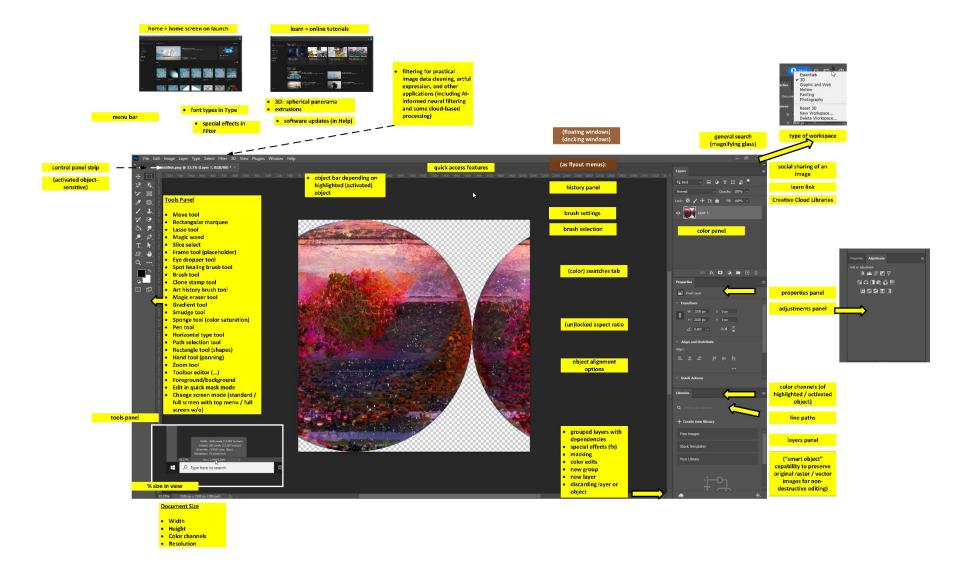
Introduction to Adobe Photoshop 2023



Adobe Photoshop 2023 Graphical User Interface (GUI)

How to Get the Most out of the Training

Approaching the training. An ideal way to use the training is to think about how you use Photoshop (or think about what you use it for in the workplace)... then pay attention to the capabilities of the software tool. Do not try to memorize the sequences. Rather, try to remember the general name of the capability or the function. Remember that there are 3-4 at least different ways to achieve a particular objective in Adobe Photoshop. As you use the tool more, you will form your own memorization of the most common sequences, unique sequences, and relevant keyboard shortcuts.

Interactions encouraged. Please ask questions or make comments as they arise...and are constructive for the group. These sessions are interactive ones.

Post-training. Then, after the training, try to get as much practice as possible using the software. It helps to have actual projects to work on as motivation. Use the context-sensitive help with the search query (top right of the Adobe Photoshop workspace) to find where tools are. And if you have tougher challenges, go to the Google with questions. Troubleshooting yourself makes you better at your work. If you have free time, watch some of the excellent videos on YouTube featuring particular "tricks" with the software. Check out the trainings on Microsoft's LinkedIn Learning's Linda.com, which has some excellent courses covering the tools in the Adobe Creative Cloud suite. [Manhattan Public Library enables access to these online trainings with a library card!]

Hour 1: Fidelity to an Original Image

- Selecting a work space (to define toolbar and properties panels): Essentials (the simplest, often to start); <u>3D</u> (soon to be deprecated because of incompatibility with current operating systems / OSes...and no plans to update, but many users are shifting to Adobe's Substance); Graphic and Web; Motion; Painting; Photography; and customized "New Workspace"
- Engaging digital images:
 - Opening a digital image (and some types of digital image formats)
 - Cropping an image
 - Changing image resolution (to avoid pixelation and avoid aliasing and to enable scaling), through upsampling (creation of pixels by machine) and pixel interpolation (but ideally would have the best original image to work from for meaningful details)
 - Resizing an image without affecting aspect ratio (or stretching the image); delinking height and width to enable changing aspect ratio
 - Setting color outputs (RGB or CMYK?... RGB color modes have more filter effects available to it than for CMYK, and then the proper color model outputs can be adjusted later) (where color / tint = hue, chroma/saturation, brightness/value)
 - Changing a color image to b/w ... or to grayscale (with midtones, for visual details, for visual textures)
 - Changing the brightness and contrast of an image
 - Erasing the background of an image (and creating an alpha channel)
 - Differentiating between high opacity and various levels of transparency (and what these enable)
 - Saving a still digital image for web applications
 - o Saving a still digital image for print applications
 - Changing the curves of an image for ink on paper production

