

We will cover:

- The principles of moving image photography and sound
- Your phone's related technologies: leveraging strengths and overcoming limitations
- The language of film: shots, composition, motion, perspective
- Planning a shoot:
 - Narrative form following function
 - Accounting for creative / technical constraints

A

30
·
4K

B



00:00:00

AE/AF LOCK

C

D

3

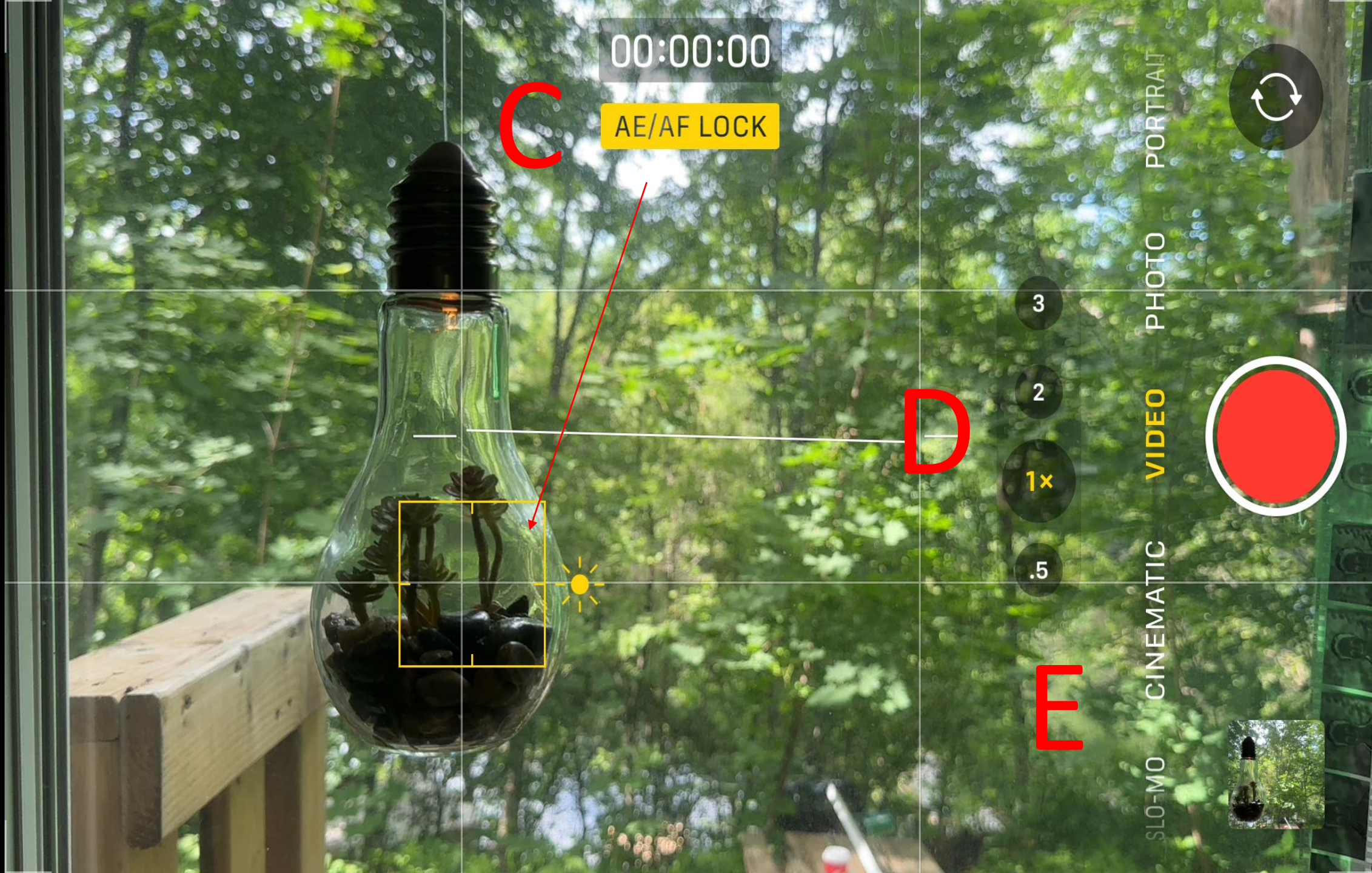
2

1x

.5

E

SLO-MO CINEMATIC VIDEO PHOTO PORTRAIT



iPhone Video shooting legend (iPhone 14)

A: 4K **Resolution** / 30 **Frames per second** optimum regular speed shots
4K or 1020 **Resolution** / 60 **Frames per second** for slow motion shots
(for 4K at 60 fps, you may need to go into your Settings → Camera...)

