust to the new appearance, and it will seem normal too. Which is correct? Ultimately, the answer is based on perceived quality. If you like what you see, it's right. However, the waveform
display will give you objective information about how dark or bright pixels are or how much color is in the shot, which is useful when attempting to meet delivery standards. Tip It can sometimes seem as if the waveform display is showing an image. Remember, the vertical position of the pixels in your images is not used in
a waveform display. If you scrub through the sequence or play the sequence, you'll see the waveform display update live. The waveform display is useful for showing how much contrast you have in your images (the difference between the bright and dark areas of the image) and for checking whether you are working on
video that has "legal" levels (that is, the minimum and maximum brightness or color saturation permitted by a broadcaster). Broadcasters adopt their own standards for legal levels, so you will need to find out for each case where your work will be broadcast. You can see right away that you do not have great contrast in
this shot. There are some strong shadows but few highlights in the waveform display, it means there's no visible detail. In the following example, the shadows have been darkened so much, they're flattened at the bottom of the
waveform. The result is not necessarily bad and might be exactly the look you are seeking. It's just important to know when adjustments are so extreme that detail is being lost. Reset the Lumetri Color panel by clicking the Reset Effect button at the upper-right corner of the panel. YUV vectorscope Whereas the Luma
waveform shows luminance in terms of the vertical position of pixels displayed, with brighter pixels displayed at the bottom, the vectorscope shows only color. 1. Open the sequence Skyline. 2. Open the Lumetri Scopes Settings menu, and choose Vectorscope YUV; then open the
Settings menu again, and choose Waveform (YC No Chroma) to disable it. Note The HLS (Hue, Luminance, Saturation) vectorscope is sometimes used by film-grading artists in preference to the YUV vectorscope. It has no quiding overlay and is a little harder to read if you are not already familiar with it. Pixels in the
image are displayed in the vectorscope. If a pixel appears in the center of the circle, it has no color saturation. The closer to the edge of the circle, the more colors. R = Red G = Green B = Blue There are two boxes for
each target. The smaller, inner box is at 75% saturation, the YUV color limit, while the larger, outer box is at 100% saturation, the RGB color extends to a greater level of saturation, the YUV. The thin line connecting the inner boxes shows the YUV color gamut (the range of YUV colors). You'll also see a
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series of targets indicating secondary colors. YI = Yellow Cy = Cyan Mg = Magenta The closer a pixel is to one of these targets, the more of that color it has. Unlike the waveform display, which indicates the horizontal position of each pixel, no position information is indicated in the vectorscope. It's clear enough to see
what's happening in this shot of Seattle. There's a lot of blue, and there are a few spots of red and yellow. The small amount of red is indicated by the streak of peaks reaching out toward the R marking in the vectorscope. About primary and secondary colors Computer screens and televisions use additive color, which
means the colors are created by generating light in different colors and combining them to produce a precise mix. When you draw with color on paper, it is usually white paper, which reflects a full spectrum of colors. You subtract from the white of the paper by adding pigment. Because the pigment absorbs light in a
portion of the spectrum and prevents those parts of the light from being reflected, this is called subtractive colors. Red, green, and blue are the primary colors used by video displays. Television screens and your computer monitor combine these three colors in varying relative amounts to produce the colors you see. You
produce white by combining equal amounts of red, green, and blue. There's a beautiful symmetry to the way a standard color wheel is essentially what the vectorscope displays. Any two primary colors will combine to produce a secondary color. The secondary colors for additive color, yellow,
cyan, and magenta, appear opposite the remaining primary color on a color wheel. For example, red and green (two of the primary colors) combine to produce yellow, which is the opposite to the primary colors used in subtractive
color. It's an elegant symmetry! For a more detailed explanation of color, see . The vectorscope is helpful because it gives you objective information about the colors in your sequence. If there's a color cast, perhaps because the camera was not calibrated properly, it's often obvious in the vectorscope display. You can
use one of the Lumetri Color panel controls to reduce the amount of the unwanted color or add more of the opposite color. Some of the vectorscope, making it easy to see what you need to do. Let's make an adjustment and observe the
result in the vectorscope display. Tip You can jump to 00:00:01:00 by clicking the timecode in the Source Monitor, or Timeline playhead at 00:00:01:00, adds one pair of zeros. 1. Continue working with the Skyline seguence. Position the Timeline playhead at 00:00:01:00, adds one pair of zeros. 1.
where the colors are more vivid than at the end of the clip. 2. In the Lumetri Color panel, expand the Basic Correction section. 3. While watching the result in the vectorscope display, drag the Temperature slider from one extreme to the other. The pixels displayed in the vectorscope move between the orange and blue
areas of the display. 4. Reset the Temperature slider by double-clicking the slider control. 5. In the Lumetri Color panel, drag the Tint slider from one extreme to the other. The pixels displayed in the vectorscope move between the green and magenta areas of the display. 6. Reset the Tint slider by double-clicking the
slider control. By making adjustments while checking the vectorscope, you can give an objective indication of the change you're making. RGB parade RGB. The RGB parade provides another form of waveformstyle display. The difference is that the
red, green, and blue levels are displayed separately. To fit all three colors in, each display is squeezed horizontally to onethird of the tumetri Scopes Settings menu or by rightclicking in the Lumetri Scopes panel and choosing Parade Type. The
three parts of the parade have similar patterns in them, particularly where there are white or gray pixels, because these parts will have equal amounts of red, green, and blue. The RGB parade is one of the most frequently used tools in color correction because it clearly shows the relationship between the primary color
channels. To see the dramatic impact color adjustments can have on the parade, go to the Basic Correction section of the Lumetri Color panel and try adjusting the White Balance Temperature and Tint controls. Be sure to reset them when you finish by double-clicking each control. USING COMPARISON VIEW Let's
take a moment to consider two important stages in the process when adjusting colors. Color correction: Correction for color cast or brightness issues and matching shots in the same location or that they match an in-house
standard for final delivery. Color grading: Establishing a creative look for shots on a shot-by-shot, scene-by-scene, or sequence-wide basis. When color correcting, it's helpful to compare one shot with another to achieve a match. This is especially helpful when the two shots come from different scenes, meaning some
color variation is expected even if the overall tone should be similar. Note The Comparison View button may not be visible on smaller displays. In the Program Monitor click the double arrow in the lower-right corner and choose Comparison View from the menu. You can drag your current seguence from the Project panel
into the Source Monitor to use that monitor to use that monitor as a reference for side-by-side comparison, but there's an easier way: You can set the Program Monitor to Comparison View button in the Program Monitor. Let's take a look at the new controls. Reference frame: The frame you are
using as a reference or for automatic color matching. Reference position: The timecode for the current frame. Shot or Frame Comparison: Toggle between using another frame as a reference and using the current state of the current frame. The latter option is
useful when working on effects, as it allows a constant "before-and-after" view when working with effects so your eyes can't adjust to the finished version. Side by Side: View the two images as a single vertically split screen, with a divider you can drag to
reposition. Horizontal Split: The same as the Vertical Split option but now with a horizontal divider. Swap Sides: Switch the left and right images. Current frame: The frame you're working on now. When you first switch to Comparison view, it might seem like there are lots of new buttons to remember. They all work
together to give you precise control over the two clips you are comparing and how they are displayed. Let's try matching two clips: 1. Open the Jolie's Garden sequence, and position the Timeline playhead over the last clip in the sequence. 2. In the Lumetri Color panel, open the Color Wheels & Match section. If the
Program Monitor is not already set to comparison view, click the Lumetri Color panel Comparison View button; or click this button again to leave Comparison view). 3. Try changing the reference frame in one of these ways: 1. Drag the mini playhead under the
reference frame to a new position. 2. Click the reference position timecode, and enter a new time or scrub the timecode to choose another time. 3. Click the reference position timecode to jump between clips. 4. Try the split view options, and drag the
divider between the two sides of the split. Viewing two parts of your sequence using Comparison view is helpful, and it's the starting point for an automated color adjustment available in the Lumetri Color panel. Stay in Comparison view, ready for the next exercise. MATCHING COLORS One of the most powerful and
time-saving features of the Lumetri Color panel is the option to automatically match colors between two clips. To use this feature, you'll switch to Comparison view in the Program Monitor, choose a reference frame and a current frame, and click the Apply Match button in the Color Wheels & Match section of the Lumetri
Color panel. The result will not always be perfect, and you may need to experiment with different reference and current frame selections to get a closer match, but it's often close enough for you to make final adjustments that are guided by the initial automated adjustment. If Premiere Pro gets the color 80% right, it's a
huge timesaver. Let's try this with our current sequence. 1. Continuing from the previous exercise: Set the reference frame to 00:01:00:00. 2. Set the Timeline panel playhead to the start of the last clip in the sequence. You can use the Up and Down arrow keys to quickly jump between the clips in the sequence. 3. These
are clips from different scenes in the same film. They don't need to have exactly the same colors, but it would be helpful if the skin tones matched better. Make sure the Face Detection option is selected in the Lumetri Color panel. This way, Premiere Pro will automatically detect faces and prioritize matching those tones.
4. Click the Apply Match button in the Lumetri Color panel. A color adjustment is applied to the selected clip. 5. The difference is clear. However, within a few moments, your eyes are likely to adjust to the new appearance of the current frame. To help see the change more clearly, toggle the Color Wheels & Match check
box off and on repeatedly. 6. Click the Comparison View button to switch back to the regular playback view in the Program Monitor. The automated color matching offered by the Lumetri Color panel is not likely to produce an identical color match, partly because the perception of color is so subjective and contextual.
However, all of the adjustments that were applied are editable, so you can finesse the result until it's perfect. EXPLORING THE COLORADJUSTMENT EFFECTS As well as adjusting color using the Lumetri Color panel, there are a number of regular color adjustment effects worth familiarizing yourself with. Just as with
the other effects, you can use keyframes to modify the settings over time. In fact, the same is true of the Lumetri Color effect using the search box at the top of the Effects panel. Often, the best way to learn how to use an effect is to
apply it to a clip that has a good range of colors, highlights, and shadows and then adjust all the settings to see the result. As you build familiarity with Premiere Pro. you may find yourself uncertain about which effect is best for a particular purpose; this is normal! There are often several ways of achieving the same
outcome in Premiere Pro, and sometimes the choice comes down to which interface you prefer. The following are a few effects panel. Using coloring effects. Such as Black & White, Tint, and Leave Color, reduce or simplify colors and allow you to
choose a tint. Tip While in the Color workspace, the Effects panel may not be easy to locate. You can always access any panel by choosing it from the Window menu. Black & White Convert any image to simple black and white. This is useful when combined with other effects that can add color. Black-and-white images
can often withstand much stronger contrast. Consider combining effects for the best results. Tint Use the evedroppers or color pickers to reduce any image to just two colors. Whatever you map to black and white replaces any other colors in the image. Leave Color This filter is sometimes faster than using the advanced
HSL Secondary section of the Lumetri Color panel or the Hue Saturation Curves controls. Use the eyedropper or color pickers to select a color you want to keep. Adjust the Amount To Decolor setting to turn the saturation down on every other color. Use the Tolerance and Edge Softness controls to produce a subtler
effect. Experiment with the Match Colors menu, choosing between Using RGB and Using Hue. You will find results vary depending on the image, Using the Video Limiter effects, the color correction repertoire available in Premiere Pro includes effects used for professional video production.
When video is broadcast, there are specific limits that are permitted for maximum luminance, and color saturation. Although it's possible to confine your video levels to the limits permitted using manual controls, it's easy to miss parts of your sequence that need adjustment. In the Effects panel, the
Video Limiter effect, found in Video Effects > Color Correction, automatically limits the levels of clips to ensure they meet the standards you set. Check the limits approved by your broadcaster before adjusting the Clip Level setting. Next, it's simply a question of choosing the Compression Before Clipping amount. A
gradual compression of the higher levels is applied to produce a more natural-looking result before the absolute cutoff level set in the Clip Level menu. Tip Although it's common to apply the Video Limiter effect to individual clips, you might also choose to apply it to the whole sequence by using it on an adjustment layer
or by enabling it as an export setting (see Lesson 16, "Exporting Frames, Clips, and Sequences"). The compression can be set to begin 3%, 5%, 10%, or 20% before the cutoff level. If you turn on the Gamut warning, pixels that would have gone above the Clip Level setting are highlighted in the Gamut Warning color.
This is useful when reviewing your sequence, but be sure to deselect the Gamut Warning option before exported file! Using Lumetri Color presets in the Effects panel In addition to the controls available in the Lumetri Color panel, there are a number of
Lumetri Color presets available in the Effects panel. These are a fantastic way to get started with advanced color adjustments, and as they are presets, you can reveal previews of each of the built-in Lumetri Color preset
effects. You apply a Lumetri Color preset effect in the same way that you would apply any other effect available in the Effects with an input LUT applied in the Basic Correction settings or a Look applied in the Creative settings. You can switch or remove these in the
Effect Controls panel or in the Lumetri Color panel, FIXING EXPOSURE PROBLEMS Let's look at some clips that have exposure issues and use some of the Lumetri Color panel controls to address them. 1. Make sure you are in the Color workspace, and reset it to the saved version if necessary. 2. Open the sequence
Color Work. 3. In the Lumetri Scopes panel, right-click or open the Settings menu to choose Presets > Waveform RGB. This is just a quick way to close any other scopes panel, right-click or open the Settings menu to choose Waveform Type >
YC No Chroma. This changes the display to a waveform that uses the standard broadcast television range, which is a useful reference for most video projects. 5. Position the Timeline playhead over the first clip in the sequence. It's the shot of the lady walking. You're going to add some contrast. The environment is
smoky; 100 IRE (displayed on the left on the waveform) means fully exposed, and 0 IRE means not exposed at all. No part of the image comes close to these levels. Your eye quickly adjusts to the image, and it'll soon appear fine. Let's see whether you can bring it to life a little. 6. In the Lumetri Color panel, click the
Basic Correction heading to display that section. 7. Use the Exposure and Contrast controls to make adjustments to the shot while checking the waveform display to make sure the image doesn't become too dark or too light. You'll get the best perceived results if you have a frame from a later part of the clip on the
screen. Around 00:00:07:09 there's a section of sharp focus. Try an Exposure setting of 0.6 and a Contrast setting of 60. 8. Your eyes are likely to adjust quickly to the new image before and after. Tip If the Lumetri panel is active
you can use the Bypass Lumetri Color Effects keyboard shortcut. While holding the key, all instances of the Lumetri Color effect are temporarily turned off. By default, this shortcut has no key associated with it. For information on assigning keyboard shortcuts, see Lesson 1, "Touring Adobe Premiere Pro." The subtle
adjustment you made adds depth to the image, giving it stronger highlights and shadows. As you toggle the effect off and on, you'll see the waveform changing in the Lumetri Scopes panel. The image still doesn't have bright highlights, but that's fine because the colors, particularly in the fog, are mainly midtones. Fixing
underexposed images Now let's work with an underexposed image. 1. Switch to the Effects workspace. 2. Position the Timeline playhead over the second clip in the Color Work sequence. When you first look at this clip, it might look fine. The highlights don't look strong, but there's a reasonable amount of detail
throughout the image. The face, especially, is sharp and detailed. Tip The Lumetri Scopes panel isn't limited to the Color workspace. You can always open it from the Lumetri Scopes panel so you can view this clip in the waveform. At the bottom of the waveform there are quite a few dark
pixels, with some touching the 0 IRE line. In this instance, it looks like the missing detail is in the shoulder of the suit, on the left. The problem with such dark pixels is that increasing the brightness will simply change the strong shadows into gray, and no detail will emerge. 4. In the Effects panel, locate the Brightness &
Contrast effect, Apply the effect to the clip, 5. Drag the panel name for the Lumetri Scopes panel to the Program Monitor, This way you can view the Effect Controls panel. Program Monitor, and Lumetri Scopes panels, all at once, 6. Use the Brightness
control in the Effect Controls panel to increase the brightness. Rather than clicking the blue number, and typing a new number, drag to the right so you can see the change happening incrementally. As you drag, notice that the whole waveform moves up. This is fine for bringing out the highlights in the image, but the
shadows remain a flat line. You're changing the black shadows to gray. If you drag the Brightness control all the way to 100, clipping the highlights a little, you'll see just how flat the image still is. 7. Remove the Brightness & Contrast effect. 8. Switch back to the Color workspace. Try making an adjustment using the RGB
Curves control in the Lumetri Color panel. Here's an example of an RGB Curves adjustment that would improve the image. Tip The Brightness & Contrast effect offers a quick, easy fix, but it's also easy to accidentally clip the black (dark) or white (bright) pixels, losing detail. The Lumetri Color panel Curves control keeps
adjustments inside the 0 to 255 scale. 9. Experiment with the third clip in the sequence. This clip demonstrates that there are limits to what can be "fixed in post!" That doesn't mean it's unusable, but you'd probably have to apply some significant artistic effects to create a look that seemed intentional. 10. Try the fourth
clip in the sequence. This drone shot of a desert was underexposed. Drag the lowest RGB Curves control point to the left, until the lightest pixels touch the top of the
range. 12. Finally, click in the middle of the curve to add a control point to the RGB Curves control and drag up and left until you are satisfied with the result— a dramatic improvement! Fixing overexposed images The next clip you'll work with is overexposed. 1. Move the Timeline playhead to the fifth clip in the sequence.
A lot of the pixels are burned out. Just as with the flat shadows in the second clip in the second clip in the sequence, there's no detail in burned-out highlights. This means that lowering the brightness will simply make the character's skin and hair gray; no detail will emerge. 2. Notice that the shadows in this shot don't reach the bottom of
the Waveform Monitor. The lack of properly dark shadows has a flattening effect on the image. 3. Try using the Lumetri Color panel to improve the contrast range. You might produce acceptable results, although the clip will definitely end up looking processed. When is color correction right? Making adjustments to images
is highly subjective. Though there are precise limits for image formats and broadcast technologies, whether an image should be light, dark, bluetinted, or green is ultimately a subjective choice. The reference tools that Premiere Pro provides, such as the Lumetri Scopes panel, are a helpful guide, but only you can decide
when the picture looks right. If you're producing video for display on televisions, it's vital that you have a television screen connected to your Premiere Pro editing system to view your content. Television screens usually display color differently from computer monitors, and consumer screens sometimes have special color
modes that change the appearance of video. For professional broadcast television, editors will usually have a carefully calibrated preview monitor connected to their editing system. The Display Color Management option helps to show the colors as they might be displayed on a TV, but nothing compares to a calibrated
monitor. The same rule applies if you are producing content for digital cinema projection, Ultra High Definition TV, or High Dynamic Range TV. The only way to know exactly how the picture will look is to view it using the destination medium. This means if your ultimate destination is a computer screen, perhaps as web
video or part of a software interface, you are already looking at the perfect test monitor. CORRECTING COLOR OFFSET Your eyes adjust to compensate for changes in the color of light around you automatically. It's an extraordinary ability that allows you to see white as white, even if objectively it's orange, for example,
because it's lit by tungsten light. Cameras can automatically adjust their white balance to compensate for different lighting in the way that your eyes do. With the right calibration, white objects look white, whether you are recording indoors (under oranger tungsten light) or outdoors (in bluer daylight). Sometimes automatic
settings are hit or miss, so professional shooters often prefer to adjust white balance manually. If the white balance is set wrong, you can end up with some interesting results. The most common reason for a color balance problem in a clip is that the camera was not calibrated properly. Balancing with the Lumetri color
wheels Let's try using the Lumetri Color workspace, and reset it if necessary, 2. Position the Timeline playhead over the last clip in the Color Work seguence, 3. In the Lumetri Color panel, expand the Basic Correction
section, and click the Auto button to automatically adjust the levels. The Tone controls change to reflect the new levels. Premiere Pro has identified the darkest pixels and the brightest pixels.
the Lumetri Scopes panel to bring it to the front of the panel group. 5. Right-click the middle of the Lumetri Scopes panel and make sure that only the waveform is selected. Then, right-click again and make sure that only the waveform is selected. Then, right-click again and make sure that only the waveform is selected. Then, right-click again and make sure that only the waveform is selected.