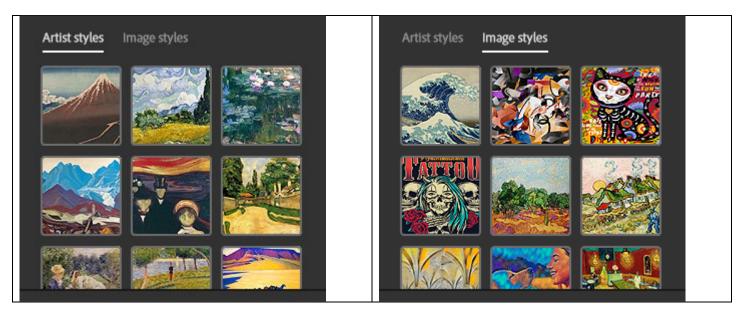
• Versioning digital image output files for different applications (web publishing, brochures, print book publishing, and others)

Hour 2: More fx (special effects) and Purposeful and Designed Artificiality

"Take a fantastic voyage with Photoshop" (Aug. 27, 2020) at https://youtu.be/uvmQfn5PsAI

Explore the artificial intelligence (AI) aspects of the new Adobe Photoshop...and its various **content-aware image-editing** features! Content awareness seems to apply to objects, proxemic content, texturing, lighting, and some other features.

- Changing the saturation of a color image
- Using the eyedropper tool (picks up and drops colors)
- Capturing a color palette automatically from an image (using the color palette + set and a selected image in the art board or workspace)
- Applying various filters to an image (for rich "fx" or special effects) [requires OpenCL, 64-bit processing for some of the filters]; enhancing visuals (like sharpening by increasing contrast on edges within particular radiuses and at certain threshold of contrast)
- Applying some (artificial) light effects to an image (Layer -> Layer Style -> Global Light)
- Using the "beta" smart neural filters, such as Super Zoom, removal of JPEG artifacts (visual glitches), the transfer of art styles (based on over 50 preset styles); mixing of landscapes, depth blur, color transfer, facial "deformations" of emotions; colorizing of b/w images, and others
- Some of these neural filters are processed on the local machine; others are processed in the cloud.
 - Style Transfer: The "art styles" are based on the "texture, color, and style" of known artists (with features extracted using ANNs) and select image styles. These are "additive" edits in most cases instead of "reductive." [Reductive processes reduce aspects of the original seeding visual by removing lines, combining or blending colors, and other processes.]



 Harmonize: The harmonization neural filter helps adjust a select layer with a background layer in a project so that their lighting and saturation and other colors better match. (This enables stronger usage of layers by helping them match.) Colorize: The three images show an actual photo at the far left, the b/w version, and then the colorized version. The recolorization feature does not try to remake the original colors but offers a somewhat dramatic other plausible version.



Neural Filters	
All filters Wait list	
Portrait Generator	
Water Long Exposure	
Shadow Regenerator	
Latent Visions	
Noise Reduction	

What's "on deck" for more neural filters? Portrait Generator, Water Long Exposure, Shadow Regenerator, Latent Visions, Noise Reduction, and others

- Drawing for born-digital images in Photoshop
 - View -> Flip Horizontal to check for fidelity and proportions
- Setting up image layers
 - How image layers work (generally)
 - Non-destructive edits (through masking, through smart objects)
 - Blending masks to mix layers (with black painting for concealment, white painting for revelation, gray painting for partial revelation/partial concealment; gradient masks for gradient effects)
 - Edge fuzzing for easier blends
 - o Application of adjustment layers
 - o Tinting
 - Changing the stacking order for particular visual effects (bottom layer at the back, top layers at the front)

If time allows, and if there is interest, we can go off in other directions:

- Adding text without aliasing (anti-aliasing set up)
- Using third-party scripts (macros) from GitHub and other spaces
- Going into 3D (x, y, and z axes) with the 3D workspace (deprecated in August 2021)

Generally, Adobe Photoshop is used to...

- Edit digital images (photos, screenshots, digital drawings, diagrams, screen grabs / stills, scanned files, and others)
- Create raster images in 2D (x and y axes)
- Create raster images in 3D (x, y, and z axes) (deprecated in August 2021)
- Create raster images in 4D (with motion, changes over time), and others

The visuals can be used in both static and dynamic applications, still images and dynamic ones.

Some General Uses of Adobe Photoshop at K-State: Adobe Photoshop is used for various purposes: editing figures and images for master's reports and theses and doctoral dissertations, professional publishing, various analytics, slideshows, and other uses. It is used to create marketing materials. It has been used to batch-process image sets as well. [File -> Automate -> Batch... and select Actions from the Actions panel.]

Vector vs. Raster: Photoshop enables the drawing of shapes as Bezier paths and combinations of curves; these export as vector graphics (which are resolution independent and therefore can scale since the computer is drawing the image from mathematical equations, not pixels). [When editing shapes, go to the options bar at the top of the workspace (with activated objects in the workspace) or the properties panels at the right]. Also: Photoshop can ingest vector images but has to first convert them into raster format to edit. Many projects involve moving between Adobe Photoshop (raster image editor) and Adobe Illustrator (a drawing software in the Adobe Creative Cloud family that enables creation and output in vector, which enables mass scalability).

