

# Post-Production

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# Post-Production

## What is Post-Production?

### A Formal Definition:

Post Production- *The technical processes, as cutting, editing, and post-synchronization, necessary to ready a filmed or recorded work for sale or exhibition*

### In General:

□ Post production includes any type of editing or processing that occurs after the actual recording of the work. This may include but is not limited to:

- □ Video editing
- Soundtracks
- Special effects
- Sound effects
- Credits/Titles/Subtitles
- Content transfer (How will it be distributed)

# Topics

- Non-linear Editing Software
  - Software Vendors
  - Basic Ideas
  - Formats and Compression
- Editing
  - Video Editing
  - Sound Editing
- Effects
  - Compositing - render layers
- Output
  - Titles & Credits
  - Data file DVD & playable DVD

# Non Linear VS Linear

- Allows access to any video frame without the need to progress in one direction through the film
- You may jump to any frame
- Is not destructive to film negatives/originals
- The equivalent of using Word vs a typewriter
- Dominates the commercial film market.
- Hard drive space may limit quality

- Frames can only be accessed by passing through previous frames
- Film negatives are cut and spliced together for a final video
- Old-School still common in T.V and newsrooms.
- Medium limits quality

# Non-Linear Video Editing Software

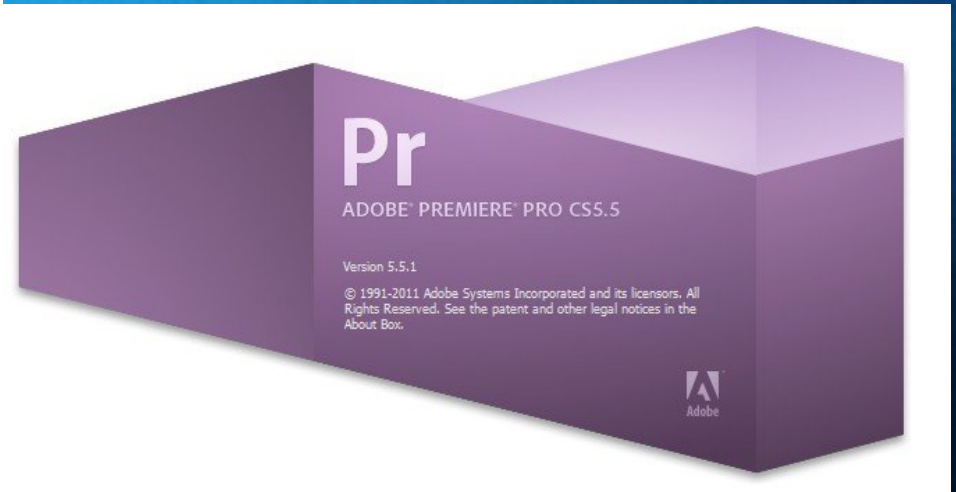
- **Adobe Premiere Pro (\$400-\$1600)**
  - Several different editions and suites available to meet customer preference
  - One of the most heavily used in post-processing
- **Sony Vegas Video (\$50-\$700)**
  - Very new software
  - Also comes in several editions
- **Avid Studio (\$170)**
  - Learning curve
- **Apple's Final Cut Pro (\$300)**
- **Video Lan Movie Creator (VLMC)**
  - Open Source

# Home Video Editing (not professional quality)

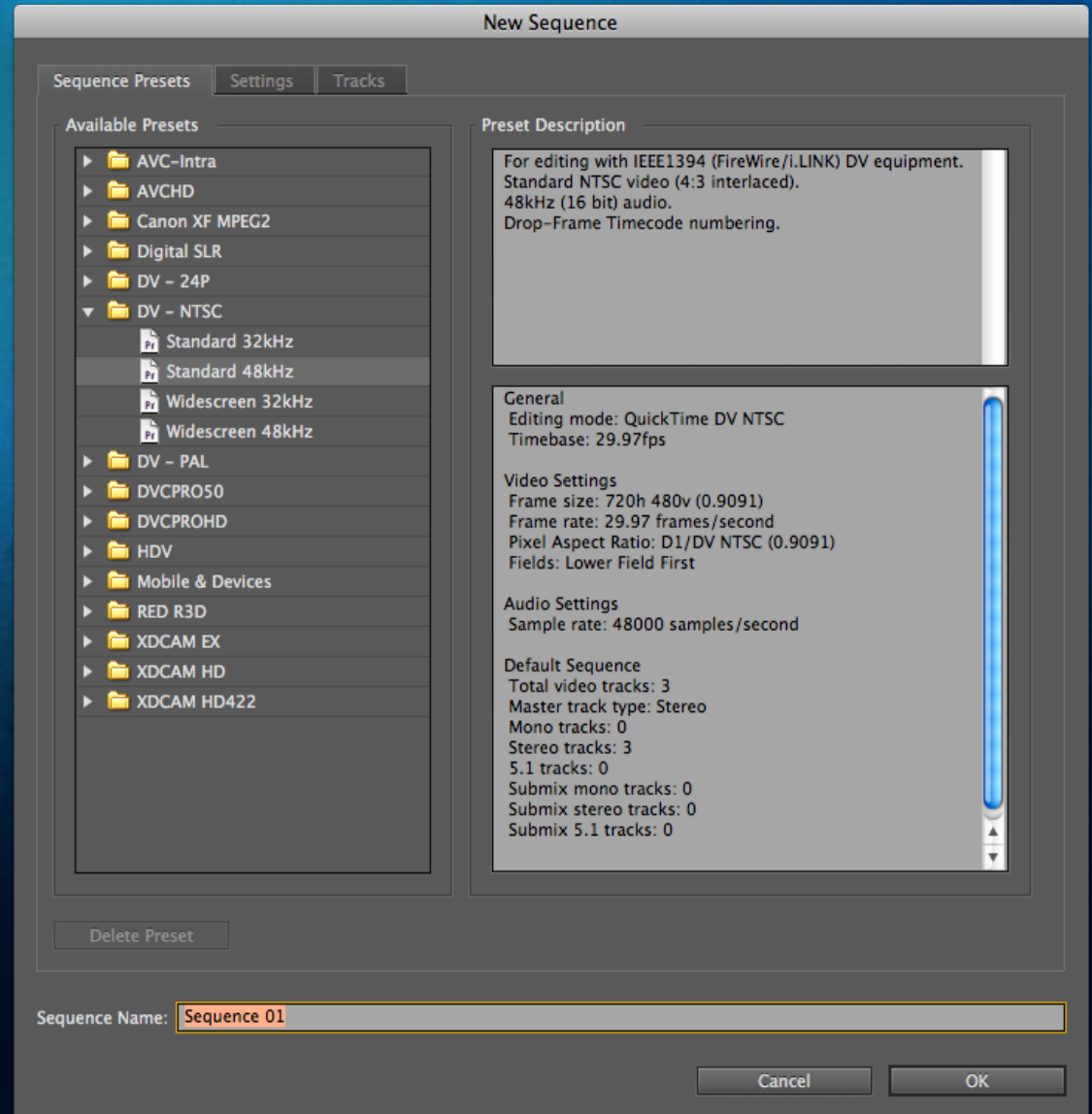
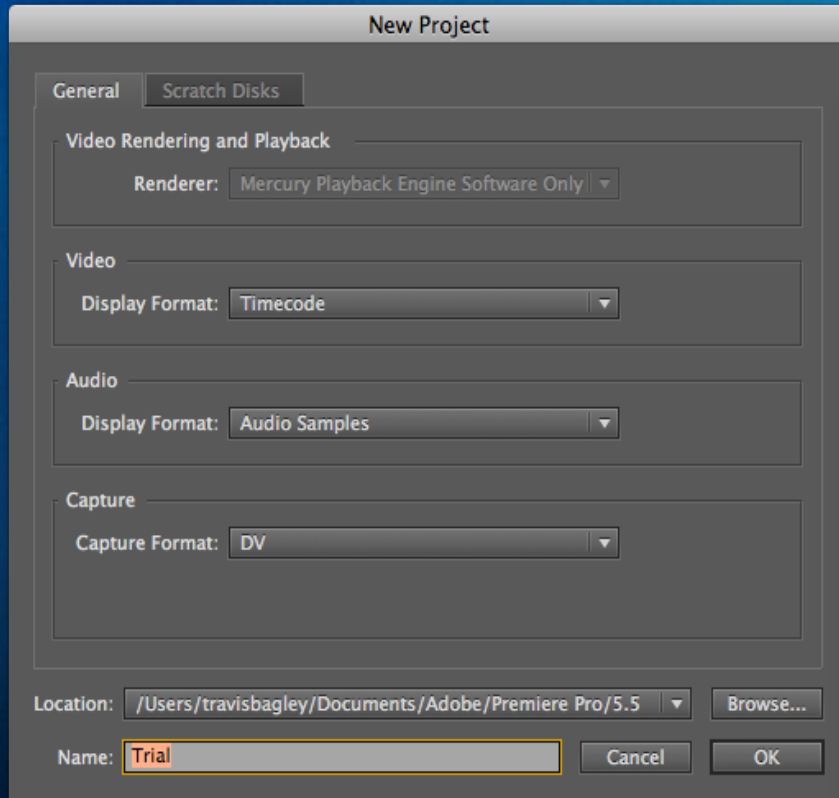
- iMovie
- Windows Movie Maker
- Virtual Dumb
- Wax
- Video Spin
- Movica
- The list goes on and on...

# Adobe Premiere CS4 - CS5.5

What it does and how to use it.

