

GREEN SCREEN FOR VIDEO

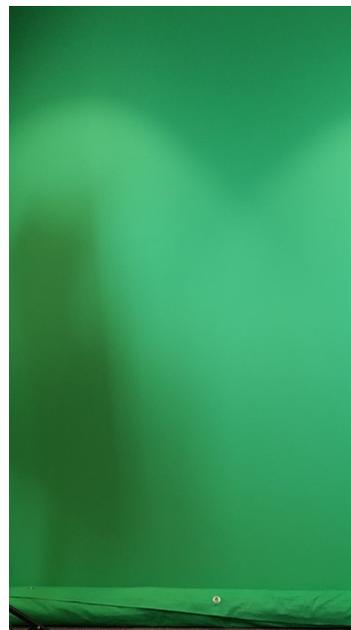
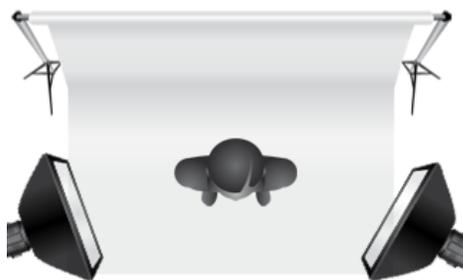
Introduction

Green screening, or **Chroma Keying** is a special effect, used in both movies and photography, where a subject is filmed against a background of a single color, (usually green or blue,) and that color is removed digitally, leaving your subject as a layer with a transparent background.

Lighting

Lighting is probably the most important aspect to make your green screen work. Both the subject and the green screen should be well lit. An evenly lit background can save a ton of time later when removing the screen. You will know your green screen is evenly lit when it is all the same shade of green.

Have your subject stand far enough way from the green screen so the green doesn't reflect or "spill" on them.



Unevenly Lit



Evenly Lit

For a simple project, you can use a minimum of two lights. Place lights on either side of the green screen, a few feet back, on a 45 degree angle.

For more advanced lighting options, the internet is full of great tutorials for green screen lighting.

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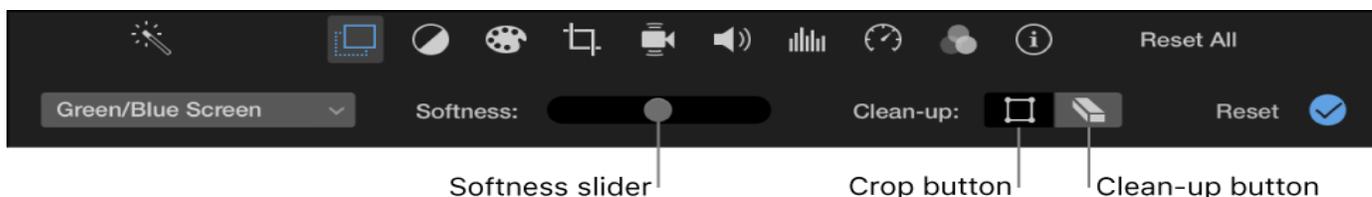
Chroma Keying



In iMovie (Creative Studios & Silent Computer Lab Macs)

In the timeline, select your green screen clip and drag it above a clip in your project that you want to be the background of your video. When you see the green Add icon (+), release the mouse button. If the video overlay controls aren't shown, click the Video Overlay Settings button.

Click the pop-up menu on the left and choose Green/Blue Screen. The color that iMovie removes is based on the dominant color in the frame when you choose Green/Blue Screen from the pop-up menu.



There are two ways to further remove and adjust your green screen:

- Adjust the softness of the edges of the superimposed clip: Drag the Softness slider.
- Click the Clean-up button, and then drag across stray parts of the green-screen or blue-screen clip that should not be showing.

To apply the changes, click the **Apply** button in the Green/Blue Screen controls.



