

Intro to Video Editing I

Week 13: 12/01/2018

Queens College Art Department | Fall 2018

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Keying

Types of Keys:

- **ChromaKey** – removing the background an image according to chrominance, i.e, removing bluescreen or greenscreen from an image in order to composite the image over another background, eg. Whether channel
- **LumaKey** – removing the background of an image according to lumincance, i.e removing blacks or whites in an image to be composited over another background, e.g keying clouds over another image or a vignette

Alpha Mattes



Green Screen Image



Alpha Channel Matte before
adjusting Key



Composite Image



Alpha Channel Matte after
adjusting Key

Alpha Mattes

A matte defines the transparent or opaque pixels of an image. White areas are opaque and black areas are transparent.

Chroma Key in Premiere

- Place the greenscreen footage on a video track above the desired background to be revealed in timeline.
- Apply the **Ultra Key** from the Effects panel onto the footage to be keyed.
- With the **Key Color picker** select an average green pixel to key out
- Under **Matte Generation** adjust **Highlights** and **Shadows** to get a clean matte – whites should be pure white and blacks should be pure black. If necessary select a different pixel to key out for a cleaner matte to begin with. Adjust **Tolerance** to remove more or fewer shades of green and **Pedestal** to remove noise for a cleaner matte.
- Under **Matte Cleanup** adjust **Choke** and **Soften** to remove outline and **Contrast** and **Midpoint** to remove unwanted shadows and highlights.

To refine your key further:

- Under **Spill Suppression** adjust **Spill** to flood some of the background green color onto the edges of the keyed image.
- Under **Color Correction** adjust the keyed image match the background video revealed or even better use **Lumetri** Color Correction

Alpha Matte in Premiere

Premiere Pro CC File Edit Clip Sequence Markers Graphics Window Help

/Users/sofia/CLASSES/Queens College_ARTS 207 /ARTS 207 INTRODUCTION TO VIDEO EDITING/week 15/Ex_Files_Grn_Scrn_Wrkflw/Exercise Files/Project Files/1_1_Keying_PP_Start.prproj *

Source: (no clips) Effect Controls Audio Track Mixer: 1 Where to Key Metadata

Master * watch 1 Where to Key * watch

fx Ultra Key

Output Alpha Channel

Setting Custom

Key Color

Matte Generation

Transparency 45.0

Highlight 10.0

Shadow 50.0

Tolerance 50.0

Pedestal 14.0

Matte Cleanup

Choke 14.0

Soften 3.0

Contrast 0.0

Mid Point 50.0

Spill Suppression

Desaturate 25.0

Range 50.0

Spill 50.0

Luma 50.0

Color Correction

Saturation 100.0

Hue 0.0

Luminance 100.0

Program: 1 Where to Key

00;00;03;27 Fit Full 00;00;20;01

00;00;03;27

Keying_PP_Start Media Browser Info Effects Mar

key

Difference Matte

Image Matte Key

Luma Key

Non Red Key

Remove Matte

Track Matte Key

Ultra Key

1 Where to Key

00;00;03;27

V3 V2 V1 A1

fx watch

fx plate1.tif

00;00;04;00 00;00;08;00 00;00;12;00 00;00;16;00 00;00;20;00 00;00;24;00 00;00;28;00

0

-12

-24

-36

-48

dB

Keyed Composite in Premiere

Premiere Pro CC File Edit Clip Sequence Markers Graphics Window Help

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Transparency 45.0

Highlight 10.0

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Pedestal 14.0

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Contrast 0.0

Mid Point 50.0

Spill Suppression

Desaturate 25.0

Range 50.0

Spill 50.0

Luma 50.0

Color Correction

Saturation 100.0

Hue 0.0

Luminance 100.0

Program: 1 Where to Key

00;00;03;27 Fit Full 00;00;20;01

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Difference Matte

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1 Where to Key

00;00;03;27

V3

V2

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A1

fx watch

fx plate1.tif

00;00;04;00 00;00;08;00 00;00;12;00 00;00;16;00 00;00;20;00 00;00;24;00 00;00;28;00