mixed lighting, with bluer daylight coming from the window and warmer tungsten light coming from the interior of the Lumetri Color panel, use the Temperature slider to push the colors toward the orange. You'll need to push the adjustment all the way to 100 to see a
reasonable result because the color shift is so strong. The result is an improvement, but perhaps it could be better. The darker pixels in this shot are generally lit by the bluer daylight. This means different color wheels will interact with different areas
of the picture in convincing and natural ways. 7. Expand the Color Wheels & Match section of the Lumetri Color wheel to pull the color toward the orange, use the Midtones color wheel to pull the color toward the red, and adjust the Highlights
color wheel to pull the color toward blue. 8. You've adjusted the color wheels to warm up the shadows and cool down the highlights. Experiment with the midtones to obtain the most natural result possible. Use the image as a guide. Experiment with the other controls in the Lumetri Color panel to see whether you can
improve the result further. For more precise control of the image, you can add two Lumetri effects and mask them using the controls panel. With one effect constrained to the left side of the image and another constrained to the right, you will be able to make adjustments to suit the interior and
exterior lighting in more natural ways. Making a secondary color adjustment The Lumetri Color panel allows you to make adjustments that are limited to a particular range of hues, a level of brightness. This is useful if you want to bring out the blue in a subject's eyes or give a flower a color
boost. Let's try it. 1. Open the sequence Yellow Flower, and position the Timeline playhead over the first clip. This sequence has two shots, each with clearly defined areas of color. 2. Expand the HSL Secondary section of the Lumetri Color panel. 3. Click the first Set Color eyedropper to select it, and then click the yellow
petals of the flower to pick that color. If you hold Command (macOS) or Ctrl (Windows) while clicking, the sample that is captured is based on a 5×5 pixel average. The Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the petal you clicked. 4. Drag the H. S. and L (Hue, Saturation, and Luminance selection controls update based on the area of the area of the Albaration controls update based on the Albaration controls update based on the Albaration controls update based on the Albaration controls update
Luminance) color range selection controls to expand the selection. Your initial selection probably selected only a few pixels, as there is quite a lot of variation in the yellow petals. The upper triangles represent the hard-stop range of the selection. The lower triangles extend the selection with a softening that reduces hard
edges. As you drag the controls, the image hides unselected pixels with gray. When you release the control, the image returns. 5. Experiment with the Denoise and Blur options in the Refine category. These help to smooth the selection range, rather than adjusting the image contents. 6. Once you're happy you have
selected all the pixels in the petals of the flower, reset the Temperature and Tint controls, and make a subtler adjustment. The adjustment with the second clip in the seguence. Select the pixels in the blue sky,
and then increase the color saturation and add a blue tint to the selection. Making precise adjustments with curves The Hue Saturation of the Lumetri Color panel offer precise control when adjusting hue and luminance. Though there are several different controls, they all work
essentially the same way. Each control focuses on a different type of selection and adjustment, Curves start as a straight line but become curved when you add control points to them by clicking. The position of the control points can be set by dragging, and this determines the type of adjustment applied. The first part of
the name of a curve indicates its horizontal axis, while the second part of the name indicates the vertical axis. Let's take a look at each one. Hue Vs Hue: Select pixels with a particular hue, and change that hue. Hue Vs Luma: Select
pixels with a particular hue, and change their brightness (luma). Luma Vs Sat: Select pixels with a particular brightness (luma), and change their level of color saturation. This is particularly useful for reducing the impact of
highly color saturated parts of an image while leaving the rest of the image untouched. As with so many effects, the best way to learn what each of these controls on some clips and apply extreme adjustments. Let's try these controls on some clips. 1. Open the sequence The Ancestor Simulation. Play
the sequence to familiarize yourself with the shots. These images have muted colors with some specific regions with distinguishable colors, such as the flowers on the table. 2. Expand the Curves section of the Lumetri Color panel, and position the Timeline playhead over the first clip. 3. At the top right of each Hue
Saturation Curves control, there's an eyedropper that you use to automatically set a control point based on the part of the image you click and to add two control points (one on either side) to separate the adjustment you'll make from the rest of the curve. Use the eyedropper for the Hue Vs Sat curve to select the petals of
the reddish flower closest to the camera on the table. 4. The selection is right at the edges of the hue graph. Drag the scroll bar at the bottom of the curve control points more easily. 5. Drag the middle control point up to increase the saturation for the flower. 6. Use the eyedropper for the Sat Vs Sat
curve to select the pale beige color of the sofa. This selects pixels that have little color saturation. Drag the left control point up, guite high in the graph, to bring some life to the sofa and similar pale areas of the image. Because you exclusively selected pixels that originally had little color saturation, other areas of the
image with more saturation are unaffected. The result is a natural-looking adjustment. 7. Experiment with trees, try using the Hue Vs Sat curve to increase the saturation of the green in the trees and then use the Hue Vs Luma curve to
darken the leaves. This adds more visual interest and contrast without making an adjustment to the whole clip. Note The example video clips are low resolution and are compressed to keep file sizes small. The result is softer edges in images than you can expect when working with your original media files. USING
SPECIAL COLOR EFFECTS Several effects available in the Effects panel give you great creative control over the colors in your clips. Using Gaussian Blur While it's not technically a color adjustment effect, adding a tiny amount of blurring can soften the results of your adjustments, making an image look more natural
Premiere Pro has a number of blur effects. The most popular is Gaussian Blur, which has a naturallooking, smoothing effect on an image. Using Stylize category of effects includes some dramatic options, some of which, like the Mosaic effect, you'll use for more functional applications in combination
with an effect mask, such as hiding someone's face. The Solarize effect gives vivid color adjustments from a file The Lumetri Color panel includes the list of built-in looks you experimented with earlier, and as you
have found, there are a number of Lumetri color presets in the Effects panel to get you started. These effects all make use of the Lumetri effect allows you to browse to an existing LOOK, LUT, or CUBE file to apply nuanced, subtle color adjustments to your
footage. It's possible you will be given a LOOK or LUT file to use as a starting point for your color adjustments. It's increasingly common for cameras and location monitors to employ a color reference file of this kind. It helps to use the same reference when you are working on footage in post-production. To apply an
existing LOOK, LUT, or CUBE file, open the Input LUT menu in the Basic Correction section, at the top of the Lumetri Color panel, and choose Browse. CREATING A DISTINCTIVE LOOK Once you've spent a little time with the color correction effects available in Premiere Pro, you should have a feel for the kinds of
changes you can make and the impact those changes have on the overall look and feel of your footage. You can also apply an effect to an adjustment layer to give your seguence, or part of a seguence, an overall look. Let's try using an adjustment layer
to apply a color adjustment to a scene. 1. Open the Theft Unexpected sequence, 2. In the Project panel, open the New Item menu and choose Adjustment Layer. The settings automatically match the current sequence, so click OK. Tip You may need to resize the Project panel to see the New Item menu. 3. Drag the new
adjustment layer to the beginning of the Video 2 track in the sequence. The default duration for adjustment layers is the same as the duration of still images. It's too short for this sequence. A. Trim the adjustment layers in this
way on a sequence that has graphics, such as titles, you may want to ensure that the adjustment layer is on a track between the titles and the video. Otherwise, you will adjust the appearance of your titles too. 5. In the Effects panel, browse to Lumetri Presets > SpeedLooks > Universal. Drag one of these SpeedLooks
onto the adjustment layer. The look will apply to every clip in the sequence, and you can modify it using the controls in the Effect Controls panel or in the Effects panel are applied as regular effects, so it's easy to combine them—just apply another. You can apply any
standard visual effect this way and use multiple adjustment layers to apply different looks to different scenes. The Lumetri Color effect is selected at the top of the panel. This is just a brief introduction to color adjustment, and there's an enormous amount more to explore.
It's worth investing the time to familiarize yourself with the advanced controls in the Lumetri Color panel. There are a great many visual effects that can add nuance or a striking look to your footage. Experimentation and practice are key to developing your understanding in this important and creative aspect of post-
production. For an exploration of the Lumetri Color panel controls, check out blog, frame.io/2018/05/21/premiere-lumetri-guide/. REVIEW OUESTIONS 1. How do you change the display in the Lumetri Scopes panel? 2. How do you access the Lumetri Scopes panel when not viewing the Color workspace? 3. Why should
you use the vectorscope rather than depending on your eyes? 4. How can you apply a look to a sequence? 5. Why might you need to limit your luminance or color levels? REVIEW ANSWERS 1. Right-click in the panel, or open the Settings menu, and choose the display type you would like. 2. Choose the Lumetri
Scopes panel, like any panel, from the Window menu. 3. Color perception is highly subjective and relative. Depending on the colors differently. The vectorscope display gives you an objective reference. 4. You can use effect presets in the Effects panel to apply the same color
correction adjustments to multiple clips, or you can add an adjustment layer and apply the effects to that. Any clips on lower video tracks covered by the adjustment layer will be affected. 5. If your sequence is intended for broadcast television, you'll need to ensure you meet the stringent requirements for maximum and
minimum levels. The broadcasters you work with will be able to tell you their required levels, 14 Exploring Compositing Techniques Lesson overview In this lesson, vou'll learn how to do the following: Use the alpha channel. Use compositing techniques. Work with a greenscreen. Use mattes. This
lesson will take about 60 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book.
Anything that combines two images is compositing, including blending, frame-sharing, layering, keying, masking, and cropping. Premiere Pro has powerful tools that enable you to combine layers of video, photos, graphics, and titles in your sequences. In this lesson, you'll learn about the key technologies that make
compositing work and about approaches to preparing for compositing. STARTING THE LESSON Until now, you have created edits in which you have transitioned between one image and another or edited clips onto upper video tracks to have them appear
in front of clips on lower video tracks. In this lesson, you'll learn about ways to combine those layers of video. You'll still use clips on upper and lower tracks, but now they will become foreground and background elements in one combined composition. This title.....combines with this video.....to produce this composite
image. The combination of images might come from cropping part of the foreground image, masking, or keying—setting pixels with a specific color to become transparent—but whatever the method, the way you edit clips onto a sequence is the same as ever. Let's begin by learning about the important concept of alpha
which explains the way pixels are displayed, and then try several compositing techniques. 1. Open Lesson 14 Working project as Lesson 14 Working Effects workspace by clicking Effects in the Workspaces panel or by choosing Window > Workspaces > Effects. 4.
Reset the workspace by opening the Effects menu in the Workspaces panel and choosing Reset To Saved Layout, by choosing Window > Workspaces > Reset To Saved Layout, or by double-clicking the Effects workspace name in the Workspaces panel. WHAT IS AN ALPHA CHANNEL? Cameras record the red,
green, and blue parts of the light spectrum as separate color channels. Because each channels are commonly described as monochromatic (single-color) channels to produce the corresponding primary color channels. They are
combined using what's called additive color to create a complete RGB image. You see the three channels combining multiple monochromatic colors to produce a full color range is a little like combining two mono audio channels to produce a stereo mix. Finally, there is a
fourth monochromatic channel: alpha. The fourth channel defines no colors at all. Instead, it defines opacity—how visible a pixel is. Several different words are used to describe this fourth channel, including visibility, transparency, mixer, and opacity. The name is not particularly important. What matters is that you can
adjust the opacity of pixels independently of their colors because the alpha channel is separate from the color channels. Just as you might use color correction to adjust the amount of red in a clip, you can use Opacity controls to adjust the amount of alpha. By default, the alpha channel, or opacity, of clips is 100%, or
define which parts of an image are opaque or transparent. You can set the Source Monitor and Program Monitor to display transparent pixels as a checkerboard instead of black, just as in Adobe Photoshop. Let's compare views: 1. From the Graphics bin, open the clip Theft_Unexpected.png in the Source Monitor (be
sure to open the PNG clip), 2. Open the Source Monitor Settings menu, and make sure Transparency Grid is not selected. It looks as if the graphic has a black background of the Source Monitor. If you were to export this as a file to a codec that does not support an
alpha channel, the new file would indeed have a black background. 3. Open the Source Monitor Settings menu again and choose Transparency Grid to turn it on. Now you can clearly see which pixels are transparent. However, for some kinds of media, the transparency grid is an imperfect solution, and this is a good
example. It's a little difficult to see the edges of the text against the grid. 4. Open the Source Monitor Settings menu, and choose Transparency Grid again to turn it off. Media files that are created using a codec that does not support an alpha channel will always have a black background rather than transparent areas.
MAKING COMPOSITING PART OF YOUR PROJECT Using compositing effects and controls can take your post-production work to a whole new level. Once you begin working with the compositing effects available in Premiere Pro, you'll find yourself discovering new ways of filming and new ways of structuring your edit
to make it easier to blend images together. A combination of preproduction planning, filming techniques, and precise effects setup will produce the most powerful results when compositing. You can combine still images of environments with complex, interesting patterns to produce extraordinary textured moods. Or you
can cut out parts of an image that don't fit and replace them with something else. Compositing is one of the most creative, flexible, and fun parts of nonlinear editing work begins in pre-production, when you are planning
your shoot. Right at the start, you can think about how to help Premiere Pro identify the parts of the image you'd like to be transparent, and there are a number of ways to do this. Consider chroma keying, for example, a standard special effect used by major feature film productions to allow action to take place in
environments that would otherwise be too dangerous or physically impossible—like the inside of a volcano! This... ... becomes this. The actors are actually standing in front of a screen that is solid green. The green color is used to identify which pixels should be transparent. The video image of the
actors is used as the foreground of a composition, with some visible pixels (the actors) and some transparent pixels (the green background). Next, it's just a guestion of putting the foreground video image in front of another background image. In an epic action feature film, it's the prebuilt set, a real- world location, or a
composite created by visual effects artists; it could be anything. Planning ahead makes a big difference to the quality of your compositing. For the greenscreen effect to work well, the background needs to be a consistent color. It also needs to be a color that does not appear anywhere on your subject. Green-colored
jewelry, for example, might turn transparent when a chroma key effect is applied. When shooting greenscreen footage, the way you film can make a big difference to the finished result. Try to match the lighting for your subject to the replacement background you intend to use, in particular when considering the direction of
shadows. Capture the greenscreen background with soft, evenly distributed light, and try to avoid spill, where light reflected from the greenscreen in the background bounces onto your subject. If this happens, you'll be in danger of keying out, or making transparent, parts of your subject because they will be in the same
green color that you are removing. Understanding essential terminology In this lesson, you'll encounter some terms that might be new to you. Let's run through the important ones. Alpha/alpha channel of information for each pixel. An alpha channel defines transparency for a pixel. It's a separate
channel, and it can be created entirely independently of the content of the image. Whether or not your original media includes an alpha channel, you can work with it in sequences in Premiere Pro. Key/keying: The process of selectively making pixels transparent based on their color or brightness. Chroma key effects use
color as a reference to generate transparency (that is, to modify the alpha channel). Luma key effects use brightness. Opacity: The overall alpha channel value for clips in a sequence in Premiere Pro. The higher the value, the more opaque the clip is—the inverse of transparency. You can adjust the opacity for a clip over
time using keyframes, just as you have adjusted audio level in a previous lesson. Blend mode: A technology originally seen in Adobe Photoshop. Rather than simply placing foreground images in front of background images, you can select one of several blend modes that cause the foreground to interact with the
background in various ways. You might, for example, choose to view only pixels that are brighter than the background or to apply only the color information from the foreground clip to the background. You used a blend mode in Lesson 12, "Adding Video Effects." Experimentation is a good way to learn about the many
blend modes available. You'll find them on the Effect Controls panel, under the Opacity effect. Tip For more information on blend modes in Adobe Press). Greenscreening: The process of filming a subject in front of a screen that is solid
green and then using a special effect to selectively turn green pixels transparent. The clip is then combined with a background image. An old-style TV weather report with a meteorologist in front of an animated map is a good example of a greenscreen effect. Matte: An image, shape, or video clip used to identify a region
of your image that should be transparent or semitransparent. Premiere Pro allows multiple types of mattes, and you'll work with them in this lesson. You can use an image, another video clip, or a visual effect like a chroma key to generate a matte dynamically based on pixel colors. When you made a secondary color
adjustment in Lesson 13, "Applying Color Correction and Grading," Premiere Pro dynamically generated a matte that was applied to the color adjustment. A chroma key effect applies its matte to the alpha channel,
selectively making pixels transparent. WORKING WITH THE OPACITY EFFECT You can adjust the overall opacity of a clip using keyframes on the Timeline panel, open the sequence Desert Jacket. This sequence has a foreground image of
a man in a jacket, with a background image of a desert, 2. You can do this by dragging the dividing line in the track header (at the far left of the Timeline panel) between Video 2 and Video 3. You can also hover the pointer over the Video 2 track header, hold Option (macOS) or Alt (Windows), and scroll your mouse
wheel. 3. Open the Timeline panel Display Settings menu, and make sure Show Video Keyframes is enabled. Now you can use the rubber band (the thin horizontal black-and-white line on clips) to adjust the settings and keyframe effects. There is only ever one rubber band per clip. By default, the rubber band on visual
clips controls the Opacity setting. The default for audio clips is the Volume setting. If you want to specify that the rubber band adjust a different effect and parameter from the menu. The fx badge changes color if an effect is
applied to a clip or if a fixed effect is adjusted. 4. Try dragging the rubber band up and down using the Selection tool on the clip on Video 2. Try to set it to exactly 50%. Tip When adjusting the rubber band, after you begin dragging, you can hold Command (macOS) or Ctrl (Windows) for fine control. Be careful not to press
the modifier key before clicking or you'll add a keyframe instead. When you use the Selection tool in this way, the rubber band is moved without additional keyframing opacity in the Timeline panel is similar to keyframing volume. You use the same tools and keyboard shortcuts,
and the results are likely to be exactly as you expect: The higher the rubber band, the more visible a clip will be. 1. Open the Theft Unexpected sequence in the Sequence in the Sequence in the Sequence bin. This sequence has a title in the foreground, on the V2 track. It's common to fade titles up and down at different times and with different
durations. You can do so using a transition effect, just as you would add a transition to a video clip; or, for more control, you can use keyframes to adjust the opacity. 2. Make sure track Video 2 is expanded so you can use keyframes to adjust the opacity. 3. Command-click (macOS) or Ctrl-
click (Windows) the rubber band for the title graphic four times to add four keyframes—two near the beginning and two near the end. Don't worry about the precise positions of the new keyframes, you'll adjust them in a moment. Tip It's often easier to add the keyframe markers to the rubber band to set the timing first and
then drag them vertically to adjust them. 4. Adjust the keyframes so the title fades up and down, just as you would with audio keyframes. Tip Once you've added a keyframe by Command-clicking (Mindows), you can release the key and start dragging to set the keyframe position. 5. Play the
sequence, and watch the results of your keyframing. You can also use the Effect Controls panel to add keyframes to the opacity setting has keyframing turned on by default in the Effect Controls panel. If you select the title clip in the Timeline panel, you'll
see that the keyframes you just added are also displayed in the Effect Controls panel. Combining tracks using a blend mode sare special ways for foreground pixels (in clips on upper tracks) to combine with background pixels (in clips below them). Each blend mode applies a different calculation to combine
the foreground red, green, blue, and alpha (RGBA) values with those of the background. Each pixel is calculated in combination with the pixel directly behind it. The default blend mode is called Normal. In this mode, the foreground image has a uniform alpha channel value across the entire image. The more opacity the
foreground image has, the more strongly you will see those pixels in front of the pixels in the background. The best way to find out how blend modes work is to try them. 1. Replace the current title in the Theft Unexpected sequence with the more complex title Theft_Unexpected_Layered.psd in the Graphics bin. You can
replace the existing title by dragging the new item onto it while holding Option (macOS) or Alt (Windows). Notice that replacing a clip this way retains the sequence clip keyframes you added. 2. Select the new title in the sequence and take a look at the Effect Controls panel. 3. In the Effect Controls panel, expand the
Opacity controls, and browse through the Blend Mode options. 4. Right now, the blend mode is set to Normal. Try a few different options to see the results. Each blend mode options to see the results. Each blend mode is set to Normal. Try a few different options to see the results.
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the blend modes. Tip To quickly browse through the modes, hover the pointer over the Blend Mode menu, without clicking to open it, and scroll. Try the Lighter than the pixel behind it. 5. Choose the Normal blend mode when you have finished experimenting.

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ADJUSTING ALPHA CHANNEL TRANSPARENCIES Many types of media will already have an alpha channel. A title graphic is an obvious example: Where text exists, pixels generally have 0% opacity, and where there is no text, pixels usually have 0% opacity. Elements such as drop shadows around text typically
have a value somewhere in between. Keeping some transparency in a drop shadow helps it look a little more realistic. Premiere Pro sees pixels with higher values in the alpha channel as being more visible. This is the most common way to interpret alpha channels, but occasionally you might come across media that is
configured in the opposite way. You will immediately recognize the problem because you'll see a cutout in an otherwise black image. This is easy to address because, just as Premiere Pro can interpret the audio channels on a clip, it's also possible to choose a different interpretation of an alpha channel. You can see the
results using a title in the Theft Unexpected sequence. 1. Locate Theft Unexpected Layered.psd in the Project panel. 2. Right-click the clip and choose Modify > Interpret Footage. In the lower half of the Modify Clip dialog box, you'll find the Alpha Channel interpretation options. 1. Alpha Premultiplication options: The
Alpha Channel Premultiplication options relate to the way semitransparent areas are interpreted. If you find that soft semitransparent image areas are blocky or poorly rendered, try selecting Premultiplied Alpha and compare the results. 2. Ignore Alpha Channel: Treats all pixels as having 100% alpha, with no
transparency. This can be useful if you don't intend to use a background clip in your sequence and would prefer black pixels. 3. Invert Alpha Channel: Reverses the alpha channel: Reverses the alpha channel pixels that were fully opaque will become opaque. 3. Try
selecting Ignore Alpha Channel, and click OK; then open the Modify Clip dialog box again, select Ignore Alpha Channel. Compare the results in the Program Monitor. Note Blend modes still apply when changing the interpretation of the alpha channel. For example, if you invert the
alpha channel and use a blend mode like Lighten, the black background won't be visible. 4. When you have finished experimenting, make sure the Alpha Channel option is set to Use Alpha Premultiplication From File. You can use Undo to restore the clip interpretation. COLOR KEYING A GREENSCREEN SHOT When
you change the opacity level of a clip using the rubber band or the Effect Controls panel, you adjust the alpha for every pixel in the image by the same amount. There are also ways to selectively adjust the alpha for pixels, based on their position on the screen, their brightness, or their color. Note Highly compressed
media files will generally not give the same high-guality result as a RAW or lightly compressed file (such as ProRes 4:4:4) captured using a high-end camera. Chroma key effects adjust the opacity for specific pixels, selected based on their luminance, hue, and saturation level. The principle is straightforward: Select a
color or range of colors, and the more similar a pixel is to the selection, the more transparent it becomes fully transparent. Let's create a chroma key composition. 1. Drag the clip Timekeeping.mov, in the
Greenscreen bin, onto the New Item button in the Project panel. This creates a sequence that matches the media perfectly. The clip will be added to the Video 1 track. Tip To create a new sequence with matching settings, you can also right-click a clip in the Project panel and choose New Sequence From Clip. This
works with multiple clips selected too. 2. In the sequence, drag the Timekeeping, mov clip up to Video 2—this will be the foreground. 3. Drag the clip Seattle Skyline Still.tga from the Shots bin to track Video 1, under the Timekeeping, mov clip on the Timekeeping, mov clip on the Timekeeping, mov clip up to Video 2—this will be the foreground. 3. Drag the clip Seattle Skyline Still.tga from the Shots bin to track Video 1, under the Timekeeping, mov clip on the Timekeeping, mov clip on the Timekeeping.
duration is too short. 4. Trim the Seattle Skyline Still.tga clip so that it's long enough to be a background for the full duration of the foreground clip on Video 2. Note There's no special secret to creating multi layered compositions in Premiere Pro. Place clips on multiple tracks, knowing that clips on upper tracks will
appear in front of clips on lower tracks. 5. In the Project panel, your sequence is still named after the Timekeeping.mov clip, and drag it into the Sequences bin. This kind of on-the-fly organization is worth the extra effort, as it helps you
stay in control of your project. You now have foreground and background clips. All that remains is to make the green pixels transparent. Preprocessing footage In a perfect world, every greenscreen clip would have a flawless green background and nice, clean edges on your foreground elements. In reality, there are lots
of reasons why you might be faced with less-than-perfect material. There are often problems caused by poor lighting when the video is created. However, there's a further problem caused by the way many video cameras store image information. Because our eyes do not register color as accurately as they do brightness
information, it's common for cameras to reduce the amount of color information stored. This saves storage space and is rarely immediately visible. The approach varies from system to system. Sometimes color information is stored for every other pixel; other times it might be recorded for every other pixel on every second
line. This type of file-size reduction is usually a good idea because otherwise the storage required would be huge. However, it can make keying more difficult because there isn't as much color detail. If you find that your footage is not keying well, try the following: Consider applying a light blur effect before keying a
foreground clip. This blends pixel detail, softening the edges and often giving a smoother-looking result. If the amount of blur is light, it should not dramatically reduce the quality of your image. You can apply a blur effect to the clip, adjust the settings, and then apply a chroma key effect on top of the blur. Consider color
correcting your shot before you key it. If your shot lacks good contrast between your foreground and background, you can sometimes help the key by adjusting the picture first using the Lumetri Color panel. Using the Ultra Key.