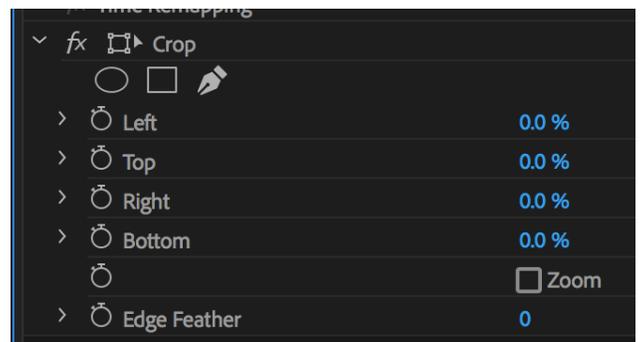
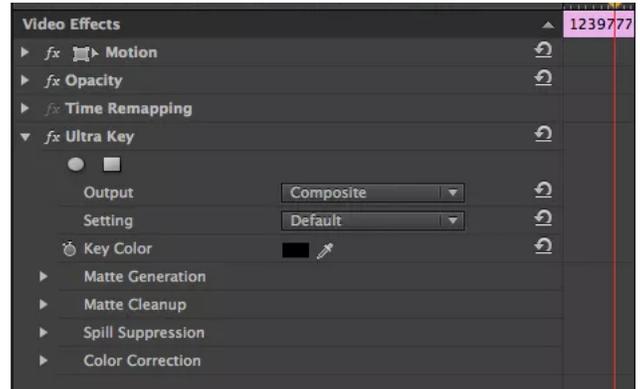
In Adobe Premiere Pro (Creative Studios)

In your sequence, place your green screen clip above the clip that you want to be the background of your video. From the Effects tab, drop the **Ultra Key** effect onto your clip. In the **Effects Control** tab. Use the eyedropper (Key color) to select the green color from the preview window.

GREEN SCREEN FOR VIDEO

There are a couple of ways to further clean up your green screen

- Play with the numbers under **Matte Generation** until all the 'noise' is gone. Usually your green screen backdrop isn't perfect. So shadows and highlights won't be 'keyed out' until you make adjustments with the Matte Generation.
- Use the **Matte Cleanup** options to affect the edges of your objects.
- **Choke** will shrink the edges, while **Soften** will make the edges more fuzzy.
- Use **Spill Suppression** to adjust the edge colors of your subject. Sometimes when shooting in front of a green screen, a green reflection will make your subject appear slightly tinted green. Spill Suppression can fix this problem.
- When in doubt, try the **Crop** effect. You may not need to eliminate all of the background because you can just crop it out. Just make sure that your subject or any part of your subject never gets cropped out of frame. This is used best when your subject isn't moving around.



In Adobe After Effects (Creative Studios)

Create a new composition by dragging your video clip into the 'Composition' icon. Place Your Green Screen Footage Over Your Background. In **Effects & Presets** find the **Keylight** effect. Drag and drop it on to your green screen clip.

GREEN SCREEN FOR VIDEO

In the effects panel, use the **eye dropper** to select your color. In the View dropdown menu, change the setting from Final Result to Combine Matte. This will allow you to better see your color key. Keyed-out pixels will be black. Visible pixels will be white.

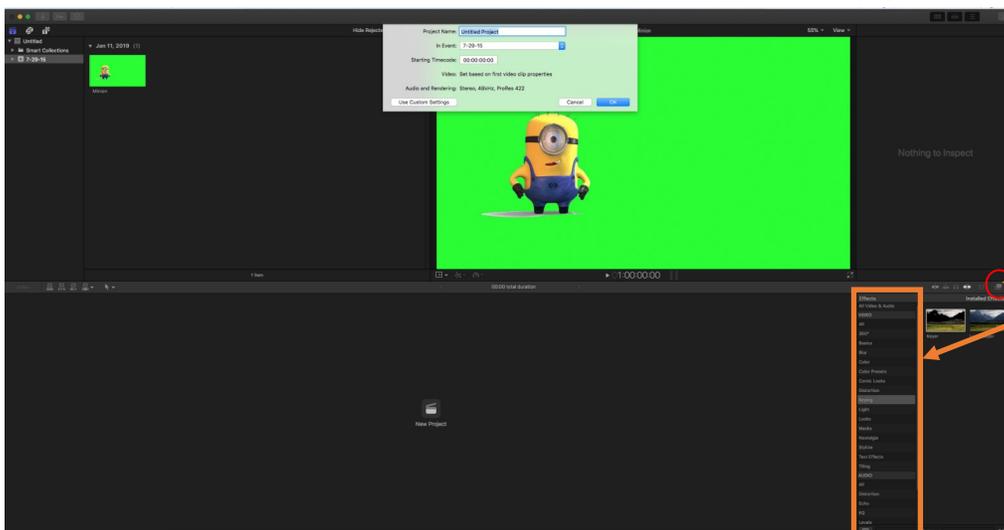
In the dropdown menu titled Screen Matte, you will see a few adjustable settings.