	Common File Types (by file extensions)
Raster	.jpeg, .jpg, .png, .gif, .mpeg4
Vector	.svg, .eps, .pdf, and .ai (Adobe Illustrator file)
Other	.webp (less "lossy," lightweight image in Chrome, Firefox, Edge, and others; free converters available)

Conversion from raster to vector in Photoshop takes a fair number of steps. (<u>https://we.graphics/blog/how-to-convert-a-raster-image-into-vector-in-photoshop/</u>)

There is a simple solution for one-color images (<u>https://digitalsynopsis.com/design/how-to-convert-raster-to-vector-in-photoshop/</u>).

You can open an .ai vector file in Photoshop directly. PDFs also open directly. Ditto .svgs.

Import PDF	×
Select: • Pages Images 3D	Page Options Name: ThreeDotsPattern3Colors.ai
	Crop To: Bounding Box ~
	Image Size: 136.9M Width: 5696 Pixels ~
	Height: 8400 Pixels ~ Constrain Proportions
	Resolution: 700 Pixels/Inch ~
	Mode: RGB Color ~ Bit Depth: 8 bit ~
	Suppress Warnings
1 of 1 page(s) selected Thumbnail Size: Small ~	✓ Open In Reverse Order OK Cancel

Rasterize SVG F	ormat		×	
Image Size	e: 28.0M		ОК	
Width:	3613	Pixels ~	G Cancel	
Height:	2704	Pixels ~	8 Cancer	
Resolution:	300	Pixels/Inch		
Mode:	RGB Color			
🔽 Anti-aliase	d			
🗹 Constrain F	Proportions			

Dynamic Enablements: The format of a digital image affects how flexible it can be for dynamic applications of color palettes and dark mode effects and other fast applications.

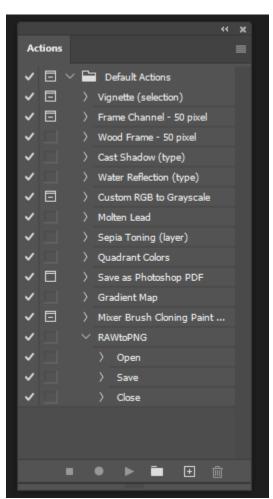
Work Pipelines: Adobe Photoshop is often part of a work "pipeline," with various imports and exports...across a range of file types and online destinations. Artworks like diagrams and photos may be created outside Photoshop first and then edited there. Analog contents may be digitally scanned and then edited in Adobe Photoshop. [For mass media

organizations, virtually all print images have had color "jumped" to translate in-world color to print to digital. (Fidelity rules mean that digital photos cannot be edited further in journalism. Similar rules apply to digital images captured as part of research because these images are data. There are differing rules for proper digital image handling in various disciplines and domains, so professionals and students should review the professional ethics in their respective fields.)]

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Browse in Bridge	Alt+Ctrl+O	
open on the	lt+Shift+Ctrl+O	
Open as Smart Object		
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Close Others	Alt+Ctrl+P	
Close and Go to Bridge	. Shift+Ctrl+W	
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Automate Scripts Import	Alt+Shift+Ctrl+I	PDP ² Presentation
Automate Scripts Import File Info Version History Print	Ctrl+P	PDP Presentation Create Droplet Crop and Straighten Photo
Automate Scripts Import File Info Version History Print Print One Copy	Ctrl+P Alt+Shift+Ctrl+P	PDP Presentation Create Droplet Crop and Straighten Photo Substance Suite Contact Sheet II
Automate Scripts Import File Info Version History Print	Ctrl+P	PDP Presentation Create Droplet Crop and Straighten Photo Substance Suite Contact Sheet II
Automate Scripts Import File Info Version History Print Print One Copy	Ctrl+P Alt+Shift+Ctrl+P	PDP Presentation Create Droplet Crop and Straighten Photo Substance Suite Contact Sheet II Conditional Mode Change.
Automate Scripts Import File Info Version History Print Print One Copy	Ctrl+P Alt+Shift+Ctrl+P	PDP Presentation Create Droplet Crop and Straighten Photo Substance Suite Contact Sheet II Conditional Mode Change. Fit Image

Batch Processing: It is possible to run a macro/script over a set of images using batch processing. The path is File -> Automate -> Batch. A common use case is to process all images in a folder. Ensure that the settings are appropriate in the pop-up window that opens in the path. (See left.)

It is possible to make Actions in the Actions Window...to apply. These actions have to be as completely defined as possible. There are pre-built ones as well. To get to the Actions window, in the menu, go to Windows -> Actions.



Not all capabilities may be included in a batch sequence. For example, where "save as" works to save out a file type, exporting a file does not seem to take. One can preview the process and watch as it occurs or let it process on its own. One can also pause and stop the process with the escape key. And one can have an error log kept. See below.