To apply a key, you'll choose a color that should be transparent and then adjust settings to improve the color selection. The Ultra Key effect, like every greenscreen keyer, dynamically generates a matte (defining which pixels should be transparent) based on the color selection. The matte is adjustable using the detailed
settings of the Ultra Key effect. Let's try using the effect on the Timekeeping clip. 1. Apply the Ultra Key effect to the Timekeeping.mov clip in the new Seattle Skyline sequence. You can find the effect by typing Ultra in the Effects panel search box. 2. In the Effect Controls panel, click the Key Color eyedropper (not the
color swatch) to select it. 3. Holding the Command key (macOS) or Ctrl key (Windows), use the eyedropper to click a green area in the Program Monitor. This clip has a consistent green background, so it's not too important where you click. With other footage, you may need to experiment to find the best spot. If you hold
Command (macOS) or Ctrl (Windows) when you click with the eyedropper, Premiere Pro takes the average of a 5×5-pixel sample, rather than a single-pixel selection. This often captures a better color for keying. The Ultra Key effect identifies all pixels that have the green you selected and sets their alpha to 0%. 4. In the
Effect Controls panel, under the Ultra Key effect, choose Alpha Channel from the Output menu. In this mode, the Ultra Key effect displays the alpha channel that has been generated as a grayscale image, where dark pixels will be transparent and light pixels will be opaque. It's a pretty good key, but there are a few areas
of gray where the pixels will be partially transparent, which you don't want. Where there's naturally semitransparent detail, like hair or the soft edges of clothing, there should be some gray, and the right and left sides of the image don't have any green, so none of those pixels can be keyed. We'll fix that later. Still, the main
areas of the alpha channel should be solid black or white. 5. In the Effect Controls panel, under the Ultra Key effect, choose Aggressive from the selection a little. Scrub through the shot to see whether it has clean black areas and white areas. If you see gray pixels in this view, the result
will be partially transparent parts in the picture. This might be desirable if the image area should be partially transparent. Expect to switch back and forth between viewing the composite image and the alpha channel often when setting up the Ultra Key effect. 6. Choose Composite from the Output menu to see the result.
The Aggressive setting works better for this clip. The Default, Relaxed, and Aggressive settings modify these manually to get a better key with more challenging footage. Here's an overview of those settings: 1. Matte Generation:
Once you've chosen your key color, the controls in the Matte Generation category change the way it's interpreted. You'll often get positive results with more challenging footage just by adjusting these settings. In the example you are working on, there are issues with the original media, particularly around the edge of the
subject. These are more visible during fast motion, such as when the jacket is moving quickly. Try matching the settings, try dragging each control to its extremes to discover the best configuration possible. You will often find you will need to re-adjust a parameter as you
finesse the settings, 2. Matte Cleanup: Once your matte is defined, you can use these controls to adjust it: 1. Choke shrinks the matte, which is helpful if your key selection misses some edges. Be careful not to choke the matte too much because you'll begin to lose edge detail in the foreground image, often supplying a
digital haircut in the vernacular of the visual-effects industry. 2. Soften applies a blur to the matte, which often improves the apparent "blending" of the foreground and background images for a more convincing composite. 3. Contrast increases the contrast of the alpha channel, making that black-andwhite image a
stronger black-andwhite version and more clearly defining the key. You will often get cleaner keys by increasing the contrast. 4. Mid Point is the level from which contrast around a different level for more subtle control. 3. Spill Suppression: Spill Suppression
compensates for color that bounces from the green background onto the subject. When this happens, the reflected green color does not affect the subject's own colors enough to cause them to be keyed out (made transparent). However, it does not look good when the edges of your subject are green! Spill suppression
automatically compensates by adding color to the foreground element edges that are positioned opposite, on a color wheel, to the key color. For example, magenta is added when greenscreen keying, or yellow is added when bluescreen keying. This neutralizes the color "spill" in the same way that you'd fix a color cast.
4. Color Correction: The built-in Color Correction controls give you a guick and easy way to adjust the appearance of your foreground wideo to help it blend in with your background more naturally. For more comprehensive color adjustment controls, use the Lumetri Color panel. Note In this example, you're using footage
with a green background. It is also possible you'll have footage with a blue background for keying. The workflow is the same. These three color adjustments are applied after the key, so you won't cause problems for the key by adjusting the colors
with these controls. You can use any color adjustment tools in Premiere Pro. including the Lumetri Color panel. PARTIALLY MASKING CLIPS The Ultra Key effect generates a matte dynamically, based on the colors in your shot. You can also create your own custom matte or use another clip as the basis for a matte.
Earlier, you used a mask to constrain an effect to a region in the image. The Opacity setting can be combined with a mask in the same way, allowing you to set regions in an image that should be transparent with great precision. Let's create a matte to remove the edges from the Timekeeping.mov clip. 1. Return to the
Seattle Skyline sequence. As you discovered earlier, the foreground clip has an actor standing in front of a greenscreen, but the screen does not reach the edge of the picture. It's common to shoot greenscreen footage this way, particularly when filming on location, where full studio facilities may not be available. 2.
Disable the Ultra Kev effect, without removing it, by clicking the Toggle Effect button in the Effect Controls panel, expand the Opacity controls and click the Create 4-Point Polygon Mask button just under that heading. A
mask is applied to the clip's opacity setting, making most of the image transparent. 4. Resize the mask so that it reveals the central area of the shot but hides the black edges. You will almost certainly need to reduce the Program Monitor zoom to 50% or 25% to see beyond the edges of the image. As long as you have
the mask selected in the Effect Controls panel, you can click directly in the Program Monitor to reposition the corner control points for the mask. Don't worry about precisely matching the edges of the frame. Instead, focus on selecting the areas in the picture the subject moves into. Tip If you deselect the mask, the control
points displayed in the Program Monitor will disappear. Select the mask in the Effect Controls panel to reactivate them. 5. Set the Program Monitor will disappear. Select the mask in the Effect Controls panel to remove unwanted image elements, is often referred to as a garbage matte. 6. Toggle the Ultra Key effect back on
in the Effect Controls panel, and deselect the clip to hide the visible mask handles. This is particularly challenging footage to key because the original camera recording includes adjustments to the edges of the subject, and it uses a color compression system that reduces color fidelity. With patience and precise
adjustments, you can still achieve a reasonable result. Using the Track Matte key effect Adding a mask to the Opacity effect in the Effect Controls panel sets user-defined regions that should be visible or transparent. Premiere Pro can also use another clip as a reference for a matte. The Track Matte Key effect uses the
luminance information or alpha channel information from any clips on a selected track to define a transparency matte for a clip on another track. With a little planning and preparation, this simple effect can produce powerful results because you can use any clips as a reference and even apply effects to them, changing the
resulting matte. Let's use the Track Matte Key effect to add a layered title to the Seattle Skyline sequence. 1. Trim the Seattle Skyline sequence. 1. Trim the Seattle Skyline sequence. 2. Edit the clip Laura 06.mp4, from the Shots bin, onto the Video 2 track, toward the end of the
background clip. 3. Drag the graphic clip SEATTLE from the Graphics bin onto the Timeline V3 track, directly above the Laura_06.mp4 clip to match the duration of the Laura_06.mp4 clip. 5. Find the Track Matte Key effect in the Effects panel, and apply it to the Laura_06.mp4 clip on
the Video 2 track. 6. In the Effect Controls panel, choose Video 3 from the matte menu in the Track Matte Key controls. Any clips on the selected track will be used as the reference for the newly generated matte. 7. Scrub through the sequence to see the result. The white text in the title clip on Video 3 is no longer visible.
Instead, it's being used as a guide to define the visible and transparent regions of the clip on V3. By default, the Track Matte Key effect uses the alpha channel, change the Composite Using menu to Matte Luma, and the
brightness of the reference clips will be used instead. The Track Matte Key effect is an unusual effect because most other effects exclusively change the clip it's applied to and the clip used as a reference, which is made transparent. Tip In this
example, you're using a still image as a reference for the Track Matte Key effect. You can use any clip, though, including other video clips. The colors in the Laura 06.mp4 clip work well against the blue in the background clip, but they could be more vivid. You might want to experiment with color correction tools to make
the red stronger and brighter so it's a more compelling composition. You could animate the SEATTLE title, having it move on-screen or gradually increase in size. You could animate the SEATTLE title, having it move on-screen or gradually increase in size. You could also add a blur effect to the Laura 06.mp4 clip and change the playback speed to create a softer, slower-moving texture. REVIEW QUESTIONS 1
What is the difference between the RGB channels and the alpha channel? 2. How do you apply a blend mode to a clip? 3. How do you change the way a media file's alpha channel is interpreted? 5. What does it mean to key a clip? 6. Are there any limits to the kinds of clips you can
use as a reference for the Track Matte Key effect? REVIEW ANSWERS 1. RGB channels contain color information; the alpha channel describes opacity in the Effect Controls panel. 3. You adjust clip opacity in the same way you adjust clip
volume, in the Timeline panel or in the Effect Controls panel. To make an adjustment in the Timeline panel, make sure you're viewing the Opacity rubber band for the clip you want to adjust and then drag with the Selection tool. If you hold Command (macOS) or Ctrl (Windows) while clicking, you'll add keyframes. You
can also work with keyframes using the Pen tool. 4. Right-click the file in the Project panel and choose Modify > Interpret Footage. 5. A key is usually a special effect where the color or brightness of pixels is used to define which part of the image should be transparent and which part should be visible. 6. You can use just
about anything to create your key with the Track Matte Key effect, as long as it is positioned on a track above the clip you apply the effect to. You can even use multiple clips because the setting is based on the
whole track, rather than a particular clip. 15 Creating New Graphics Lesson overview In this lesson, you'll learn how to do the following: Use the Essential Graphics. Stylize text. Work with shapes and logos. Make text roll and crawl. Work with template graphics. This
lesson will take about 90 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book.
Although audio and video clips are the primary ingredients in a sequence, you will often need to incorporate text and graphic-creation tools you can work with right in the Program Monitor; or you can browse editable templates in the Essential
Graphics panel, STARTING THE LESSON Text is effective when you need to convey information quickly to your audience. For example, you can identify a speaker in your yideo by superimposing their name and title during the interview (often called a lower third). You can also use text to identify sections of a longer
video (often called bumpers) or to acknowledge the cast and crew (with credits). Text can be clearer than a narrator's voice and allows for additional information. Between the Program Monitor tools and the Essential Graphics panel, you'll
find a range of text-editing and shape-creation tools that you can use to design graphics. You can use the fonts loaded on your Creative Cloud membership). You can also control opacity and color and insert graphic elements or logos created using other
Adobe applications, such as Adobe Photoshop or Adobe Illustrator. Let's try a few graphic and titling techniques. 1. Open Lesson 15 Working project as Lesson 15 Working project as Lesson 15 Working Window >
Workspaces > Graphics. 4. Reset the workspace by opening the Graphics menu in the Workspaces panel and choosing Reset To Saved Layout, or by double-clicking the Graphics workspace name in the Workspaces panel. The Graphics workspace reveals
the Essential Graphics panel and positions the Tools panel next to the Program Monitor to give guick access to text and shape tools. EXPLORING THE ESSENTIAL GRAPHICS PANEL The Essential Graphics panel has two tabs. Browse: Select built-in or imported title templates, many of which include animation. Edit:
Adjust titles and graphics in a sequence. When using the Browse tab, you can look for templates you own in the My Templates area or switch to searching Adobe Stock. For these lessons, we'll focus on templates available in My Templates. In addition to
starting with a built-in template, you can use the Type tool, Pen tool, Rectangle tool, or Ellipse tool to create a new graphic clip is selected, you'll add to that clip). If you press and hold the Type tool, the Vertical Type tool is revealed, which allows you
to type text in a column, instead of a row. You can also use the Pen tool directly in the Program Monitor to create custom shapes to use as graphic elements in titles. If you press and hold the Pen tool, the Rectangle tool and the Ellipse tool are revealed. You can reposition and resize graphic and text elements using the
Selection tool. You perform all of this creative work directly in the Program Monitor. This creates new clips in the Essential Graphics panel. Let's start with some preformatted text and modify it. This is a good way to get an overview of the powerful features of the Essential
Graphics panel. Later in this lesson, you'll build a new title. 1. If it's not open already, open the sequence 01 Clouds. 2. Position the playhead over the Cloudscape title on the V2 track and select it. 3. If the Essential Graphics panel is open, selecting the title in the Timeline panel should automatically switch the view to the
Edit tab. If not, click Edit at the top of the Essential Graphics panel, Like the Effect Controls panel, the Edit tab of the Essential Graphics panel, the Edit tab of the Essential Graphics panel, vou can view the options for only one clip at a time. Like the Lumetri
Color panel, changes made in the Essential Graphics panel actually appear as effects in the Effect Controls panel, with the full range of settings available, including the options to create effect presets and to animate graphic elements with keyframes. Graphics and titles use a vector-based version of the Motion effect,
which works the same way as the video version but which maintains the clean edges of fonts and shapes. Notice there are two items listed at the top of the Essential Graphics panel: Cloudscape and Shape 02. If you are familiar with Adobe Photoshop, you'll recognize these as layers. Each item in a graphic is displayed
as a layer in the Essential Graphics panel, a little like tracks in the Premiere Pro Timeline panel. The layers at the bottom, and you can drag items up and down the list. You'll also recognize the familiar eye button for making layers invisible or visible. Provided no layers are selected and
no items are selected in the Program Monitor, below these layers you'll see the Responsive Design controls. These allow you to specify a section at the start and end of the graphic clip that should not be stretched if you change the duration of the clip in the seguence. This is important if there are animation keyframes at
the start and end of the graphic. 4. Click to select the Shape 02 layer at the top of the Essential Graphics panel. This displays standard alignment and appearance controls for Shape layers—in this case, the red band that goes across the screen. Many of the options will be familiar to you from the Motion effect in the
Effect Controls panel. In the Appearance section you can specify a color for the shape fill, stroke (a colored line on the edges of a shape or text), background (directly behind the text), and shadow (see "Text styles" later in this lesson for more information about these). Perhaps these color swatches are already familiar to
you. They work in an intuitive way, 5. Click the Fill color swatch. A color picker appears that allows you to choose between, or you can move your pointer over a sample of the color you want and click to select it directly, 6. Click Cancel, and then click the
eyedropper for the fill color, on the right side of the Essential Graphics panel. The eyedropper allows you to pick a color from anywhere on your computer screen! This is particularly useful if you have a range of colors you always want to use, such as a logo or
branding color. 7. Click the thin blue band of sky between the clouds. The shape fill changes color to match the Selection tool in the Tools panel and that the Shape 02 layer is still selected in the Essential Graphics panel. Notice the tiny control handles visible on the midpoint of the
shape in the Program Monitor. You can use the Selection tool to change the shape directly. For now, you're going to use the Program Monitor, you may need to first deselect the layer that's already selected. You can do this by clicking the
background of the Program Monitor or by deselecting the title clip in the Timeline panel. 9. Use the Selection tool to click the word Cloudscape in the Program Monitor or by deselecting the title clip in the Timeline panel. 9. Use the Selection tool to click the word Cloudscape in the Program Monitor or by deselecting the title clip in the Timeline panel. 9. Use the Selection tool to click the word Cloudscape in the Program Monitor. Note With all the clicking and testing, it's easy to accidentally deselect layers. If there's no bounding box with handles around the text or shape, select it
using the Selection tool. The same Align And Transform and Appearance controls are displayed in the Essential Graphics panel, but now there are additional controls for the text. Note You may have to expand the window or scroll to see all the Essential Graphics panel options. 10. Try a few fonts and font styles to
experiment with the controls. Anywhere you see blue numbers, you can scrub to update the setting. This is a guick way to find out what a control is for—make an extreme adjustment to view the result, then undo. Tip If you're unsure about the purpose of a control, hover the pointer over an icon and a tool tip will tell you
the name. The specific fonts loaded on each system will vary, and your Adobe Creative Cloud membership includes access to many more fonts than you will have available to begin with. Note When working with CJK fonts, Tsume adjusts the spacing around characters without adjusting the vertical or horizontal scaling of
the characters. To add fonts, click the Add Adobe Fonts button that appears while browsing fonts (or choose Graphics > Add Fonts website in your default internet browser, where you will find thousands of fonts to use. Note Premiere Pro saves your titles in the project
file. They do not show up as separate files on your hard drive. MASTERING VIDEO TYPOGRAPHY ESSENTIALS When you design text for video, it's helpful to follow typography conventions. If text is composited over a moving video background with multiple colors, it can take some adjustment to create a clear design
Find a balance between legibility and style on the one hand and making sure enough information is on the screen without crowding it on the words are moving. Choosing a font Your computer has many fonts, which can make choosing a good option
for video work difficult. To simplify the selection process, try using a triage approach and consider these factors: Tip If you'd like to learn more about typography, consider the book The Complete Manual of Typography; A Guide to Setting Perfect Type, 2nd Edition (Adobe Press, 2011), by Jim Felici. Readability: Is the
font easy to read at the size you're using? Are all the characters readable? If you look at it quickly and then close your eyes, what do you remember about the text block? Style: Using adjectives only, how would you describe the font you've chosen? Does the font convey the right emotion? Type is like a wardrobe or a
haircut; picking the right font is essential to the overall success of the design. Flexibility: Does the font mix well with others? Does it come in various weights (such as bold, italic, and semibold) that make it easier to convey significance? Can you create a hierarchy of information that conveys different kinds of information,
such as a name and title for a speaker's lower-third name graphic? Note When creating text for use in a video, you will often find yourself placing it over a background that has many colors present. This will make it difficult to achieve proper contrast (which is essential to preserving legibility). To help in this case, you may
need to add a stroke or shadow to get a contrasting edge. For more information about adding a stroke or shadow, see "Text styles" later in this lesson. Language you are using? Some fonts have limited character sets. The answers to these
quiding principles should help steer you toward better-designed titles. You may need to experiment to find the best font. Fortunately, you can easily modify an existing title or duplicate it and change the copy for a side-by-side comparison. Choosing a color Although you can create a near-infinite number of color
combinations, choosing the right colors to use in a design can be surprisingly tricky. This is because only a few colors work well for text while remaining clear for the viewer. This task becomes even more difficult if you're editing your video for broadcast or if your design must match the style and branding of a series or
product. The text may also need to work when placed over a busy moving background. While it may feel a little conservative, the most common choices for text in video are black and white. If colors are used, they tend to be very light or very dark shades or have a thick, strongly colored stroke. The color you choose must
provide suitable contrast with its background, which means you'll be making constant assessments about ideal colors, which often include factors such as branding requirements or a consistent color palette for your sequence. Note The Adobe Color service helps you choose harmonious and appealing color combinations
for your design projects. For more information, visit color, adobe, com. Consider a positive example with clear light text over a dark background. And now here's a less positive example with clear light text over a dark background. And now here's a less positive example. The text is similar in color and tone to parts of the sky. Adjusting the kerning It's common to adjust the spacing between the letters in a
title to improve the appearance of text and help match it to the design of the background. This process is called kerning. Taking the time to manually adjust text becomes more important the larger the font gets (because it makes improper kerning that much more visible). The goal is to improve the appearance and
readability of your text while creating optical flow. Note A common place to start kerning is to adjust between an initial capital letter and the succeeding lowercase letters, particularly in the case of a letter with very little "base," such as T, which creates the illusion of excessive space along the baseline. You can learn a lot
about kerning by studying professionally designed materials such as posters and magazines. Kerning is applied letter by letter, allowing for creative use of spacing. Try kerning an existing title. 1. Locate the title clip White Cloudscape in the Assets bin. 2. Edit the clip into the 01 Clouds sequence after the first title on the
Video 2 track. Make sure the title is positioned over the background video clip so you can use it as a reference for positioning. 3. Select the Type tool (the keyboard shortcut is T), and click to place the insertion point between the D and the S of the word CLOUDSCAPE. 4. In the Edit pane of the Essential Graphics panel,
in the Text section, set Kerning to 300. The Kerning option is available only when a single letter is selected or when the text cursor is placed between two letters. 5. Repeat this process for the other letters to the right, adjusting kerning between each pair of letters. 6. Click the Horizontal Center button in the Align And
Transform section of the Essential Graphics panel to reposition the text. Then deselect the text by clicking an empty track in the Timeline panel. 7. Select the Selection tool, it's a good idea to return to the Selection tool to avoid accidentally adding new text or making unwanted changes to
your sequence. Setting the tracking Another important text property is tracking (which is similar to kerning). This is the overall control of spacing between all the letters in a line of text. Tracking can be used to globally condense or expand a text selection. It's often employed in the following scenarios: Tighter tracking: If a
line of text is too long (such as a lengthy title for a speaker's lower third), you might tighten the tracking slightly. This keeps the font size the same but fits more text into the available space. Looser tracking: When using all uppercase letters or a more complex font, it can help readability to spread out the letters. It's used
often for large titles or when text is used as a design or motion-graphics element. You can adjust tracking for a selected layer (or item in the Program Monitor) in the Text section of the Essential Graphics panel, Let's try it: 1. Drag the clip Cloudscape Tracking from the Assets bin onto the clip White Cloudscape in the 01
Clouds sequence to overwrite one clip with the other. If Snap is turned on in the Timeline panel, the new clip will snap to the beginning of the existing title in the sequence, 2. Make sure the clip is selected, and use the Selection tool to select the text. 3. In the Edit tab of the Essential Graphics panel, experiment with the
tracking control. As you increase the tracking, the letters expand to the right, away from the anchor point. 4. Set the tracking to 530. 5. In the Text section of the Essential Graphics panel, click the Center Align Text button to center the text object on its anchor point. This moves the text object too far to the left. 6. Click the
Horizontal Center button to align the object's anchor point with the center of the frame. This will also centered, try adjusting the tracking to 700. Notice that the text stays centered. Tracking adjustments tend to look neater and more intentional than individual kerning
adjustments. 8. Restore the tracking to 530 to continue working on this design. Adjusting the leading Kerning and tracking control the horizontal space between characters. Leading (pronounced "led-ing") controls the vertical space between lines of text. The name comes from a time when strips of lead were used on a
printing press to create space between lines of text. You adjust the leading in the Text section of the Essential Graphics panel Edit tab. Let's add another line of text. 1. Continue to work with the Cloudscape Tracking clip in the 01 Clouds sequence. 2. With the Cloudscape Tracking clip selected in the Timeline panel, use
the Selection tool to double-click the CLOUDSCAPE text in the Program Monitor. This highlights the text, ready for editing, and changes the Selection tool to the Type tool. 3. Press the Right Arrow key to move the cursor to the end of the text, 4. Press Return (macOS) or Enter (Windows) to enter a second line of text.