- Increase the **Clip Black** to help get rid of shadow noise.
- Decrease *Clip White*
- Adjust **Screen Shrink/Grow** only if necessary.
- Bring 'Screen Despot White' up just a little, 0 – 5 should be great. Just keep an eye on your subjects edges.
- <https://www.rocketstock.com/blog/quick-tip-quick-keying-in-after-effects/>



In Final Cut Pro (Creative Studios)

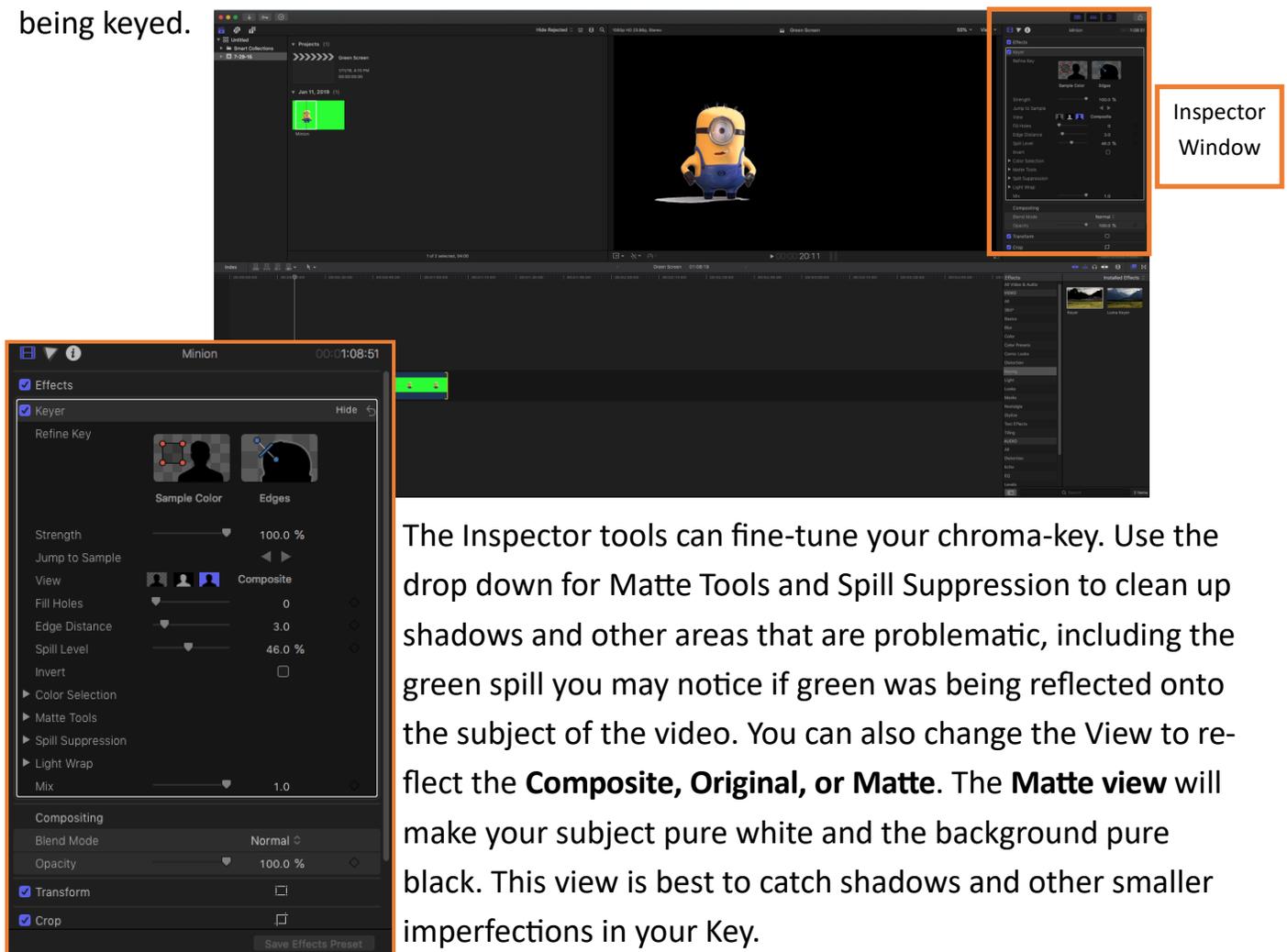
Final Cut is Apple's professional video editing software. This software has effects and controls for chroma-keying a background. To get started **Create a New Project** and **Import any Media** that you would like to use in your project, including the green screen photos or videos. Add clips into your timeline as you would normally edit your footage. **Select the Clip you would like to Key** and locate the **Effects Browser**.