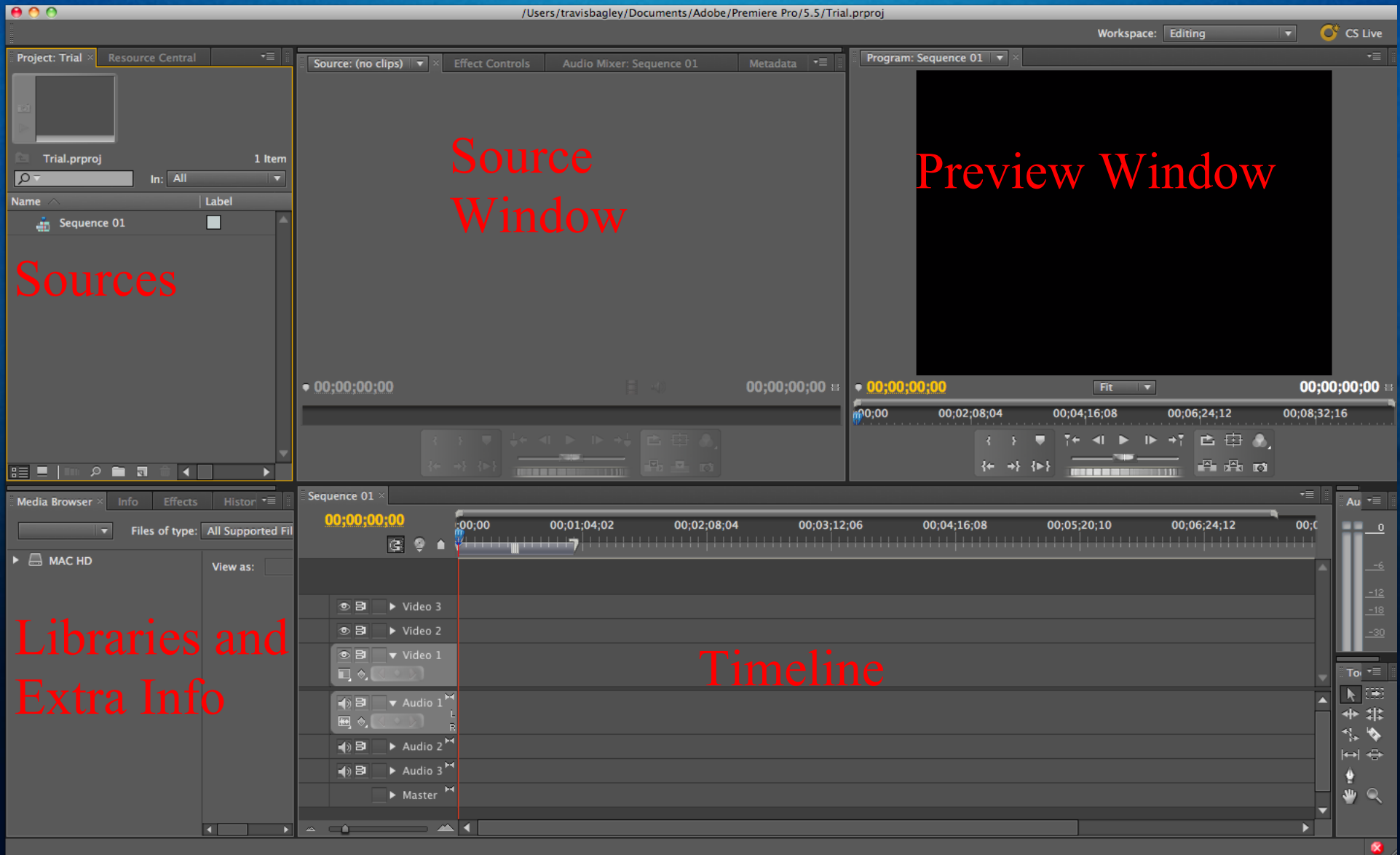


# Getting Started

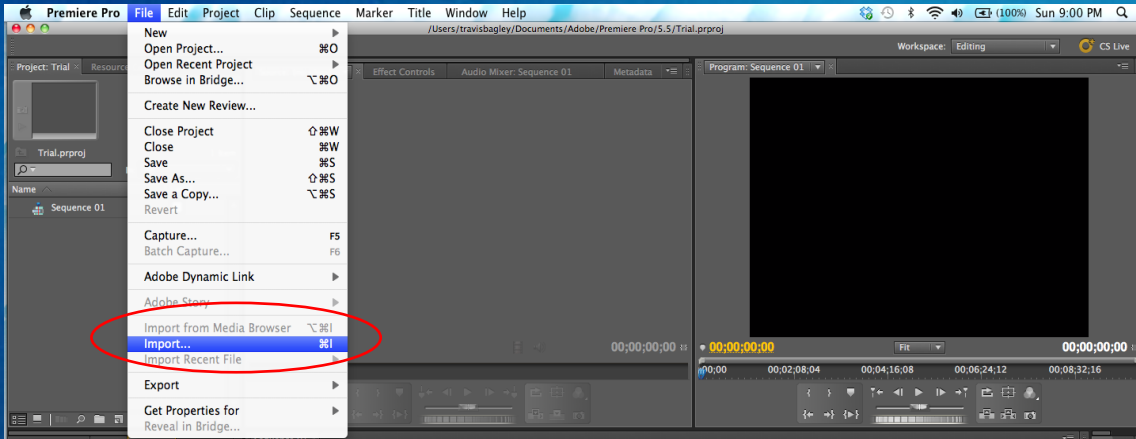




# Default Workspace Layout (editing)

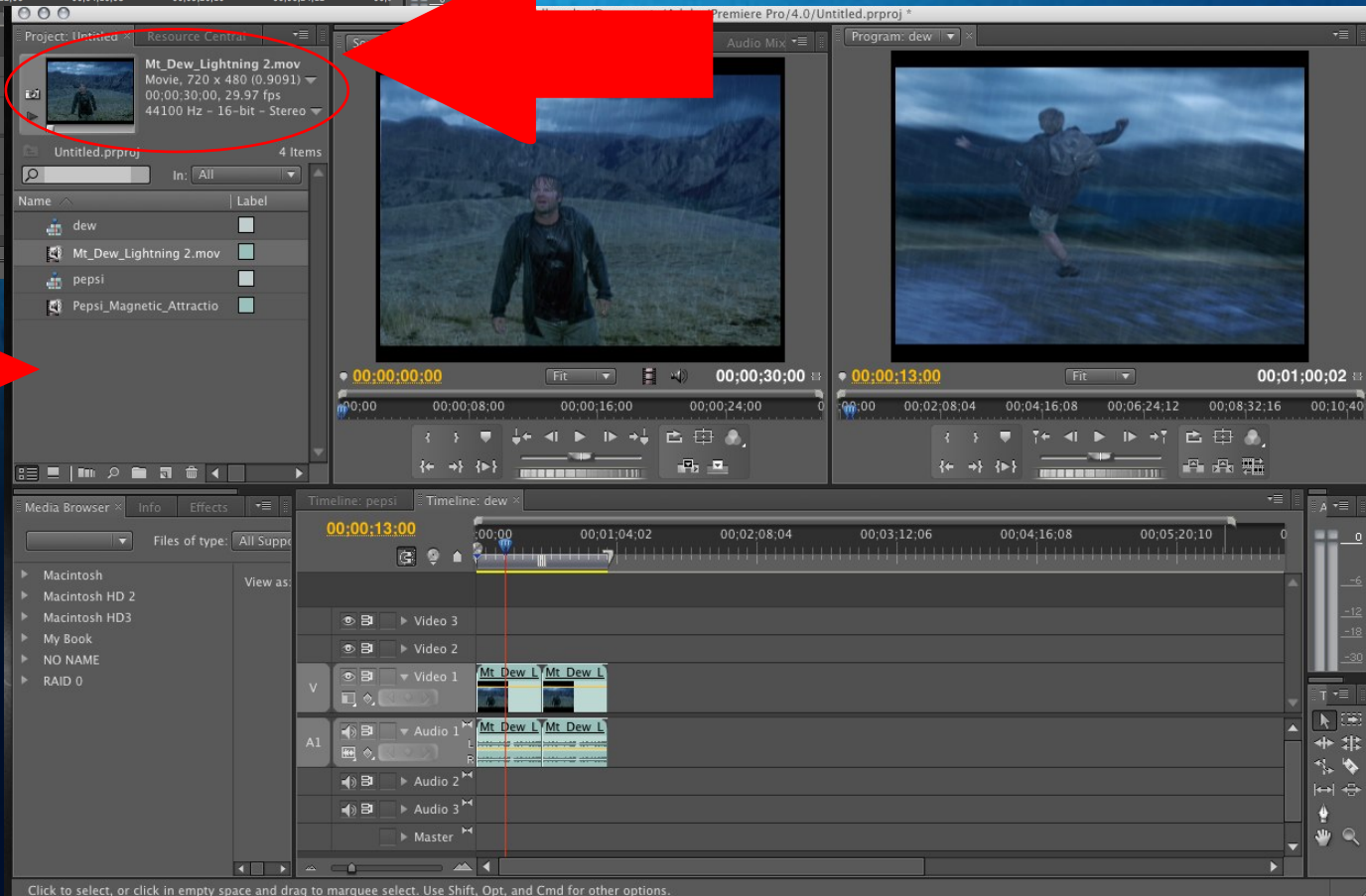


# Importing Sources



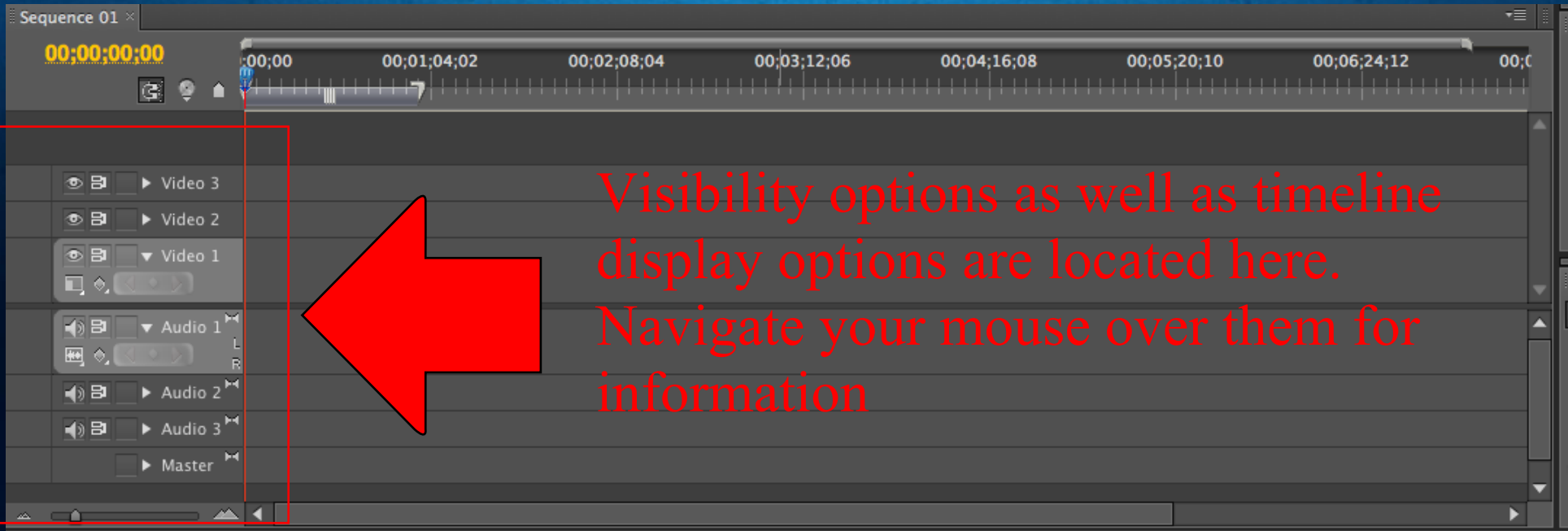
Quick source preview

Currently available sources



# Layering - The Timeline

- Drag sources to the timeline to add them to your video
- Priority is set by the outer most layer i.e. video 2 overlaps video 1
- You may drag source segments to change their duration and their sequencing