Error - Notepad
File Edit Format View Help
Start Batch
File: "C:\Users\shalin\Desktop\KawRiverStateParkJuly312022\DSC_2775.xmp" Error: Could not complete your request because Photoshop cannot recognize the file extension. (-25600)
End Batch

A Pristine Master Set of Images (as a Safety Net): If you will be processing images in a batch fashion or manually editing images, do save a pristine master set of images *first*. These are the most high-resolution and high quality images fresh from the digital camera, the scanner, or other device. These are the "least lossy" versions of the images. (Remember each iteration of digital image editing furthers lossiness and may introduce digital artifacts like "noise".) The image files in the pristine master set are untouchable...and are kept in original format. *Copies* of these images may be edited for analysis, presentation, and other purposes. This gives you a safety net to explore and edit. (And you always have CTRL+Z to undo.)

Import (still images and video)	Export
Open	Save as
Photoshop EPS (*.eps)	PNG (.png)
Photoshop DCS 1.0 (*.eps)	Photoshop (.psd, .pdd, psdt)
Photoshop DCS 2.0 (*.eps)	Large Document Format (.psb)
EPS TIFF Preview (*.eps)	BMP (.bmp, .rle, .dib)
Generic EPS (.eps, .a13, .a14, .a14, .a16, .a17, .a18,	Dicom (.dcm, .dc3, .dic)
PS, AI, EPS)	Photoshop EPS (.eps)
GIF (*.gif)	Photoshop DCS 1.0 (.eps)
IFF format (*.iff, *.tdi)	Photoshop DCS 2.0 (.eps)
IGES (.igs, .jges)	GIF (.gif)
JPEG (*.jpg, *.jpeg, *.jpe)	IFF format (.iff, .tdi)
JPEG 2000 (.jpf, .jpx, .jp2, .j2c, .j2k, .jpc)	JPEG (.jpg, .jpeg,, .jpe)
JPEG Stereo (.jps)	JPEG 2000 (.jpf, .jpx, .jp2, .j2c, .j2k, .jpc)
Multi-Picture Format (.mpo)	JPEG Stereo (.jps)
OpenEXR (.exr)	Multi-picture format (.mpo)
PCX (.pcx)	PCX (.pcx)
Photoshop PDF (.pdf, .pdp)	Photoshop PDF (.pdf, .pdp)
Photoshop Raw (.raw)	Photoshop Raw (.raw)
PICT file (.pct, .pict)	Pixar (.pxr)
Pixar (.pxr)	PNG (.png)
PNG (.png)	Portable Bit Map (.pbm, .pgm, .ppm, .pnm, .pfm, .pam)
Portable Bit Map (.pbm, .pgm, .ppm, .pnm, .pfm,	Scitex CT (.sct)
.pam)	Targa (.tga, .vda, .icb, .vst)
PRC (.prc)	TIFF (.tif, .tiff)
Radiance (.hdr, .rgbe, .xyze)	
Scitex CT (.sct)	Export as
SVG (.svg, .svgz)	PNG

Tara (.tga, .vda, .icb, .vst) TIFF (.tif, .tiff) U3D (.u3d) Video (.264, .3gp, .3gpp, .avc, .avi, f4v, .flv) Wireless bit map (.wbm, .wbmp)	Jpg GIF <u>Print to</u> PDF
Exertor Ved (1005)	Export to:Web-formatted imagery for legacy sites (GIFs)Artboards to filesArtboards to PDFExport for AeroLayer comps for filesLayer comps to PDFLayers to filesColor lookup tablesDatasets as filesPaths to illustratorRender videoZoomifyGenerate:Image asset set
	Share to: Contacts (your social network) Lightroom (a cloud image storage site) Behance (online portfolio in an art social network hosted by Adobe)

* **Content-Aware Image Editing:** Adobe Photoshop enables moving objects, spot healing, facial smoothing, art look-and-feel transfer to another image, wrapping visuals to 3D structures, contours, and other AI-enabled...work. Context-aware fill uses smart awareness of the surroundings of an object if it is removed.

Quick Brief History Note: Adobe Photoshop was rolled out to the public in Feb. 19, 1990, and it has been the foremost raster image editing tool since on both Windows and Mac operating systems. Now, it is part of the Adobe Creative Cloud suite of tools.

Digital Image Resolution (as in Numbers of Pixels per Defined Unit Area)

Generally, the basic standards for digital imagery for various "use cases" are as follows:

Context	Types of Digital Files	Color Processing	Digital Image Resolution
Electronic Theses, Reports, and Dissertations (ETDRs)	.jpg or .png (because of the relatively low file sizes)	CMYK (cyan, magenta, yellow, black)	350 dpi (dots per inch) or ppi (pixels per inch)up to 1200 or higher dpi The dpi / ppi refers to the amount of pixels in height or width in a square

			To get to the # of pixels in a square inch, you take height x width
Publishing	.tif or .tiff	СМҮК	350 dpi or higher as needed
Website (and some social media platforms)	.jpg (small image size), gif, and .png	RGB (red, green, blue)	72 – 96

If resolution is too low, pixellation of the image occurs along with poor sharpness (blur, lack of focus), and text tends to appear stair-stepped or to "alias." Low resolution means the edges of the text become blurry and rough. (For larger size images, at 100 MB, computer systems may start slowing down a little when editing in Photoshop.) The tradeoff is that higher-res images are larger and take up more memory for storage on a computer, and they take longer to upload or download...

