

Digital Video Act II - Introduction to Editing and Distribution

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More classes

- This class is a series
 - Act I last week
 - Introduction and camcorders
 - Act II today
 - Introduction to Editing and Distribution
 - Act III next week
 - Tuesday, April 22nd, 1–3 PM, MMC 1745
 - Editing and Distribution tips



Class overview

Importing video

Editing video

Exporting video



What is video editing?

- Linear
 - Physical tape cut and pasted/taped together
- Non-linear
 - Video saved on a hard disk
 - Frames can be moved anywhere easily



What is video editing?

Process

Put video on hard disk

Edit video

Publish



Editing Software

Used to import, edit, and export video

Many different applications

In 1999, Apple released iMovie

4 years later...



Editing Software

- Cost
 - iMovie FREE
 - Windows Movie Maker FREE
 - Adobe Premiere \$549
 - Final Cut Express \$299
 - Final Cut Pro \$999
 - Avid \$12,000 \$53,000



Editing Software

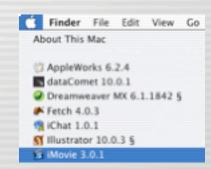
- iMovie
 - Credited with reviving interest in video!
 - Credited with reviving interest in COMPUTERS...
 - Children use it
 - Used by professional studios
- Windows Movie Maker 2
 - Reviewers like iMovie better
- Everything else
 - Requires extensive (and costly) training



iMovie

- Lets get started!
- Open iMovie
 - Dock
 - Apple Menu





/Applications/General/Video/iMovie



Interface

Only one window

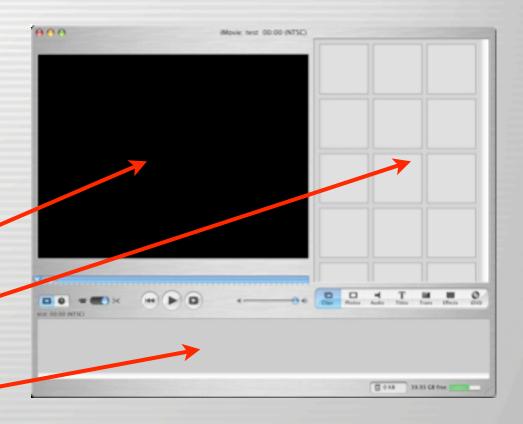
No longer full screen

• 3 areas

Monitor

– Panes

Viewers





Interface - Monitor

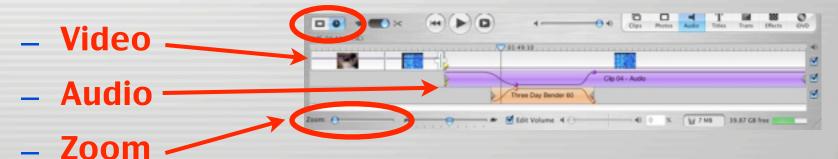
 Monitor Scrubber bar Volume Playback Controls Mode buttons



Interface - Viewers



Timeline viewer



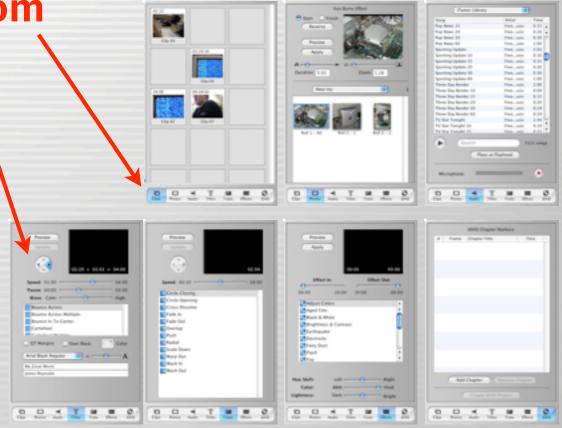


Interface - Panes

Switch at bottom

Options at top

- Panes
 - Clips
 - Photos
 - Audio
 - Titles
 - Transitions
 - Effects
 - iDVD





- Plug in Firewire
 - 4 pin: camera, 6 pin: computer
- Get camera ready
 - Put camera into VTR mode
 - Rewind tape 5 seconds before desired spot
- iMovie
 - Put in Camera mode
 - Click play button
 - Click import button
 - Click stop button







