

Intro to Video Editing I

Week 14: 04/27/2018

Queens College Art Department | Spring 2018

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Aspect ratio

Aspect ratio is the ratio of the width of an image to the height

Main Formats:

NTSC/PAL	1.33:1 (4:3)
HDTV	1.78:1 (16:9)
Widescreen	1.85:1
Cinemascope	2.35:1
Academy	1.37:1 (Academy of Motion Picture Arts and Sciences)
4K Stereoscopic 360	2:1

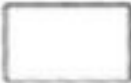
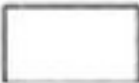
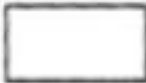
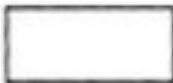
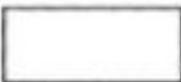
Understanding Aspect Ratio

<https://idearocketanimation.com/16662-video-aspect-ratio-guide/>

How to crop widescreen to Cinemascope

<https://vimeo.com/13037514>

Aspect ratio

	7:9	2.3:3	0.77:1	Paper (8.5 x 11)
	12:9	4:3	1.33:1	Television
	15:9	5:3	1.66:1	Photographs, many European movies
	16:9	5.3:3	1.78:1	DVD, HDTV, most widescreen TV
	16.7:9	5.6:3	1.85:1	Most movies
	19.9:9	6.6:3	2.21:1	Wide movies (70 mm)
	21.2:9	7.1:3	2.35:1	Wide movies (Panavision, Cinemascope)
	24.3:9	8.1:3	2.7:1	Extra-wide movies (Ultra Panavision)

Aspect ratio

Resolution

Videos come in all shapes and sizes but these are some of the most common formats.

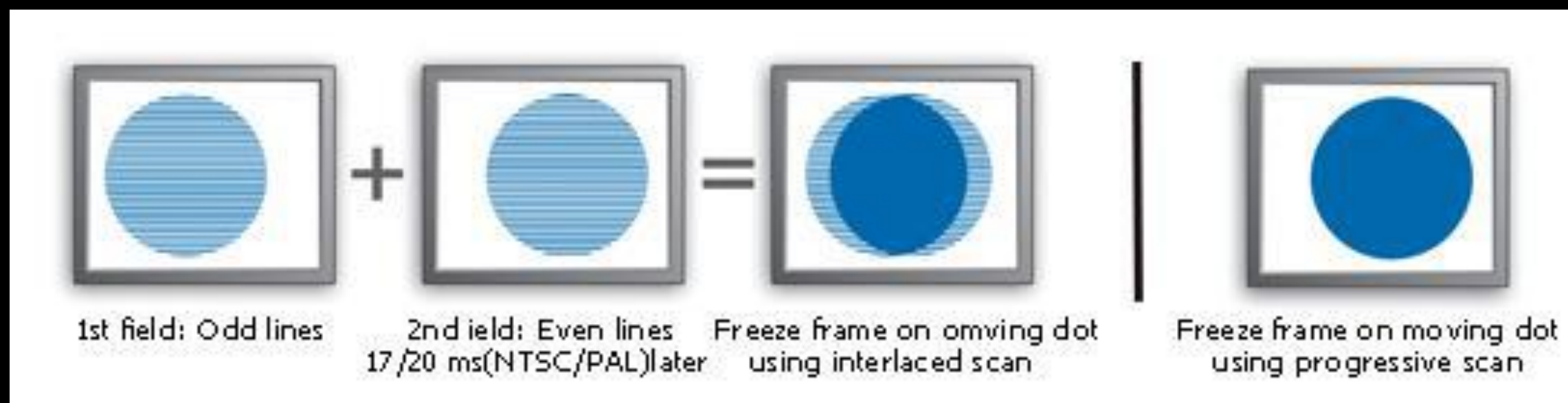
Format	Resolution (px)
Standard Definition (SD) 4:3 aspect ratio	640 × 480
Standard Definition (SD) 16:9 aspect ratio	640 × 360
720p HD 16:9 aspect ratio	1280 × 720
1080p HD 16:9 aspect ratio	1920 × 1080
2K 16:9 aspect ratio	2560 × 1440
4K UHD 16:9 aspect ratio	3840 × 2160
DCI 4K UHD 17:9 aspect ratio	4096 × 2160
4K Monoscopic 360 2:1 aspect ratio	4096 × 2048
4K Stereoscopic 360 2:1 aspect ratio	4096 × 2048*

**Stereoscopic video should be uploaded with the left and right view stacked on top of each other as 4096 x 1024 (4:1 aspect ratio) for each eye.*

Progressive Vs Interlaced Video

Interlaced video displays alternating sets of lines, called the Even field and the Odd Field for 1/60th of a second each consecutively. Old video formats like NTSC and Pal use this method of scanning.

