

Intro to Video Editing I

Queens College Art Department | Fall 2019

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Week 12: 11/23/2019

Syllabus Website: introvideo-f19.copperbluemediacom

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ARTS 207 - 01

Saturday 1:00 pm - 4:50 pm

IB 212

Keying, Masks, Mattes

Alpha Mattes

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

Alpha Mattes



Green Screen Image



Alpha Channel Matte
before adjusting Key



Composite Image



Alpha Channel Matte
after adjusting Key

Alpha Matte in Premiere Pro

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

00;00;03;27

00;00;04;00

00;00

Program: 1 Where to Key



00;00;03;27

Fit

Full

00;00;20;01

00;00;03;27

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

00;00;32;00

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

M

S

00;00;03;27

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

00;00;32;00

fx watch

fx plate1.tif

fx watch

fx plate1.tif

0

-12

-24

-36

-48

dB

Chroma Key

Place the green screen footage on a video track above the desired background to be revealed in the timeline.

Apply the *Ultra Key* from the Effects panel onto the footage to be keyed.

In the Effect Controls Panel

- 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
- Contrast and Midpoint to remove unwanted shadows and highlights.

Chroma Key

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.
- Use Color Correction to adjust the keyed image to match the background video revealed or even better use Lumetri Color Correction.

Keyed Composite in Premiere Pro

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 00:00 00:04:00 00:00

fx Ultra Key

Output Composite

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

00:00:00 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 C

0 -12 -24 -36 -48 dB

Keyed Composite in Premiere Pro

When green screen 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

Keying Tutorials

[How to use Key in Premiere Pro](#)

[Using the Ultra Keyer in Premiere Pro](#)

[Refining the Ultra Keyer](#)

Chroma Key in After Effects with Premiere Pro Dynamic Link

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

- Select a clip in Premiere. Right-click and from menu choose Replace with After Effects Composition
- Use Keylight effect in AE with *Advanced Spill Suppression* preset and Lumetri Color effect in Premiere to correct the image
- In Premiere right click on clip and Render and Replace.