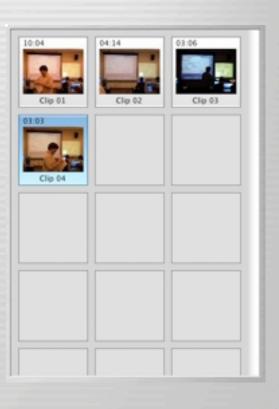
 iMovie will place clips into the Clip Viewer Pane





- Automatic scene detection
 - Splits clips
 - Where recording paused/stopped
 - Can be turned off in Preferences





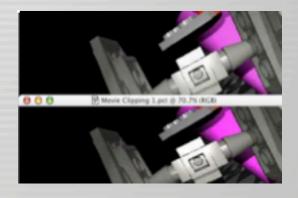


- If you have video files
 - mov, .dv, .mpg format
 - Resolution will be stretched to fit
 - Correct resolution is 720x480
 - Modify with QuickTime Pro
 - Export using custom size
 - File -> Import











Selecting clips

- View one clip
 - Click on clip
- View multiple
 - Shift- or command-click on clips
- View all clips in movie
 - Click on background or Edit -> Select None



Viewing clip(s)

Press play button



Drag scrubber



Use arrow keys



Cleanup video

• Trim **Deletes selected frames** Crop **Deletes unselected frames** Split

Turns one clip into two

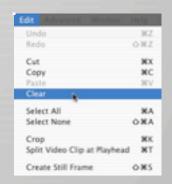


Cleanup video - Trim

- Select a clip
- Click and drag the crop markers
 - Select what you don't want



Press Delete key or select
 Edit -> Clear





Cleanup video - Crop

- Select a clip
- Click and drag the crop markers
 - Select what you want to keep



Select Edit -> Crop





Cleanup video - Split

- Select a clip
- Drag playhead to desired cut location
 - Use arrow keys if necessary



 Select Edit -> Split Clip at Playhead





Cleanup video - Undo an edit

- If you make a mistake, select Edit -> Undo
- You have 10 Undos
 - Unless you empty trash





Photos - Add

- Use iPhoto to import picture files
- Open Photos pane
- Choose an album
- Select a photo
- Drag image to viewer





Photos - Ken Burns Effect

- Click "Start"
 - Choose zoom value
 - Drag image to desired start location
- Click "Finish"
 - Choose zoom value
 - Drag image to desired end location
- Set duration





Transitions

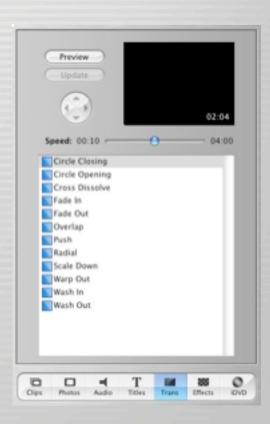
- Always add fade in and fade out
- Most clips should have no transition
- Cross dissolve is the most common transition
- Some transitions cause clips to overlap
 - Clips have to be longer than transition
 - Movie length will decrease
 - Add transitions before editing audio!

Transition here



Transitions - Add

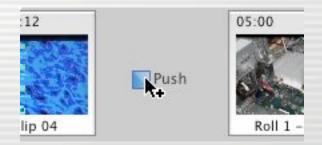
- Open Transitions pane
- Move playhead or select clip
- Click on transition name
 - You will see a preview
- Change duration
 - Listed as seconds:frames
- Change direction if available
- Click Preview