Progressive video displays, stores and transmits moving with all the lines of each frame are drawn in sequence. Progressive video displays the entire image in 1/60th of a second, 1 entire image per frame. HDTV and newer formats are progressive.



Premiere Effects
...continued

Premiere Effects

You can apply effects on:

Individual clips

Master clips

Nested Sequences – to affect all clips nested in a sequence

Adjustment Layers – to affect all clips in timeline

Remember you can save a combination of effects as presets:

In Effect Controls window command select desired effects and right click to save as preset.

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

Adjusting Speed/Duration

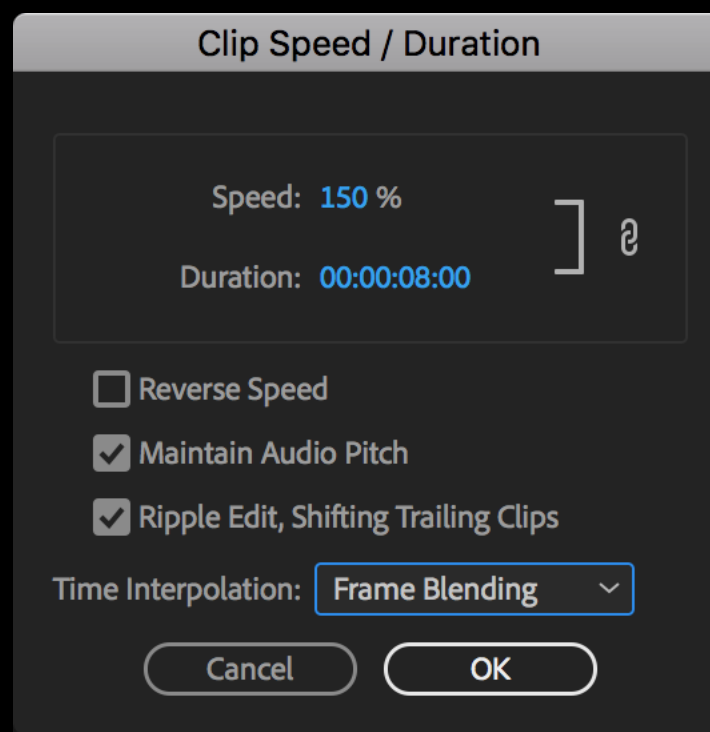
Use the Rate Stretch Tool (R) 

For more control:

Select clip and from Premiere menu choose Clip – Speed/Duration

OR right click on clip and from menu choose Speed/Duration...

OR press keyboard shortcut Cmd+R to bring up Speed/Duration pop-up window



Adjusting Speed/Duration

To perform a Fit to Fill :

- Select a clip in the timeline and mark In and Out points (X)
- Press F to bring up Match Frame in the source window
- In source window select a new In and new Out points which could be shorter or longer than the clip in timeline.
- Overwrite (.) to change the duration and speed of clip in timeline.
- From the pop up menu choose Change Clip Speed (Fit to Fill)

Fit to Fill

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 6 materials/Ex_Files_PremiereProCC2017_EssT/Exercise Files/Week14.prproj *

Assembly Editing Color Effects Audio All Panels Libraries Titles Graphics Metalogging

Source: brewery_door raises brewers enter LS.mp4 Effect Controls Audio Clip Mixer: brewery_door raises Program: brewery_casey pour hops MS Copy 02

15:59:12:01 Fit Full 00:00:10:13

Project: Week14 Media Browser

Week14.prproj

Name Video

- Broll
- Bar_Tasting Room
- Brewery
 - brewery brew kettle. 1.
 - brewery_boil hops.n 1.
 - brewery_casey add 1.
 - brewery_casey and 1.

pan and scan brewery_casey 00:00:06:05

V3 V2 V1 V1 A1 A1 A2

Audio 1

00:00:00 00:00:14:23 00:00:29:23 00:00:44:22 00:00:59:22 00:01:14

brewery_door raises brewery_casey pour brewery_casey misc brewery_casey jack talking.mp4 [V]

brewery_door raises brewery_casey pour brewery_casey misc brewery_casey jack talking.mp4 [A]

0 -6 -12 -18 -24 -30 -36 -42 -48 -54 dB

Fit Clip

The source is longer than the destination.

Options

- ☒ Change Clip Speed (Fit to Fill)
- ☐ Ignore Source In Point
- ☐ Ignore Source Out Point
- ☐ Ignore Sequence In Point
- ☐ Ignore Sequence Out Point

OK Cancel

☐ Always Use This Choice

Freeze Frame

Place Playhead over desired frame in Timeline.