0 dB

Keying Tutorials

How to use Key in Premiere Pro

<https://www.lynda.com/Premiere-Pro-tutorials/When-key-Premiere-Pro/504265/712206-4.html>

Using the Ultra Keyer in Premiere Pro

<https://www.lynda.com/Premiere-Pro-tutorials/Using-Ultra-Keyer/504265/712214-4.html>

Refining the Ultra Keyer

<https://www.lynda.com/Premiere-Pro-tutorials/Refining-Ultra-Keyer/504265/712215-4.html>

Understanding Luma Keys

<https://www.linkedin.com/learning/premiere-pro-cs5-5-compositing/understanding-luma-keys>

Chroma Key in Premiere

When greenscreen footage is low quality it is best to optimize the footage before keying using a soft blur filter and color correction:

- From the Effects panel choose **Channel Blur** to soften edges in sensitive areas especially around hair and remove noise.
- Add **Lumetri Color** Effect and adjust **Hue Saturation Curves** to enrich green values

How to get the best key in Adobe Premiere Pro

<https://www.lynda.com/Premiere-Pro-tutorials/How-get-best-key-Adobe-Premiere-Pro/504265/712216-4.html>

Chroma Key in After Effects With Dynamic Link

For a more professional key you can use **Keylight** in After Effects.
Then use **Dynamic link** to interface with Premiere:

- Select a clip in Premiere
- Right click and choose **Replace with After Effects Composition**
- Use **Keylight** effect in **AE** with Advanced Spill Suppression preset and **Lumetri Color** effect to correct image
- back in Premiere right click on clip and **Render and Replace.**
- Use shortcut **Cmd+E** in Premiere to edit original in AE

Using Dynamic Link

<https://www.lynda.com/Premiere-Pro-tutorials/Using-Dynamic-Link/504265/712220-4.html>

Garbage Mattes

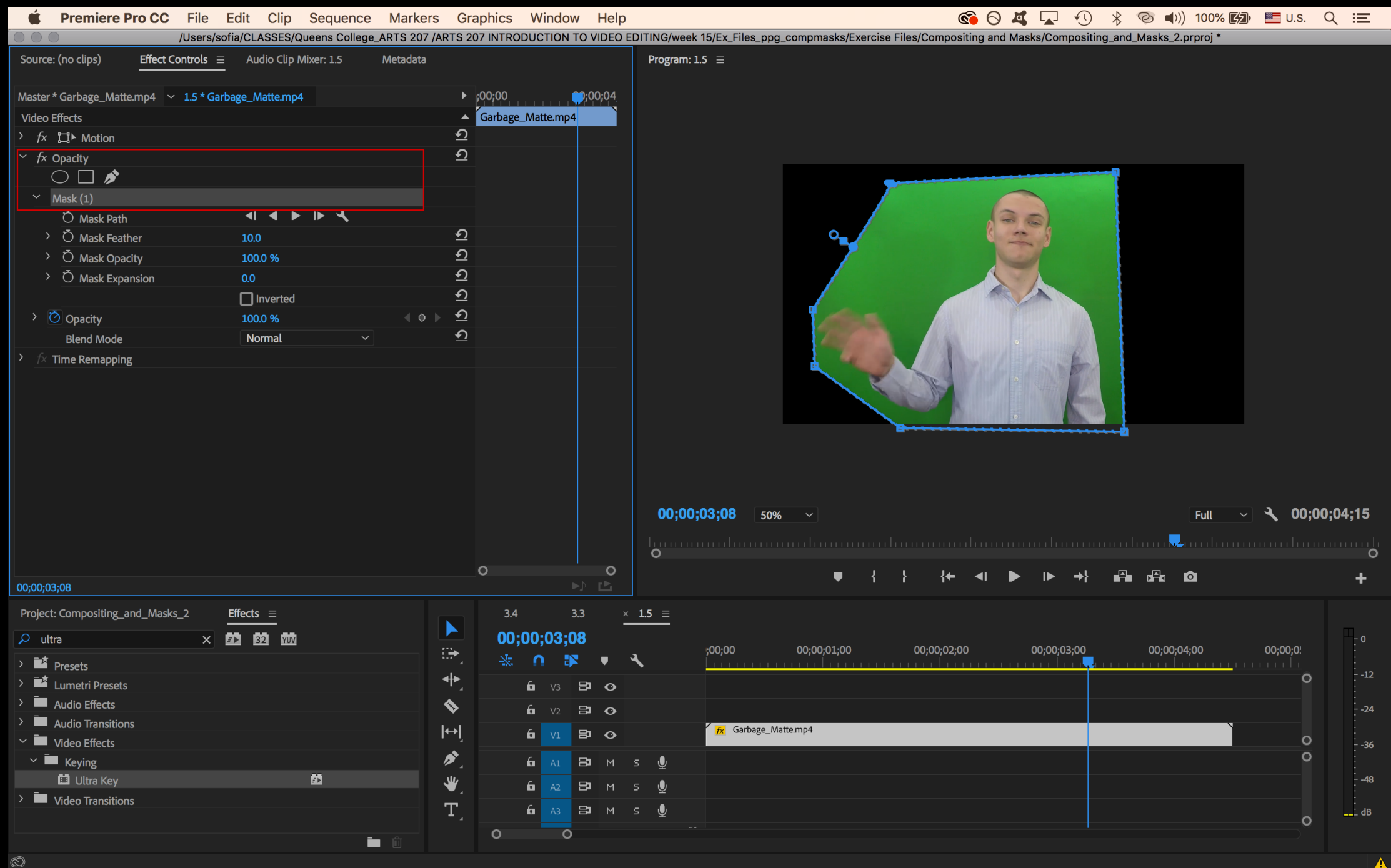
A garbage matte is used when the green screen does not cover the whole background of the subject or object to be keyed and there are areas in the green screen that need to be removed. These areas are removed using a garbage matte. Multiple garbage mattes can be used for different problem areas. A mask can serve as the reverse of a garbage matte leaving out problematic areas from image to be keyed.