Use shortcut Cmd+E in Premiere to edit original in AE

Using Dynamic Link

Garbage Mattes

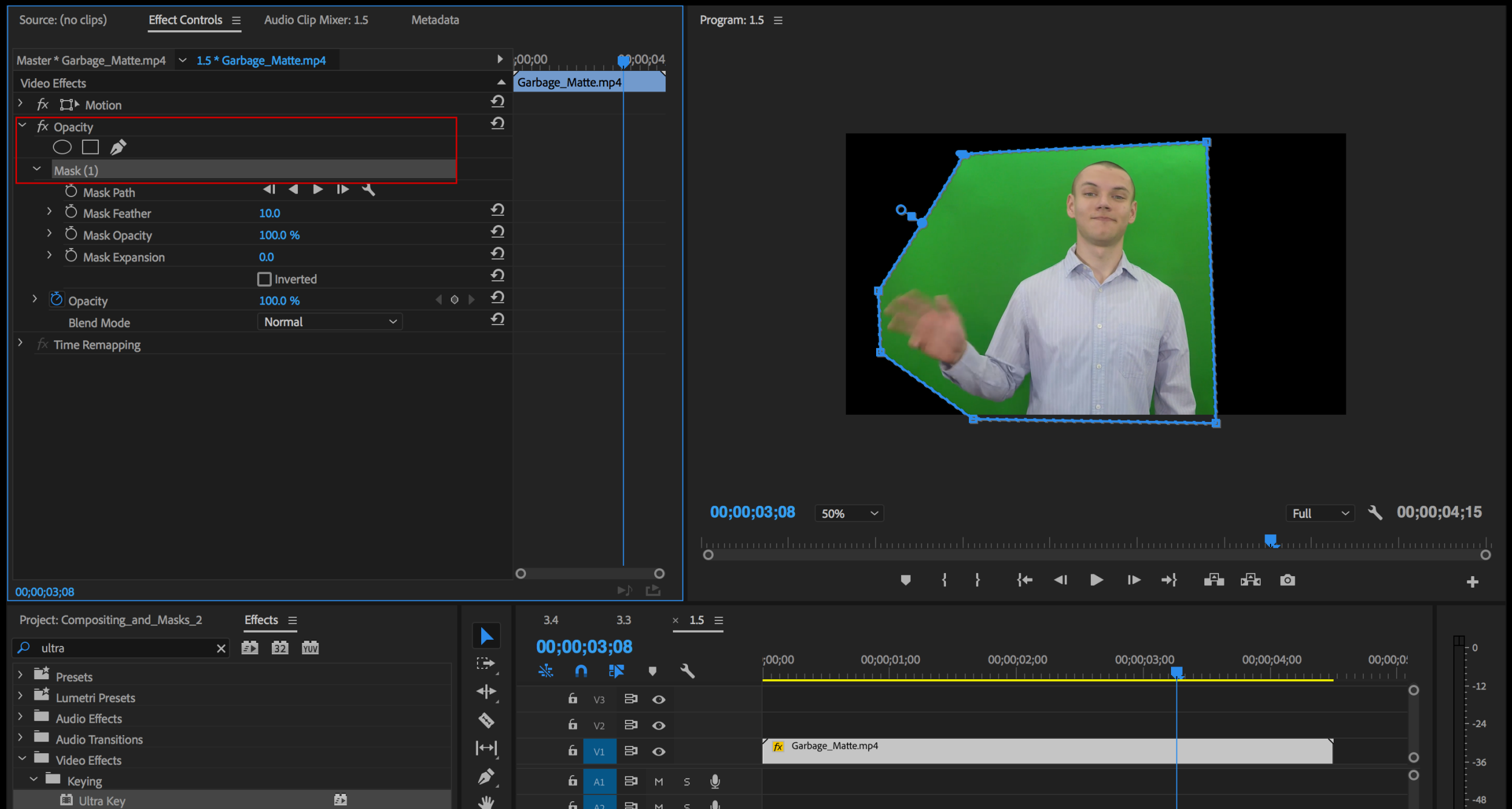
A garbage matte is used when the green screen does not cover the whole background of the subject or object to be keyed and there are areas in the green screen that need to be removed. These areas are removed using a garbage matte. Multiple garbage mattes can be used for different problem areas. A mask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