Right click and from pull-down menu select **Frame Hold Options...**

In the pop-up window choose **Playhead**

OR **Add Frame Hold** to freeze at a frame after motion.

OR **Insert Frame Hold Segment** to freeze in between motion.

Basic Color Correction

Adjust Color Correction according to:

- Black levels
- White levels
- Contrast
- Color Balance
- Saturation

Obsolete color effects:

Auto color

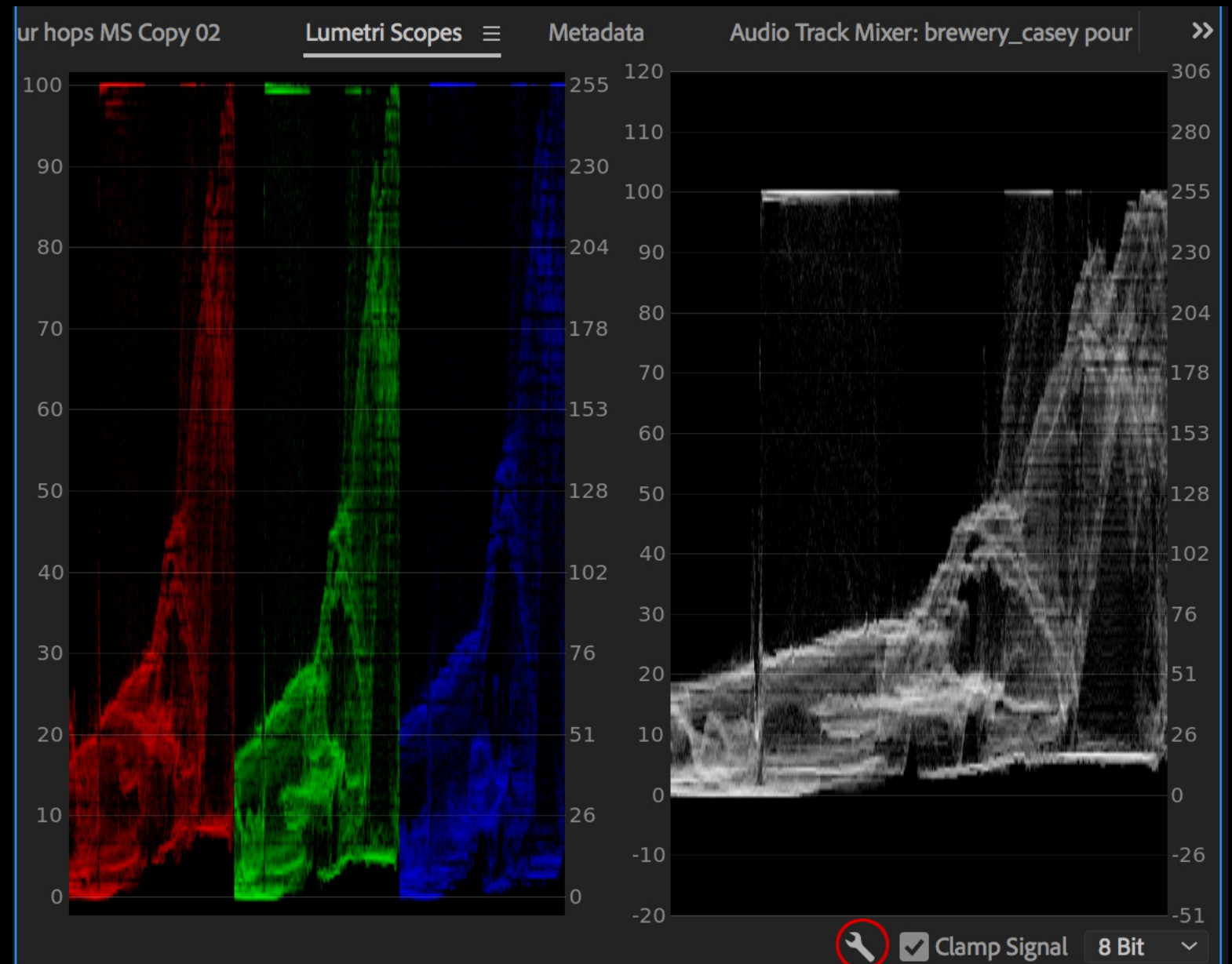
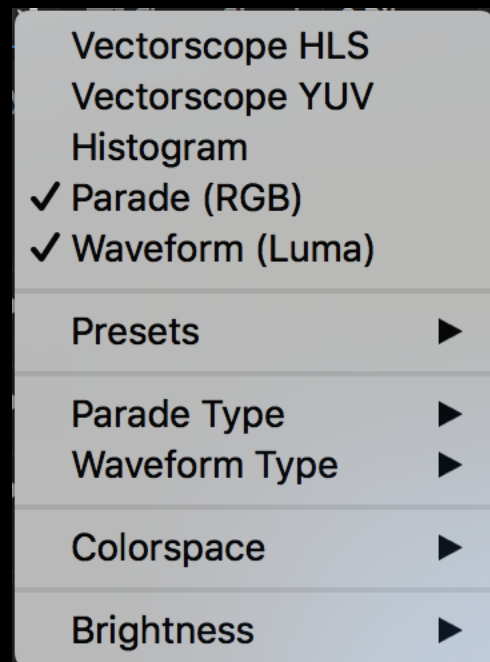
Auto contrast