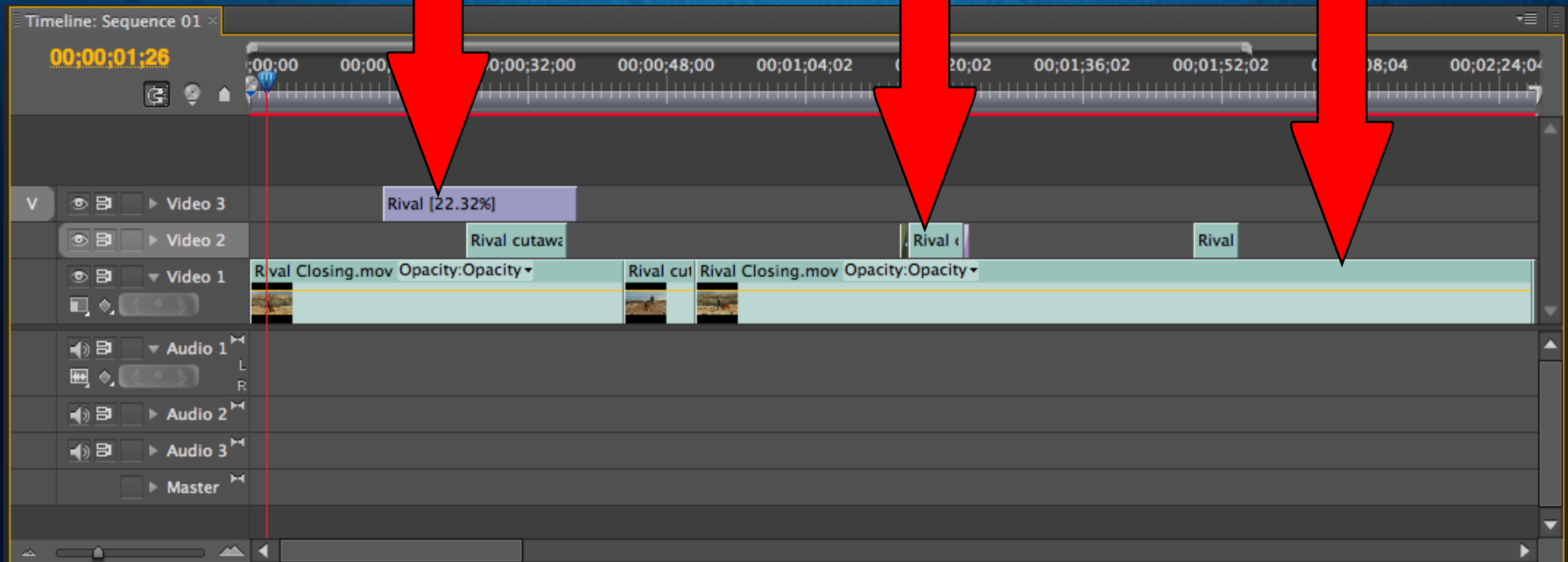
# More on Layering

- Note how Video is being displayed in detail. Here you can choose what effects you wish to see in the timeline. This includes keyframes and effect intensities and durations.