Type (all in caps) A NEW LAND, 5. Select only the new second line of text, Give the new text a font size of 48, set the tracking to 40, 6. Click an empty track in the Timeline panel to deselect the graphic. This increase in leading helps to separate the second line of text, but it's still a little
difficult to read because of the background image. 7. Select the Cloudscape Tracking clip in the sequence; then select the text in the layer is condensed into a single layer name). Now that the layer is selected, increase the leading to
140. This adds space between lines and improves readability. 8. Switch to the Selection tool, and click an empty track in the Timeline panel to deselect the clip. In most cases, you'll find the default setting works well for leading. Adjusting leading can have a big impact on your title. Don't set the leading too tight; otherwise,
descenders from the top line (such as the downward lines on j, p, q, and g) will cross ascenders from the lower line (like the upward lines on b, d, k, and l). This collision is likely to make the text more difficult to read, particularly against a moving background. Setting the alignment Although you may be used to seeing text
left justified for things like a newspaper, there are no hard-and-fast rules for aligning video text. Generally, text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified. You'll often center text used for a lower-third title is left- or right-justified.
The alignment buttons align selected text to the left, center, or right relative to the anchor point of the text. You can create a text box by dragging with the Type tool in the Program Monitor, rather than clicking. With text inside a box, use the justification buttons to make the text fill the width of its bounding box. It's safe to
experiment, and use the Undo option if necessary, so don't worry about memorizing which alignment option is which. You may find the position of text in the frame changes when choosing a new alignment setting. If so, manually reposition the text or click the Vertical Center button or Horizontal Center button to bring the
text back into the middle of the frame. Setting the safe title margin When creating titles, you may want to view quides to help you position text and graphic elements. You can enable or disable these by opening the Settings menu in the Program Monitor and choosing Safe Margins. By default, the outer box is 10 percent
from the edge. The area inside this box is considered the action safe area. Things that fall outside this box may get cut off when the video signal is viewed on a television monitor. Be sure to place all critical elements that are meant to be seen (like a logo) inside this region. The inner box is 20 percent from the edge by
default. The area inside this box is called the title safe area. Just as this book has margins to keep the text from getting too close to the edge, it's a good idea to keep text inside the innermost safe margin. This will make it easier for your audience to read the information. If text is outside the title safe area, there's a chance
and choosing Overlay Settings > Settings. CREATING NEW TITLES When you create a title, you'll need to make some choices about how the text is displayed. There are two approaches to creating text, each offering both horizontal and vertical text direction options. Point text: This approach builds a text bounding box
as you type. The text runs on one line until you press Return (macOS) or Enter (Windows). Changing the box size later
displays more or less text but does not change the size of the text. When using the Type tool in the Program Monitor, you choose which sort of text you are adding when you first click. Click and type to add point text. Drag to create a text box and then type to add paragraph text inside the box. Most of the options in the
Essential Graphics panel apply to both types of text. Adding point text Now that you have been introduced to some of the main factors when modifying and designing a graphic, let's create a new one. You'll create a new one. You'll create a new one title to help promote a tourist destination. 1. Open the sequence 02 Cliff. 2. Position the Timeline
playhead at the beginning over the sequence, and select the Type tool. 3. Click in the Program Monitor, and type The Dead Sea. A new graphic clip is added to the sequence in the Timeline panel on the next available video track. In this case, it's Video 2. The settings you last used are applied to new titles when you
create them. 4. If you clicked the white clouds in the background image before typing, it might be difficult to read the text. Try changing the background frame carefully when designing a title. Because video moves, you may find a title works at the
start of a clip but not at the end. 5. Select the Selection tool by clicking it in the Tools panel. You won't be able to use a keyboard shortcut for the Selection tool because you're typing into a text bounding box. Handles appear on the text bounding box. Choose the following settings in the Essential Graphics panel: Font:
Arial Bold Font size: 83 Tracking: 0 Kerning: 0 Leading: 0 Fill color: White In the Appearance options, enable the Fill only. Try to match the example given here. 6. Use the Selection tool to drag the corners and edges of the text bounding box. Notice that the Font Size, Width, and Height settings do not change. Instead,
the Scale setting is adjusted. By default, the height and width maintain the same relative scale. You can adjust the height and width separately by clicking Set Scale Lock is selected. 7. Hover the pointer just outside a corner of the text box until a curved pointer
appears. This allows you to rotate the text box. Drag to rotate the bounding box off its horizontal orientation. The anchor point which objects will rotate and the single point that's referenced by position controls. When you adjust position settings, the position applies specifically to the anchor point, which
itself has a position on the object. For many items it's the exact center of the object (which makes sense, particularly when rotating). This is not the case with text objects. The default location of the anchor point for this left-aligned text is the lower-left corner of the text (not the box around the text). When you rotate the
text, it doesn't pivot around the center but instead around that corner. 8. With the Selection tool still active, click the blue number for the rotation setting in the Essential Graphics panel, type 45, and press Enter to manually set the angle to 45 degrees. 9. Click anywhere in the bounding box and drag the text and its
bounding box toward the upper-right corner of the frame. 10. Disable the Video 1 track output by clicking the Toggle Track Output button in the Timeline panel. 11. Open the Program Monitor Settings menu, and choose Transparency Grid to enable it. Now you can see the graphic against a transparency checkerboard,
but it's almost impossible to read! 12. With the text selected, go to the Appearance section of the Essential Graphics panel, and set Stroke Width to 7. Now it's easy to see the text, and you can be confident it will remain readable against a
range of background colors. For more information about adding a stroke or a shadow to text, see "Text styles" later in this lesson. Adding paragraph text. This option will automatically wrap the text onto the next line when it
reaches the edge of the paragraph text box. Continue working with the same graphic clip is selected in the Type tool, and make sure the graphic clip is selected in the Timeline panel. 2. Drag in the Program Monitor to create a text box that fills the lower-left corner, with a gap toward the edges of the frame. 3. Start typing.
Start entering names of participants who will be attending the tour. Use the names shown here or add your own. Press Return (macOS) or Enter (Windows) after each name for a new line. Type at least one name with enough characters to go beyond the right edge of the text box. Unlike point text, paragraph (area) text
remains within the confines of the bounding box you defined, and it wraps at the edges of the box onto the next line. If you add so much text that some won't fit in the text box, the extra letters won't be visible. Tip A good way to avoid spelling mistakes is to copy and paste text from an approved script or email that has
already been reviewed by your client or producer. 4. Use the Selection tool to change the size and shape of the bounding box to fit around the text box. Note If a title clip is selected, clicking to add new text or a shape will
add to the existing clip. If no graphic clip is selected in the Timeline panel, a new clip will be created on the next available track above. Each item has its own controls. TEXT STYLES In
addition to offering settings for fonts, position, and opacity, the Essential Graphics panel also allows you to apply a stroke and shadow to text or shapes in a graphic. Changing a title's appearance In the Appearance section of the Essential Graphics panel, there are three main options for improving the readability of text.
Stroke: A thin edge added to text. It helps to keep text legible over moving video or a complex background: A solid color that appears behind the letters, creating a controllable backdrop for the text. Shadow: A common addition to video text because it makes the text easier to read without being intrusive. Be
sure to adjust the softness of the shadow. Also, be sure to keep the angle of shadows identical for all titles in a project for consistency. Just as with the text fill, you can assign any color to strokes, backgrounds, and shadows. 1. Enable the track output for Video 1. 2. Experiment with the options in the Essential Graphics
panel to make the text more readable and add more color to the composition. 3. To set the color for point text in the upper right, select the text and use the Fill color eyedropper to select
the pale blue sky around the clouds. Because the colors in the rocks and clouds vary, you may wish to use the eyedropper to select an approximate color and then click the Fill color swatch to manually adjust the selection. Try to match the appearance of the title in the following example. Saving Master Styles If you
create a text style you like, you can store it and reuse it in the project. A style describes the color and font characteristics for text. You can use a style to change the appearance of a text object with a single click; all the properties of the text update to match the preset. Let's create a style from the text you modified in the
previous exercise, 1. Continuing to work on the same title, use the Selection tool to select the paragraph text in the lower-left corner, 2. In the Essential Graphics panel, open the Master Styles menu, and choose Create Master Text Style, The New Text Style dialog box opens, 3. Enter the name Blue Bold Text, and click
OK. The style is added to the Master Styles menu. The new Master Style also appears in the Project panel. 4. Select the other text layer, and use the Master Styles menu to apply the Blue Bold Text style. Any styles that are in the Project panel will appear on the list of available master styles in the Essential Graphics
panel. To remove a master style, delete it from the Project panel. Saving Master Graphics So far, you have worked with a title that was already created in a sequence, edited one from the Project panel, and created a new one. Note Titles have a default duration set in the user preferences, just like other single-frame
media. In almost all cases, Premiere Pro requires that items included in sequences also exist in the Project panel. Graphics created in Premiere Pro are an exception to this rule. Earlier, you edited the Cloudscape Tracking title into the 01 Clouds current sequence. Open that sequence now, and from the Project panel
edit a second instance of the same title into the timeline on the Video 2 track. You may need to move the other version of the title earlier have been applied to the master clip in the Project panel, and the new copy is identical to the one
you worked on. That's because the title is a Master Graphic. You can convert any graphic to a Master Graphic by selecting it in the Timeline panel that you can share between multiple sequences or multiple projects.
Any graphic clips made from that Master Graphic, including the one you upgraded it from, are duplicates of each other. Any changes made to the text, style, or contents in any instance of a Master Graphic are reflected in all other instances of the same Master Graphic. Creating a graphic or title in Adobe Photoshop You
can create titles or graphics for Premiere Pro in Adobe Photoshop. While Photoshop is known as the premier tool for modifying photos, it also has many capabilities for creating titles or logos for video projects. Photoshop offers several advanced options, advanced formatting (such as scientific notation), flexible layer
styles, and even a spellchecker. To create a new Photoshop File 2. The New Photoshop File dialog box appears, with settings based on your current sequence. 3. Click OK. 4. Choose a location to store your new PSD file, name
it, and click Save. 5. Photoshop opens, ready for you to edit the file. Photoshop automatically displays safe action and safe title zones in the form of guides. These guides won't appear in the finished image. 6. Select the Horizontal Type tool by pressing T. 7. You can click to add point text or draw a text block for
paragraph text. As in Premiere Pro, using a text box in Photoshop allows you to precisely control the layout of text. 8. Enter some text you'd like to use. 9. Adjust the font, color, and point size to taste using the controls in the Options bar across the top of the screen. 10. 11. Click the Commit button (in the Options bar) to
commit the text layer. To add a drop shadow, choose Layer > Layer Style > Drop Shadow and adjust to suit. Tip If you have disabled guides in the Photoshop, you can save and close the file. It will already be in
your Project panel in Premiere Pro. If you'd like to edit the title in Photoshop, select it in the Project panel or Timeline and choose Edit > Edit In Adobe Photoshop, the title updates automatically in Premiere Pro. WORKING WITH SHAPES AND LOGOS When creating title graphics,
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you'll likely need more than just words to build a complete graphic. Premiere Pro also offers the ability to create vector shapes as graphic elements. Many of the settings you adjusted when working with text also apply to shapes. You can also import completed graphics (like a logo) as a layer in a new graphic clip.
Creating shapes If you've created shapes in graphics-editing software such as Photoshop or Adobe Illustrator, you'll find creating geometric objects in Premiere Pro similar. You can use the Pen tool to click multiple points in the Program Monitor to create a unique shape. You can also use the Pen Tool submenu to select
the Rectangle tool or Ellipse tool. Using either tool, drag in the Program Monitor to create a new shape. Try creating some shapes and adjusting their settings: 1. Open the sequence 03 Shapes. 2. Select the Pen tool, and click multiple points in the Program Monitor to create a shape. Each time you click, a new control
point is added. Create something small and unique in the lower-left corner of the frame. 3. Complete the shape by clicking the first control point. Note New shapes will have the same appearance you last selected in the Essential Graphics panel. You can easily change the settings. 4. Try changing the fill color, adding a
stroke, and changing the stroke color. You will need to switch to the Selection tool and select the shape as an object to view changes made to the stroke as the control points overlap it. 5. Create a new shape with the Pen tool, in the lowerright corner. This time, instead of just clicking, drag each time you click. Dragging
when you click creates control points with Bezier handles; these are the same handles you experimented with when setting up keyframes. These handles give you precise control over the shape you have created. 6. Press and hold the Pen tool in the Tools panel to give access to the Rectangle tool. 7. Drag to create
rectangles. After you begin dragging, hold the Shift key to create squares. 8. Now press and hold the Rectangle tool in the Tools panel to select the Ellipse tool. Try drawing ellipses. The Shift key allows you to create perfect circles. These kinds of random shapes may not win design awards, but they are the basic
building blocks of some of the most common multi-layer graphics, 9. Press and hold the Ellipse tool in the Tools panel to select the Pen tool, You can even click to add control points for more complex shapes. Try changing the existing shapes you have created, 10.
If you want a clean slate, press Command+A (macOS) or Ctrl+A (Windows), and then press Delete. You can also select layers in the Essential Graphics panel and delete them. Tip If the keyboard of your Mac doesn't have a Forward Delete key, press Fn+Delete. 11. Experiment with the different shape options. Try
overlapping them and using different colors, with different levels of opacity. The layer position for an object in the Essential Graphics panel sets which objects will appear in front, just as tracks do in the Timeline panel. Adding a graphic You can add image files to your graphic clips using common file formats, including
vectors (AI, EPS) and still images (PSD, PNG, JPEG). Let's try this with an existing graphic. 1. Open the sequence 04 Logo. This is a simple sequence. 3. In the Essential Graphics panel, just below the layers area in the Edit tab, open
the New Layer menu and choose From File. 4. Browse to the file logo.ai in the Lessons/Assets/Graphics folder, and click Import (macOS) or Open (Windows)., 5. With the Selection tool, drag the logo to position it where you want it in the title. Then adjust the size, opacity, rotation, or scale of the logo. Note When
resizing imported items in a graphic clip, scaling over 100% of the original item's image size will lead to a loss of quality because the result is displayed as pixels rather than as a vector image. Masking with a layer There's one further option in the Essential Graphics panel that deserves an explanation: Mask With Text.
This is best understood by trying it: 1. Open the sequence 05 Mask. This simple sequence has a slow-moving background clip and a graphic with one layer that is an imported image of some ivy. 2. Position the Timeline playhead at the beginning of the sequence. Select the Graphic clip, and select the Type tool. Click in
the Program Monitor, and type the word IVY, in all caps. 3. Switch to the Selection tool. Use the options in the Essential Graphics panel to expand the IVY text to fill the ivy clip area as closely as possible. Reposition the text with the Selection tool as needed to match this example: 4. With the text item selected, scroll
down in the Essential Graphics panel and select Mask With Text. The Mask With Text option masks any layer inside a graphic, using the Track Matte Key effect. The difference is that the effect is limited to the contents of the current
graphic. Using rulers and guides There are several ways to arrange and align items in the Program Monitor. By default, you'll be able to move items freely in view, but, like the snapping option in the Timeline panel, there are also ways to snap items into position in the Program Monitor. 1. Open the 03 Shapes sequence
you worked on earlier. 2. With the Selection tool, try moving the shapes around. They'll move freely and overlap based on their stacking order in the Essential Graphics panel. 3. With the Program Monitor active, choose View > Snap In Program Monitor. Now as you drag items, lines appear showing alignment with other
items or the center or edge of the Program Monitor. The item you drag will snap into alignment. In this complex graphic, with one shape, towards the end of the sequence, where the frame is clear again. Try dragging the
graphic around the frame, and notice the satisfying certainty when the shape snaps into position. 5. Choose View > Show Rulers are not interactive, but they give you a reference for the next step. 6. Click on the ruler at the top of the Program Monitor and drag down. This creates a guide that you can snap items
to. As you drag, the pixel position is shown as a tool tip. You can drag multiple guides from either ruler. Note If you want to use the guides. Choose the option again to unlock the guides. You can show or hide rulers and guides
by choosing them from the View menu. Guides are persistent, so if you hide them and then show them again, they will be exactly where you left them. You can also use the View menu to clear any guides you have added. There are buttons available in the Program Monitor Button Editor to quickly enable and disable
these options. MAKING A TITLE ROLL You can make rolling text for opening and closing credits. In fact, you can apply a roll to any graphic, not just to text. 1. Open the 04 Logo sequence. 2. Use the Program Monitor Settings menu to deselect the transparency grid. For this exercise, you'll use the background of the
Timeline to provide a black backdrop for a rolling end credit. 3. Position the Timeline panel playhead at the end of the sequence, just after the clip on the Video 1 track, so the Program Monitor displays a black screen. Using the Type tool, click in the Program Monitor to add point text. 4. Type several lines of text that you
would like to use as a credit roll, pressing Return (macOS) or Enter (Windows) after each line. For the purposes of this exercise, don't worry about the precise words. You'll find it difficult to add many lines of text without constantly repositioning it. It's often easier to have the text ready in a document so you can copy and
paste it into Premiere Pro. 5. When you have typed a few lines, use the Essential Graphics panel to format your text as desired. 6. Deselect the text layer (by clicking the background of the Program Monitor with the Selection tool). The Edit tab of the Essential Graphics panel will now show properties for the whole
graphic, not just the text you were typing. 7. In the Essential Graphics panel, select the check box to roll the title. Note The responsive design options that were touched on earlier are for motion graphics with a precisely timed intro and outro. Use these time controls to prevent duration changes from retiming start and end
animations. When you set a title to Roll, a scroll bar appears in the Program Monitor. Now, when you play through the clip, it will roll on and off the screen. With the scroll bar in place, it's much easier to add more lines of text and navigate through a long title. You have the following options: 1. Start Offscreen: This sets
whether the credit begins off-screen and rolls in or whether it begins where you positioned it in the Program Monitor. 2. End Offscreen: This indicates whether the screen or end on the screen. 3. Preroll: This sets the amount of time to delay before the rolling motion begins. 4. Postroll: This
specifies the amount of time to play after the roll ends. 5. Ease In: This specifies the number of frames at the beginning to gradually increase the speed of the roll at the end. When you trim a title to set the length.
this sets the playback speed of a rolling title. A shorter title will roll faster than a long one. 8. Play through your rolling title. WORKING WITH MOTION GRAPHICS TEMPLATES The Browse tab of the Essential Graphics panel includes many built-in template graphics you can add to your sequences. They are all
customizable. Many of the presets include motion, so they are referred to as Motion Graphics templates can be created in Premiere Pro or Adobe After Effects, and there are differences in the templates each application creates: Motion Graphics templates created in Premiere Pro produce
graphics that are completely editable. Motion Graphics templates created in After Effects can include more advanced design and complex animation. They also have restricted controls, set by the original designer to give flexibility while retaining the original core design. The built-in templates are divided into categories.