2. A Highly Pixellated Image of the Capitalized Letters "AM,"
ext and Numbering Aliasing and Stairstepping on the Edges of

For those in design, color on-screen is very different with color on print paper (with various ink combinations, ink bleeds, a lack of screen reflectance, and differing interactions between inks and papers). [Color is also subjectively perceived based on people's retinas and color processing in the brain.] Some of the color effects on-screen, like neon colors, do not carry over as well in print, etc., because of the lack of screen brightness in terms of synthetic and non-synthetic papers.

However, please consult with the faculty advisor, publisher, or whomever will be receiving the visuals. The in-between states of visual processing may result in different color applications, like HSB / HSL (hue,

saturation, brightness; hue, saturation, lightness), and others. Ideally, one would start with a visual at the highest resolution practical, keep a master file, and edit the image carefully and with the least "lossiness" of image information. (Each edit can introduce more "artifacts" and noise and the loss of visual information.)



Screenshots and Digital Image Downloads from the Web and Internet: Because of the varying resolutions in various contexts, there are implications for screenshotting...the capture of video/film stills, and other types of image captures. Generally, since websites have low resolution (72 ppi to 96 ppi usually), and since most online images are thumbnails or lightweight images, it is better to enlarge the image before doing a screen capture. It may also help to download a version of the image to see which one is bigger. (Generally, scraped social imagery are thumbnails only and very small.) Screenshots of websites may be captured as part of research and so needs to be shared in a relatively high-resolution published form.

Drawing Diagrams in PowerPoint (to turn into a digital image): There are also implications for using PowerPoint to draw diagrams. (Basically, draw the diagrams and then CTRL + A to highlight all the shapes and text, and expand the visual to fit the full slide. Then save the slides as .pngs or whatever you need. Edit in an image editor before deploying, optimally.)

Figure 3. A Series of Six Images Created with Adobe Illustrator and Adobe Photoshop (esp. fx)



Other Potential Topics of Interest... or Something Else Altogether?

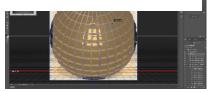
SELECTIONS OF PARTS OF AN IMAGE TO EXCISE / EDIT / INVERT/ REPLACE, ETC.

- Magic wand for particular selections and cutouts
- Selection tools (lassos, marquees)
- Select by object
- Select by quick selection
 - Can adjust the selection by going to the options bar and selecting the add brush tool to add to the selection or the subtract brush tool to take away from the selection



- Select by color (can expand by "fuzziness")
- Select by sky
- Adjusting selections
 - Can adjust selection by clicking on the lasso tool and using the options bar (above) to expand selection by various pixel counts
- Auto-shape selection (with pre-sets)
- Creating layers (basic dynamics of layers; trace layers; adjustment layers; cutouts; silhouettes; masking; nondestructive global and local visual edits)
- White color balance (for true colors without excess "warmth" or "cold" in the colors in the work)
- Color palettes (some pre-loaded, others that can be created by the user on the fly from a seeding digital image)
- Editing by color ranges
- Turning a photo into a line drawing (through filters / fx / neural filter)
- Scripts in Adobe Photoshop (and Adobe Illustrator) / macros can run in either software for batch processing of visuals

Figure 4. A 3D Editing Window (showing the x, y, and z axes)



 Removing watermarks from images [a simple workaround to remove hidden digital ones; erasure and cropping and background removal to remove found visual ones...based on real-world and legit "use cases"]

- Fun and communicative visual filter effects (explore textures / fill effects, distortions, lighting effects, and others)
- Creating particulate effects using "noise" filters and specialty paintbrushes
- 3D (x, y, and z axes) (and how not to break the z-dimensionality illusion) (deprecated) .
- Using a clipping mask (in layers) (image a layer up above the shape or letters below; alt . key + click between the layers)
- New Shape Group... Rename Shape... Delete Shape... Text Only Small Thumbnail Large Thumbnail Small List Large List Show Search Bar Show Recents Preset Status Append Default Shapes... Import Shapes... Export Selected Shapes... Shapes and M Close Close Tab Group
- .csh (custom shapes and vector graphics) that may be used for clipping and other such effects



Creating custom .csh files [Draw vector shape in Illustrator. Copy

vector object. Open Photoshop 2023. Paste as path. Go to Edit -> Define Custom Shape.... Save with select name. Find in Custom Shapes folder at bottom.]