Effects
Browser

GREEN SCREEN FOR VIDEO

- In the Effects Browser locate the “**Keying**” Effect.
- Once footage is added into your timeline, drag & drop the “**Keyer**” onto the clip in the Timeline **OR Select the clip in the Timeline** and note that it is selected by it being **high-lighted in yellow** and then **double-click the Keyer Effect** in the Effects Browser.
- When the **Keyer Effect** is applied, it will automatically detect and key out the solid background color.
- Locate the Inspector Tools to further control this effect or custom-pick the color that is being keyed.



GREEN SCREEN FOR VIDEO

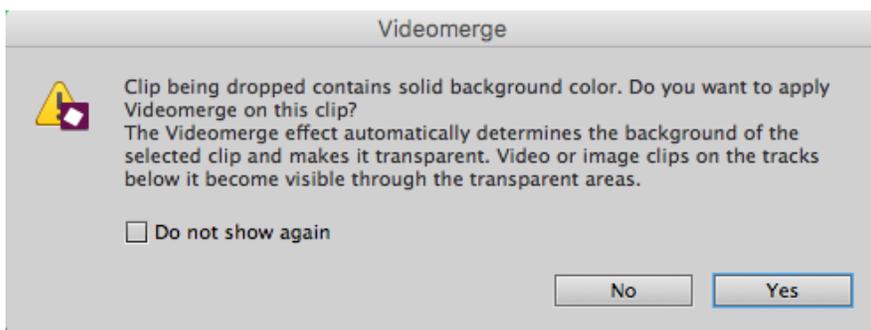


In Premiere Elements 13 (Silent Computer Lab Macs)

Premiere Elements is a consumer level video editor that, unlike its professional version, is available with one-time payment and no subscription.

Premiere Elements has a few different layouts available to users called “**Quick**”, “**Guided**”, and “**Expert**”. **Quick mode** removes many of the fine-tune editing tools and focuses on a timeline with only two layers. Quick mode is great for cutting short videos without adding many effects. **Guided mode** is great for learning step-by-step how to utilize some of Premiere Elements’ editing tools. **Expert mode** allows you the most freedom with editing by providing all of the features and tools the software has to offer. This is a great mode to use if you are already familiar with Premiere Elements or other, similar video editing software.