Priority 1

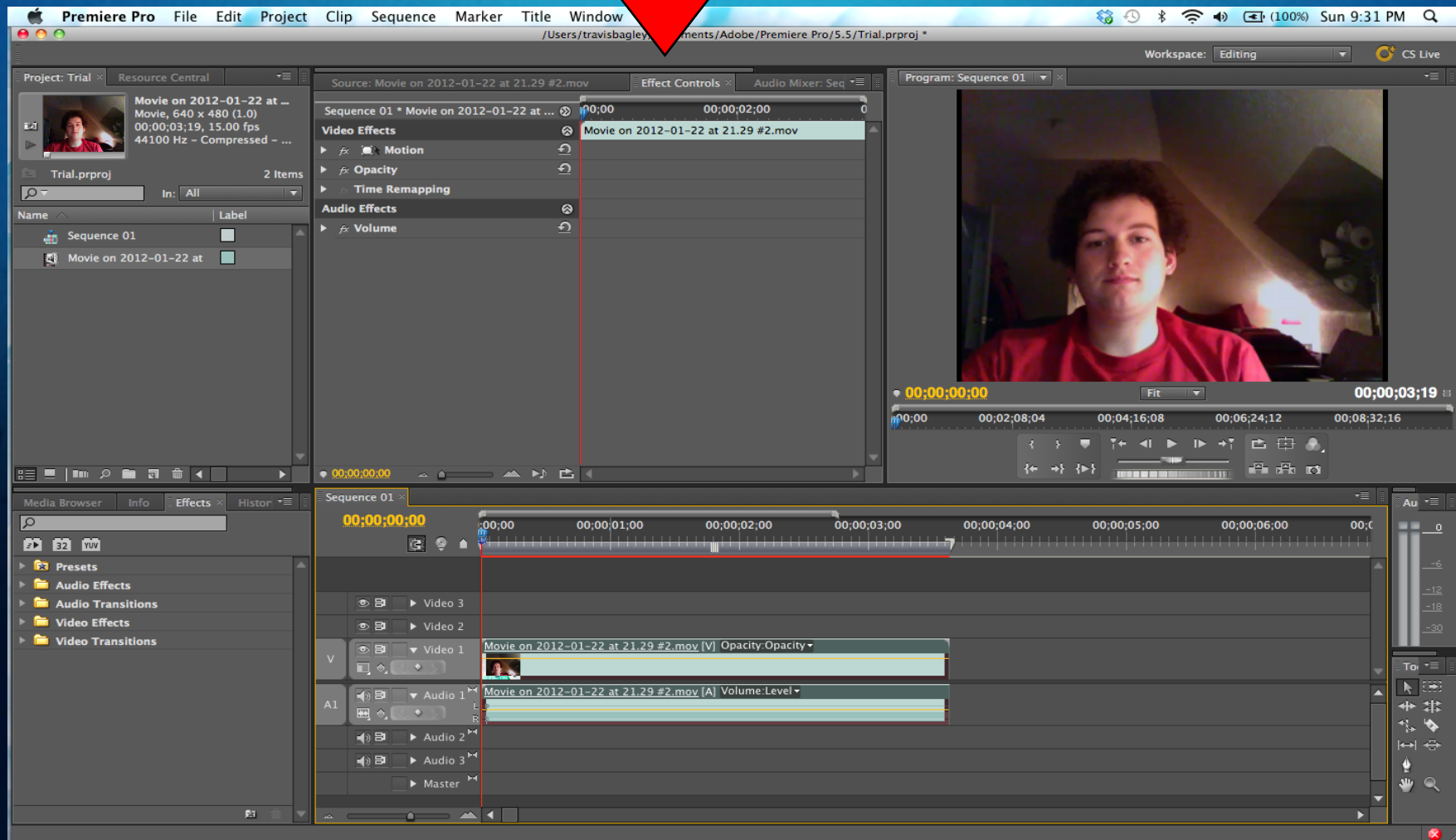
Priority 2

Priority 3



# Effect Control Basics

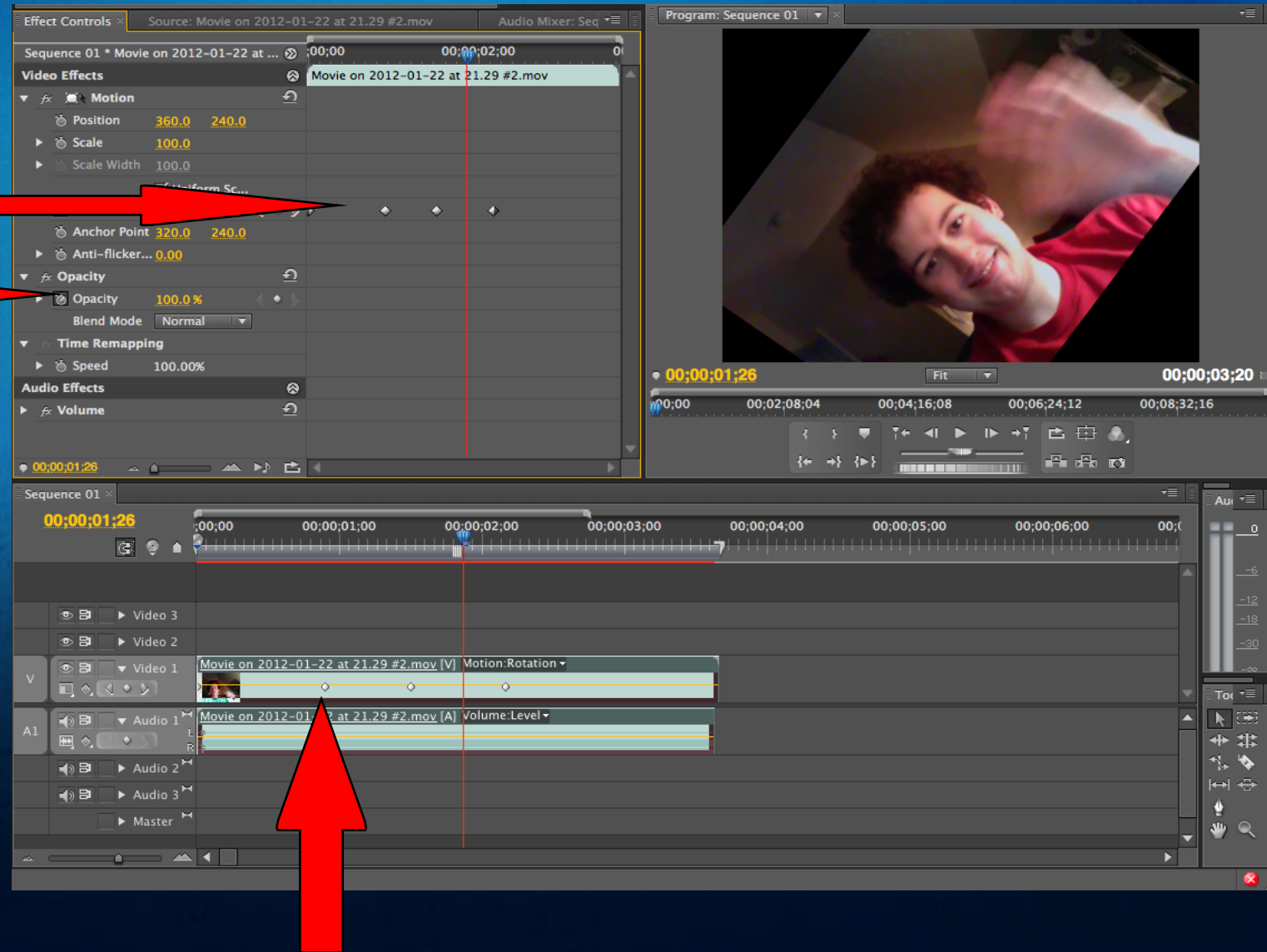
Effect controls allow you to access all types of animation/editing



# Effect Controls Cont.

Keyframes

Clock  
activates  
animations

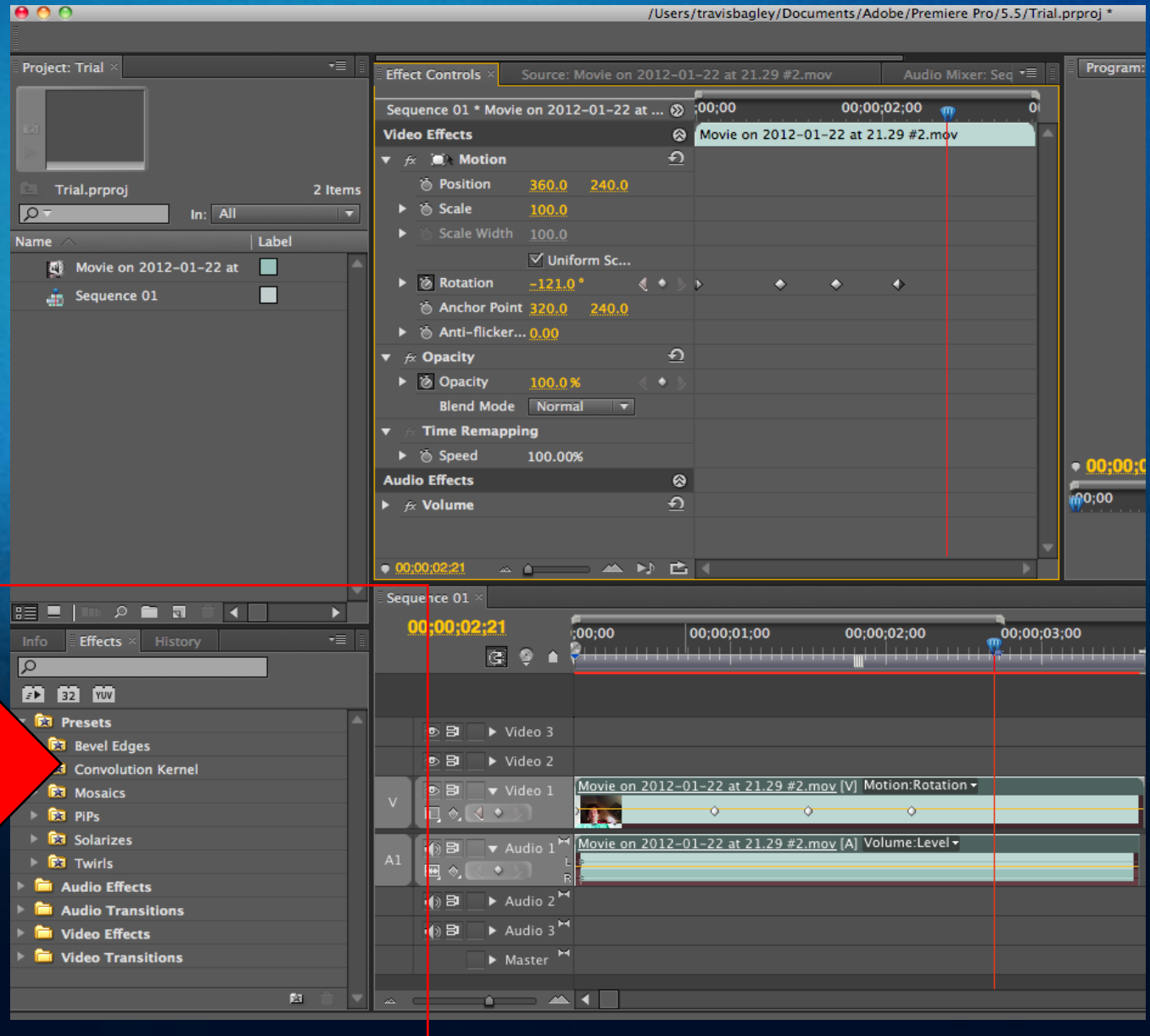
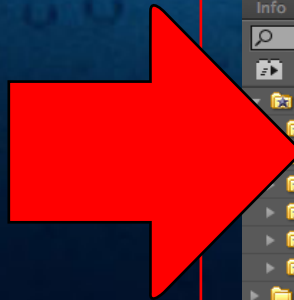


Keyframes show up in timeline with the appropriate drop down selection

# Effect Controls Cont.

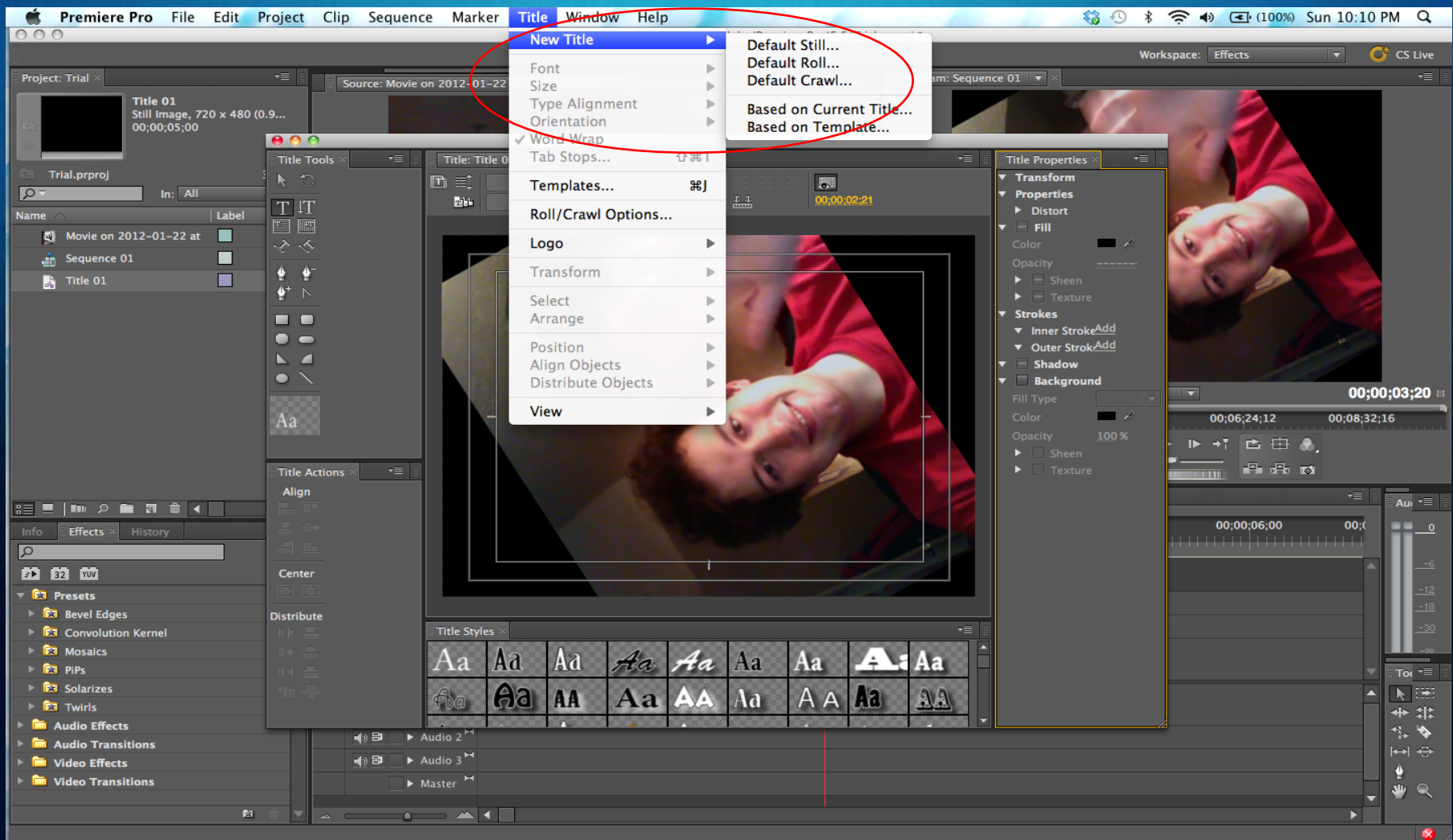
Drag extra effects from the effects tab onto the clip of your choice. This will add another effect control menu.