Drag a template directly into any sequence to add it. Some templates may have a yellow font warning symbol. This indicates that the template on Adobe Fonts and you are online, the missing fonts are automatically
downloaded and installed. If in doubt, you can right-click a template in the Essential Graphics panel and choose Sync Missing Fonts. If it's not possible to install a missing font automatically, you'll see a warning message advising you that the missing font can't be downloaded. The Resolve Fonts dialog box will appear,
letting you know which fonts are missing. The easiest way to resolve a missing font is to go online and add the template again. If that's not possible, you can choose another font in the Essential Graphics section.
Creating a custom template graphic You can add your own custom graphics to the Browse tab of the Essential Graphics panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select a graphic From the Essential Graphics Panel. Simply select Panel
Destination menu. You can add keywords to make the template easier to locate when searching by entering each keywords, separating them with a comma (,) before pressing Enter. When you're happy with the settings, click OK. If you chose a local
drive location, you can import the file on any computer by choosing Graphics > Install Motion Graphics Template or by clicking the button in the lower-right corner of the Essential Graphics panel Browse tab. This makes it easy to share your custom template titles or store them in a collection for future use. ADDING
CAPTIONS There are two kinds of captions you might encounter when producing video for television broadcast and beyond: closed and open. Closed
either kind of caption in the same way. In fact, you can even convert one kind of caption file to another. Closed-caption files have a more limited range of colors and design features than open captions. This is because closed captions are actually generated and displayed by the viewer's TV, set-top box, or online viewing
software, so display options are fixed. The following workflow describes working with closed captions, but open captions work the same way, as you'll see in "Using open captions Video content can be enjoyed by more people when it is accessible. It's a requirement for most
broadcast television stations to add closed-captioning information that can be decoded by television sets. Visible captions are inserted into a video file and travel through supported formats to specific playback devices. Adding closed-captioning information is relatively easy as long as you have captions that have been
properly prepared. Caption files are often generated with software tools, and there are multiple competing systems available. Here's how to add captions to an existing sequence: 1. Keeping the current project open, choose File > Open Project. Browse to the Lessons folder, and open Lesson 15 02.prproj. 2. Save the
project as 15 02 Working.prproj. 3. If it's not displayed in the Timeline panel already, open the sequence NFCC PSA. 4. Choose File > Import, and navigate to the Lessons/Assets/Closed Captions folder. Import the file NFCC PSA.scc. The DFXP, MCC, SCC, SRT, STL, and XML formats are all supported. The caption
file is added to the bin as if it were a video clip, with a frame rate and duration. 5. Edit the closed-captions clip to a track above all the Program Monitor, and choose Closed Captions Display > Enable. Initially, nothing will change.
There are different caption types for different television systems. Within each type there are multiple possible streams. For example, one stream might be French. By default, the Program Monitor is configured to display Teletext captions, which are the wrong type for this caption
file, so nothing will be displayed. 7. Open the Program Monitor Settings menu again, and choose Closed Captions Display > Settings. Choose CEA-608 from the Standard menu for this caption File, and click OK. 8. Play the sequence to see the captions. This public service announcement was produced by RHED Pixel
and is provided courtesy of the National Foundation for Credit Counseling, 9. After selecting the captions panel (Window > Captions). You can adjust the content, timing, and formatting of captions using the panel's controls. Several controls are quite
similar to the Markers panel. You can also change the timing by dragging the handles for each captions in the sequence. Creating new captions right within Premiere Pro. 1. Choose File > New > Captions. The New Captions dialog box opens. 2. The default settings are based on
your current sequence. 3. The Timebase will automatically match your current sequence. Use the Standard menu to choose the type of caption that will be created. 1. CEA-708 is for digital broadcast. 3. Teletext is sometimes
used in PAL countries. 4. Open Subtitling creates regular subtitles that are automatically visible (they don't need to be enabled by the viewer). 5. Australian DP4T2 closedcaptioning standard, used by Australian broadcast television networks. 6. Open Captions are always visible and give the maximum
flexibility for appearance (popular for social media videos). For this clip, choose CEA-708. 4. The default option of Service 1 from the Stream menu sets this as the first stream of closed-caption clip on the Video 2 track
by selecting it and pressing Delete (macOS) or Backspace (Windows). 6. Edit the new closed-caption clip onto the Video 2 track. It will be too short for the sequence (by default it's three seconds long). Drag the end of the caption to trim it to the duration you need (usually the full length of the sequence). Next, select the
closed- caption clip in the sequence, and open the Captions panel (Window > Captions). 7. Click the Program Monitor Settings menu, choose CEA-708 to match the new captions, and click OK. 8. In the Captions panel, click where you see the words
Type Caption Text Here, and select that text to edit the caption contents. Enter text that matches the dialogue and/or narration being spoken, and then click the + (plus) button at the bottom of the Captions panel to add another caption. Note If the total caption duration increases, you may need to trim the sequence clip
longer to display all of its contents. 9. Adjust the In and Out durations for each captions in the Captions panel or directly on the Timeline. 10. Use the formatting controls at the top of the Captions panel to adjust the appearance of each caption. The options for these standard closed captions are quite limited (by design).
For more information about this, see the next section, "Using open captions." Note Using the Button For easy access to toggling viewable captions. Note Premiere Pro can apply interpretation to SRT and STL caption files as they
are imported. Click Import Settings in the Captions panel to access the video, alignment, and style settings. These comprehensive settings won't modify caption files and want them to have a matching style. Using open captions
You can create, import, adjust, and export open captions in the same way that you would work with closed caption file, or caption clips. The benefit of working with open captions is that the timing is set in the caption file, or caption clip.
in Premiere Pro, saving you significant time synchronizing the text with the spoken words. Another similarity with regular graphics is the broader range of appearance options than you'll find with closed captions. You can change the caption type by right-clicking a caption's clip in the Project panel and choosing Modify >
Captions to open the Modify Clip dialog box. In the Target Stream Format section, you can specify the stream type for this caption type, but not
the other way around. REVIEW QUESTIONS 1. What are the differences between point text and paragraph (or area) text? 2. Why display the title-safe zone? 3. How do you use the Rectangle tool to make a perfect square? 4. How do you apply a stroke or drop shadow? 5. How can you specify the caption type when
creating new captions? REVIEW ANSWERS 1. You create point text by clicking in the Program Monitor with the Type tool, you define a bounding box for paragraph text, and the characters remain within its confines. Changing the
box's shape displays more or fewer characters. 2. Some TV sets cut off the edges of the picture. The amount lost varies from set to set. Keeping your text within the title-safe area ensures that viewers will see all your title. This is less of a problem with newer flat-screen TVs and isn't important for online video, but it's still
a good idea to use the title-safe zone to frame your titles. 3. To create a perfect square, hold down the Shift key after you begin dragging as you draw using the Rectangle tool. You can create a perfect circle with the Ellipse tool in the same way. 4. To apply a stroke or drop shadow, select the text or object to edit, and
enable the Stroke (Outer or Inner) or Shadow options in the Essential Graphics panel. 5. Choose an appropriate option in the Standard menu of the New Captions dialog box. For HD video, choose CEA-708. The caption type you choose will depend upon your intended delivery medium. 16 Exporting Frames, Clips, and
Seguences Lesson overview In this lesson, you'll learn how to do the following: Choose export options. Export single frames. Create movie, image seguence, and audio files. Use Adobe Media Encoder. Upload to social media and Adobe Stock. Work with edit decision lists for project sharing. This lesson will take about
90 minutes to complete. To get the lesson files used in this chapter, download them from the web page for this book at www.adobepress.com/PremiereCIB2020. For more information, see "Accessing the lesson files and Web Edition" in the Getting Started section at the beginning of this book. One of the best things about
editing video is the feeling you have when you can finally share it with your audience. Adobe Premiere Pro offers a wide range of export options. Exporting your project is the final step in the video production process. Adobe Media Encoder offers multiple high-level output formats. Within those formats you have dozens of
options and can also export in batches. STARTING THE LESSON The most common form of media distribution is via digital files. Whether your completed project will be shown on a television, at the cinema, or on a computer screen, you will usually deliver a file that has the particular specifications required for that
medium. To create a file, you can export directly from Premiere Pro or use Adobe Media Encoder is a stand-alone application that handles file exports in batches, so you can export in several formats simultaneously and process in the background while you work in other applications, including
Premiere Pro and Adobe After Effects. UNDERSTANDING THE MEDIA EXPORT OPTIONS Whether you've completed a project or you just want to share an in-progress review, you have a number of export options. You can export to an appropriate file type, format, and codec for your chosen delivery medium. You can
export a single frame or a series of frames. You can choose audio-only, video-only, or full audio/video output. Captions can be included, embedded in the output file, or stored in a separate file. Exported media can be reimported into the project automatically for easy reuse. You can play directly to videotape—still a
popular option for some delivery or archiving workflows. Beyond choosing an export format (frame size, frame rate, and so on), there are several other options when exporting a file: You can choose to create files in a similar format and at the same visual quality and data rate as your original media, or you can compress
them to a smaller size to make distribution easier. You can transcode your media from one codec to another to make it easier to exchange with creative collaborators. You can set the frame size, frame rate, data rate, or audio and video codec and configuration if an existing preset doesn't fit your needs. You can apply a
color lookup table (LUT) to assign a look. You can also apply a video limiter, HDR to SDR conversion, and audio normalization. You can upload an exported file directly to social media accounts, an FTP server, or Adobe Stock. Note The content that's selected when
you choose File > Export is what Premiere Pro will export. This can consist of clips or sequences, or parts of clips or sequences, you may want to export a still frame to send to a team member or client for review. You might also want to export an image to
use as the thumbnail of your video file when you post it to the Internet. When you export a frame from the Source Monitor. Premiere Pro creates a still image that matches the
resolution of the sequence. Let's give it a try. 1. Open Lesson 16.prproj. 3. Open the Export Frame button on the lower
right. Note If you don't see the button, it may be because you've customized the Program Monitor or the Timeline panel and press Shift+E (macOS) or Shift+Etrl+E (Windows) to export a frame. 5. In the Export Frame dialog
box, enter a filename. 6. Choose a still-image format from the Format menu. 1. JPEG, PNG, and BMP (Windows only) are universally readable. JPEG and PNG files are commonly used in website design. 2. TIFF, TGA, and PNG are suitable for print and animation workflows. 3. DPX is often used for digital cinema or
colorgrading workflows (fine color finishing). 4. OpenEXR is used to store high dynamic range picture information. Note If your video format uses non-square pixels, the resulting image file will appear to have a different aspect ratio. This is because still image formats have square pixels. Using Adobe Photoshop, you can
resize the image horizontally and restore the original aspect ratio. 7. Click the Browse button to choose a location to save the new still image. Create a folder named Exports in the Lessons folder, select it, and click Choose. Note In Windows, you can export to the BMP, DPX, GIF, JPEG, OpenEXR, PNG, TGA, and TIFF
formats. On a Mac, you can export to the DPX, JPEG, OpenEXR, PNG, TGA, and TIFF formats. Note If you export a TIFF file from Premiere Pro, the file will have a three-letter .tif file extension, rather than .tiff. Both are valid and work interchangeably. 8. Select the Import Into Project option to add the new still image into
your current project, and click OK. The new still image is created, and a clip linked to it is added to the Project panel. EXPORTING A MASTER COPY A master copy is a pristine digital copy of your edited project that can be archived for future use. It's a selfcontained, fully rendered output file from your seguence at the
highest resolution and best quality possible. You can use a file of this kind as a source media file to produce other compressed output formats without opening the original project in Premiere Pro. Though basing other copies on this digital master technically means losing a tiny amount of quality (one digital generation),
the loss is so minimal relative to the convenience and time-savings that many editors find it a worthwhile exchange. Matching sequence settings ldeally, the frame size, frame rate, and codec of a master file will closely match the sequence it's based on. It can seem like a lot of settings to think about when creating a new
exported media file. Thankfully, Premiere Pro makes matching your sequence or original clip settings easy. 1. Continue working with the Review Copy sequence. 2. With the sequence selected in the Project panel or open in the Timeline panel, with that panel selected, choose File > Export > Media. The Export Settings
dialog box opens. You can also press Command+M (macOS) or Ctrl+M (Windows). Note In some cases, the Match Sequence Settings option cannot write an exact match of the original camera media. For example, XDCAM EX will write to a high-quality MPEG2 file. In most cases, the file written will have an identical
format and closely match the data rate of the original sources. 3. You'll learn more about this dialog box later. For now, select the Match Sequence Settings check box. 4. The blue text showing the output name is actually a button that opens a Save As dialog box. You'll find the same type of text-as-a-button in Adobe
Media Encoder. Click the output name now. 5. Choose a target location (for now, use the Exports folder you created earlier), name the file Review Copy 01, and click Save. 6. Review the Summary information to check that the output format matches the sequence settings. In this case, you should be using DNxHD media
(as MXF files) at 29.97 fps. The Summary information is a quick, easy reference that helps you avoid minor errors that can have big consequences. If the Source and Output Summary settings match, it minimizes conversion, which helps maintain the quality of the final output. Note The number in brackets in the export
summary is the pixel aspect ratio. When exporting a sequence, the sequence itself is the source in the Export dialog box—not the sequence settings. 7. Click the Export button to create a media file based on the sequence. Note that DNxHD media
files can be viewed and edited in Premiere Pro but cannot (usually) be previewed in macOS or Windows. Choosing the source range You don't have to export a whole sequence. In fact, you'll commonly export only a selected part of your sequence for review or distribution, particularly for social media where durations are
often short. Choose File > Export > Media to bring up the Export Settings dialog box again. You'll find the Source Range controls on the lower left. In and Out points are automatically used if they have been added to the sequence or clip you are exporting. You can change that by choosing an option from the Source
menu. You can apply new In and Out points by dragging the small triangular handles along the navigator directly above the menu or by positioning the playhead on the navigator and then clicking the Set In Point and Set Out Point buttons or pressing I and O. Choosing another codec When you export to a new media file,
you can choose the format and codec that's used. Some camera capture formats (such as the popular H.264 MP4 files commonly produced by DSLR cameras) are already heavily compressed. Using a higher-quality mastering codec can help to preserve quality. Tip Even if your original media is 8-bit, it is likely you will
have been editing using higherquality effects. The subtle results can be better captured in a 10-bit file than an 8-bit file. Choose your format and preset first; decide whether you'd like to export audio, video, or both; and modify the settings to suit. Note The settings displayed change depending on the format you choose.
Most of the critical options are accessed in the Video and Audio tabs. 1. In the Export Settings dialog box, open the Format menu, and choose Opick-Time. In the Preset menu, choose Apple ProRes 422. This is a rather specific-sounding preset, but it is just that—a preset, which preselects options from other menus in
this dialog box that you can change if you need to. 2. Click the output name (the blue text), and give the file a new name, Review Copy 02. Navigate to the same destination you used in the previous exercise and click Save. Note On the Video tab, you'll also find the option Render At Maximum Depth. When working
without GPU acceleration, this can improve the visual quality of your output by using greater precision to generate colors. However, this option can add to the render time. Match this setting in the sequence settings to ensure the results are consistent. Below the Export Settings area you'll find a series of tabs containing
important additional options. Click a tab name to view it. Here's an overview: 1. Effects: You can add a number of useful effects and overlays as you output your media (see these options in the next section). 2. Video: The Video tab allows you to set the frame size, frame rate, field order, and profile. The settings available
are based on the preset you chose. 3. Audio: The Audio tab allows you to adjust the bit rate of the audio and, for some formats, the codec. The default settings specify whether the video and audio will be combined or delivered as separate files. These
controls also let you determine whether the file will be optimized for compatibility with a specific hardware device (such as a set-top box or media server). 5. Captions: If your sequence has captions, you can specify whether they are ignored, "burned in" (added to the visuals permanently), or exported as a separate file
(referred to as a sidecar file), 6. Publish: This tab lets you enter the details of several social media services for your file to be delivered to. You'll learn more about this later in this lesson, 3. Click the Video tab to bring it forward, 4. In the Video Codec section of the Video tab, choose one of the available codecs from the
Video Codec menu. Choose the ProRes 422 codec. This produces a highquality (but reasonably sized) file. Make sure the frame size and frame rate match your source settings. You might need to scroll down or resize the panel to see all the settings. Note ProRes is a professional codec that is supported natively by
Adobe Creative Cloud applications. Like all codecs, it will play back only in media applications that support it. 5. Scroll down to view the Basic Video Settings will match the source. The Match Source button will override all the manual settings below to match the output to the
source. Below the Match Source button is a series of output format settings. If the button is clicked, the settings will automatically match the source. 6. Click to select the Audio Settings area, make sure 48000 Hz is chosen from the Sample Rate menu and 16 bit is chosen from the Sample Size
menu. Just below that, in the Audio Channel Configuration area, make sure Stereo is chosen from the Output Channels menu. 7. Click the Export button at the bottom of the dialog box to export the sequence and transcode it to a new media file. The most popular delivery format and codec is an MPEG4 (.mp4) file, using
the H.264 codec. If you choose H.264 in the Format menu, you'll find presets for YouTube and Vimeo. Tip HEVC/H.265 is a relatively new compression system formulated by the same Motion Picture Experts Group that brought us H.264. It's more efficient, but fewer players support it, and it requires more hardware
power than H.264. You may be asked to supply media using this codec when producing 4K and UHD content. Cropping the source image Moving to the Export Settings dialog box, you will find the Source and Output tabs. 1. With the sequence selected in the Project panel, or open in the Timeline panel
press Command-M (macOS) or Ctrl-M (Windows). This is the keyboard shortcut for Export Media. 2. Click the Source tab gives access to cropping controls. Click the Crop The Output Video button to enable the controls. You can enter specific values (in pixels) at the top
of the dialog box or drag the handles in the Source preview to crop the image. 3. The Crop Proportions menu has several options to restrict the settings to a particular aspect ratio. Choose 4:3 from the Crop Proportions menu. Now, if you make changes to the crop values, the values will be locked to a 4:3 aspect ratio. 4.
Click the Output tab to bring it to the front. The Output tab shows a preview of the video to be encoded. The Source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch between the source Scaling menu lets you choose the way a mismatch betwe
Change Output Size To Match Source is not available for all export formats. It achieves the same result as clicking the Match Source Scaling menu set to Scale To Fit. After making changes on the Source tab or choosing a new output frame size, it's always
a good idea to check the Output tab to spot errors such as unwanted letterboxing or distortion caused by the irregularly shaped pixels used in some video formats. 6. Choose the following settings: Format: H.264. Preset: Match Source – High Bitrate, Import Into Project: Enabled. Output Name: Click the blue filename.
choose a location in the Lessons folder, and name the file 4x3 Test.mp4. 7. Click Export. The new media file is created, and the clip appears in the Project panel. When exporting a file with black bars at the top or sides, those bars become part of the file. In this case, you have created a 16×9 file that includes black
pixels. These black pixels are sometimes desirable as it helps to ensure the image will be displayed with the correct aspect ratio on a 16×9 screen. WORKING WITH ADOBE MEDIA ENCODER Adobe Media Encoder is a stand-alone application that can be run independently of or be launched from Premiere Pro. One
advantage of using Media Encoder is that you can send an encoding job directly from Premiere Pro and then continue working on your edit as the encoding is processed. If your client asks to see your work before you finish editing, Media Encoder can produce the file in the background without interrupting your flow. By
default. Media Encoder pauses encoding when you play video in Premiere Pro to maximize playback preferences. Choosing a file format for export It can be a challenge to know how to deliver your finished work. Ultimately, choosing delivery formats is a
process of planning backward; find out how the file will be presented, and it's usually straightforward to identify the best file type for the purpose. Often, clients will have a delivery specifications document to follow, making it easier to select the right options for encoding. Premiere Pro and Adobe Media Encoder can export
to many formats. In fact, Premiere Pro shares Adobe Media Encoder's options. Note If you're working with a professional mastering format (such as MXF OP1a, DNxHD MXF OP1a, or QuickTime), you can export up to 32 channels of audio. To do so, the original sequence must be configured to use a multichannel master
track with the corresponding number of tracks. Configuring the export To export from Premiere Pro to Adobe Media Encoder, you'll need to gueue the export. 1. Continue working with the Review Copy sequence.