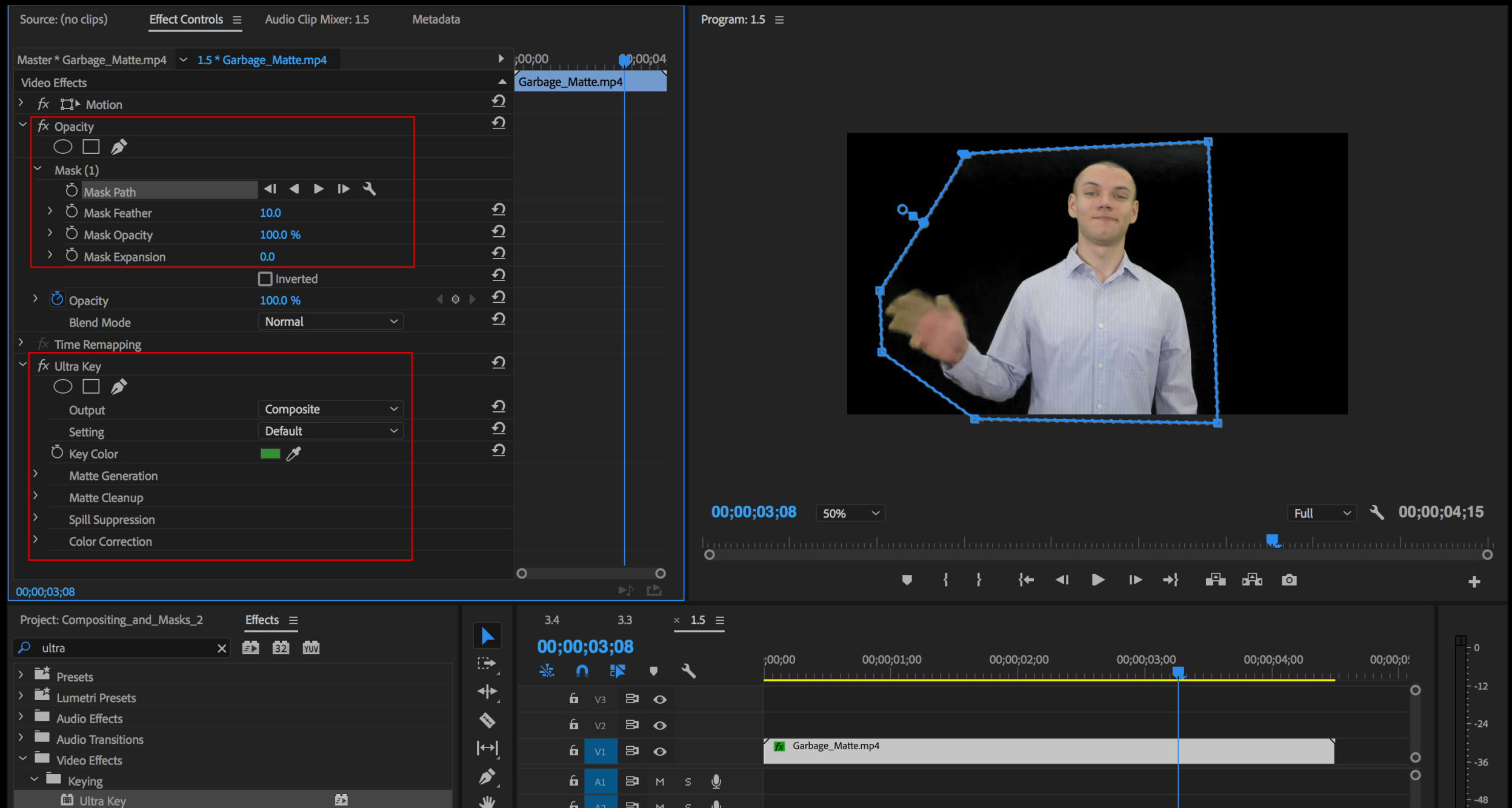
- Select the footage with the green screen.
- In Effect Controls window, under Opacity create a mask around the areas of the green screen to be keyed leaving out areas to be removed.



Garbage Mattes

To apply a key on a 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.

