

EDITING

By Jonathan Horst

GET READY...

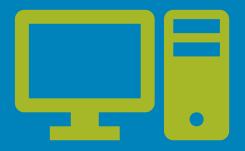
WHERE THE MAGIC HAPPENS

You create a new reality

You tell the story

Time is compressed

Turn boring raw footage into something amazing





Computer

Software

Video Files

Workflow

Artistic

Pacing

Sequencing

Story Structure

WORKFLOW







ACQUISITION

What format(s) are you going to record in?

EDITING

What setting are you going to edit in?

DELIVERY

What format are you going to export with?

UNDERSTAND VIDEO FILES



Frame Size/Resolution



- Frame Rate



Codec



Container



Pixel Aspect Ratio



Chroma Subsampling



Bit Rate

FRAME SIZE/RESOLUTION



FRAME RATE

Television 29.97 fps

Film **23.976** fps



BIT RATE





CODEC

The language the video is written in

H.264

Most common video codec used everywhere

AVC-Intra

P2 Camera Codec

ProRes 422

Apple's Intermediate Codec

DNXHD Avid's Mezzanine

LongGOP (Interframe)

- One new key frame every so often then only the changes are written
- Better compression

Intraframe

- Each Frame is a Frame
- Easier for a computer to read when editing

CONTAINER

The wrapper for the video.

- MOV Based of Apple Quicktime
- MXF Open Format used professionally
- **MP4** Mainly used with H.264



PIXEL/ASPECT RATIO

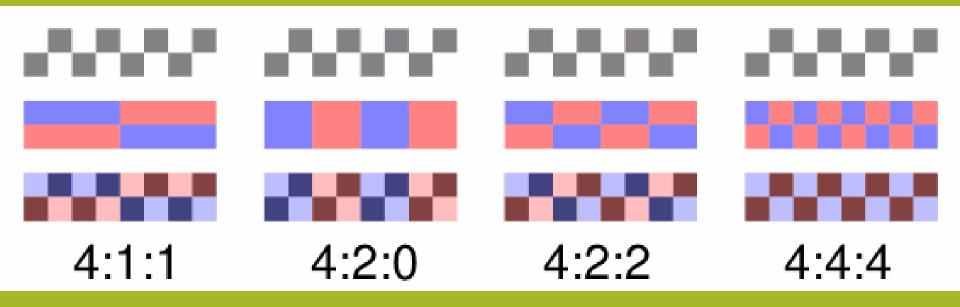
• Shape of the Rectangle.

Including the entire frame and/or the pixels within it.



CHROMA SUBSAMPLING

Colour Resolution You record less colors than you think



BIT DEPTH

How many steps between Lightest to Darkest per color

- 8-bit Used in most all delivered video you watch
- 10-bit Used in Professional video. Gives more flexibility when adjusting footage





WORKFLOW







ACQUISITION

EDITING

DELIVERY

AQUISITION

P2 CAMERA

AVC Intra 100

- 1920x1080
 - 23.967p / 29.97p / 59.94i
- 1280x720
 - 23.967p / 29.97p / 59.94p
- 10 bit 4:2:2

AVC Intra 50

- 1440x1080 same framerates
- 960x720
- 10 bit 4:2:0

STUDIO

1920x1080/29.97p

ProRes 422

Program Feed from KiPro

MPEG-24:2:2 – 8-bit

ISO recordings from 3-Play

GOPRO/DSLR

H.264

Various Frame Sizes and Frame Rates





Editing

Sequence Setting 1080/30p



Acquisition

P2 Camera

- AVC Intra 100 1080/30p **75%**
- AVC-Intra 100 720/60p **10%**

GoPro

- 2.7K/30p **15%**
- 1080/60p

DSLR

• UHD/30p

Studio

• ProRes 422 1080/30p

Delivery

Shaw Spotlight Channel (NOVUS)

• 720/30p H.264

YouTube

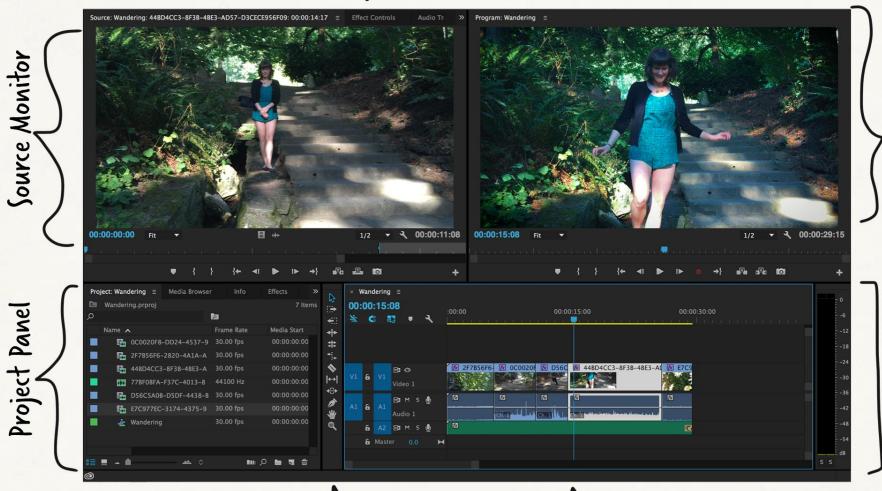
- 1080/30p H.264
 - 16 Mbps

Archive

• ProRes 422 1080/30p







Time Line

Program Monitor

Tools

Razor, Ripple, Roll, Selection, Zoom & more! PLAYHEAD

aka (urrent Time Indicator ((TI)

IT TAKES TIME

1 hour of editing

1 minute finished footage

1 day of editing

1 minute finished footage