



# 3D Animation/Video

## Using the Green Screen Effect

To combine animation and video you will need to know how to use the Green Screen Effect. This handout is for the purpose of teaching you how to use the Green Screen. When someone or something is photographed in front of a green or blue screen the green (or blue) can be filtered out so that only the object will be seen. Thus you can overlay a video over another video to combine the two together. The Animation Master program has a way to do that so that you can put animation into a “real” scene. How to do that can be learned from the “Render to File” handout. This handout is for you to be able to put “real” video into an animation scene.

**Video for Green Screen:** Check out a video camera and do two different videos. One video should use the Green background that we have in the studio. Make sure you lighting is as even as you can get. The other video can be done any where else. Upload the video clips to Final Cut Express using the “Capture” that you have done previously. Add the clips to the time line with the Green Screen clip placed on the track above the non-Green clip. Now you will be ready to make the Green Screen Effect. **Screen Shot showing the clips in the time line.**

**Video Filters:** You’ve experienced filters in Photoshop and saw how they can change or enhance the image in various ways. Final Cut also has filters that can do various things. We will be using a couple to work with the Green Screen. To locate the video filters you click on the “Effects” tab in the “Browser” window usually located on the left side of the screen. **Screen Shot showing the “Effects” tab open.**

**Color Smoothing Filter:** We will start with the “Color Smoothing Filter” which will help to smooth out the colors a little better for getting all the green. Go to Video Filters>Key in the Effects tab. Locate “Color Smoothing Filter- 4:1:1” and click on it and drag it onto the clip that you are going to apply the Green Screen Effect to. Then click on the “Filters” tab in the “Viewer” window which should be the upper center window. Then double click on the clip that you just applied the filter to. You should now see “Color Smoothing 4:1:1” below “Video Filters” in the “Viewer” window. That shows that the filter was applied to the clip.

**Chroma Keyer filter:** Next you can click on the “Chroma Keyer” filter and drag it onto the clip that you put the previous filter. You should see it show up under



Fig. #1 Settings the “Color Smoothing” filter. You must have the “Color Smoothing” filter as the top filter. Click on the “Visual” button. See Fig. #1. A window will appear in the “Viewer” window that will look like Fig. #2. Click on the “Select Color” button, see Fig. #2. You will have a eye dropper type tool. Click on the green color in the “Canvas” window and you will see that a large amount of the color will disappear and the clip underneath will begin to show through.

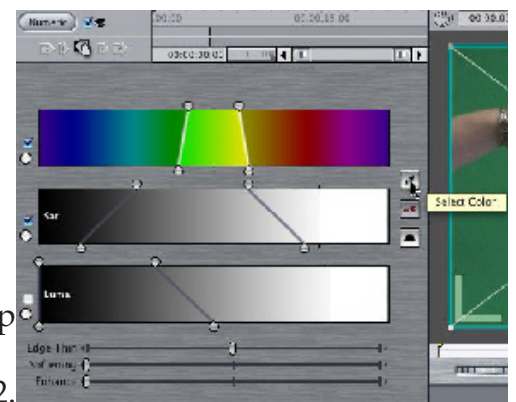


Fig. #2 Select Color

You will probably notice that not all the green has disappeared. Here's where the rest of the "Chroma Keyer" window will be used. In Fig. #3 you can see that I've move some of he sliders to get more of the green to disappear. Move the sliders to get more of the green to disappear. The rainbow color row is for getting a greater variety of greens that will disappear. The "Luma" row helps to increase the value of green that is selected. the "Sat" row adds the saturation of the greens to the green that will disappear.

If you see a thin line of green around the part of the clip that didn't disappear you might want to adjust that some by using the "Edge Thin" slider near the bottom of the window. This helps to get rid of those green lines.

Move the sliders until you have the green removed as best as you can get it. **Screen Shot showing the "Chroma Keyer" window with your final settings.**

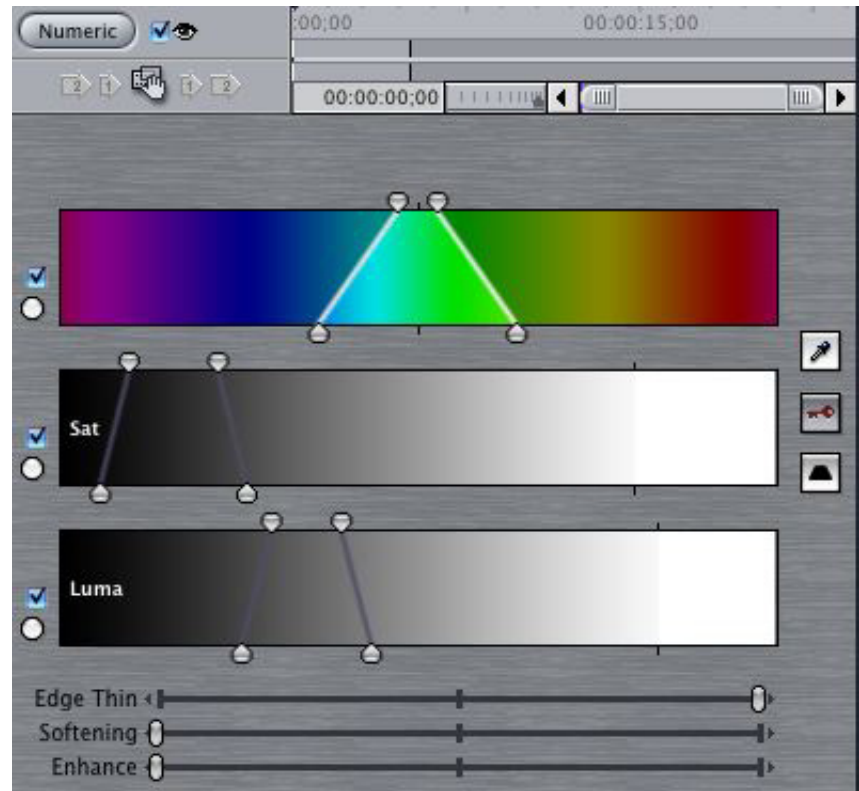


Fig. #3 Color Range

### Turning in the Assignment:

Finish rendering the movie as you have previously learned and then use the "Making the Project into a Movie" handout to make the final movie. Turn in the final movie in the Drop Box and both evaluation sheets for the lesson and the "Making the Project into a Movie" lesson.

For this assignment you will have the following items in your folder.

1. Screen shot of movies on time line with "Green Screen" one above the other.
2. Screen shot showing "Effects" tab open.
3. Screen shot showing the final settings for the "Chroma Keyer" window.
4. Final Quicktime of the movie.