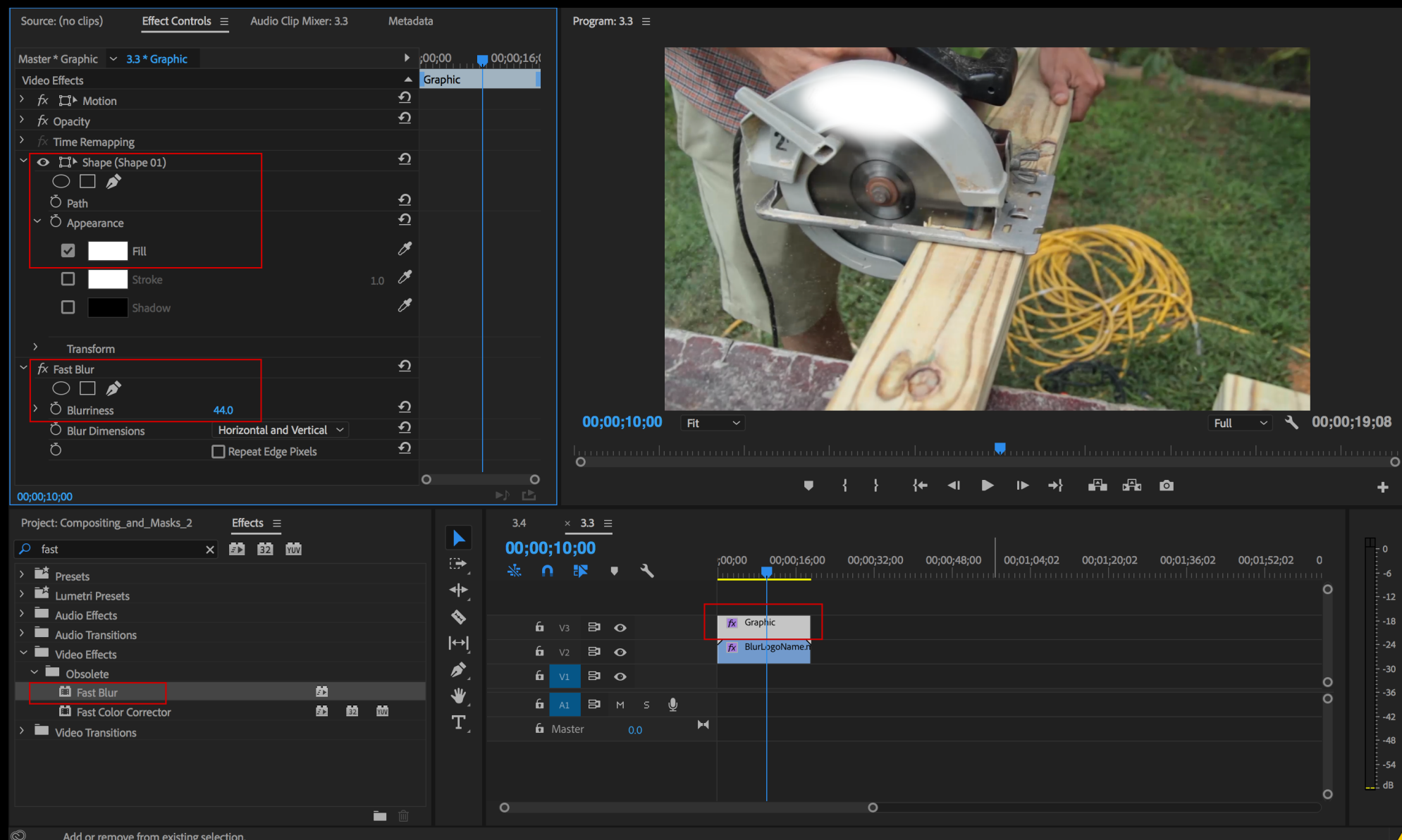
Difference between masks and mattes

Adjusting the motion of a matte

Track Matte Key

To create a Matte:

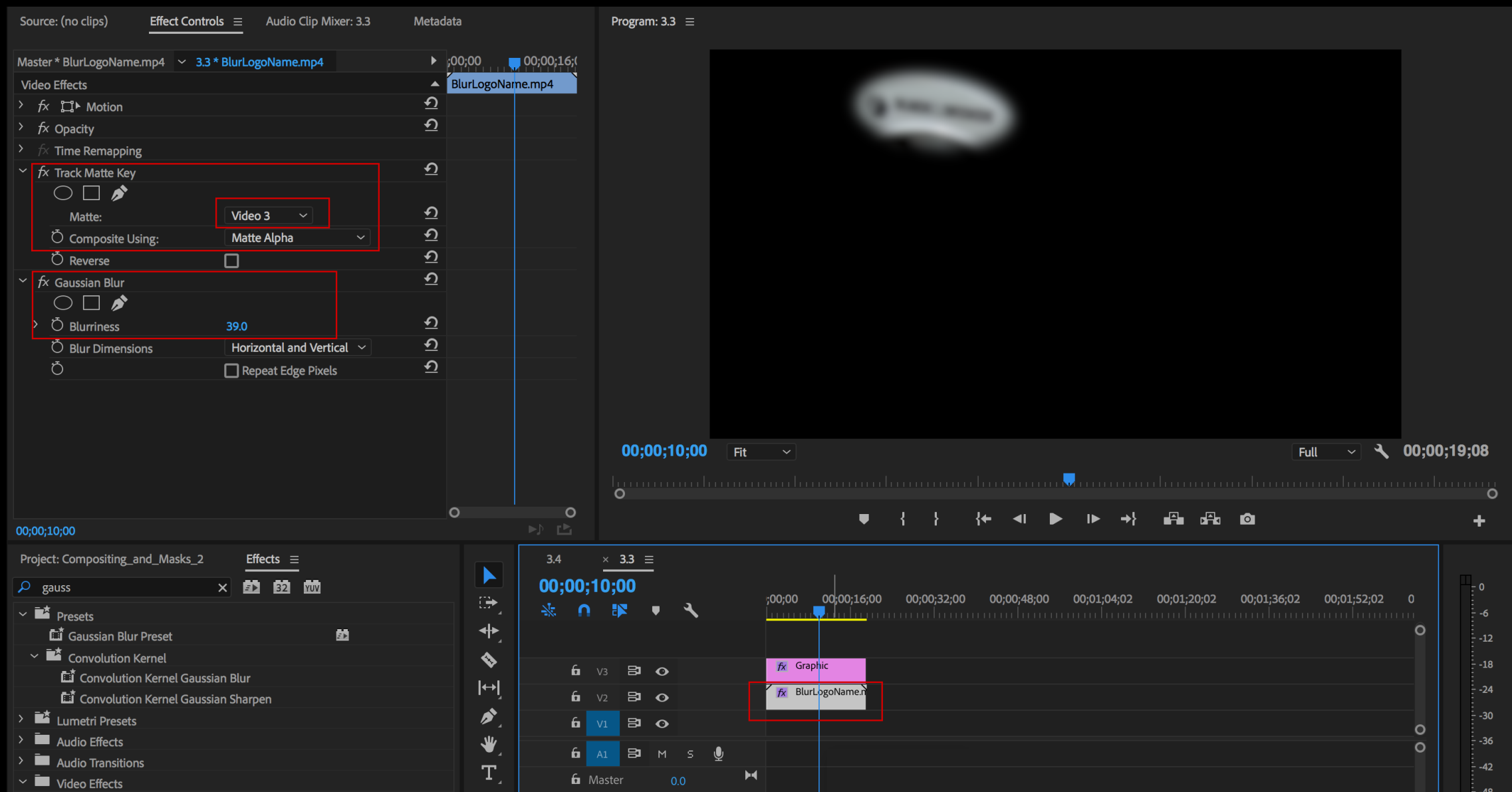
- In Graphics menu create an ellipse, on the video track above the original footage. Scale and rotate the ellipse to fit the shape of the logo or face you want to blur in the footage
- In Effects panel choose Fast Blur effect and apply on the ellipse matte to blur its edges



Track Matte Key

To create a Matte:

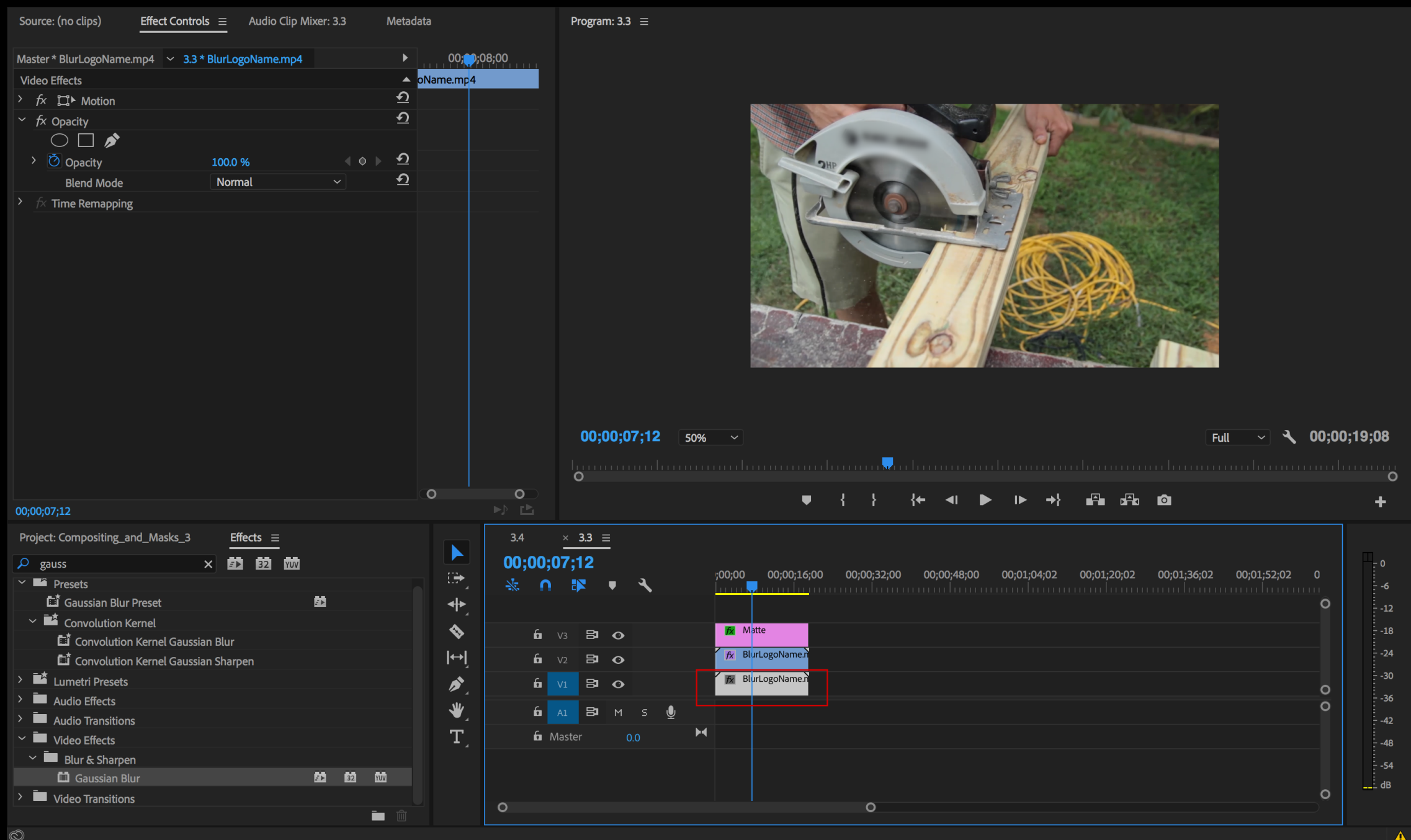
- In Graphics menu create an ellipse, on the video track above the original footage. Scale and rotate the ellipse to fit the shape of the logo or face you want to blur in the footage
- In Effects panel choose Fast Blur effect and apply on the ellipse matte to blur its edges



Track Matte Key

To create a Matte:

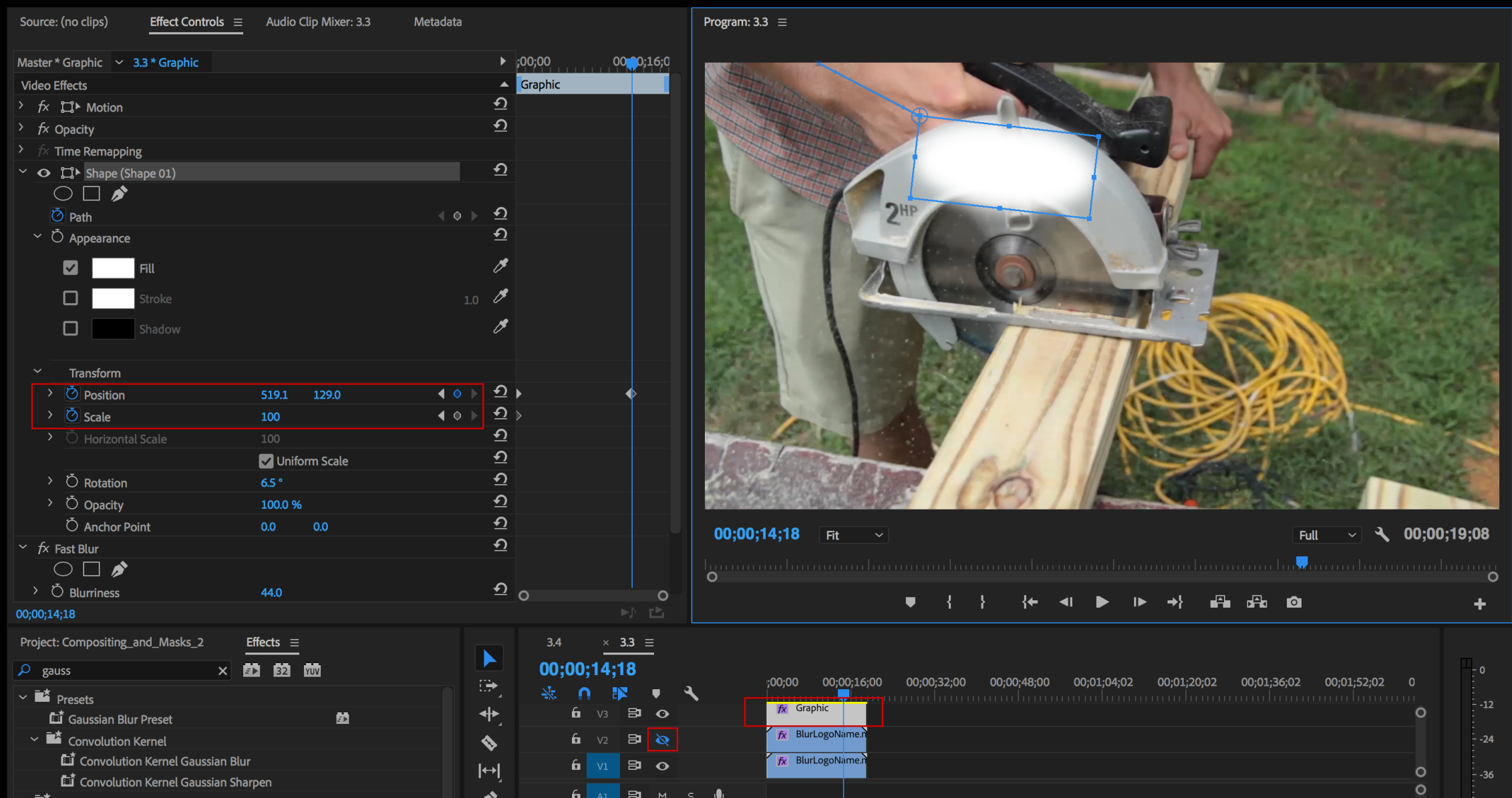
- Duplicate the video footage and place a copy of it underneath the video layer with the track matte.
- Remove all effects from duplicate copy to see the video background image.



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

Picture in Picture Effect

Crop

Dissolve (center on cut)

Cross zoom

Morph cut (6-8 frames)

Black & White

Tint

Auto-color

Gaussian blur w mask

3D

Title Effects

Graphics Effects

In Class Effects

Vignettes on Black video

Fast Blur

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

Compositing with Blend Modes

Audio Mixing

Audio Clip Mixer

Audio Track Mixer

Audio Transitions

Understanding Audio Transitions

Audio Clip Mixer and Audio Track Mixer