Either select the sequence in the Project panel or have it open in the Timeline panel, with that panel active. 2. Choose File > Export > Media, or press Command+M (macOS) or Ctrl+M (Windows). It's best to work through the Export Settings dialog box from the top down, starting with the Export Settings area. Choosing a
format Adobe Media Encoder supports many formats. Knowing which setting to use can seem a little overwhelming. Let's take a look at some common scenarios and review which formats are typically used. There are few absolutes, but these should get you close to the desired output. It's a good idea to test your output
on a short section of your video before producing a full-length finished file. This will save you waiting for the complete version, only to discover there is a better setting to choose. 1. Encoding for user-generated video sites: The H.264 format includes presets for YouTube, Vimeo, Facebook, and Twitter in widescreen, SD,
HD, and 4K. Use these presets as a starting point, 2. Producing a DCP for theatrical distribution: Choose the Wraptor DCP and then pick 24 or 25 frames per second, choose 24 frames per second for output to a DCP. Settings are limited to ensure compatibility with standard
media requirements. Most Premiere Pro presets are conservative and will deliver good results with the default settings, so you probably won't improve the quality by making adjustments. 3. Choose H.264 from the Format menu. This is a popular choice for files you'll upload to online video websites. 4. In the Preset menu.
choose Vimeo 720p HD. These settings match the frame size and frame rate of the sequence. The codec and data rate match the requirements for the Vimeo.com website. 5. Click the output name (the blue text) and give the file a new name, Review Copy 03. Save it to the same destination you selected in the previous
exercise. 6. Check the Summary information text to verify your choices. Export effects At the point of export, you can apply visual effects, add information overlays, and make automated adjustments to the output file. Here's an overview of the options on the Effects tab: Lumetri Look/LUT: Choose from a list of built-in
Lumetri looks or browse to your own, allowing you to quickly apply a nuanced adjustment to the appearance of your output file. This is most commonly used when viewing recordings at the end of each day of production (the dailies). SDR Conform: If your sequence is high dynamic range, you can produce a standard
dynamic range version. Image Overlay: Add a graphic, like a company logo or network "bug," and position it on-screen. The graphic will be incorporated into the image. Name Overlay: Add a text overlay to the image. This is particularly useful as a watermark to protect your content or as a way to identify versions.
Timecode Overlay: Display timecode for your finished video file, making it easy for viewers without specialized editing software to note reference times for commenting purposes. Time Tuner: Specify a new duration or playback speed, up to + /-10%. This is achieved by applying subtle adjustments to periods of low action
where the soundtrack is silent. Results vary depending on the media you are working with, so test different speeds to compare the end results. Video Limiter: Although it's usually best to get your video levels right in the sequence, you can apply a limiter here
too, to ensure your resulting file meets the required levels for broadcast television. Loudness Normalization: Use the Loudness scale to normalize audio levels in your output file for broadcast television delivery. As with video levels, it's best to get this right in the sequence, but it can be reassuring to know your levels will
be limited during export. Queuing the export When you're ready to create your media file, you have a few more options to consider. These are found in the lower-right portion of the Export Settings dialog box. Use Maximum Render Quality: Consider enabling this setting when scaling from larger image sizes to smaller
image sizes. This option requires more RAM and can take longer to encode. This option is usually not required except when working without GPU acceleration (in software-only mode), when scaling the image down and seeking the highest quality possible. Use Previews: When you render effects, preview files are
produced that look like your original footage combined with the effects. If you enable this option, the preview files will be used as the source for the new export. This can save a significant amount of time that would otherwise be spent rendering the effects again. The result might be lower quality, depending on the
sequence preview files format (see Lesson 2, "Setting Up a Project"), Still, if you have configured your sequence previews to be very high quality and have rendered all effects already, this option can save an enormous amount of time when exporting—possibly 90% or more. Import Into Project: This option automatically
imports the newly created media file into your current project so you can review it or use it as source footage. Set Start Timecode other than 00:00:00:00 for the newly created file. This is useful if you are working in a broadcast environment where a specific timecode start may
be a delivery requirement. Render Alpha Channel Only: Some postproduction workflows require a separate grayscale file representing the alpha channel (the channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate grayscale file representing the alpha channel only: Some postproduction workflows require a separate gray file file representing the alpha channel only in the alpha channel on the alpha channel on the alpha channel on the alpha channel on the alph
than your sequence, this menu lets you specify the way the frame-rate change is rendered. The options are these options to consider when exporting: Metadata: Click this button to open the Metadata Export panel. You
can specify a wide range of settings, including information about copyright, creator, and rights management. You can even embed useful information such as markers, script, and speech transcription data for advanced delivery options. In some cases, you may prefer to set the Metadata Export Options setting to None,
removing all metadata. Queue: Click the Queue button to send the file to Adobe Media Encoder, which will open automatically, allowing you to continue working in Premiere Pro while the export takes place. Export: Select this option to export directly from the Export Settings dialog box rather than sending the file to the
Adobe Media Encoder gueue. This is a simpler workflow and usually a faster export, but you won't be able to edit in Premiere Pro until the export is complete. 1. Click the Queue button to send the file to Adobe Media Encoder will not begin encoding automatically. To begin encoding, click the Start
Queue button in the upper-right corner. Looking at additional options in Adobe Media Encoder Adobe Media Encoder brings a number of additional benefits. Although it involves a few extra options are often worthwhile.
Note Adobe Media Encoder does not have to be used from Premiere Pro. You can launch Adobe Media Encoder on its own and browse Premiere Pro projects to choose items to transcode. Here are some useful features: Add files for encoding: You can add files to Adobe Media Encoder by choosing File > Add Source.
You can even drag files into it from Finder (macOS) or Windows Explorer (Windows). There's a Media Browser panel too, which you can use to locate items, just as you would in Premiere Pro Sequence to select a Premiere Pro project file
and choose sequences to encode without ever launching Premiere Pro. Render After Effects compositions directly: You can import and encode compositions from Adobe After Effects by choosing File > Add After Effects Composition. Once again, you don't need to open Adobe After Effects. Use a watch folder: If you'd
like to automate some encoding tasks, you can create watch folders by choosing File > Add Watch Folder and then assigning a preset to that watch folder. Watch folders exist in Finder (macOS) or Windows Explorer (Windows) like any other folder. If Adobe Media Encoder is running, media files placed into the folder are
automatically encoded to the format specified in the preset. Modify a queue: You can add, duplicate, or remove any encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list. Start encoding tasks using buttons at the top of the list.
encoding. Files in the queue are encoded one after another. You can add files to the queue after encoding has begun. You can even add files to the queue after encoding is taking place. Modify settings: Once the encoding tasks are loaded into the queue, changing settings is easy; click the
item's Format or Preset entry (in blue text), and the Export Settings dialog box appears. When encoding is completed, you can quit Media Encoder. UPLOADING TO SOCIAL MEDIA When encoding is completed, you can quit Media Encoder. UPLOADING TO SOCIAL MEDIA When encoding is completed, you can quit Media Encoder. UPLOADING TO SOCIAL MEDIA When encoding is completed, you can quit Media Encoder.
dialog box. The Publish settings allow you to upload exported videos to your synchronized Creative Cloud Files folder, Adobe Behance, Facebook, an FTP server (FTP is a standard way to transmit files to a remote file server), Twitter, Vimeo, and YouTube when the encoding is complete. This powerful
feature is particularly useful because the settings you choose can be incorporated into an export preset. This means you can configure your social media uploads once and have those settings apply to multiple future media uploads simply by choosing a preset. 1. Return to Premiere Pro. 2. Make sure the Timeline panel
is active, and choose File > Export > Media or press Command+M (macOS) or Ctrl+M (Windows) to display the Export Settings dialog box. 3. Select the Publish tab to bring it to the front. 4. Click Cancel to close the Export Settings dialog box. Each platform has its own delivery standards, though in many cases you can
choose a high-quality master file and let the platform do the work of producing more highly compressed alternative versions from that file. Adobe Stock, for example, supports a range of video formats and codecs. If you produce a high-quality UHD (3840×2160) file, the rest can be handled by the server. Social media
platforms are increasingly important media distribution outlets, and Adobe is closely involved in developing new technologies and workflows to make it easier to share your creative work and maximize audience engagement. EXCHANGING WITH OTHER EDITING APPLICATIONS Collaboration is an essential part of
post-production. Premiere Pro can both read and write project files and footage files that are compatible with many of the top editing and color-grading tools on the market. This makes it easier to share creative work, even if you and your collaborators are using different editing systems. Premiere Pro supports EDLs (Edit
Decision Lists), OMF (Open Media Framework), AAF (Advanced Authoring Format), ALE (Avid Log Exchange) import and export. If you're collaborating with an Avid Media Composer editor, you can use AAF as an intermediary, allowing the exchange of clip information, edited
sequences, and some effects. If you're collaborating with an Apple Final Cut Pro editor, you can use XML as an intermediary similarly. It's straightforward to export and either choose File > Export > AAF or choose File > Export > Final Cut Pro
XML. For more information about best practices when sharing creative work between applications, see helpx.adobe.com/premiere-pro/using/exporting to OMF Open Media Framework (OMF) is an industrystandard file type for exchanging audio information between systems (typically
for audio mixing). When you export an OMF file, the typical result is a single file that contains all the audio files included in a sequence, arranged as clips on audio tracks, timed and edited, just as they do in the Premiere Pro
sequence. Here's how to create an OMF file: 1. With a sequence selected, choose File > Export > OMF. 2. In the OMF Export Settings dialog box, enter a name for the file in the OMF Title field. 3. Check that the Sample Rate and Bits Per Sample settings match your footage; 48000 Hz and 16 bits are the most common
settings. 4. From the Files menu, choose one of the following: 1. Embed Audio: This option exports an OMF file that contains the project metadata and all the audio files, which are
exported into a folder called omfiMediaFiles. This is a popular standard for audio engineers who are using advanced audio mixing workflows. 5. If you're using the Separate Audio option, choose between the AIFF and Broadcast Wave formats. Both are high quality, but check the option you need for the system you need
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to exchange with. AIFF files tend to be the most compatible. 6. From the Render menu, choose either Copy Complete Audio Files or Trim Audio Files tend to give you some flexibility when modifying and mixing the clips. 7. Click OK to generate the
OMF file. Note OMF files have a 2 GB file limit—if you're working on a long sequence, you may need to separate it into two or more sections and export them separately. 8. Choose a destination, and click Save. You can use your Exports folder for now. When the export is complete, the OMF Export Information dialog box
appears. It displays information about the export and reports any errors that were encountered. Click OK to close the dialog box. Working with edit decision lists An edit decision lists An edit decision list (EDL) is a simple text document with a list of instructions for automating editing tasks. The formatting follows standards that allow the EDL to
be read by a number of different systems. It's rare for an EDL to be requested. Still, you can export a sequence to the most commonly used type, CMX3600. To create a CMX3600 EDL, select a sequence in the Project panel or open it in the Timeline panel, and choose File > Export > EDL. The requirements for EDLs are
usually particular, so be sure to request the EDL specifications before creating one. Thankfully, EDL files are usually small, so if you are unsure of the settings you should choose, you can produce and share several alternative versions to see which works best. FINAL PRACTICE Congratulations! You have now learned
enough about Adobe Premiere Pro to import media; organize projects; create sequences; add, modify, and remove effects; mix audio; work with graphics and titles; and output to share your work with the world. Now that you have completed this book, you may want to practice. To make this easier, the media files for a
few productions have been combined in a single project file so you can explore the techniques you have learned. These media files can be used only for personal practice and are not licensed for any form of distribution, including YouTube or any other online distribution, so please do not upload any of the clips or the
results of any editing work you do with them. They are not for sharing with the public; they are just for you to practice with privately. The Final Practice project file, in the Lessons folder, contains original clips for a few productions: 360 Media: A short excerpt from an introduction to a 360° video feature film. Use this
media to experiment with the playback controls for 360° video. Andrea Sweeney NYC: This is a short road-movie diary piece. Use the voice-over as a guide to practice combining 4K and HD footage in a single timeline. Experiment with panning and scanning in the 4K footage if you choose to use HD sequence settings.
Bike Race Multi-Camera: This is simple multicamera footage. Experiment with live editing on a multicamera project. Boston Snow: This is a mixture of shots of Boston Common filmed in three resolutions. Use this media to experiment with Scale To Frame Size, and keyframe controls to scale shots.
Try using the Warp Stabilizer effect to lock one of the highresolution clips and then scale up the clip and create a pan from one side to the other. City Views: This is a series of shots from the air and on land. Use these to experiment with image stabilization, color adjustment, and visual effects. Desert: Use the diverse
colors to try color correction tools and combine the footage with music to produce a montage. Valley of Fire: Try color adjustments to bring variation and visual interest, use speed changes to transform the experience of flying across a desert, and keyframe the rotating view to compensate for the movement and produce a
static shot. Jolie's Garden: This consists of atmospheric tableaux shot at 96 fps, set to play back at 24 fps, and filmed for a new feature film social media marketing campaign. Use these clips to experiment with the Lumetri Color panel looks and speed change effects. Laura in the Snow: This is media for a commercial
shot at 96 fps, set to play back at 24 fps. Use this footage to practice color correction and grading adjustments. Experiment with ramping slow motion and the effects you apply. Music: Use these music clips to practice creating an audio mix and editing visuals to music. She: This is a series of
stylized, mostly slow-motion clips that will be useful for experimenting with speed changes and visual effects, TAS: This is footage to try color grading and, as the footage is in two aspect ratios, mixing and matching the shots. Theft Unexpected: This is footage
from an awardwinning short film directed and edited by the author. Use this footage to experiment with trimming, and practice adjusting timing in simple dialogue to achieve different comic and dramatic results, changing the actors' performances. REVIEW QUESTIONS 1. What's an easy way to export digital video if you
want to create a self-contained file that closely matches the original quality of your sequence preview settings? 2. What Internet-ready export options are available in Adobe Media Encoder? 3. What encoding format should you use when exporting a master file? 4. Must you wait for Adobe Media Encoder to finish
processing its queue before working on a new Premiere Pro project? REVIEW ANSWERS 1. Click the Match Sequence Settings button in the Export Settings button 
DNxHR/DNxHD. It's important to check the required media specifications before exporting. 3. H.264 is the encoding format used when exporting to most mobile devices. 4. No. Adobe Media Encoder is a stand-alone application. You can work in other applications or even start a new Premiere Pro project while the render
queue is processed. Index 5.1 audio, 43, 254 8-bit video, 342–343 32-bit color effects, 309–310 180 video, 53, 73, 149 360° video, 43, 254 8-bit video, 342–343 32-bit color, 357, 383 See also VR video, 43, 254 8-bit vid
adjustment layers applying effects using, 313–315 creating a color look using, 377–378 graphics/titles and, 378 Adobe Authorized Training Centers, 7 Adobe Character Animator, 14 Adobe Color service, 410 Adobe Creative Cloud. See
Creative Cloud Adobe Fonts, 409, 431 Adobe Illustrator, 14, 71–72 Adobe Media Encoder, 13, 14, 15, 440, 448–453 See also exporting Adobe Stock, 73, 454 aligning text, 415 alpha channels explanation of, 383–384, 386 rendering only, 451 working with, 390–391 amplitude, 260
anchor points, 225–226 animation of clip size changes, 236–238 keyframe interpolation and, 238–241 See also Motion effect Appearance preferences, 26–27 aspect ratios, 241–242 assembly edits, 133 audio, 248–303 broadcast television, 283, 301 characteristics of, 260–261 clarity improvements, 290–291 dialogue
adjustments, 281–302 display format options, 47–48 dragging without video, 145 ducking applied to, 268–269 editing in Audition, 299–300 effects for improving, 280–281, 292–299, 301–302 export settings for, 448, 450 gain adjustments, 264–265 installing plug-ins for, 297 interface setup, 251–260 loudness options,
282–284, 301–302 master track output, 253–254 monitoring process, 259–260 noise reduction, 284, 285, 286–288, 299–300 normalizing, 265–268 OMF for exporting, 455–456 Pan and Balance controls, 275 recording voice-over, 75–76, 261–262 repairing or cleaning up, 284–290, 299–300 reverb reduction, 289–290
samples and sample rate, 47, 256–257 sending to Audition, 267 speed changes and, 199 split edits, 269–271 syncing with video, 106–107 track types, 42–43, 259 transitions, 187–189 volume adjustments, 262–268, 271–275, 291–292 waveforms, 257–259 audio channels, 104–106, 253–254 Audio Clip Mixer, 22, 252, 252, 253, 254 Audio Clip Mixer, 257–259 audio channels, 257–25
273-275 audio effects, 280-281, 292-299, 307 Loudness Radar effect, 301-302 Notch effect, 297-299 Parametric Equalizer effect, 293-297 See also video effects audio meters, 254-255 Audio Track Mixer, 253, 301-302 Audio workspace, 251-253 Audition, Adobe, 14, 15, 267, 299-300 Auto Bezier interpolation, 239, 239-239, 307 Loudness Radar effect, 301-302 Notch effect, 297-299 Parametric Equalizer effect, 298-299, 307 Loudness Radar effect, 301-302 Notch effect, 298-299 Parametric Equalizer eff
327 Auto Reframe effect, 241-243 Auto Save feature, 27, 51 B backdrop for text, 420 background noise removal, 299-300 backups, file, 27 Balance control, 275 Basic 3D effect, 246 Bezier interpolation, 239, 327 bins, 70, 86-95 creating new, 86-87 customizing, 93-94 filtering content in, 83-84 managing media in, 87-
88 opening multiple, 95 Project panel and, 70, 88 Search bin creation, 91 view options for, 88-90 See also Project panel bit depth, 41, 310 Black & White effect, 311, 363 blend modes, 386 alpha channels and, 391 combining tracks using, 389-390 video effects and, 315 Brightness & Contrast effect, 321-322, 367-368
Button Editor, 100-101, 128, 252, 297, 436 C captions, 432-436 closed, 432, 433-436 creating new, 435-436 open, 432, 436 Captions panel, 434, 435-436 open, 432, 436 Captions, 432-436 closed, 432, 436 Captions, 432-436 captions, 
Clarity options, 290-291 Classroom in a Book training series, 1 Clip Name effect, 333-334 clipboard, 164-165 clips closing, 96 conforming, 37, 122 disabling, 167 dragging, 145, 162-163 finding, 83-86 handles of, 174-175 importing, 66 label colors for, 91-92 linking and unlinking, 162 markers added to, 155 masking
397–400 master, 318–321 media files vs., 58–59 merging, 106–107 moving, 162–165 nudging, 163 origin of term, 10 playback speed, 96, 194, 196–202 playing, 95–98 previewing, 164 removing, 165–167 renaming, 92–93 replacing, 202–205 repositioning, 229–230 resizing, 234–238 rotating, 232–234
selecting, 115–116, 159–161, 189 splitting, 161–162 subclips created from, 117–118 volume adjustments, 271–275 closed captions, 432, 433–436 codecs, 39, 444–446 collaboration, 454–455 color balance. See white balance color correction, 340–379 color grading and, 344–345, 359 Color workspace for, 345–346
Comparison View for, 359–361 creating a distinctive look through, 377–378 effects related to, 363–365, 376–377 exposure problems and, 366–370 guidelines for checking, 370 Lumetri Color panel for, 346–351, 365, 371–376, 377, 378 Lumetri Scopes panel for, 352–359 matching colors for, 362–363 Ultra Key effect
and, 397 white balance and, 370–376 workflow for, 344–359 color grading, 344–345, 359 color matching, 349 color picker, 407 color space, 345–346, 363 coloring effects, 363–364 colors label, 91–92 matching, 362–363 primary and secondary, 357 text, 410 comment
marker, 152 Comparison View, 359-361 compositing, 380-401 alpha channels used in, 390-391 blend modes used in, 389-390 color keying greenscreen shots for, 397-400 shooting videos for, 385-386 terminology related to, 386-387 compressed
media files, 392 conforming process, 37, 74, 122 Continuous Bezier interpolation, 239, 327 contrast, text, 409 copying/pasting clip segments, 164–165 video effects, 313 Creative Cloud components overview, 14–15 saving backup files to, 27 sharing files using, 52 credits, rolling text for, 429–430 cropping controls, 447–
448 Cross Dissolve effect, 176–177, 180 crossfade transitions, 187 curves adjustments, 348, 373–376 cuts, 172, 174 D DCP format, 449 decibel (dB) scale, 255, 283 DeEss audio option, 284 DeHum audio option, 284, 285, 299 DeNoise effect, 287–288 DeReverb effect, 289–290 dialogue adjustments, 281–302 audio
effects, 292-299, 301-302 clarity options, 290-291 cleanup options, 284-285 Creative Reverb effect, 291 loudness settings, 282-284 noise reduction, 284, 285, 286-288 reverb reduction, 284, 289-290 volume settings, 291-292 See also voice-overs Directional Blur effect, 312 Display Color Management feature, 343-