More effects are located here.



# Titles

Titles are essentially new layers you can create from other clips. Titles act as separate entities and can be manipulated much like sources. Titles can be used to create blurs, shapes, holes, etc in a layer. Layer mapping allows you to map sources onto one another in certain locations.





# Titles Cont.

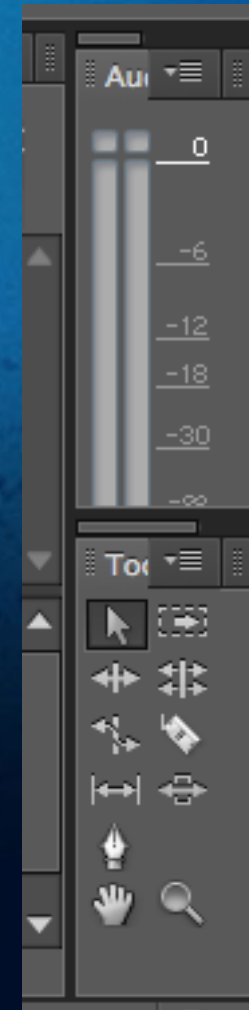
Drag a title onto the timeline.

The image is a collage of Adobe Premiere Pro screenshots illustrating the process of using a Track Matte Key for titles. The top-left screenshot shows a video clip of a man in a red shirt in the Program Monitor, with a white octagonal shape overlaid on the video. The bottom-left screenshot shows the Timeline with a 'Title 01' clip placed on a track above the video clip. The middle-right screenshot shows the Effect Controls panel for the 'Track Matte Key' effect, with the 'Matte' dropdown set to 'Video 3'. The bottom-right screenshot shows the Timeline with the 'Title 01' clip on a track above the video clip, and the 'Track Matte Key' effect applied to the video clip. The Project panel on the left shows the 'Title 01' asset.

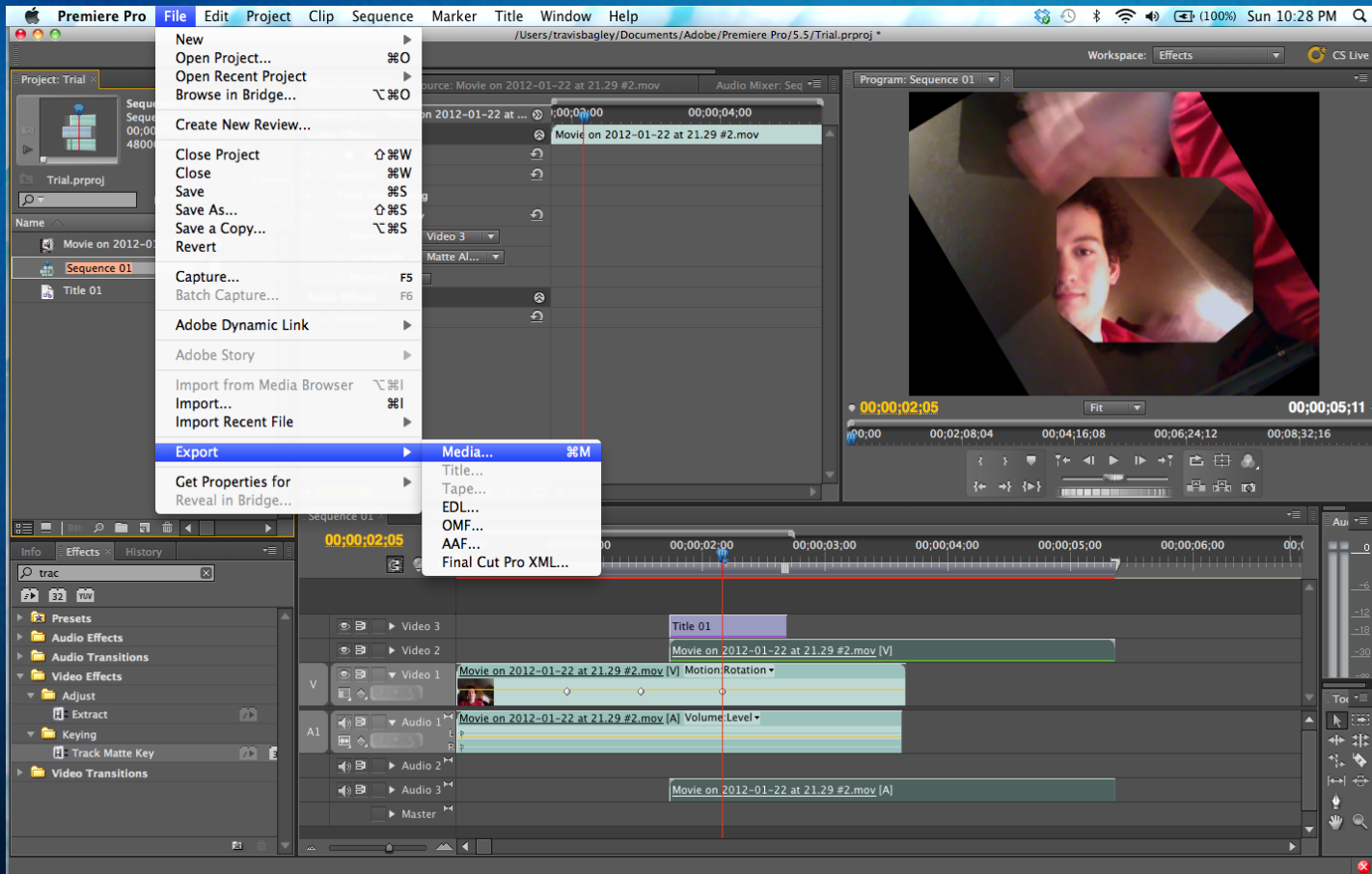
Track Matte Key can be used to map layers to titles.

# Adobe Quick Tips

- The space bar acts as a pause and play button
- Ctrl + t will create a new title
- The interface relies heavily on dragging and dropping
- Check for drop down menus
- You can move tabs around the workspace to create a custom working area.
- Adobe is very extensive but not too complicated, the easiest way to learn is to play with it
- Adobe can be set to auto save changes over time periods
- There is a tool box on the right bottom side of the default editing workspace that allows you to change the mouse icon



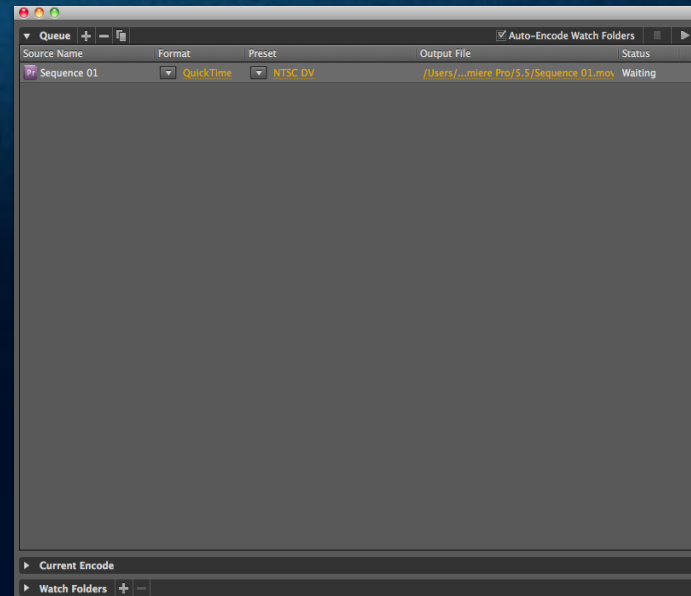
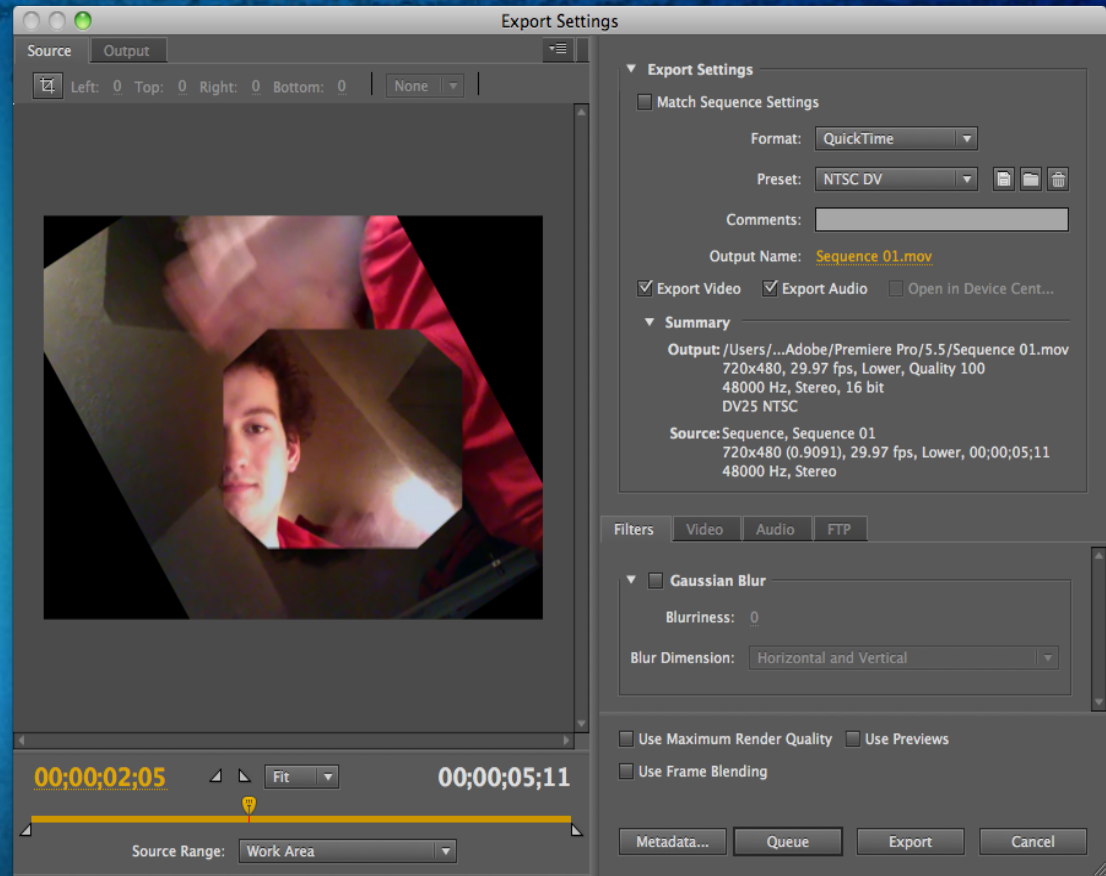
# Exporting Your Movie



