Fall 2009 by Marie Hannigová

ARTS 095 COMPUTER GRAPHIC DESIGN II: TIME-BASED MEDIA

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	Movie Settings
Video	
Settings Filter Size	Compression: H.264 Quality: High Bitrate: 600 kbits/sec Frame reordering: yes Encoding mode: multi-pass Dimensions: 320x240 (Current)
Allow Tra	erredine
Allow Tra	nscoding
Allow Tra	nscoding
Allow Tra	Format: AAC Sample rate: 32.000 kHz Channels: Mono Bit rate: 32 kbps
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Here are some notes on how to compress your videos without losing quality. Note that I use a Mac, and settings and specific terms may vary on a PC.

- Open video in QuickTime, Go to File > Export (NOT Export for Web) or
- In FCE use *Export* > Using Quicktime conversion
- At the bottom, it should say "Export: Movie to QuickTime Movie" and "Use: Most Recent Settings"
- Then you have to go under "*Options*" or a similarly named button next to it to actually change those "Most Recent Settings," which are likely set to default and are not typically helpful
- Make sure all three check boxes on "video, sound, prepare for Internet streaming" are checked, but then proceed into each section to change certain settings.

## Under Movie Settings, Video:

-Settings - \*this is the most important one\* - you also have two options.

- 1. Compression type H.264 (best quality, takes longest to compress)
  - Key frames: automatic
  - *Encoding:* Best quality (multi-pass) compressor quality bar will then likely be set to high w/out the option to change it that's fine
  - *Data rate:* this one is where all the change happens! The lower you set the number, the harder your file will be compressed. I don't recommend compressing in a data rate below 600. If it's a small size (320×240) and doesn't have a lot of movement, you can get away w/ 600-800. For larger and more complex files, (640×480, more movement), keep it around 1000kbits/second.
  - *Optimized for:* download (H.264 works well, but you do have to be patient. Otherwise there's option two.)

Standard Video C	ompression Settings
Compression Type: H.264	
Motion Frame Rate: Current Frame Rate: Current Frames: Automatic Every All Frame Reordering	Data Rate Data Rate: Automatic Restrict to 600 kbits/sec Optimized for: Download
Compressor Quality Least Low Medium High Best Encoding:  Best quality (Multi-pass) Faster encode (Single-pass)	Preview
(?)	Cancel OK

	Movie Settings
Video	
Settings	Compression: H.264 Quality: High Bitrate: 600 kbits/sec Frame reordering: yes
Filter	
Size	Encoding mode: multi-pass Dimensions: 320x240 (Current)
Sound	Format: AAC
Jettings	Sample rate: 32.000 kHz Channels: Mono Bit rate: 32 kbps
Prepare for Int	Sample rate: 32.000 kHz Channels: Mono Bit rate: 32 kbps ternet Streaming

2. **Compression type MPEG-4 Video** (takes less time to compress, but uses higher data rate, making the files larger; lots more room to change settings here, but also requires that you know more about what you're doing)

- Frame rate: Current fps (frames per second)
- Key frames: every 24 frames
- *Compressor quality:* (this is where you can adjust it yourself, I usually opt for somewhere from "medium high")
- Data range: restrict to (never use automatic): like above, if small file, you can get away w/ 600-800 kbits/second. But because the quality of these files is less, you should usually stay above 1000, even for 320×240 files with little movement. You don't need to bump it above 3000 though by then, it's all the same.

## Back under general export settings:

- *Filter* don't touch this one, ever
- *Size* usually stays the same, called something like "current;" if you're compressing a big screen file into a tiny made-for-online video and want to shrink it down, there's a drop down list of sizes (320×240 is most common) and also a way to choose whether you letterbox the actual moving images for slight size changes.
- \*NEVER\* "deinterlace source video."
- Under *Sound:* AAC, 32 kHz, Mono channels, Bit rate 32 kbps (for greatest compression), otherwise use 48kHz Stereo if sound important
- Prepare for Internet streaming: Pick "fast start" from the drop-down menu

- Save as a different file name for now and hit Export! You can always try a few different ways of exporting to toy w/ it and see how things show up. If you use MPEG-4, you may get some of those black pixel squares if you set the data rate too low.

Data Rate
Data Data: O A transition
Restrict to 800 kbits/sec
Questine to [000] minister
Optimized for: Download
Preview
And and a second s