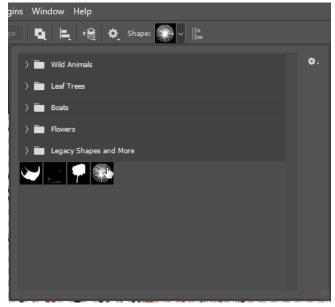
Or draw the shape (think silhouette) in Photoshop using the Pen tool...and Edit > 0 Define Custom Shape...and voila!

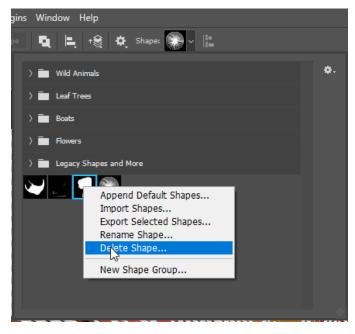
Turn on the Legacy shapes. In Photoshop 2023, go to Window in menu. Select Shapes. In flyout menu to right, turn on "Legacy Shapes and More". (See menu to the left.) These shapes include various nature scenes, animals, art "textures," and other elements.

[Of course, regular primitive geometric shapes may just be inserted from the left toolbar.]

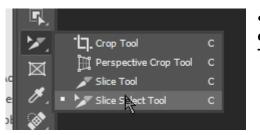
Creating custom shapes using Photoshop

- 1. Open a photo.
- 2. In the menu, Select, and choose the shape (for the selection).
- 3. Remove the extras along edges using the lasso tool and the alt key (to deselect). To add more, use the lasso tool, and select (without holding the alt key).
- 4. Turn the shape into a path.
- 5. Go to Select -> Modify -> Smooth (sample radius 5), to reduce the jaggedness of the edges if there are jags.
- 6. Click on circular button at bottom right in the panel (to load path as a selection).





Edit -> Check spelling (based on readable fonts)

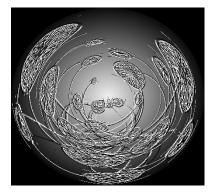


7. Define custom shape in the dropdown Edit menu. (Give the shape a name that is indicative of what the shape represents.)

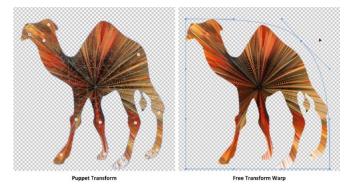
8. Go to the Shapes tool...and the shape is there ready to use.

9. If the Shape is not desirable, right-click on the image icon, and delete. (See left.)

- Like diptychs, triptychs, and quadtychs? Care to slice an image into equal parts and export the images in little pieces? Try the Slice Select Tool... and export the pieces as .gifs through Save for Web (Legacy)
- Lasso object (to be removed) -> Edit -> Content aware fill
- Turning a layer into a smart object (by right-clicking layer and selecting "Convert to Smart Object") so as to be able to edit non-destructively (even while engaging transforms and re-sizings) and enabling other types of edits to be applied;
 - have to go to Layer-> Smart Objects -> Edit Contents to create a .psd layer to enable pixel-based painting and editing for retouching (can convert back to a raster image from a smart object by going to Layer – Smart Objects – Convert to Layers

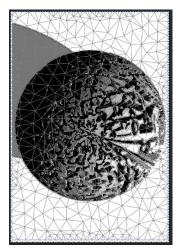


• Vignetting refers to creating a shadowed outer edge around a lighted center to drive human visual attention. There are various ways to achieve this: adding an exposure layer, adding a multiply layer (for shadows through masking), using a marquee oval around the focal center, adding a new adjustment layer, changing up the curves for brightness, then running a filter -> blur -> Gaussian blur to blend the darkness/lightness



• Designing for motion? Try "puppet warp" for changing the shape of creatures / characters and enabling warping along joints. This is done through a mesh...and through the placement of pins wherever the person wants to hold a part or section from

moving...and where they want to enable motion (along that point in any direction). The pin area is a fulcrum. (Reference the camel and the puppet transform and free transform warp, both using meshes.)

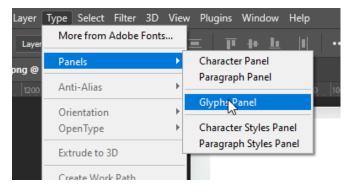


• Of course, you do not need to have an animal or humanoid or alien shape. You can "puppet warp" any form...

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• Accessing Typekit via the Creative Cloud (subscription), to download available fonts to the local machine to be used in the Adobe software designs, includes type in the world's different languages

- It is possible to access glyphs by going to the "Type" menu, Panels in the dropdown, then, the Glyphs panel.
 - To the right, go to the dropdown arrow next to the declared font...and select the particular font that you want. (See below.)