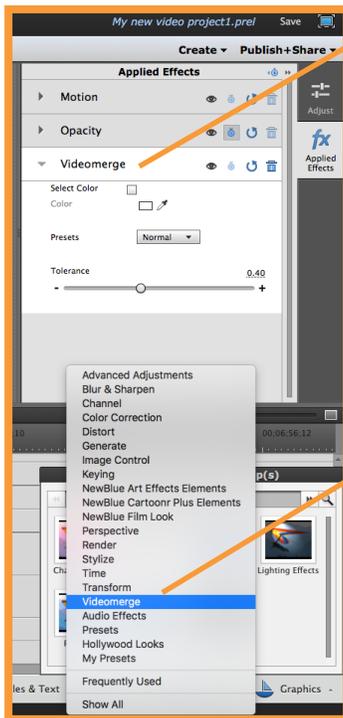
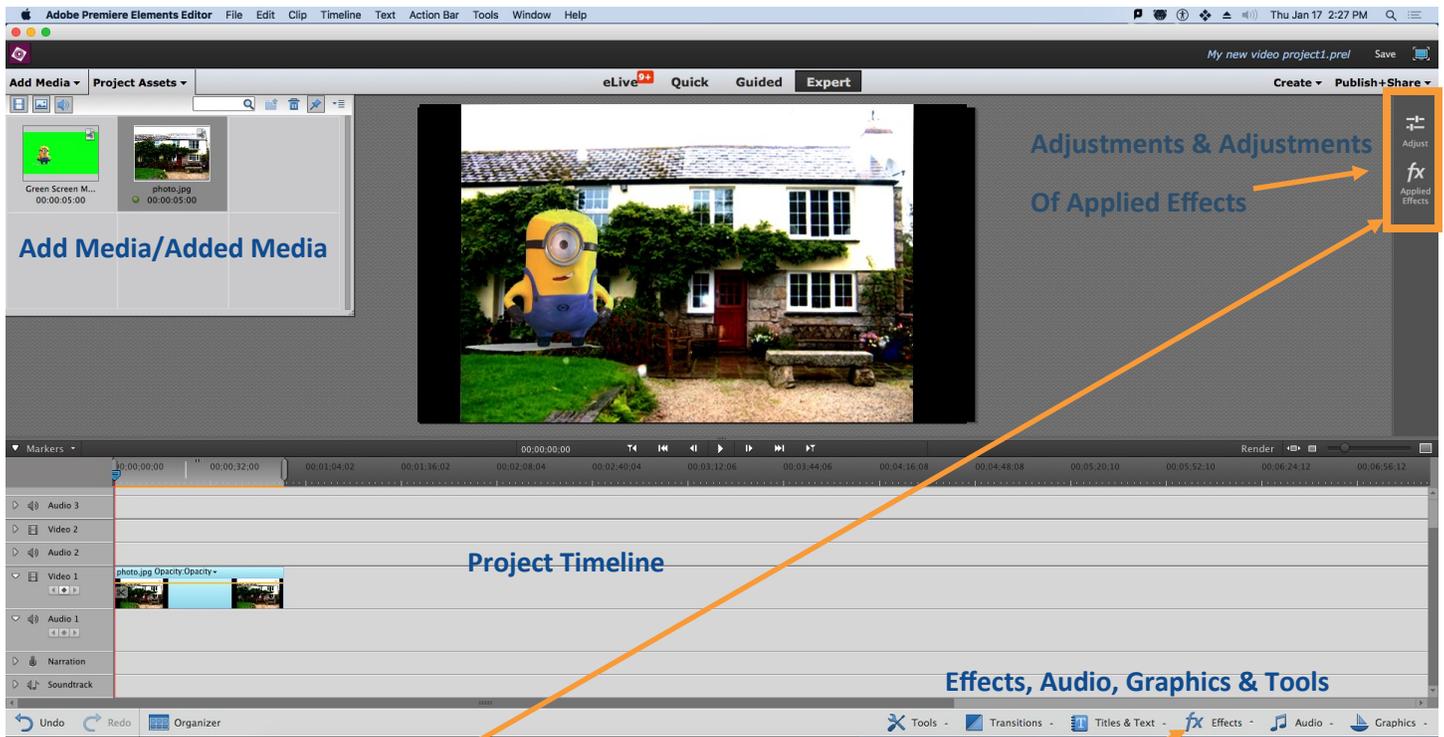
- To take advantage of the Green Screen editing tools, create a new project utilizing the Expert Mode.
- Add Media to your project. If the Media is contained on an external storage device, such as a flash drive, Premiere Elements may prompt you to import the media using their media importer application.
- Add your media into your timeline to begin editing your project.
- The background media should be placed on the lowest layer with the Green Screen footage placed above.
- When adding the Green Screen footage into your timeline, you may see this message.



Videomerge is the term Premiere Elements’ uses for their Keying Effect. Select “Yes” if you would like for the solid color (green screen) to become transparent.

GREEN SCREEN FOR VIDEO

Expert Layout in Premiere Elements 13



The Videomerge effect can be found at the bottom of the editing screen for Effects > Videomerge. The Videomerge effect can then be adjusted by selecting the Applied Effects icon located on the right-side of the window.