Garbage Mattes

To create a garbage matte (the reverse of it):

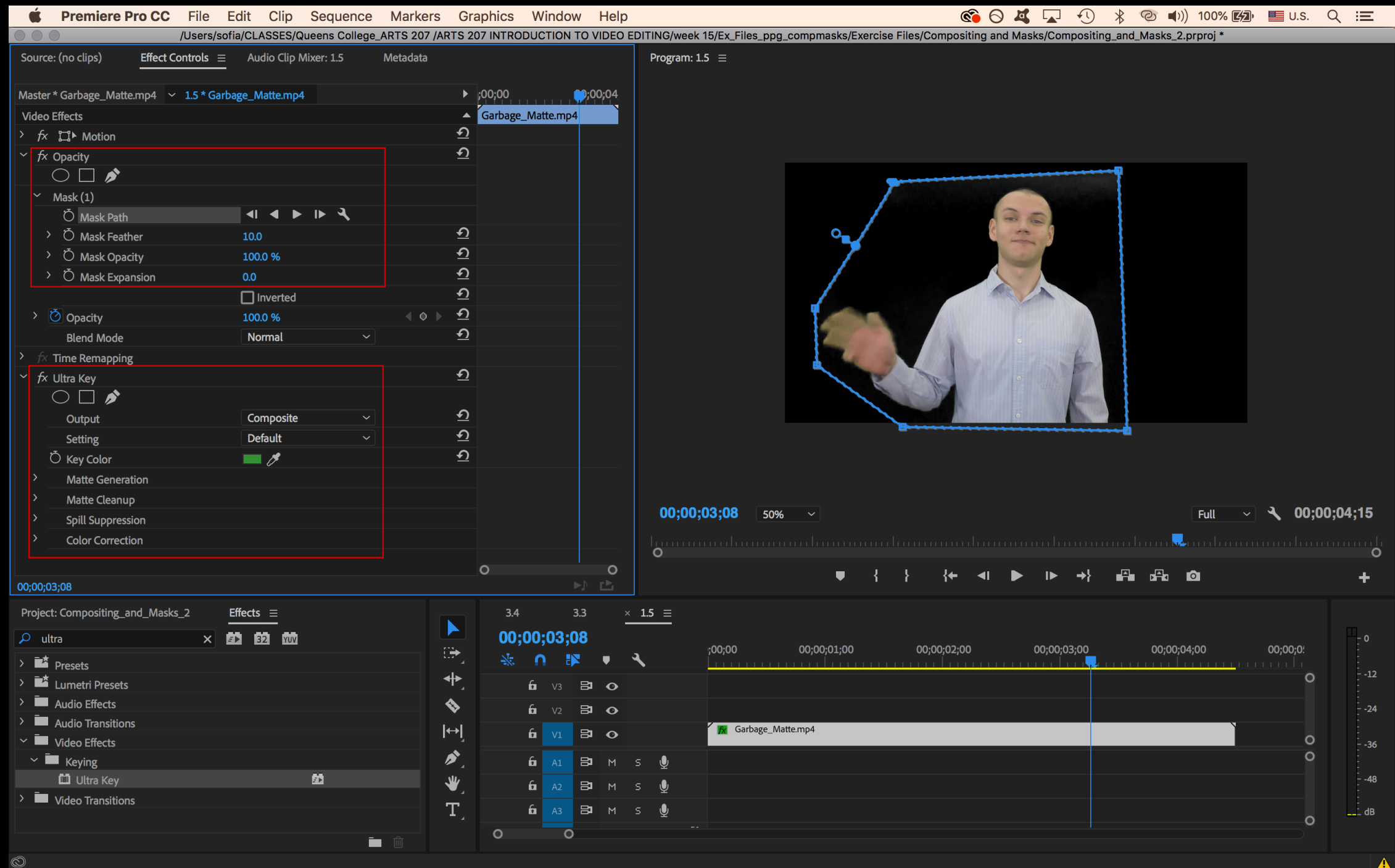
- Select the footage with the green screen
- In **Effect Controls** window, under **Opacity** create a **mask** around the areas of the green screen to be keyed leaving out areas to be removed