	Alternates For Selection Entire Font				
	Basic Latin and Latin 1 Extended Latin A				
	Extended Latin B Punctuation Open & Close Punctuation				
	Dashes & Quotes Superscript & Subscript Currency	C	D	E	Ê
	Numbers Math Symbols	L	M	N	
×	Symbols Designer Favorites	IT.	v	W	~
	Greek				

- Accessibility for digital imagery (based on color use, data labeling, data visualization labeling, sufficient contrast, mitigations for color blindness, alt texting, , lead-up and lead-away text, and others)
 - There is AI-informed automatic alt-texting...which has varied accuracy and results (but almost always amusing).
- Do remember that intellectual property (IP) and copyright should be adhered to in all work?
- Explore <u>TinEye Reverse Image Search</u> and its database of some 44 billion images and counting. Or explore other reverse image searches.
 - Images shared in public are noted and archived, and their original share URLs and such are public knowledge.
 - \circ The searches are getting smarter by the day, and they are somewhat harder now to throw off.

Want to see the metadata riding on a photo? Go to File -> File Info

Look down the left menu to see what data is available about the image. Also, this is a place to emplace information about your image, should the image travel.

This is a good place to check to see if you're leaking data unintentionally, such as locational GPS data, and others.

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Figure 5. View -> Snap To -> Slices View Window Help Proof Setup Proof Colors Ctrl+Y Gamut Warning Shift+ Ctrl+Y Pixel Aspect Ratio Pixel Aspect Ratio Correction 32-bit Preview Options Zoom In Ctrl++ Zoom Out Ctrl+- Fit Layer(s) on Screen	 Alternate texting / <u>Slice Tool</u> / View -> Snap-To - > Slices Tool -> Edit Slice Options -> Text Fields for Alt Text [The alt-text can be read by screen readers when they come to the image hosted on the Web or emplaced in a document. Such text is needed for Section 508 compliance and other forms of web accessibility for contents for public use.]
Fit Artboard on Screen 100% Ctrl+1 200% Print Size Actual Size Flip Horizontal Screen Mode ✓ Extras Ctrl+H Show ✓	Figure 6. Slice Options -> Alt Tag Slice Options Slice Type: Image Name: TintedTree_03 Cancel
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Adobe Illustrator (also in the Adobe Creative Cloud) with a focus on vector graphics

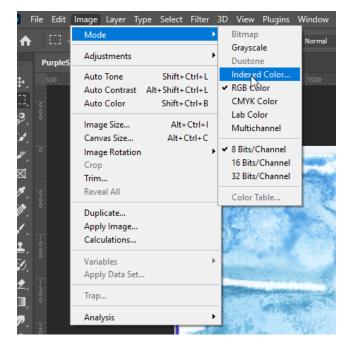
Figure 7. Adobe Illustrator Work Space (available on Adobe Creative Cloud)



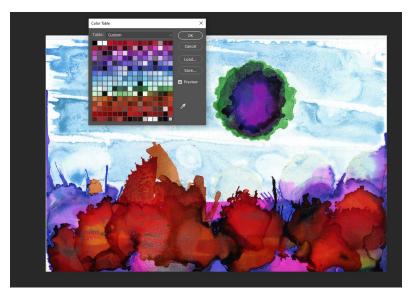
- **Capturing color palettes from a visual in Adobe Illustrator** (automatic pulling of 5 main colors from an image using AI)
- Image tracing (along paths) in Adobe Illustrator

To extract a color table from an image to use in the palettes, first, load an image into Photoshop.

In the menu, select Image -> Mode -> Indexed Color



Then go to Image -> Mode -> Color Table



Click "Save" in the Window, and save the .ACT file.

The process will result in an extracted excerpted palette:

Swatches
Q Search Swatches
> 🖬 Pure
) 🖬 Dark
> 🛅 Darker
) 💼 Pale

To load the full .ACT file into the Swatches panel, open the Swatches panel. Go to the parallel lines at the top right of this section. Left-click the three lines, and choose "Import Swatches."

_	
	New Swatch Preset
	New Swatch Group
-	
	Rename Swatch
	Delete Swatch
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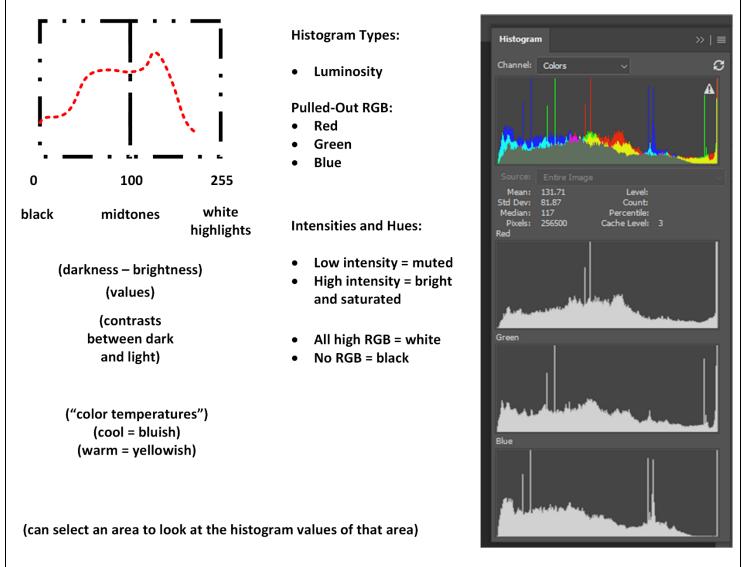
Make sure the dropdown is for the proper format that you want to import.