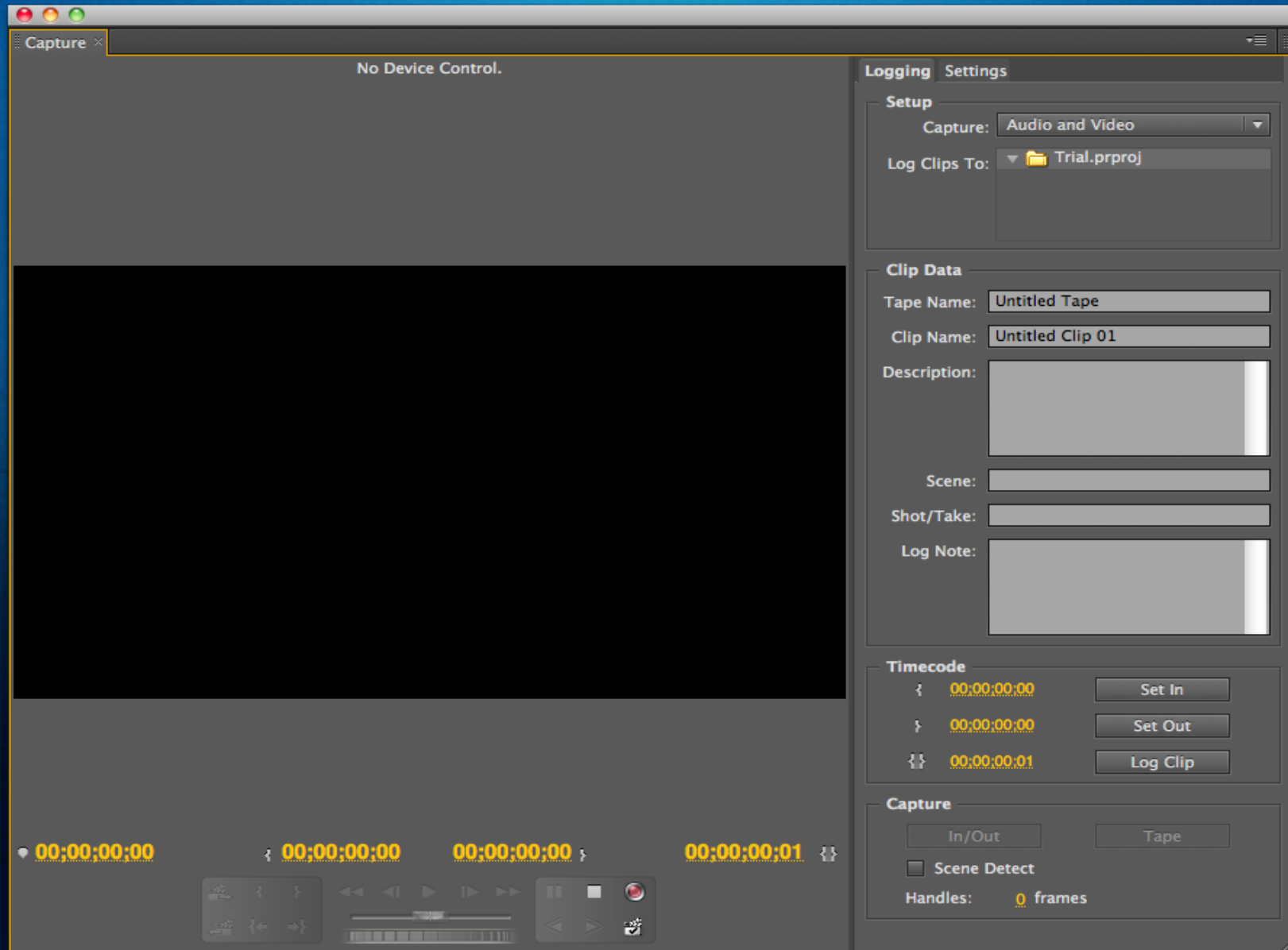
Note: You must have a sequence highlighted in order to export your movie.

# Exporting Cont.

There are many exporting options. You can select formats and qualities. Queue will add the export to an encoder queue in which you can pause and add multiple exports. Export will immediately encode your movie, but you will not be able to use premiere until it is done.



# Recording



# Sound

## Sound Design

*- The process of specifying, acquiring, manipulating or generating audio elements.*

*Diagetic VS Non-Diagetic*

## Questions to ask yourself

*What is the mood of my animation?*

*What is generating sound in my scene?*

*What is the focus of the scene?*

*How can I bring this scene to life?*

# Sound Design

- Sound Placement
  - Volume
  - Frequencies
  - Channels (stereo separation)
- Background Music
  - Setting the *Mood* ;)
- Background Sounds
- Foley sounds (fun ones)
  - Foley artist
  - (hard, background, electronic, etc...)
- Dialogue

**can you hear the sounds?** <http://www.youtube.com/watch?v=Ea24Sm5WVz0&feature=related>

# Sound Editing (DAW)

- Software to edit/mix/create sounds are called DAW
  - Audacity
  - FL studios
  - Pro Tools
- Can be a separate process from video editing
  - A lot of sound can be determined as the project progresses during the production stage.
- Mostly completed by post-production
  - Most Sound Design completed
  - Then what needs to be done?
    - Timing
    - Importing to video editing software
      - File>Import (browse) > open



# Compositing – Rendering

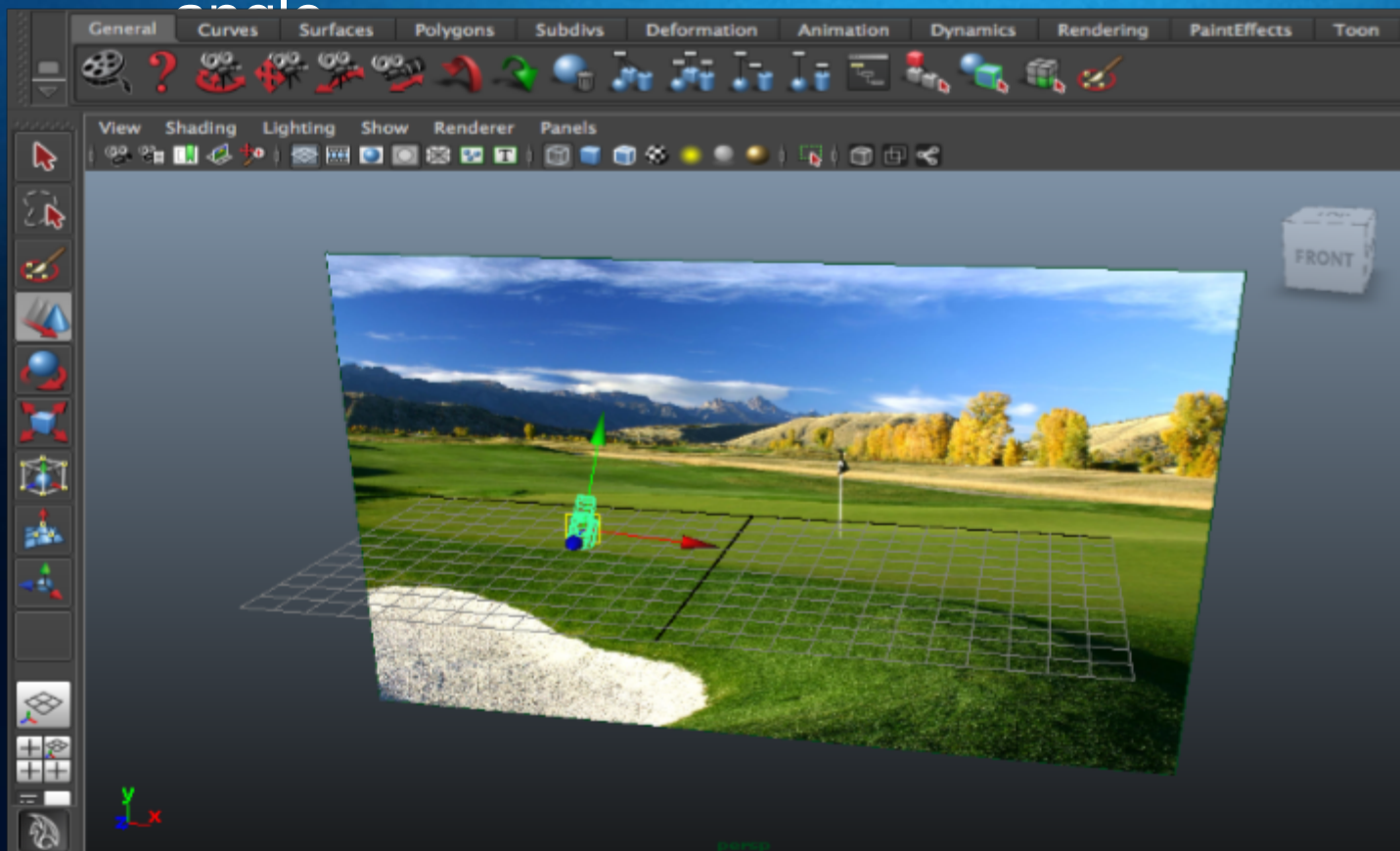
- Render a Maya model on top of an scene (image, video etc.)
- Background serves as a setup for lights and camera.
- Use Mental Ray renderer to capture shadows and reflections.
- Can be used to merge different kinds of scenes, allowing post processing to plug that blank looking space in the scene.

# Compositing - Rendering

- Steps :

- Creating the Camera.

Need the camera setup according to the desired background  
angle.



# Compositing – Rendering

- Import your model you want to composite.