Garbage Mattes

To apply a key on masked image:

- Apply the **Ultra Key** effect
- If necessary **keyframe** the **mask** and/or **garbage mattes** in time using Scale and Position to follow motion of problematic areas in time



Masks Vs Alpha Mattes

As opposed to the mask which is applied on a single video layer, a matte is applied on a separate layer on top of video footage. It is useful for example to blur the face of a person or a logo.

Difference between masks and mattes

<https://www.lynda.com/Premiere-Pro-tutorials/Whats-difference-between-track-mattes-masks/372918/387788-4.html>

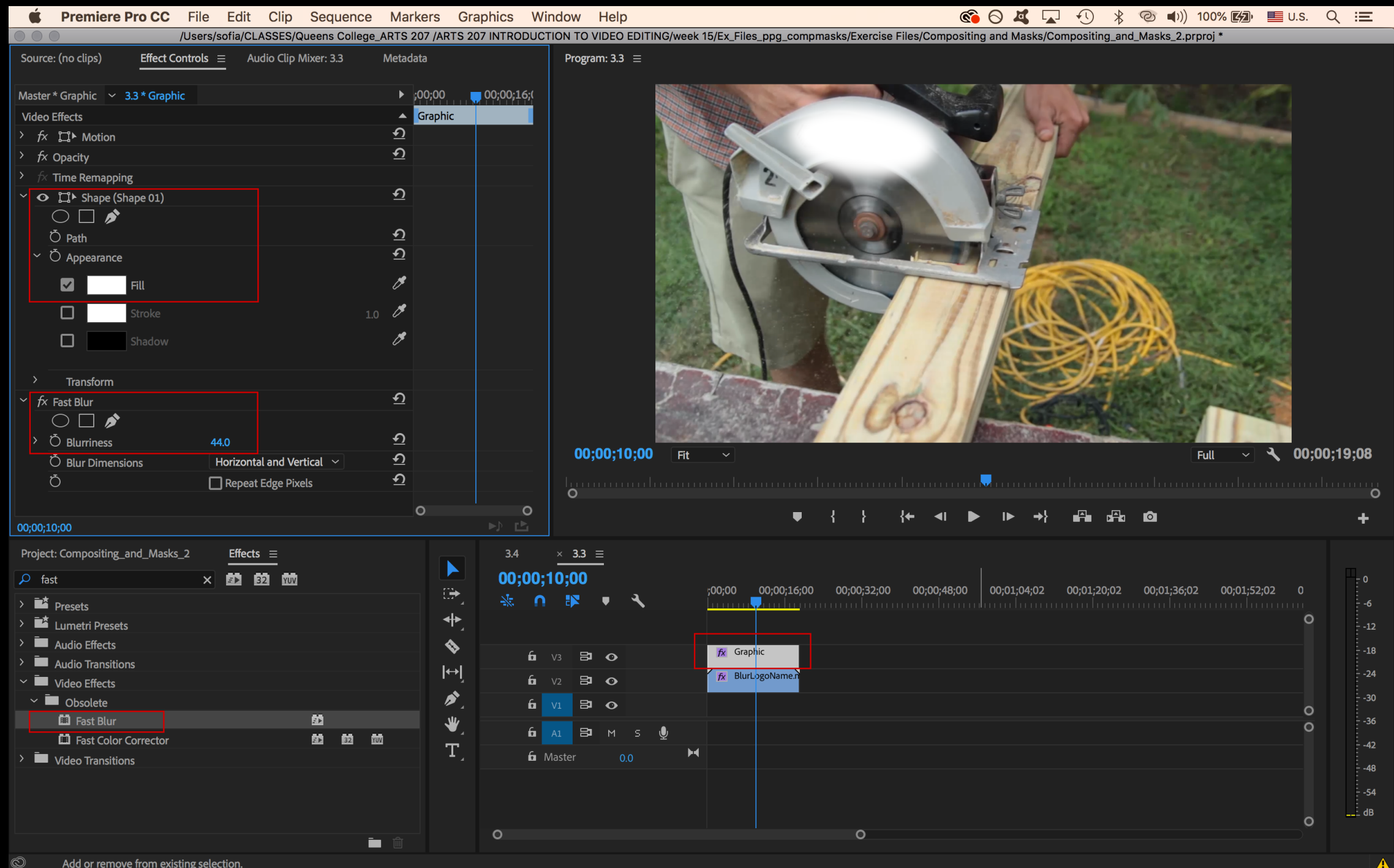
Adjusting the motion of a matte

<https://www.lynda.com/Premiere-Pro-tutorials/Adjusting-motion-matte/372918/387790-4.html>

Track Matte Key

To create a Matte:

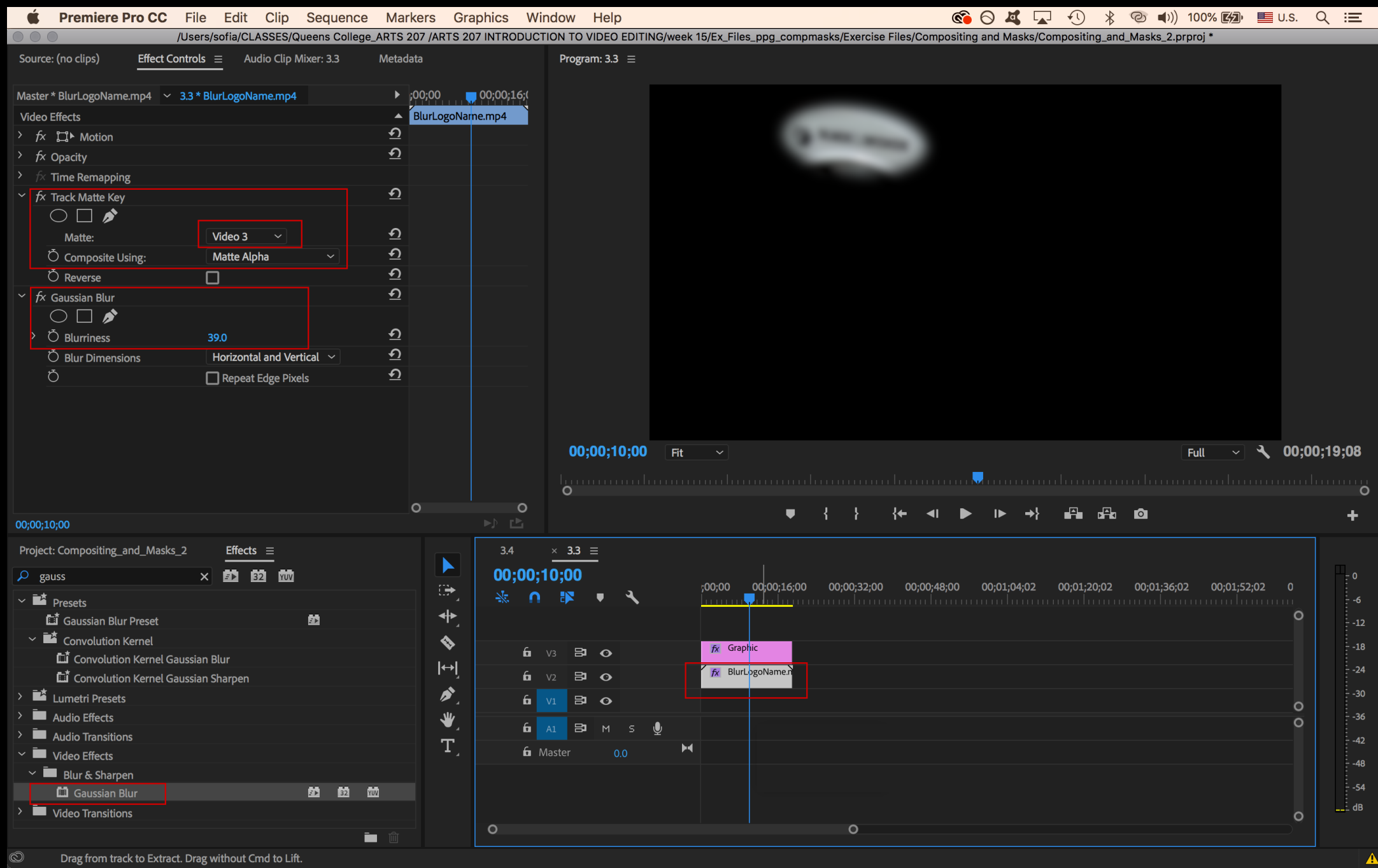
- In **Graphics menu** create an **ellipse**, on the video track above the original footage. Scale and rotate the ellipse to fit the shape of the logo or face you want to blur in the footage
- In **Effects panel** choose **Fast Blur** effect and apply on the **ellipse matte** to blur its edges



Track Matte Key

To create a Matte:

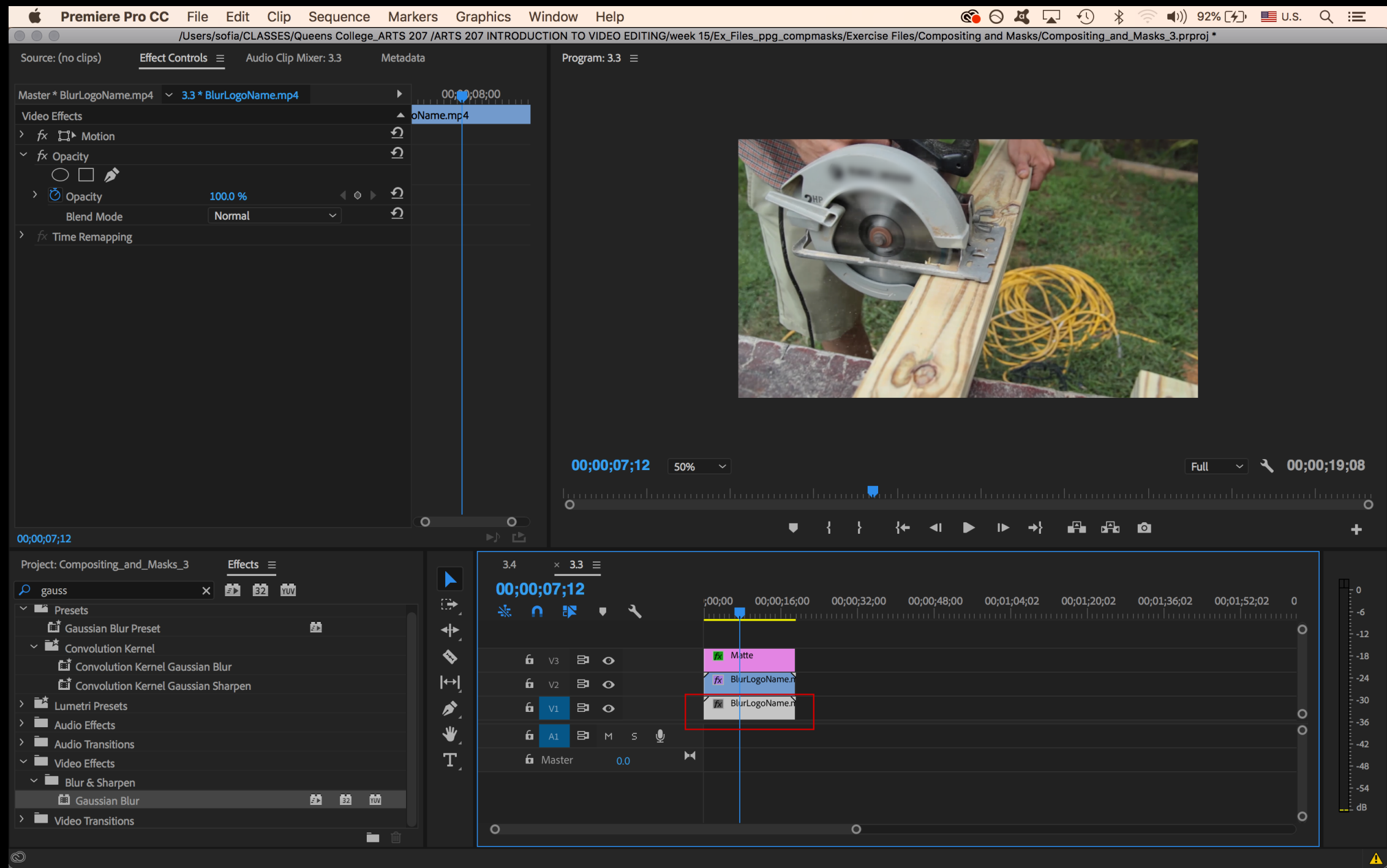
- With the footage video track selected in timeline apply a **Track Matte Key**
- In **Effect Controls** window, under **Track Matte Key**, go to **Matte** and from pull-down menu **select the video track** where the matte is placed in timeline.
- Apply a **Gaussian Blur** effect on the video footage to blur the logo or face.



Track Matte Key

To create a Matte:

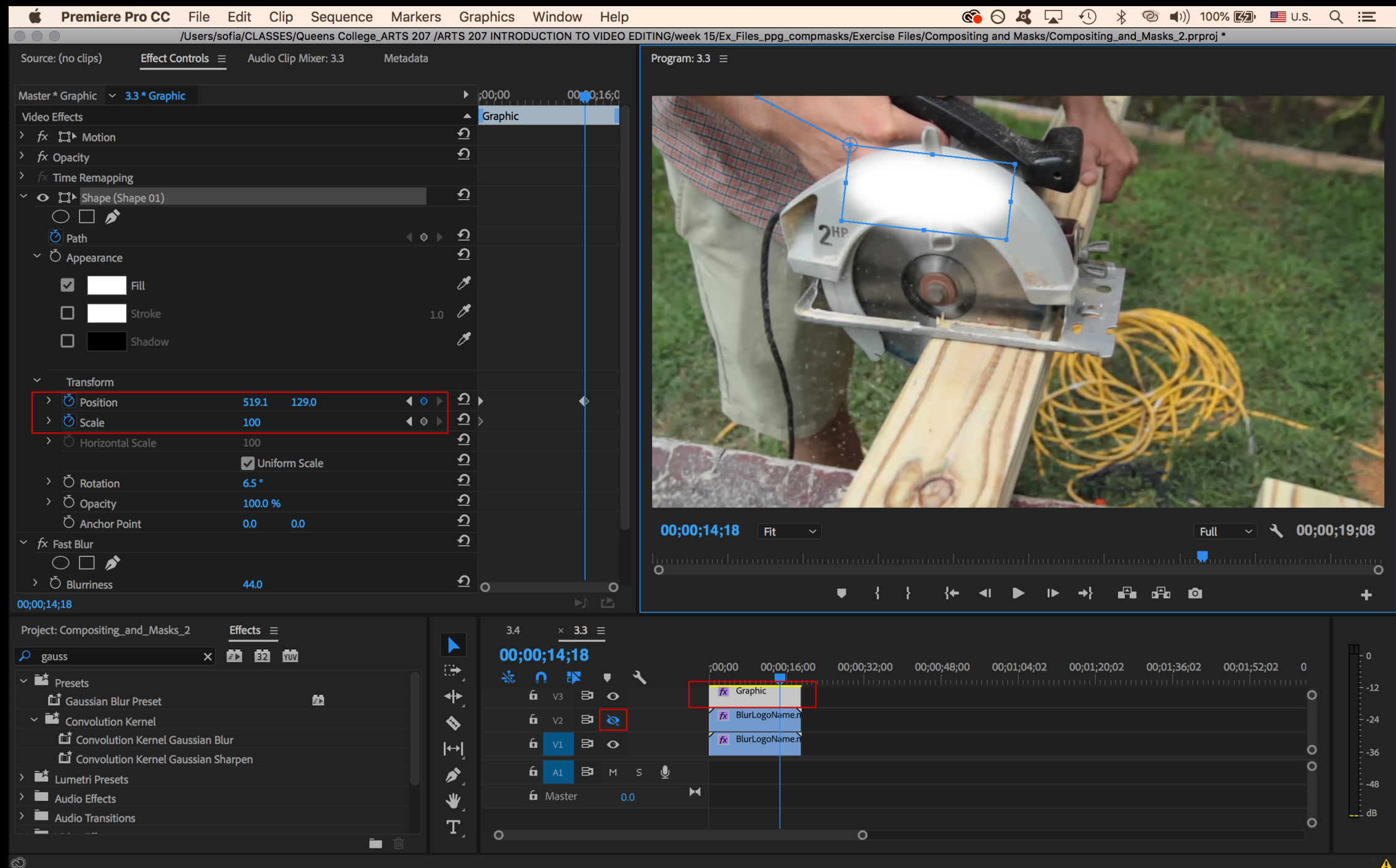
- Duplicate the video footage and place a copy of it underneath the video layer with the track matte.
- Remove all effects from duplicate copy to see the video background image.



Track Matte Key

To create Track Matte that follows the motion of the logo or face:

- Hide the video layer with **Track Matte** in the timeline in order to see the original ellipse matte
- Select the **Matte (ellipse)** in timeline and in **Effect Controls** window, under **Transform**, keyframe **Position** and **Scale** across time to follow the motion of face or logo to blur.



In Class Effects

Vignettes on Black video

Fast Blur

Crop

Generate circle

Lumetri Color Curves for creating a Day-for-Night shot

Opacity Blend Modes

Garbage Mattes

Track Mattes

Ultra Key

Export a still frame from Program Monitor - Shift+E

Program Monitor

- Alpha
- Transparency
- Composite

Timeline: Work Area Bar

More Effects Tutorials

Vignettes on Black video with Generate circle

<https://www.lynda.com/Premiere-Pro-tutorials/Creating-vignette/59974/64719-4.html>

Compositing with Blend Modes

<https://www.lynda.com/Premiere-Pro-tutorials/Compositing-blend-modes/59974/64713-4.html>

Audio Mixing

Audio Clip Mixer

Audio Track Mixer

Audio Transitions

Audio Transitions

<https://www.lynda.com/Premiere-Pro-tutorials/Understanding-audio-transitions/418836/443749-4.html>

Audio Clip Mixer and Audio Track Mixer

<https://www.lynda.com/Premiere-Pro-tutorials/Audio-clip-track-mixer-Whats-difference/418836/443750-4.html>

Automation Modes

<https://www.lynda.com/Premiere-Pro-tutorials/Understanding-automation-modes-part-1-Read-write-touch-latch/418836/443751-4.html>