Auto levels

Basic Color Correction

To enable accurate Color Correction open the Lumetri Scopes from the Window menu

Click on the wrench icon and choose Parade RGB and Waveform Luma



Lumetri Color Correction

From the Window menu choose Lumetri Color

Adjust:

Contrast

Brightness (Exposure)

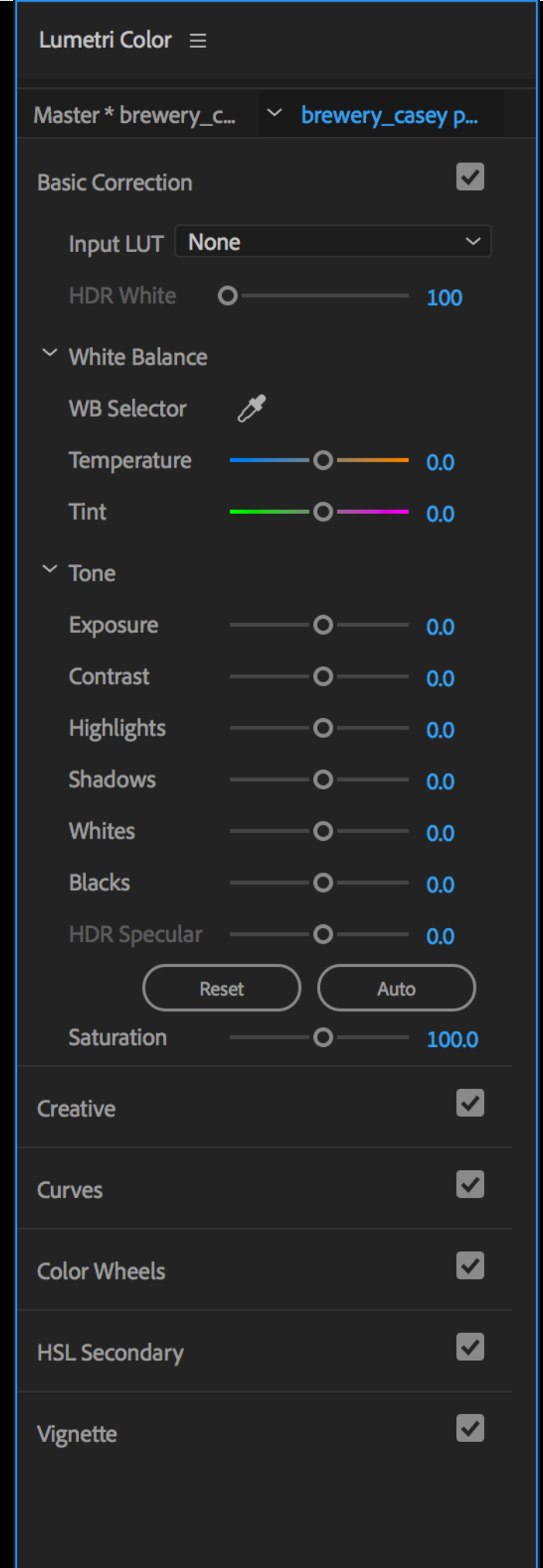
Black levels

White levels

Highlights

Shadows

White Balance (tint)



Effects Tutorials

Basic Color Correction

<https://www.lynda.com/Premiere-Pro-tutorials/Using-automatic-basic-color-correction-tools/585268/619886-4.html>

Color Correction with Curves

<https://www.lynda.com/Premiere-Pro-tutorials/Following-proper-color-correction-workflow-using-Lumetri-Color-toolset/585268/619887-4.html>

Manipulating Clip Speed

<https://www.lynda.com/Premiere-Pro-tutorials/Creating-freeze-frames-stills/585268/619881-4.html>