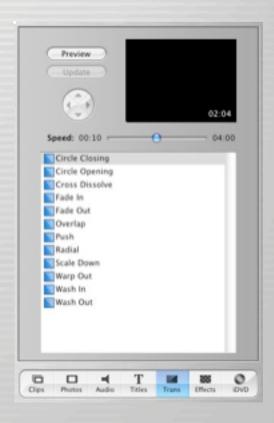
Transitions - Add

 Click on transition icon and drag it between desired clips



Work while it renders

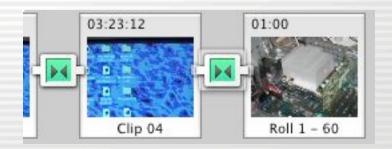




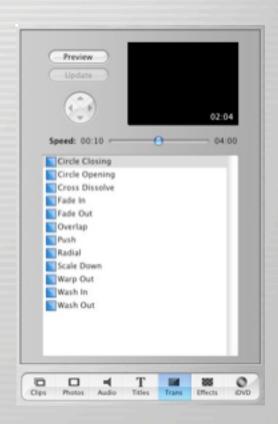


Transitions - Edit

Select transition



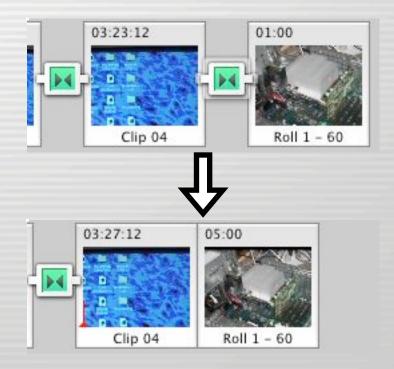
- In Transitions pane, change
 Speed or direction
- Click Update





Transitions - Delete

- Select transition
- Press Delete key or Edit -> Clear





Motion Effects

- Reverse
 - Select clip



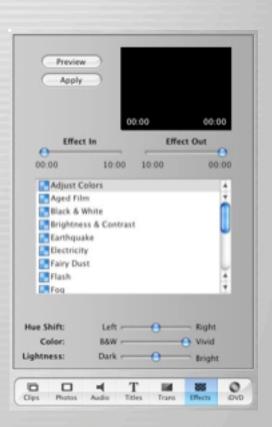
- Select Advanced -> Reverse Clip Direction
- Speed up or slow down
 - Select clip or desired portion of clip
 - Open Timeline viewer
 - Drag rabbit/turtle slider





Video Effects - Add

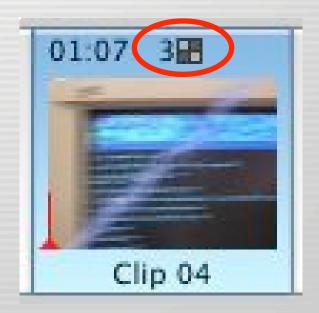
- Select Effects pane
- Select clip or portion of clip
- Change fade in/out
 - 00:00 is instant appear/disappear
- Change options
 - Direction, location, etc
- Click Preview
- Click Apply





Video Effects

- Clips can have more than one effect
 - Number of effects shown at top of clip





Video Effects - Delete

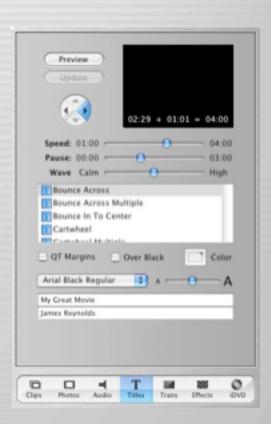
- If you haven't saved or emptied the iMovie
 Trash
- Select clip with effect
- Select Advanced -> Restore Clip





Titles - Add

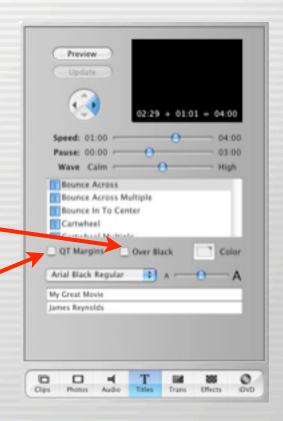
- Select Titles pane
- Select type of title
- Type text
- Choose font, size, color
- Speed slider sets in/out speed
- Set pause
- Set direction if possible
- Click Preview





Titles - Add

- Over black
 - Click Over Black
 - Otherwise it is over video
- QT Margins
 - Changes margins
 - QT is full window
 - Otherwise it is TV margins
- Drag title to clip