344, 370 distortion correction, 337 Drag Audio Only icon, 100, 145, 257 Drag Video Only icon, 100, 145 dragging clips, 145, 162–163 drop shadows motion effects and, 420 drop zone, 25 dropped frames, 44 ducking audio, 268–269 duration audio transition, 188 display showing, 83, 99 setting for still
images, 135 speed changes related to, 198–202 video transition, 179, 183, 186 Dynamic Link, 15, 68, 316 dynamic trimming, 217–218 E Ease In/Out controls, 240–241, 327 edit decision lists (EDLs), 456 editing multicamera, 13 nonlinear, 10 touchscreen, 96 See also video editing Editing workspace, 20, 112 edits
assembly, 133 delete, 166–167 extract, 159, 166 four-point, 132, 194–196 insert, 130–131, 144 lift, 165–166 overwrite, 129–230 ripple, 209–211, 214 rolling, 211–212, 214 slide, 213 slip, 212–213 split, 269–271 three-point, 131–132 Effect Controls panel, 22 audio effects, 292–299 Brightness &
Contrast controls, 321–322 Motion effects, 292–299 color-adjustments, 263–264 effects, 310, 312, 313, 315, 319–320 volume adjustments, 263–264 effects, index effects in,
309, 311, 312, 363 video transitions, 176 Ellipse tool, 405, 425 Essential Graphics panel, 404–409 Appearance options, 420 Browse tab, 404 Edit tab, 404 Edit tab, 404, 406, 411, 413, 429 formatting text in, 411–413, 415 styling text in, 420–422 Essential Sound panel, 280–292 clarity adjustments, 290–291 creative adjustments, 291
dialogue adjustments, 281–292 improving audio with, 280–281 loudness settings, 282–284 noise reduction, 284, 285, 286–288 reverb reduction, 284, 285, 286–288 reverb reduction, 284, 289–290 volume adjustments, 291–292 Export Settings dialog box, 442–443, 444, 445, 449, 451, 454 exporting, 438–458 collaborating and, 454–455 configuration
settings for, 449–450 effects applied with, 450 file formats for, 441, 448, 449, 454–455 markers, 156 master copies, 442–448 OMF files for, 451–452 single frames, 441–442 to social media, 454 See also Adobe Media Encoder exposure fixes, 366–370
overexposed images, 369-370 underexposed images, 367-369 extract edits, 159, 166 eyedropper curves control, 374, 375 Effect Controls panel, 373 F Feet + Frames option, 47 file formats choosing for export, 441, 448, 449 supported by Premiere Pro, 64, 454-
455 video and audio, 39 files, project, 17, 27, 34, 133 See also media files Fill color swatch, 407 Final Practice project file, 456–457 Find dialog box, 85–86 finding assets Effects panel for, 309, 311, 312, 363 Media Browser for, 64–67 Project panel for, 83–86 Timeline panel for, 156 Fit Clip dialog box, 195 Fit To Fill edit,
194, 196 fixed effects, 224, 307–308, 313 Flash cue points, 153 flicker reduction, 226 folders, importing, 72, 101 fonts exploring available, 409 factors for choosing, 409–410 resizing in Project panel, 26, 89 warning symbol for missing, 431 formats. See file formats four-point editing, 132, 194–196 frame rate, 48, 107, 196
frames dropped, 44 exporting single, 441–442 stepping through, 101 Freeform view, 89, 101–103, 133 freeze frame, 185, 186 frequency, audio, 260 fx badge/button, 167, 196, 312, 325, 388 G gain adjustments, 264–265 gaps, finding/removing, 158–159 garbage matte, 398 Gaussian Blur effect, 314–315, 336–337, 376
GPU acceleration, 2, 13, 41, 45–46, 309 GPU cards, 309, 331 graphics adding to titles, 425–426 creating in Photoshop, 423 Motion Graphic templates for, 52, 430–432 saving Master, 422–423 vector, 71–72 Graphics workspace, 404 greenscreen, 387 color keying shots made with, 392–397 shooting videos using, 385–
386 guides and rulers, 428–429 H H.264 format, 446, 449 handles, clip, 174–175, 185–187 hard drives finding media files on, 88 typical setup for, 51 HDR technology, 353 headers, track, 75, 128 HEVC/H.265 codec, 446 History panel, 23 HLS vectorscope, 356 Hold interpolation, 239, 327 Home screen, 16–17, 35
Horizontal Center button, 412, 413, 415 hover scrubbing, 95–96 HSL Secondary adjustment, 349 Hue Saturation curves, 373–376 I Icon view, 89, 90 Illustrator program, 14, 71–72 Image Overlay option, 450 image stabilization effect, 332–333 images. See still images immersive video. See VR video Import command,
59, 60–61 Import Into Project option, 451 importing, 56–77 customizing media cache for, 74–75 file formats supported for, 64 finding assets for, 64–67 folders and subfolders, 72, 101 Illustrator files, 71–72 ingest process and, 52–53, 61–63 layered Photoshop files, 68–71, 87 media files, 58–61 proxy files, 61–63 still
image files, 67–72 stock items, 73 VR video, 73 In and Out points removing, 125–126 shortcuts for setting, 125, 166 Source Monitor, 113, 114, 115–116 three-point editing with, 131–132 Timeline panel, 124–126 indexed MPEGs, 74 Info panel, 23 ingest settings, 52–53, 61–63 insert edits, 130–131, 144 installing
Premiere Pro, 2 instances, clip, 91 interpolation methods, 239–240, 325–327 Interpret Footage option, 107, 113, 197 J -cut edits, 270 jump cuts, 174 K kerning text, 411–412 Key Color eyedropper, 394 keyboard shortcuts, 27–29 keyframes, 224, 238–241 adding to clips, 324–325 clip- vs. track-based, 273 Ease In/Out
controls for, 240-241 interpolation methods for, 239-240, 325-327 Opacity effect using, 388-389 Velocity graph for, 325, 327-328 volume adjustments with, 272-273 keying process, 383, 386 L label colors, 91-92 layers Essential Graphics panel, 406 Photoshop, 68-71, 87 L-cut edits, 271
leading, text, 413-415 Learning workspace, 23 Leave Color filter, 364 Lens Distortion effect, 337 Lens Flare effect, 324-328 lesson files, 3-4, 5, 17 Libraries panel, 22, 52 lift edits, 165-166 Linear interpolation, 239, 327 linking/unlinking clips, 162 List view, 88, 90 locking tracks, 156-158 looping playback, 101, 217-218,
297 Loudness Radar effect, 301–302 Loudness scale, 283, 450 Lumetri Color panel, 346–351 built-in looks, 377, 378 example of using, 350–351 match color option, 362–363 Reset Effect button, 356 sections and controls, 347–349 white balance adjustments, 370–376 Lumetri Color presets, 365 Lumetri Look effects,
319, 450 Lumetri Scopes panel, 352–359 RGB parade, 359 waveform display, 353–356 YUV vectorscope, 356–358 LUT files, 348, 377 M magnifying glass button, 35–416 Mark In/Out buttons, 114, 115–116 markers, 152–156 adding, 114, 153 clip, 155 explanation of, 152 exporting, 156
sequence, 153–155 types of, 152–153 Markers panel, 153–154 masking composited clips, 397–400 text used for, 426–428 visual effects, 321–323 master clip effects, 321–323 master clip effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 397–400 text used for, 426–428 visual effects, 321–323 master clips, 321–323 master clips,
443-444 source range options for, 444 Master Graphics, 422-423 Master Styles, 421-422 Match Sequence Settings option, 443 match Source button, 397-398 dynamically generating, 393-397 graphic clips as basis of, 399-400 Media Browser, 22, 59-60
finding assets with, 64-67 navigation features, 67 media cache, 74-75 Media Encoder, See Adobe Media Encoder media files clips vs., 58-59 compressed, 392 Final Practice project, 456-457 importing, 58-61 locating on drives, 88 organizing, 80-95 proxy, 61-63 Mercury Playback Engine, 45-46, 48, 146 merging
clips, 106–107 metadata, 13, 93–94, 103, 451 Monitor panels. See Program Monitor; Source Monitor mono audio, 43, 254 monochrome channels, 383 Morph Cut transition effect, 184–185 Motion effect, 222–247, 307 adjusting, 224–229 clip size changes, 234–238 Ease In/Out controls, 240–241 effects related to, 241–
246 keyframe interpolation and, 238-240 options for working with, 225-227 position changes, 229-230 properties related to, 227-229 reusing settings for, 231-232 rotating clips with, 232-234 Motion Graphics templates, 52, 430-432 motion paths, 240 moving clips, 162-165 MPEG4 file format, 446 multicamera editing
13 multichannel audio, 254 music tracks. See audio N Name Overlay option, 450 narration. See voice-overs Navigate Up button, 101, 113 nested seguences, 22, 121, 206–207 New Item menu, 38 noise reduction, 284, 285, 286–288, 299–300 nonlinear editing (NLE) system, 10 normalizing audio, 265–268, 450 Notch
effect, 297-299 nudging clips, 163 O OMF file export, 455-456 opacity, 383, 386, 387, 388-389, 392 Opacity effect, 307, 387-390 open captions, 432, 436 organizing media, 80-95 bins used for, 86-95 Project panel for, 80-86 Out points. See In and Out points overcranking technique, 197 overexposed images, 369-
370 overlay options, 100, 450 overwrite edits, 129–130, 158 P Pan control, 275 panel tab, 26 panels active, 113 grouping, 20–21 monitor, 22 resizing, 24 stacked, 172 See also specific panels paragraph text, 416, 419–420 Parametric Equalizer effect, 280, 293–297 Paused Resolution setting, 149 Pen tool, 272, 405,
424-425 performance optimizing, 2-3 playback, 46 phase, audio, 260 photomontage, 179-180 Photoshop, 14, 15 creating graphics or titles in, 423 importing layered files from, 68-71, 87 playback controls for, 97-98 Mercury Playback Engine and, 45-46 methods for performing, 95-98 real-time, 43-44, 45 rendered, 45
resolution for, 98, 146–149 speed controls for, 96, 194, 196–202 Trim mode looping, 217–218 VR video, 149–152 plug-ins, 176, 297 point text, 416, 417–419 Position control, 225, 229–230 preferences introduction to setting, 26–27 synchronizing between computers, 29 Premiere Rush, 14, 17 presets audio effect, 282
built-in, 328–329 color correction, 365 file export, 449 saving, 329–331 sequence, 38–41 video effect, 313, 328–331 previews exporting files of, 451 Media Browser, 66 Project panel, 82 primary and secondary colors, 357 Program Monitor, 22, 24, 141–146 adding clips to sequences with, 141–144 Closed Captions
Display option, 434, 435, 436 Comparison View, 359-361 customizing display of, 100-101 features illustration, 141 insert editing with, 144 rulers and guides, 428-429 selecting layers in, 408 Settings menu, 434, 435 Source Monitor vs., 142 trimming in, 214-217 See also Source Monitor project files, 17, 27, 34, 133
Project panel, 22, 80–86 bins and, 70, 88 customizing, 81–82 editing video from, 117 features overview, 80–81 finding assets in, 83–86 label colors in, 91–92 viewing clips in, 67 See also bins project-based storage setup, 49, 50 projects, creating new, 35–36 proxy media, 61–63 Publish settings, 454 Q Queue button, 452
R Rate Stretch tool, 200-202 Razor tool, 161 real-time playback, 43-44, 45 recording voice-overs, 75-76, 261-262 Rectangle tool, 405, 425 regular trim, 208, 214 rendering, 45 all sequences, 337 maximum quality options for, 41, 445 parts of sequences, 181 and replacing, 338 replace edits, 202-205 Replace Footage
feature, 205 Reset button, 227, 237 Reset Effect button, 356 resolution, playback, 98, 146–149 resources, Adobe, 6–7 Reverb effect, 291 reverb reduction, 199, 200 RGB color system, 342–343 RGB parade, 359 Ripple Edit tool, 185, 187, 209–211 ripple edits, 166–167, 209–211,
214 rolling credits, 429–430 Rolling Edit tool, 183–184, 186, 211, 270 rolling edits, 211–212, 214 Rotation control, 225, 232–234 rubber bands, 271–272, 387–388 rulers and guides, 428–429 rumble reduction, 284 S safe margins display, 99–100, 415–416 saving, automated, 27 Scale controls, 234–237, 417 scratch
disks, 49-50 scrubbing, 76, 126 SDR Conform option, 450 Search bins, 91 second monitor, 114 segmentation marker, 153 Selection tool, 23, 120, 160, 208, 211 sequences, 22, 37-43 audio tracks in, 42-43 conforming clips in, 37, 122 creating new, 121 directly importing, 452 explained, 120-121 extract edits in, 159,
166 finding/removing gaps in, 158–159 insert edits in, 130–131, 144 lift edits in, 165–166 markers added to, 153–155 matching settings in, 38, 443–444 nested, 22, 121, 206–207 opening in Timeline, 122 overwrite edits in, 129–130 presets for, 38–41 rearranging clips in, 164 removing clips from, 165–167 rendering parts
of, 181 selecting clips in, 159–160, 189 setting up, 37–43 shadows. See drop shadows shapes, creating, 424–425 single-layer image files, 68 single-sided transitions, 176–177 slide edits, 213 slip edits, 212–213 slip tool, 212 slow motion effect, 196–198 snapping feature, 162 social media uploads,
454 Solo button, 255, 259-260 Sort Icons menu, 89 sound editing options. See audio Source Monitor, 22, 24, 112-118 controls overview, 114-115 customizing display of, 100-101 In and Out points, 113, 114, 115-116 loading clips into, 113 Program Monitor vs., 142 trimming in, 208 See also Program Monitor Source
Range controls, 444 spatial interpolation, 240, 326 special effects. See audio effects; video effects speed controls, 96, 194, 196–202 spill suppression, 397 split edits, 269–271 splitting clips, 161–162 standard audio tracks, 43, 259 Start Queue button, 452, 453 stereo audio, 253 still
images adding to titles, 425–426 exporting single frames as, 441–442 importing into projects, 67–72 setting duration for, 135 stock items, 73 storage systems, 49–51 storyboards, 132–135 strokes, text, 420 styles, text, 420–422 Stylize effects, 376 subclips, 117–118 subtractive color, 357 sync locks, 157–158 Sync
Settings option, 17, 29 synchronizing audio with video, 106–107 preferences between computers, 29 system requirements, 1 system-based storage setup, 50–51 T television screens, 99, 342–343, 370 templates, Motion Graphics, 52, 430–432 temporal interpolation, 240, 326 text aligning, 415 captions as, 432–436
colors for, 410 contrast needed for, 409 fonts for, 409-410 kerning, 411-412 leading for, 413-415 lower-third, 404, 415 masking with, 426-428 paragraph, 416, 417-419 rolling, 429-430 rotating, 418 safe title margins for, 415-416 styles for, 420-422 tracking, 412-413 See also titles three-point
editing, 131–132 thumbnails navigating, 96 resizing, 65 Time Interpolation option, 451 Time Remapping effect, 307 time rulers, 126–127 Time code display, 99, 115, 140, 358, 450, 451 Timecode panel, 127 Timecode system, 47 Timeline panel, 22, 119–128 colored lines at top of, 44, 181 facts
about, 119–121 features illustration, 119 finding clips in, 156 In and Out points, 124–126 locking tracks on, 156–158 opening sequences in, 120 creating tracks in, 129 track headers, 128 trimming sequences in, 208–209 Tint effects, 364 titles, 13, 404–423 appearance options for, 420 creating
for video, 416-420 Essential Graphics panel for, 404-409 Photoshop for creating, 423 safe title margins for, 415-416 See also text title-safe zone, 99, 415-416 Toggle Animation button, 227, 230, 237 Toggle Effect button, 398 Toggle Track Output button, 71,
232, 418 Tools panel, 23, 120 touchscreen editing, 96 track headers, 75, 128 track locks, 158 Track Matte Key effect, 399-400 tracking motion, 321, 323 text, 412-413 tracks, 11, 22 audio, 42-43, 259 explained, 122-123 locking, 156-158 selecting all clips on, 160-161 targeting, 123-124 Transform effect, 245
transitions, 170–191 A/B timeline and, 173, 182 audio, 187–189 customizing, 182–184 duration of, 179, 183, 186 explanation of, 174–175, 185–187 knowing when to use, 173–174 Morph Cut effect, 184–185 multiple-clip, 179–181 single-sided, 176–177 two-clip, 177–179 video, 176–181
transparency, 383, 384, 390–391 trimming, 13, 184, 207–219 keyboard shortcuts for, 219 modifier keys to refine, 217 performing dynamic, 217–218 Program Monitor options for, 214–217 ripple edits for, 209–211 rolling edits for, 211–212 slide edits for, 213 slip edits for, 212–213 Source Monitor for, 208 Timeline panel
for, 208–209 Type tool, 405, 411, 416 typography. See text U Ultra Key effect, 393–397 underexposed images, 367–369 V vector graphics, 71–72 Vector Motion effect, 232, 233 vectorscope, 356–358 Velocity graph, 325, 327–328 Vertical Center button, 415 video 8-bit, 342–343 display format options, 47 dragging
without audio, 145 interpreting footage from, 107 reviewing, 95–101 syncing audio with, 106–107 VR, 13, 53, 73, 149–152, 335–337 video editing advanced techniques of, 192–221 delete edits in, 166–167 extract edits in, 159, 166 four-point, 132, 194–196 insert edits in, 130–131, 144 lift edits in, 165–166 loading clips
for, 113 nesting sequences, 206–207 overwrite edits in, 129–130 Program Monitor for, 141–146 Project panel for, 115–116 sequences used in, 120–122 Source Monitor for, 112–118 speed/duration changes, 196–202 storage
setups for, 49-51 storyboards for, 132-135 subclip creation in, 117-118 three-point, 131-132 Timeline panel for, 119-128 tracks used in, 170-191 trimming as, 207-219 video effects, 304-339 adjustment layers for, 313-315 After Effects used for, 316-318 applying to clips, 310-313 Clip
Name effect, 333–334 color-related, 363–365, 376–377 copying/pasting, 313 Effects panel, 308–310 exporting media with, 450 finding, 309, 311, 312, 363 fixed, 224, 307–308, 313 frequently used, 332–337 immersive or VR, 335–337 keyframing, 323–328 Lens Distortion effect, 337 masking and tracking, 321–323
master clip, 318–321 presets for, 313, 328–331 real-time playback of, 43–44, 45 removing from video, 312–313 rendering all sequences with, 337 Video Limiter effect, 364–365, 450 video scopes, 351 video transitions, 176–181
vignette effect, 349 voice-overs adjusting audio for, 281–302 recording, 75–76, 261–262 See also dialogue adjustments volume adjustments, 262–268 Audio Clip Mixer, 273–275 Effect Controls panel, 263–264 Essential Sound panel, 291–292 gain adjustments, 264–265 keyboard shortcuts for, 272 keyframes for
making, 272–273 loudness settings and, 282–284, 301–302 normalizing audio, 265–268 overall clip levels, 271–272 VR video 360 video vs., 150 display mode for, 13 effects for, 335–337 importing, 73 playing back, 149–152 Premiere Pro support for, 53 transitions for, 173 W Warp Stabilizer effect, 332–333 watch
folders, 453 waveform display audio waveforms, 257–259 Lumetri Scopes panel, 353–356 Web Edition of book, 5 web link marker, 153 white balance, 370–376 Lumetri color wheels for, 371–372 secondary color adjustment of, 372–373 workflow color adjustment, 344–359 proxy files used
in, 61-63 standard digital video, 11-12 workspaces, 15, 20-26 Audio workspace, 251-253 Color workspace, 345-346, 363 customizing, 24-26 Editing workspace, 404 Learning workspace, 23 Workspaces panel, 20, 65, 172 X XML files, 455 Y YC waveform display, 354 YUV color system,
342 YUV effects, 310 YUV vectorscope, 356–358 Z Zoom control, 89, 90, 98, 103 zooming in/out, 120, 177 Glossary Throughout this book, several terms will be used that relate to video and audio technology and to nonlinear post-production in particular. You may already be familiar with some of these terms, but there
are several that may be new to you if you are learning to edit for the first time. The following terms will make more sense as you explore the lessons in this book. Still, you may find it useful to bookmark this page and return to the list from time to time. Aspect ratio: This describes the shape of an image. 1:1 is square. Most
video is 16:9. Regardless of the size of the size of the screen or the resolution of an image, the frame will have a particular aspect ratio, and so do pixels. Bin: Bins look and work very much like folders in the Finder
(macOS) or Explorer (Windows). However, they exist only inside the Premiere Pro project file you are working on. Clip: This is a link (think of an alias or shortcut) to a media file (which might be video, a graphic, audio, or any other kind of media). Clips look and behave as if they were the thing they link to, and display
information that relates to the media file, such as image size and frame rate (fps). Codec: This is short for coder/decoder. This is a way of storing digital information (like video and audio), and often allows the data to be stored in a more compact form than the original. Like shorthand writing, this takes less space but
requires more effort to write and, later, to read. Most video is recorded using a codec to reduce the file size, with the exception of camera systems that record data as raw media with no processing. Compression: This usually takes two different forms: 1) a reduction in the size of video and audio files by storing the
information using a codec (coder/decoder); 2) a reduction in the difference between the loudest and quietest parts of sound. This allows the overall sound level to seem louder. Cut: In a sequence, a cut is the moment one clip ends and another begins. The term comes from celluloid film editing, where the film is literally
cut. A cut is technically a form of transition and is the most common kind. Effect: This is a process that modifies the appearance of images or the quality of sound. Effects are used to change the shape of an image, to make visuals brighter or darker, to animate the position of images on the screen, to make audio louder or
quieter, or to apply any number of other adjustments. Export: After your clips are combined in a sequence to share the creative work with the world in the form of a new media file. When you export, you choose the format, codec, and settings for the file that will be
created. Footage: Originally a film term used to indicate recording duration because film is measured in feet. This now refers to any original video material and is usually described in hours and minutes. Format: Sometimes this refers to a media file type (.avi, .mov, etc.), but more accurately it refers to the specific frame
size (image size), frame shape, pixel shape, and frame rate (measured in frames per second). Frame: This means one whole still image, Video is made up of a series of frames that play fast enough to appear to be a continuous moving image. The number of frames playing per second is called the frame rate, measured
in frames per second (fps). Keyframe: A keyframe marks the point in time where you specify a value, such as spatial position, opacity, or audio volume. To create a change in a property over time, you set at least two keyframes—one keyframe for the value at the beginning of the change, and another keyframe for the
value at the end of the change. Premiere Pro then creates a gradual change in values between keyframes, called interpolation. Import it. No data is really moved into the project file. Instead, links (called clips) are created that contain information about the
media, and it's those links that you combine when editing. Media: This is your original content. This could be video files, graphics, photos, animation, music, voiceover, or audio special effects (like a sword clash or explosion). Metadata: Metadata is information about information. There are many forms of metadata, but
they always include information about something. For example, metadata associated with a video file might include the camera operator. Pixel: This is a single dot, or point of light. Pixels have color settings (sometimes called values) that are often (but not always)
measured as a combination of red, green, and blue color. Project: This is the container for all of your clips and sequences. A project is stored as a file that contains your creative work. Sequence: This is a series of clips, combined in a particular order, often in multiple layers. Most of the creative work you will perform in
Premiere Pro will be on clips in sequences. Timecode: This is a system for measuring time in recorded media. Its units are hours, minutes, seconds, and frames per second wil vary depending on the media). Professional video recording systems always record timecode information. NTSC
broadcast television uses a system that drops frames from the timecode to compensate for the slightly slower playback during broadcast. This is called drop frame timecode, and is displayed in Premiere Pro with semicolons as dividers. If you are delivering content for broadcast television, you will use an NTSC framerate
such as 29.97 fps, in preference to a non-drop frame timecode framerate, such as 30 fps, Drop frame timecode; 00:15:07:19 Non-drop frame timecode; 00:15:07:19 Non-drop frame timecode; 00:15:07:19 Timeline; Premiere Pro has a Timeline panel, in which you will view and edit sequences. Editors often use the words timeline and sequence
interchangeably. For example, 'On the timeline' and 'in the sequence' have the same meaning. 'A timeline' also means 'a sequence'. Transition between two clips is most commonly called a cut. However, there are many transition effects available to add visual
interest or enhance storytelling. A dip to black, for example, usually tells the viewer some time has passed. Transitions are part of a film language that audiences have a nuanced understanding of, 17 Managing Your Projects Lesson overview In this lesson, you'll learn how to do the following: Work in the Project Manager.
