

Explorations- CJ Hoo



### THE COLOR WHEEL

Shows the relationship between colors.



#### TRIADIC COLOR SCHEME

- three colors evenly spaced on the color wheel (equilateral triangle)
- the first color in triadic color palettes is the dominant color while the colors that follow are accent colors

#### ANALOGOUS COLOR SCHEME

- next to each other on the color wheel
- usually a primary with a secondary and tertiary color

## **COLOR SCHEMES**

TRIADIC COLOR SCHEME

ANALOGOUS COLOR SCHEME

Yellow-green (renewal)

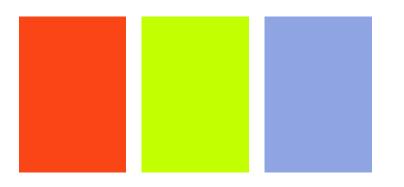
Violet (mystery)

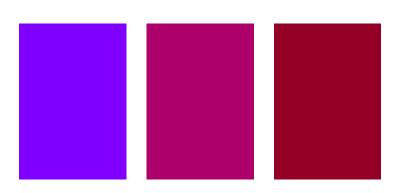
Blue-violet (tranquility)

Red-violet (intoxication)

Red-orange (energy)

Red (danger)



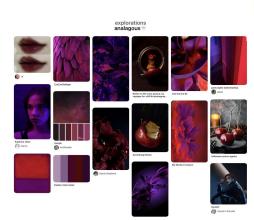


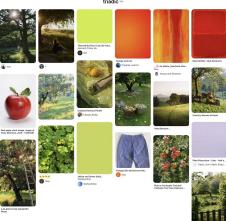


### INSPIRATION & PLANNING

#### **BRAINSTORM: THE APPLE**

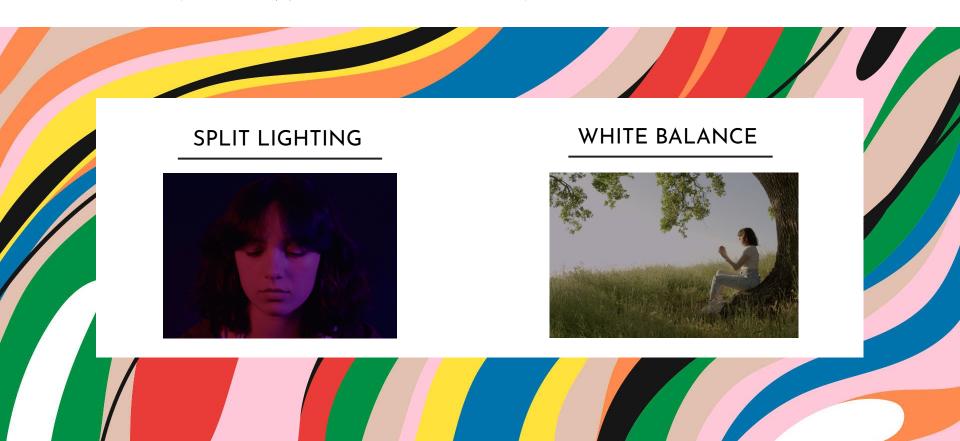
- westwind (under tree)
  - triadic color scheme
    - yellow-green, red-orange, blue-violet
    - red-orange is accent
  - tree and grass (yellow-green, saturated)
  - apple (red-orange, saturated, small)
  - light wash denim (blue-violet, desaturated, tinted)
  - temperature: warm
- bedroom/studio
  - analogous color scheme
    - red, red-violet, violet
    - red is dominant
  - apple (red)
  - lighting (half red, half violet)
  - temperature: cool
- graphic match cut to combine into one scene eating poison apple
- end with death at westwind (change meaning of colors)







# LIGHTING & WHITE BALANCE

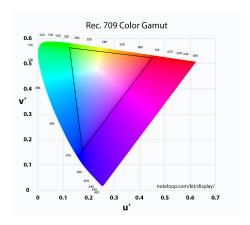




### **COLOR SPACES**

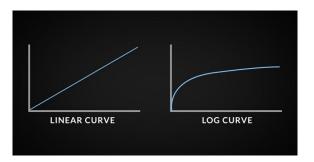
#### COLOR SPACE

- range of colors on a spectrum that can be interpreted and displayed on a visual plane
- most common color space is Rec.709



#### LOG

- uses optimized gamma curve to record an image containing as much info as possible in highlights and shadows
- uses a logarithmic curve rather than a linear curve to record highlights and shadows
- pushes lowlights up to bring out more detail, pulls highlights down to avoid overexposure in camera sensor



### CAMERA → DISPLAY

### MANUAL LU

- for a very specific look
- can't trust your eyes
- basically just guessing what your final video looks like

#### LUTS

- look up table
- a file containing instructions for replacing one RGB value with anotherbased on hue, luminance, or saturation
- used to speed up color grading process
- just a fixed table of values; the user can't adjust the results based on the type of image being input.
- (So if a LUT is designed to increase overall brightness by 10 percent, but an image is already overexposed, the LUT will just make it worse)

#### **COLOR MANAGEMENT**

- complex mathematical functions that manipulate an image based on the values being input by the image, rather than being based on fixed values in a table
- more precise than LUTS
- better than trying to adjust contrast and saturation manually/guessing

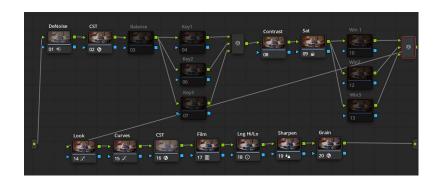
### DAVINCI RESOLVE

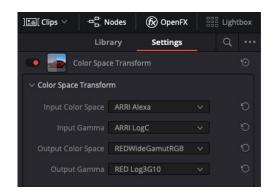
#### **NODES**

- like layers in photoshop; each node is a graphical representation of each correction to color
- allow user to add adjustments and effects in an organized and non destructive way (easy to go backward or forward in steps)

#### **COLOR SPACE TRANSFORM**

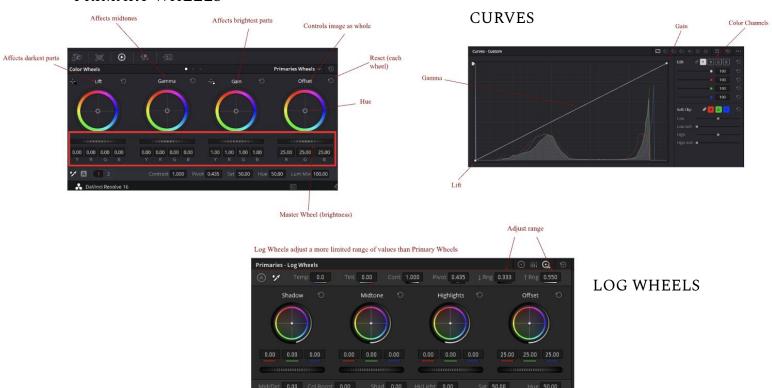
- color management on a node-based level
- input color space and gamma:
   Blackmagic Design Pocket 4k Film
- output:
   Extended Video 5 (looks better, but still meets Rec.709 requirements)
- put CST node at end to preserve information (do color grade first)





### DAVINCI RESOLVE

#### PRIMARY WHEELS



### DAVINCI RESOLVE

#### HUE VS. SATURATION CURVE



# $LOG \rightarrow CST \rightarrow GRADE$