# Compositing – Rendering

- Set-Up the lights



# Compositing – Rendering

- Create shadows for the light.
- Multiple lights can be created. Planes for wherever shadows are required.
- Can be used in a similar manner to composite models in videos.
- Compositing might also include that dinosaur there that never was. A meteor hitting earth 100 meters behind Jim Carrey.  
(Lots of mainstream uses)

# Animation Formats

- FLV
- F4V
- MPEG-2
- QuickTime
- Windows Media
- AVI
- BWF
- AIFF
- JPEG
- PNG
- PSD
- TIFF
- etc...



# Compression

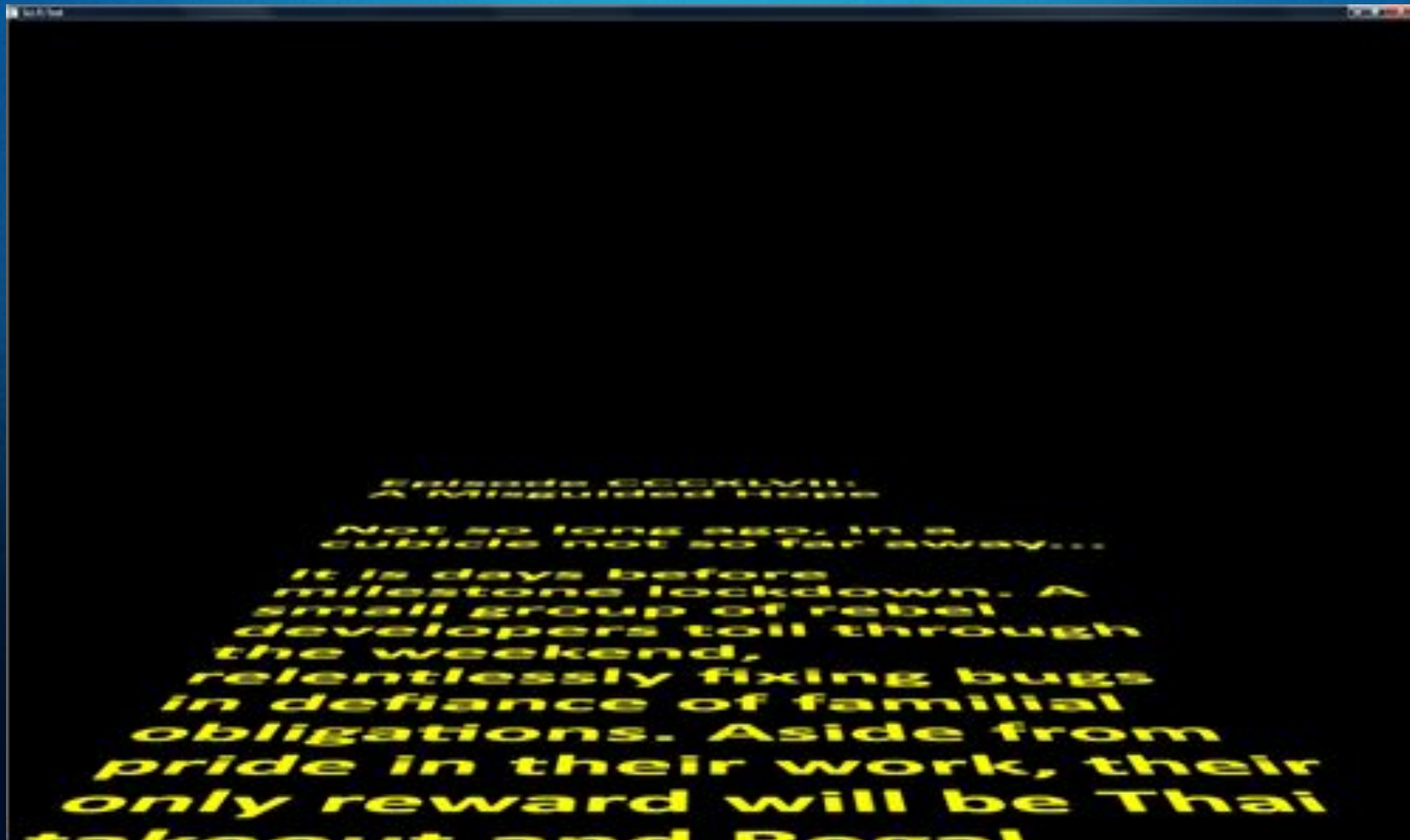
Uncompressed Footage takes up about 17MB for every second of video.



Compression - Involves encoding information using fewer bits than the original representation.

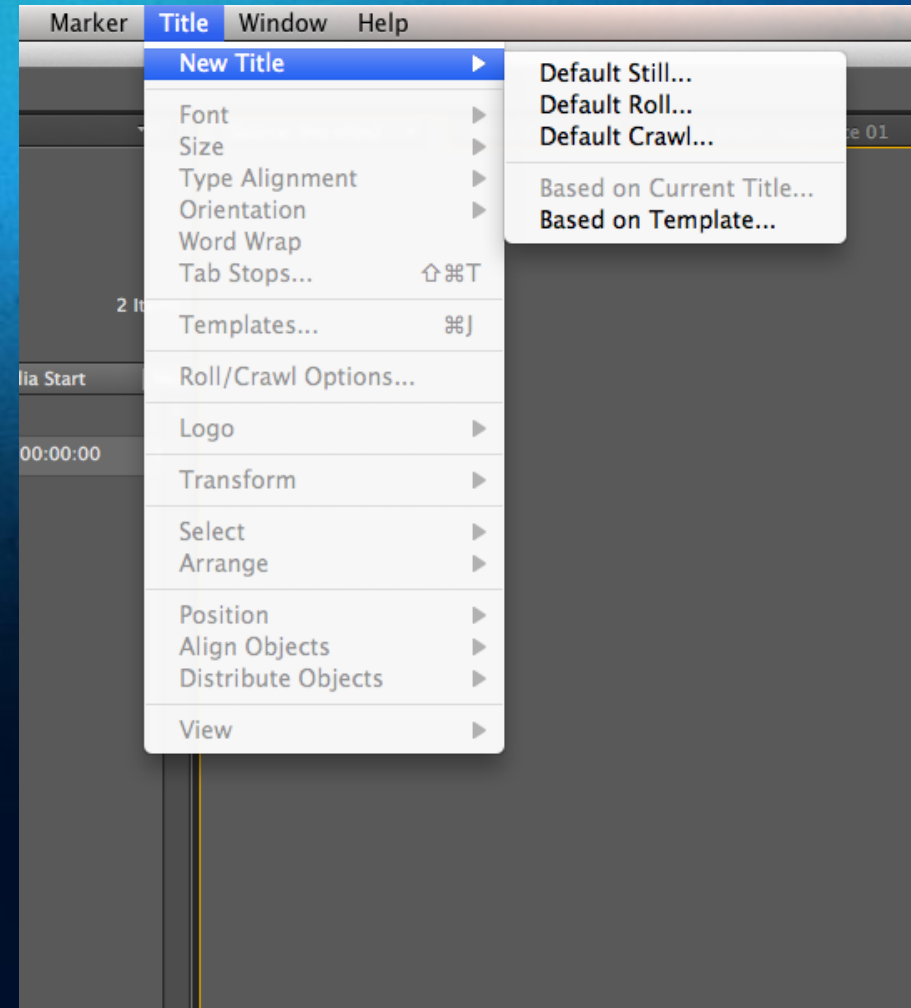
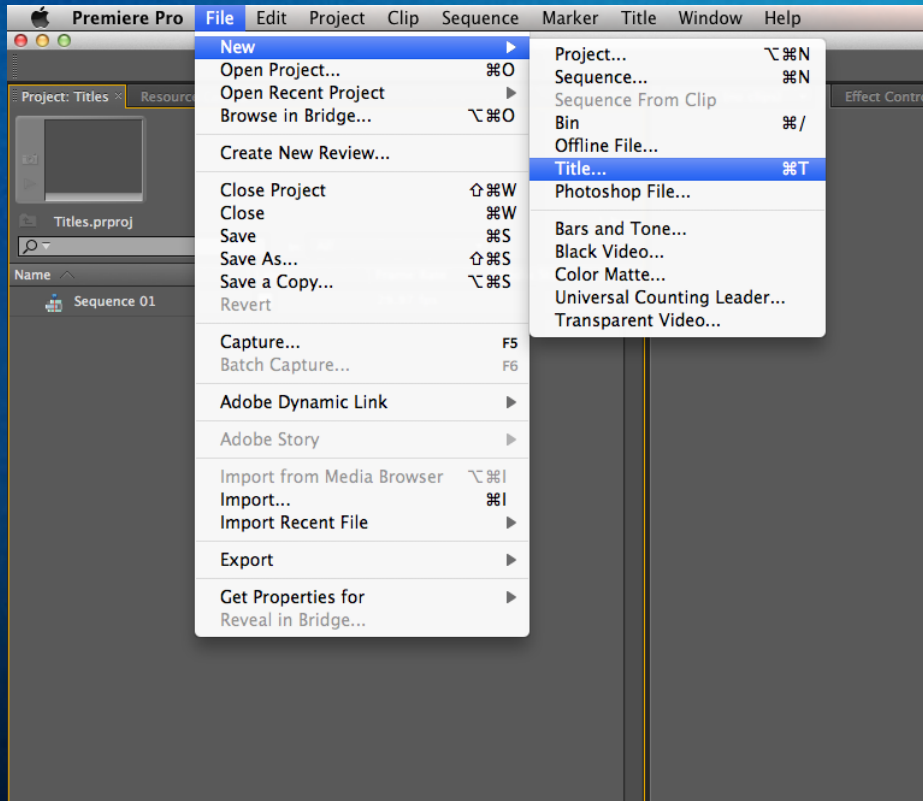
- Advantages
  - Smaller File Format
  - Faster Render Times
- Disadvantages
  - Lower Quality Video

# Titles and Credits





# Titles



# Titles

The screenshot displays the Adobe Premiere Pro interface with a title design in the center. The title features a glowing blue pill shape at the top, the text "SWEET TITLE SCREEN" in a bold, orange, sans-serif font, and "BY: SAM BANTNER" in a smaller, white, sans-serif font below it. A yellow pill shape is positioned at the bottom. The design is set against a black background with a white border.