Import projects. Manage collaboration. Manage your hard drives. This lesson will take about 60 minutes to complete. To get the lesson files and Web
Edition" in the Getting Started section at the beginning of this book. Stay on top of your media and projects with a few simple steps. STARTING THE LESSON When you start out creating projects with Premiere Pro, you may not feel the need to invest time in staying organized. Perhaps you're working on your first project
now, and if that's the case, it's going to be nice and easy to find it on your storage drive. Once you start working on multiple projects, staying organized gets a little more complicated. You might use multiple media assets taken from multiple storage locations. You'll have multiple sequences, each with its own particular
structure, and you'll be generating multiple graphics. You may also have multiple effect presets and Motion Graphics templates. All in all, you'll need guite a filing system to keep all these project elements organized. The solution is to create an organizational system for your projects and to have a plan in place for
archiving those projects that you might want to work on again. The thing about systems for organization is that they're usually easier to use if they exist before you need them. Look at this idea from the other direction: If you don't have an organizational system in the moment you need it—when you have a new video clip
to put somewhere, for example—you might be too busy being creative to think about things such as names and file locations. Consequently, it's common for projects to end up with similar names, stored in similar locations, with a mix of files that don't go together. The solution is simple: Make your organizational system in
advance. Map it out with pen and paper if it helps and work out the journey you'll take, starting with acquiring your source media files, moving through your features in Premiere Pro that help you stay in control, without losing focus on
you access to the project settings and to the Project Manager. You can use the Project Manager in several ways to prepare a project for archiving or for collaborative editing workflows. Using the File menu commands There are some important File menu options for project and media management. Link Media: If you have
clips that have become unlinked, use this option to open the Link Media dialog and relink the media (see the next section). Tip The commands Link Media and Make Offline: You can deliberately break the connection between clips in
the Project panel and their media files (see the next section). Project Settings: These are the settings you chose when you created your project; see Lesson 2, "Setting Up a Project." You can change any of the project settings at any time. You should save and close the current project before moving its .prproj file to a
new location. Alternatively, choose File > Save As and create a separate project file. Project Manager: This automates the process of backing up your project and associated media files (described later in this lesson). Export: You'll use this menu to export to files, markers, and captions.
Making a clip offline The benefit of making clips offline is that they can be reconnected with new media. If you've been working with low-resolution media, this means you can reimport alternative media files at a higher quality. The words offline and online have different meanings in different post-production workflows,
depending on the context. In the language of Premiere Pro, they refer to the relationship between master clips in the Project panel and the media file. Offline: The clip is not linked to a media file. When a clip is offline, you can still edit it into a sequence, and even apply
effects to it, but you won't be able to see any video. Instead, you'll see a colorful, multilingual "Media offline" warning. In almost all operations, Premiere Pro is nondestructive. This means that no matter what you do with the clips in your project, nothing will happen to the original media files. Making a clip offline presents a
rare exception to this important rule. If you right-click one or more selected clips in the Project panel and choose Make Offline, you'll have two options: Media Files Remain On Disk: This unlinks the clip from the media file and leaves the media file untouched. The clip goes offline. Media Files Are Deleted: This deletes the
media file. The clip goes offline and it cannot be relinked because there is now no media file to link to. Tip You can also select clips in the Project panel and choose File > Make Offline. Working with low-resolution media is sometimes desirable if you have limited disk storage or a large number of clips. When your editing
work is complete and you're ready for fine finishing, you can replace your low-resolution, small-file-size media. The proxy editing workflow handles this process well (see Lesson 3, "Importing Media"), but there will be occasions when you want to set one or more
particular clips to be offline to link to new media files. Be careful with the Make Offline option, though! If you choose the option to delete your media, it's gone! As in... really gone! USING THE PROJECT MANAGER Let's take a look at the Project Manager (choose File > Project Manager). The Project Manager provides
several options that automate the process of consolidating your project. This means gathering together (collecting) any media files you've used in one or more seguences. Managing your project in this way is useful if you intend to archive your project or if you want to share your work. By using the Project Manager to
gather all your media files, you can be confident nothing will be missing—or offline—when you hand the project over to colleagues or move it into storage for archiving. The result of using the Project Manager is a new, separate project file. Because the new project file is independent of your current project, you should
double-check it before deleting your original media or project file. It's ideal to check the new project on a different editing system, just to be certain you have all the files you need. Make sure all the clips you expect are in the Project panel and all media is online. Start in the Sequence section, and select the sequences you
want to include in the new project. Next, choose one of the options in the Resulting Project section: Collect Files And Copy To New Location you choose, as described in "Collecting files and copying them to a new location."
Consolidate And Transcode: Create new versions of the media files based on just the parts of clips included in those sequences (the trimmed clips). When this option is selected, several menus become available. These menus, which will be described in "Consolidating and transcoding," allow you to choose from a range
of formats and codecs. Note Not all media formats can be trimmed. If you create a trimmed project that has media of this kind, the Project Manager creates copies of the full original clips. Depending on your selection, further options will become available or unavailable: Exclude Unused Clips: With this option selected,
the new project will include only clips that are used in the sequences you selected. Include Handles: If you're creating a trimmed project using the Consolidate And Transcode option, this includes additional frames. The extra frames give you the flexibility to trim and adjust the timing of your edits later. Include Audio
Conform Files: This includes the audio conform files that are already with your project, so Premiere Pro won't need to conduct analysis of your audio again. Premiere Pro will re-create these files automatically as required, but choosing this option can save time waiting for the processing to complete, and the files are often
required to play clip audio. Convert Image Sequences To Clips: If you have imported one or more image sequences as clips, this option because it saves space and simplifies file management. It might also improve playback performance. Include Preview
Files: If you've already rendered your effects, you can include the preview files with your new project so you won't need to render them again. These files aren't necessary but can save a considerable amount of time waiting for complex effects to render. Rename Media Files To Match Clip Names: As the name implies,
this option renames the new copies of your media files to match the names of the clips in your project (useful if you want to use this option, because it can make identifying the original source media difficult. Convert After Effects Compositions To
Clips: Choose this option to replace dynamically linked After Effects compositions with rendered video files. This option can be helpful because the Project Manager is unable to collect dynamically linked After Effects compositions or the media files associated with them. This is a good reason to stay extra organized when
working with After Effects and Premiere Pro together. See "Collecting files and copying them to a new location" for more information on collecting files. Preserve Alpha: If you are transcoding your footage, you can choose to include alpha channel information so transparent areas will stay transparent. This will lead to
larger media files but means retaining valuable picture information. Then, in the Destination Path section of the dialog box, choose a location for your new project and media files. Finally, click Calculate in the Disk Space section to see an estimate of the total storage space needed for your new project. If the calculated
Resulting Project Size (Est.) value is smaller than the described Disk Space Available value, you can click OK to consolidate your project in a new location. Managing media with Dynamic Link Dynamic Link allows Premiere Pro to use After Effects compositions as imported media while they are still editable in After
Effects, For Dynamic Link to work, Premiere Pro must have access to the After Effects project file that composition, and After Effects must have access to the media files used in the composition. While working on a single computer with both applications installed and your media assets located on internal
storage, this is achieved automatically. If you use the Project Manager to collect files for a new Premiere Pro project, it will not bring copies of dynamically Linked files. The clips will be in the project, but they will be offline. Duplicated audio files created when sending sequences to Adobe Audition are also not included.
Make copies of the files in Finder (macOS) or Windows Explorer (Windows). This is easy to do: Just copy the folder and include it with the assets already collected. In After Effects, choose File > Dependencies > Collect Files to automate this process. Collecting files and copying them to a new location Perhaps your
media files are in several locations in your storage system. Or perhaps you're sharing your work with another editor. Perhaps you're taking an edit on the road. You may not need every clip incorporated into your newly created project. Selecting Collect Files And Copy To New Location creates perfect copies of your
original, complete media files in a new single location. If you select the Exclude Unused Clips option, only clips used in the selected sequences with this example project, but let's take a look at the options you'd select to collect all the files used in
your selected sequences to a new, single location. 1. If it's not open already, choose File > Project Manager. 2. Select Collect Files And Copy To New Location. 4. Select Exclude Unused Clips. If you want to include every clip in your project, regardless
of whether they are used in a sequence, deselect this option. Deselect this option. Deselect this option if you are creating a new project to organize your media files a little better—perhaps because you imported them from lots of different locations. When the new project is created, every media file linked to the project will be copied to the new
project location. 5. Decide if you want to include Audio Conform Files to save Premiere Pro from having to analyze the audio files again for the new project. 6. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 7. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 7. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 8. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to include existing preview files to save you from having to re-render effects in the new project. 9. Decide whether you want to re-render effects in the new you want to re-render effects in the new you want to re-render ef
your media files to match their clip names. Generally, it's better to leave your media files with their original names. However, if you're producing a project to share with another editor, it might be helpful for them to identify the media files if they are renamed. If you know you will not need to reference your original source
media, renaming your clips is a great idea. 8. Click Browse, and choose a location for your new project file and associated media. 9. Click Calculate to have Premiere Pro will create copies of the original files in a single
location. If you intend to create an archive of your entire original project, this is the way to do it. Consolidating and transcode (convert) all the media in your project to a new format and codec in a single step if you select Consolidate And Transcode in the Project Manager. This is useful if you
plan to use a so-called mezzanine codec (sometimes called a house codec). This means all media is converted to one codec (and usually easier for editing systems to play back than the original in-camera codecs, as well as being
high quality, maintaining the quality maintaining the quality of the original media. These codecs don't add quality but do help maintain it. To create copies of all your media, deselect Exclude Unused Clips. Otherwise, the options are similar to those you'd choose when creating a trimmed project. Creating a trimmed project To create a new
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future. 6. For now, click Cancel. Let's try another method. IMPORTING FROM PROJECTS WITH THE MEDIA BROWSER You can import whole projects or individual clips and sequences using the Media Browser. You can browse to a project file and open its affect from just select sequences. You play sequences. When you want to import to me contents of project file and one to the contents of sequences. When you want to import to me to develop the contents of sequences. When you want to import to me to develop the contents of sequences. Project in the contents of sequences. When you want to import to me to me to the contents of sequences. When you want to import to me to me to develop the contents of the project. But the contents of the project. It is not a current project sequence and that the contents of the project. It is not a current project sequence and that the contents of the project file you are browsering in a mental project. It is not a current project sequence and that the contents of the project file you are browsering and the project file you are browsering to make the changes to it. In the Timeline panel net to you carrent sequences and the project file you are browsering and the project file you are browners and the project file you are browsering and the project file and the project file you will you prove the project and the project file you will you prove the project and the project file you will you prove the project and the project file you will you for the project file you will you will you are project file you will you y	contents of project flies this way allows you to browse the entire contents of the project, not just select sequences. You can browse inside bins, select clips to import, and even view the contents of sequences. When you want to import an intent though you're browsing a "live" current project file, to right-click it and double-click Lesson 17 Desert Sequence proprig to browse inside the project. 2. Double-click the Desert Montage sequence. The sequence opens in the Source Monitor, just as you would expect a clip to. The sequence and includes (Source Monitor), and the vertical line of the playbead turns red to remind you than this is not a current project sequence. And the this contents of the project file you are browsing in you can easily import a whole sequence from the Media Browser by right-clicking it and choosing Import. However, you can also drag a clip or multiple clips from the Source Monitor Timeline panel into your Project panel. If you position the read-only Timeline panel panel not not can even drag clips from the read-only Sequence to your current project sequence. You can even drag clips from the read-only Sequence to your current project sequence. You can even drag clips from the read-only Sequence to your current project sequence. You can even drag clips from the read-only Sequence to your current project sequence. You can even drag clips directly from the read-only Sequence to your current project sequence. You can even drag clips directly from the read-only Sequence to your current project sequence and the sequence and the project sequence and the sequen
Browser by right-clicking it and choosing Import. However, you can also drag a clip or multiple clips from the read-only Temiline panel into your Project panel. If you position the read-only Temiline panel into the current Projects a quence, a clips from the read-only Temiline panel into the current Project panel. Opening multiple projects at the them thousing safely inside a project via the Media Browser where projects are locked, when you fully open multiple projects the project safe than the project files. Accepting than, cheeping multiple projects is fast and files which is a compared to the project safe and the five position of the various sequences you open. Copying or moving sequences and clips between open projects is fast and files which, so, so you open. Copying or moving sequences and clips between open projects is fast and files which, so, so you open. Copying or moving sequences and clips between open projects is fast and files which, so you open. Copying or moving sequences and clips between open projects is fast and files which, so you open. Copying or moving sequences and clips between open projects is fast and files which is not between different brins; in the Project panel. MANAGING COLLABORATION The opion to import other projects to gene multiple projects, presents novel workflows and opportunities for collaboration. To provided that each editor has a copy of the same media files. You can use local-folder files-haring services to update a shared project file at our project files are small—one project files are small or project files are small—one project files are small—one project files are small—one project files are small—one projec	Errowser by right-clicking it and choosing Import. However, you can also drag a clip or multiple clips from this Source Monitor Timeline panel. If you position the read-only Timeline panel next to your coursent sequence. You can even drag clips form the read-only Timeline panel into the current project sequence. Voil can even drag clips from the read-only Timeline panel into the current project sequence. Voil can even drag clips from the read-only Timeline panel into the current project panel. Opening multiple projects and copy clips and sequences between them. Unlike browsing safely inside a project via the Media Browser where projects are saved in the project sare saved in the project saved
various sequences you open. Copying or moving sequences and clips between open projects is the same as working between different birs in the Project panel. MANAGING CÓLLABORATION The option to import other projects, presents novel workflows and opportunities for collaboration. You could, for example, share work on different editors, all using the same media assets. Then, one editor could import all the other projects fles, provided that each editor has a copy of the same media flies. You can use local-folder file-sharing services to update a shared project flies the initial to account of the other project flies, provided that each editor has a copy of the same media flies. You can use local-folder file-sharing services to update a shared project flies provided that each editor has a copy of the same media flies. You can use local-folder file-sharing services to update a shared project flies, provided that each editor has a copy of the same media flies. You can use local-folder file-sharing services to update a shared project flies or manages for your collaborators. The beginning a sequence, consider adding a marker to record changes for your collaborators. The beginning a project flie is one an access the same project file beyon the scope of this book, check out Adobe Creative Cloud for Teams for more advanced collaborative project-sharing workflows. By default, Freneire Pro does not lock project flies when they are in use. This could be creatively floating a project flie or project flies, projec	various sequences you open. Copying or moving sequences and clips between open projects is the same as working between different bins in the Project panel. MANAGING COLLABORATION The option to import other projects, and to open multiple projects, presents novel workflows and opportunities for collaboration. You could, for example, share work on different parts of a program between different editors, all using the same media alsessets. Then, one editor could import all the other projects to combine them into a completed sequence. Project files are small—often as a copy of the same media files. You can use local-folder file-sharing services to update a sahared project file that links to duplicated copies of local media files. The Creative Cloud Files folder is a good example. You can use local-folder file-sharing services to update a shared project file is to project file as a good example. You can use local-folder file-sharing services to update a shared project file is to provided that each editor has a good example, you can use local-folder file-sharing services to update a same as shared project file so fload files. The Creative Cloud files folder is a good example media files. You can use local-folder file-sharing services to update a same a shared project file is provided that each editor has a good example. You can use local-folder file-sharing services to update a same as a shared project file is provided that each editor had a good example. The same time is a good example file as good examples followed. The same time is a good example file as good example file as good examples file as good examples followed. The same time is a good example file as good examples file as good examples followed. The same time is a good example file as good examples file as good examples file as good examples. The file and the same time is a good example file as good examples file as good examples. The file and the definition of the same media files storage followed files file and the same time. This could be creative Cloud
opened the same original file. As one person saves the project file, it updates, with their virtual copy overwriting the original. As the next person saves the file, it updates again, replaced with a different virtual copy. Every time the file is saved, a different virtual copy replaces changes made by the other editor. If you intend to collaborate, it's usually best to work on separate project files or manage access to one project file carefully. There are several dedicated media server systems made by third parties that help you to collaborate using shared media files. These allow you to store and manage your media in a way that is accessible by multiple editors at the same time. Keep these questions in mind: Who has the latest version of the edited sequence? Where are the media files stored? As long as you have clear answers to these questions, you should be able to collaborate using shared media files. These as mall green icon of an open padlock. Clicking the padlock closed locks the project. By default, project locking in the accessible by references > Collaboration (Windows). All editors that are collaboration for project locking to work. If you ever need to ignore the locked status of a project, you can deselect Project Locking in the preferences. Saving a selection as a project Fremiere Pro allows you to export a selection of clips and sequences as a new Premiere Pro project. This streamlined project file makes collaboration easier because it allows you to focus on precisely the content that matters. To export a selection as a Promiere Pro project, select items in the Project file and clock Save. This workflow is a little different than using the Project Manager to create a new project file will hin to your existing media files. USING THE LIBRARIES PAPIEL the Libraries panel gives you file store the new project files folders with other users too, so the Creative Cloud Files folders on other users too, so the Creative Cloud Files folders with other users too, so the Creative Cloud Files folders with othe	opened the same original file. As one person saves the project file, it updates, with their virtual copy overwriting the original. As the next person saves the file, it updates again, replaced with a different virtual copy. Every time the file is saved, a different virtual copy replaces changes made by the other editor. If you intend to collaborate, it's usually best to work on separate project files or manage access to one project file carefully. There are several dedicated media server systems made by third parties that help you to collaborate using shared media files. These allow you to store and manage your media in a way that is accessible by multiple editors at the same time. Keep these questions in mind: Who has the latest version of the edited sequence? Where are the media files stored? As long as you have clear answers to these questions, you should be able to collaborate and share creative work using Premiere Pro. Project locking At the bottom left of the Project panel, you'll see a small green icon of an open padlock. Clicking the padlock closed locks the project. By default, project locking is not active, so closing the lock will have no effect. You can enable support for project locking (premiere Pro > Preferences > Collaboration (Windows). All editors that are collaboration for project locking to work. If you ever need to ignore the locked status of a project, you can deselect status of a project project. This streamlined project file makes collaboration easier because it allows you to focus on precisely the content that matters. To export a selection as a Premiere Pro project, and choose File > Export > Selection As Project Decause the new project file will link to your existing media files. USING THE LIBRARIES PANEL The Libraries panel gives you direct access to stock assets, graphics, Motion Graphics Templates, and LUTS created elsewhere and shared via Creative Cloud, inside Premiere Pro. You can also place media files in your Creative Cloud Files folders on other computers if you are logged in
systems. It's straightforward to share folders with other users too, so the Creative Cloud Files folder is a useful way to share project files. Premiere Pro works well with other file sharing services too. Only the file path (location) and filename matter to Premiere Pro, so provided your file-sharing service stores files locally or at a regular network location, you should find Premiere Pro works as usual. Network-based storage is sometimes too slow for media file playback, however, so check the sustained speed of your network before counting on it for video editing. MANAGING YOUR STORAGE Once you've used the Project Manager to create a new copy of your project or you have completed your project and finished with its media, you'll quickly need to think about which files you want to keep and which ones you want to discard. You might also want to move your project media to slower, larger, more robust long-term archive storage to keep as much fast media storage available as possible for current projects. To make it easier to remove unwanted media when you've finished a project, consider putting copies of all of your media into a single location before importing. This is	\cdot
be conveniently located in one place. Deleting clips from a project, or even deleting the project file, will not delete media files. You'll have to account for proxy files will be stored in a different location to your full-resolution original media, depending on your Ingest settings.	at a regular network location, you should find Premiere Pro works as usual. Network-based storage is sometimes too slow for media file playback, however, so check the sustained speed of your network before counting on it for video editing. MANAGING YOUR STORAGE Once you've used the Project Manager to create a new copy of your project or you have completed your project and finished with its media, you'll want to clean up your drives. Video files are big. Even with large storage drives, you'll quickly need to think about which files you want to keep and which ones you want to discard. You might also want to move your project media to slower, larger, more robust long-term archive storage to keep as much fast media storage available as possible for current projects. To make it easier to remove unwanted media, unless you enable the Ingest Copy option, Premiere Pro creates a link to the file wherever it is on your computer. By organizing media files before you import them, you'll find it much easier to remove unwanted content at the end of the creative process because everything will

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