Titles - Delete

Click on clip with text and hit delete key

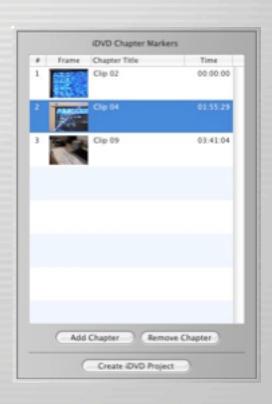




Chapter markers

- Makes DVD chapters
- Move play head to desired location
- Click Add Chapter
- Set name
- Timeline viewer diamonds

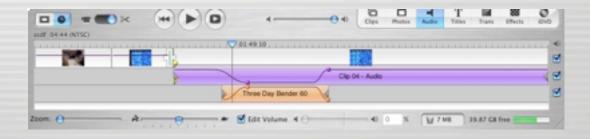


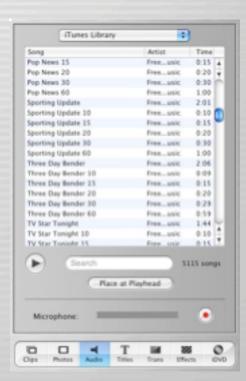




Audio

- Finish video before working on audio!!!
- Click Audio Pane
- Select Timeline Viewer







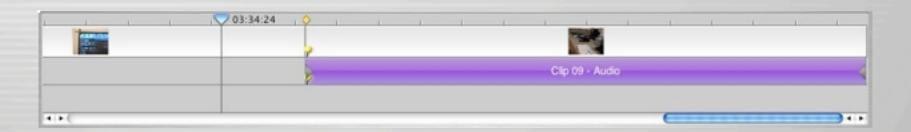
- Four sources of sound
 - Audio track included with imported video
 - Sound effects included with iMovie
 - CD or iTunes
 - Record your own



- Audio track included with imported video
 - Select the video clip
 - Click Advanced -> Extract Audio

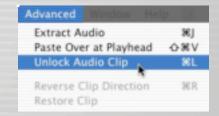


Audio clip appears below video clip

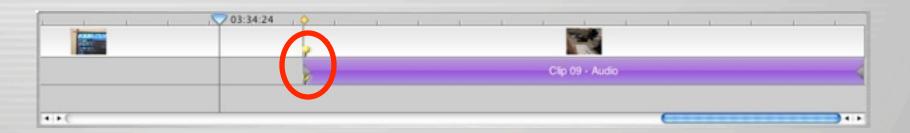




- Audio track included with imported video
 - Video clip is muted, not stripped
 - Audio is "Locked" to video



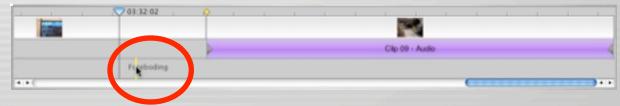
To unlock, select Advanced -> Unlock Audio Clip





- Sound effects included with iMovie
 - Select "iMovie Sound Effects"
 - Select a sound and drag to Timeline Viewer
 - Demo of sounds...







- Sound effects included with iMovie
 - Skywalker Sound and iMovie sound demo





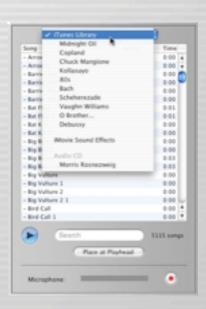
- CD
 - Insert CD
 - Select CD in popup
 - Select track and drag
 - Or click "Place at Playhead"





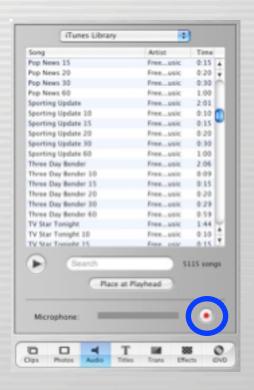
iTunes

- Select iTunes in popup
- Select track and drag
- Or click "Place at Playhead"
- AIFF, MP3, WAV formats





- Record your own
 - Get a microphone
 - Move playhead to desired location
 - Click record button
 - If meter turns red, you are too loud
 - Click stop button
 - Same button