The right-hand side of the interface shows the "Title Properties" panel, which is expanded to show the "Strokes" section. This section is divided into "Inner Strokes" and "Outer Strokes". The "Outer Strokes" section is further divided into "Outer Stroke" and "Outer Stroke" (likely a typo for "Outer Stroke" and "Inner Stroke" in the original image). The "Outer Stroke" section is expanded to show the "Outer Stroke" properties, including "Type", "Size", "Fill Type", "Color", "Opacity", "Sheen", and "Texture". The "Outer Stroke" is currently set to "Solid" with a size of 12.0 and a color of black. The "Inner Stroke" section is also expanded to show the "Inner Stroke" properties, including "Type", "Size", "Fill Type", "Color", "Opacity", "Sheen", and "Texture". The "Inner Stroke" is currently set to "Solid" with a size of 15.0 and a color of black.

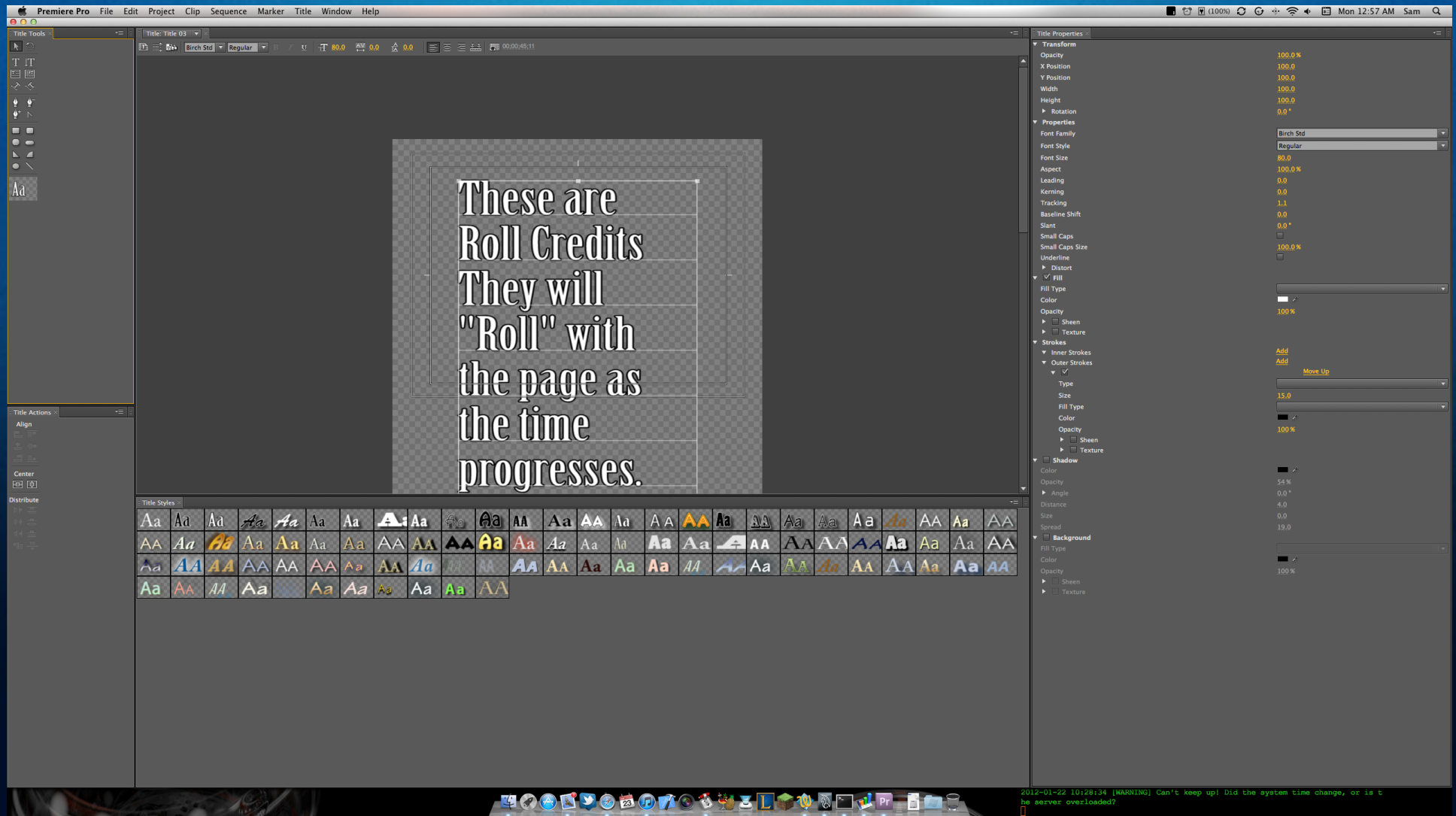
The "Title Styles" panel at the bottom of the interface shows a grid of various title styles, including different fonts, colors, and effects. The "Title Actions" panel on the left side of the interface shows options for "Align", "Center", and "Distribute".

The bottom of the screenshot shows the macOS dock with various application icons, including Finder, Mail, Safari, and Adobe Premiere Pro. A system message is visible in the bottom right corner: "2012-01-22 12:49:34 [WARNING] Can't keep up! Did the system time change, or is the server overloaded?"

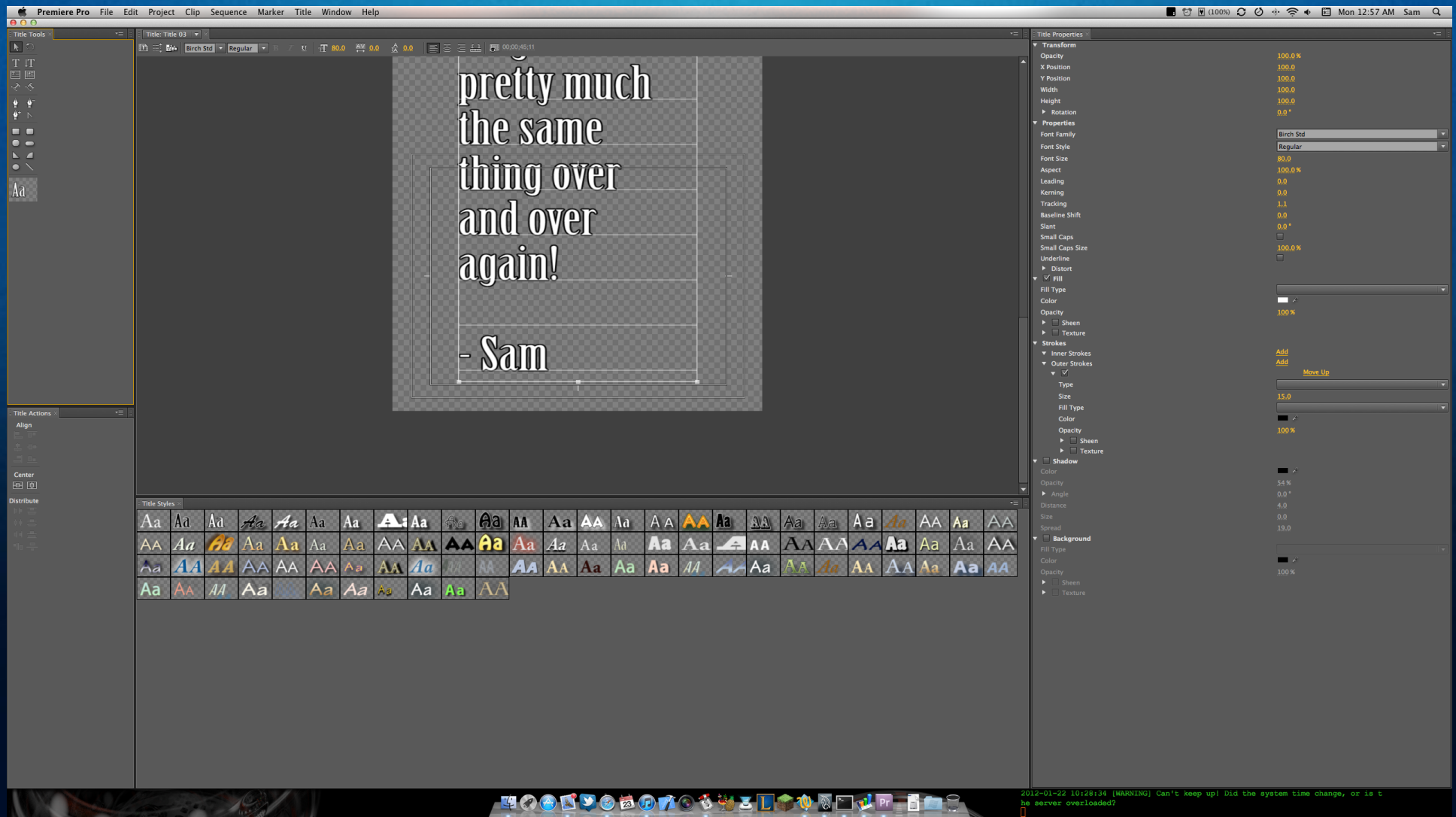
# Credits



# Credits



# Credits



# Titles and Credits

The screenshot displays the Adobe Premiere Pro interface. The main preview window shows a black background with white text that reads: "progresses. We can make them very long so people will have to stay longer and see pretty much". The timeline below the preview shows a sequence named "Sequence 01" with a duration of 00:01:28:23. A title clip is visible in the timeline, with a tooltip showing its start and end times: "Start: 00:00:00:00", "End: 00:01:28:23", and "Duration: 00:01:28:23". The interface includes various panels such as Project, Media Browser, and Audio Mixer.

Name	Label	Frame Rate	Media Start
Sequence 01		29.97 fps	
Title 01			
Title 03		29.97 fps	00:00:00:00

2012-01-22 10:28:34 [WARNING] Can't keep up! Did the system time change, or is the server overloaded?

# Output to a disc

- Adobe Encore CS5 (DVD authoring tool)
  - Part of Adobe Premiere package.
- Can be used to output to all kinds of discs (DVDs, BluRay).
- Can do nearly everything you want in a disc - different audio tracks, subtitles, and slideshows.