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	Swatches (*.ACO)	13	
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	Swatch Exchange (*.ASE)		
	CSS file (*.CSS)		
	HTML file (*.HTM)		
	HTML file (*.HTML)		
	SVG file (*.SVG)		

Using luminosity (dark - light) and RGB (red, green, blue) histograms

(with an indication of the dynamic range from dark to light also; high range includes the spectrum; low dynamic range involves just some segments of the potential light range)

Figure 8. About histograms in Adobe Photoshop



Changing the workspace look-and-feel

Edit tab -> Preferences -> Interface

Figure 9. Changing the Interface Look and Feel

Interface Color Theme: Image: Highlight Color: Default Workspace Tools Color Border History Log Standard Screen Mode: Default Drop Shadow File Handling Full Screen with Menus: Default Drop Shadow No Export Full Screen: Black None No Performance Artboards: Default Line Artboard settings only apply to GPU RGB mode.	
	OK Cancel Prev Next
Transparency & Gamut Units & Rulers Guides, Grid & Slices Presentation Plugins UI Language: English UI Font Size: Small Type UI Scaling: Auto Scale UI To Font 3D Image: Changes will take effect the next time you start Photoshop. Options Options	
 Show Channels in Color ✓ Dynamic Color Sliders ✓ Show Menu Colors 	

Heard about deepfakes? Various companies, including Adobe, are collaborating around the Content Authenticity Initiative. Adobe enables the capturing of content credentials, from creators to edit histories and other metadata, to ride along with the images to provide authenticated digital imagery. To turn on this beta capability, go to Edit tab -> Preferences -> Technology Preview. In the window, you can check on "Enable Content-Aware Tracing Tool." See the screenshot below.

Preferences		×
General Interface Workspace Tools History Log File Handling Export Performance Scratch Disks Cursors Transparency & Gamut Units & Rulers Guides, Grid & Slices Plugins Type 3D Technology Previews	Technology Previews Use Modifier Keys Palette Enable Preserve Details 2.0 Upscale Enable Content-Aware Tracing Tool Deactivate Native Canvas Enable Content Credentials (Beta) Cnanges will take effect the next time you start Photoshop. Description Make paths or shapes following the edges in an image. To enable, check Enable Content-Aware Tracing Tool above (Preferences > Technology Previews) and restart Photoshop. To use, select the Content-Aware Tracing Tool from the tool palette. If it is not present with the other Pen tools, you may need to add the tool using Customize Toolbar. The tool also requires Use Graphics Processor to be on in Preferences > Performance.	OK Cancel Prev Next
	Learn More	

This feature is also mentioned in the context of non-fungible tokens (NFTs). This feature enables a review of the history of edits to the content before the NFT is included in a blockchain (optimally).

This addition slows the opening of the software and the processing of images by a few seconds, it feels like.

It's worth it for high-value image processing...but perhaps not as much for everyday work.

Additional Informational Resources

Adobe Creative Cloud (Adobe space for application downloads, for font family set downloads, templates, and other tools):

https://helpx.adobe.com/support.html#/all_products

Adobe Photoshop Channel on YouTube (how-to videos, global events): https://www.youtube.com/channel/UCIH-KpveOLJszChWRfFmPfQ

Behance (art portfolios, live training events, social networking, and others): https://www.behance.net/

URLs for Updated Adobe Photoshop Presentation Handout (in .docx and .pdf formats)

Word: http://www.k-state.edu/ID/IntroAdobePhotoshopHandout.docx *Figure 10.* A Visual from Adobe Photoshop



PDF: <u>http://www.k-state.edu/ID/IntroAdobePhotoshopHandout.pdf</u>

Professional Training on Adobe Photoshop via MPL's Online Resources: For those with a library card to the Manhattan Public Library, you have access to the LinkedIn Training / Lynda.com trainings. There is an excellent training called "Photoshop 2021 Essential Training: The Basics" taught by Julieanne Kost, Principal Evangelist at Adobe Systems... This is a free training for those with a library card. A library card may be applied for both locally and from a distance. The library serves multiple counties, not just Riley.

Another colleague let me know that O'Reilly resources through the K-State Libraries also has some resources on Adobe Photoshop!

Adobe Licenses at K-State:

https://support.ksu.edu/TDClient/30/Portal/KB/ArticleDet?ID=64

Presenter:

Dr. Shalin Hai-Jew ITS - K-State Hale Library shalin@ksu.edu 785-532-5262

Note: Photoshop "beta" is a version of Photoshop that works through web browsers (not via the app installed on the local machine).

Updated: November 2022