Audio - Move

- Click audio clip and drag
 - Beginning frame shown in monitor
- Drag it to either audio track if desired
 - Top track is default extracted audio location
 - Bottom track is default imported audio location



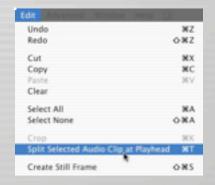


Audio - Delete/Crop

- To delete entire clip
 - Click on clip and press delete key
- To crop clip (method 1)
 - Move playhead to desired cut location
 - Select Edit -> Split Selected Audio Clip at

Playhead

- Click on unwanted half
- Press delete key



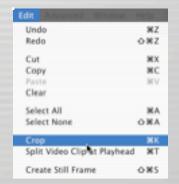


Audio - Delete/Crop

- To crop clip (method 2)
 - Select audio clip
 - Drag crop markers to shorten clip



– Select Edit -> Crop





Audio - Volume

To change computer volume

Menu



Keyboard



- To change movie volume
 - iMovie window





Audio - Clip volume

- Select clip
- Adjust volume slider (below Timeline window, not above)

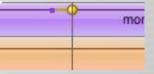


Audio - Clip envelope

Click Edit Volume checkbox



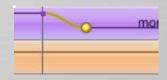
Click the line at desired location



Drag dot up or down



Change slope with smaller dot





Audio - Clip envelope

To remove, click dot and press delete



Use this to add fade in and fade out





Export movie

- Burn to a DVD
- Save to DV tape
 - Storage
 - Send to VCR
- Save as a file
 - Put it on the web
 - Send in email



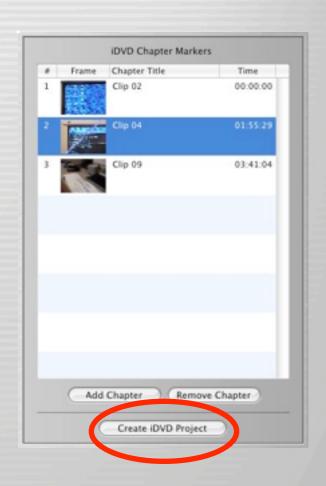
Export movie - iDVD

Open iDVD pane

Click "Create iDVD Project"

Wait

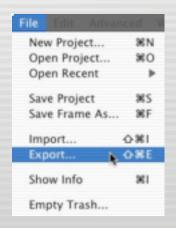
Open iDVD and burn

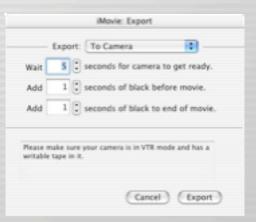




Export movie - DV tape

- Connect camcorder to computer
- Put DV tape in camcorder
- Put camcorder in VTR mode
- Select File -> Export -> To Camera







Export movie - DV tape

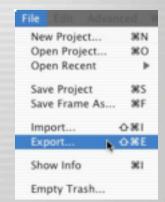
- Set seconds to wait for camcorder
- Set seconds of black time
- Wait (this is a 1x process)

Wait	5 seconds for camera to get ready.
Add	1 seconds of black before movie.
Add	1 seconds of black to end of movie.
	nake sure your camera is in VTR mode and has a tape in it.



Export movie - File

- Select File -> Export -> to Quicktime
- Select format
 - Email
 - Web
 - Web Streaming
 - CD–ROM
 - Full Quality DV
 - Expert Settings







Let's play!

- But first...
 - Questions and answers
 - Next class
 - More information on the web
 - Contact info
 - Survey



Questions and Answers



Next class...

- Tuesday, April 15th, 1–3 PM, MMC 1745
- Introduction to editing and distribution
 - How to import
 - How to edit
 - How to publish



This info on the web

http://www.macos.utah.edu

Click on "Documentation"

Click on "Digital video"



Contact

Web - www.macos.utah.edu

Email – mac@scl.utah.edu



Survey

 Please fill out survey How was the instruction – How was the content of the class? Have suggestions on Improvin Want to have us teach other



Let's play!

Now lets play