B: Activate “Action mode” for extra **stabilization**
Turn off the flash always

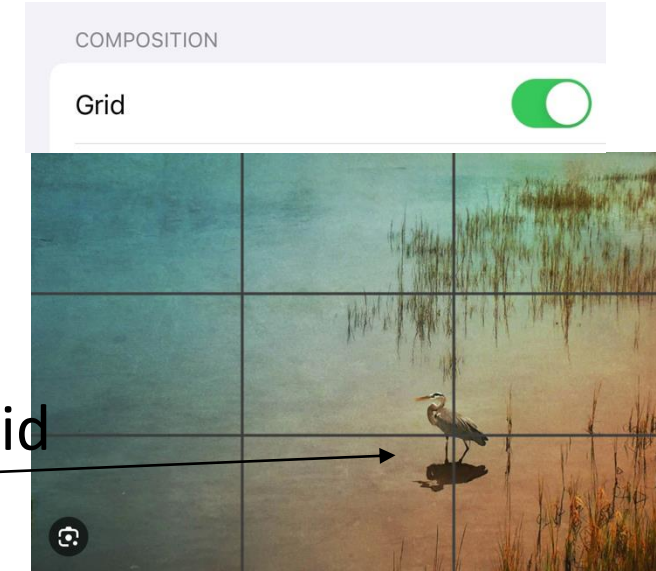
C: Lock **Focus** and **Exposure**: With one finger, press on principal object in your shot until exposure and focus are locked (AE/AF Lock); you can then slide the Sun icon up or down to lighten or darken the shot

D: Lenses: Wide angle (.5) is good for expansive scenes, default (1X) for focus on subjects, and the telephoto lens(es - 2, 3) for far away subjects

E: Shooting Modes: Video for regular shooting and slow motion (slowed down in editing), Cinematic for deep subject focus, Slo-Mo for slow motion, Timelapse for transitional scenes of time passing (with fixed or moving camera), and Front Lens for selfie-style

Settings →
Camera

Compose
objects on grid
lines



00:00:00

AE/AF LOCK

Focal point and Depth of field

VIDEO PHOTO

SLO-MO

TIME-LAPSE

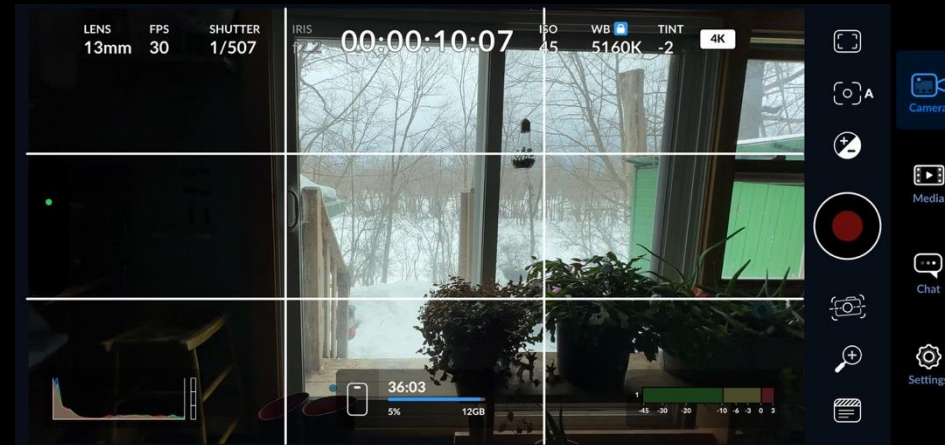
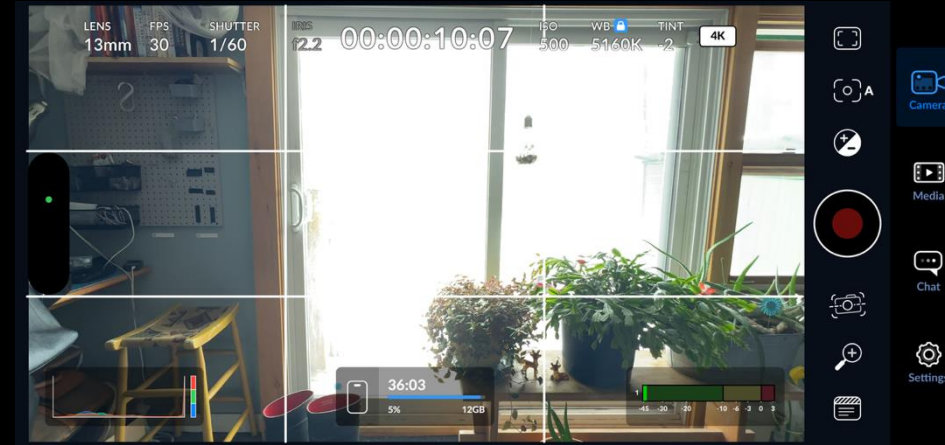


Moosey goes to camp



Exposure and Dynamic Range

- Dynamic range:
 - Range of brightness capabilities/limitations
 - The smaller the lens, the less the dynamic range, resulting in over / under exposure
- Exposure:
 - Amount of light hitting the camera sensor via the lens
 - Controlled by lens size (aperture), shutter speed, and ISO
- Exposure compensate through balanced composition and lighting, or don't, depending on intention.
- Think of ways to “paint with light”.



STANDARD THREE- POINT LIGHTING

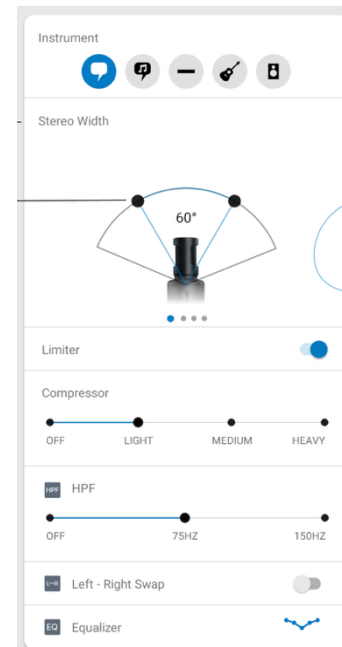


White balance for true colour representation (Blackmagic Cam app for Mac and Android)



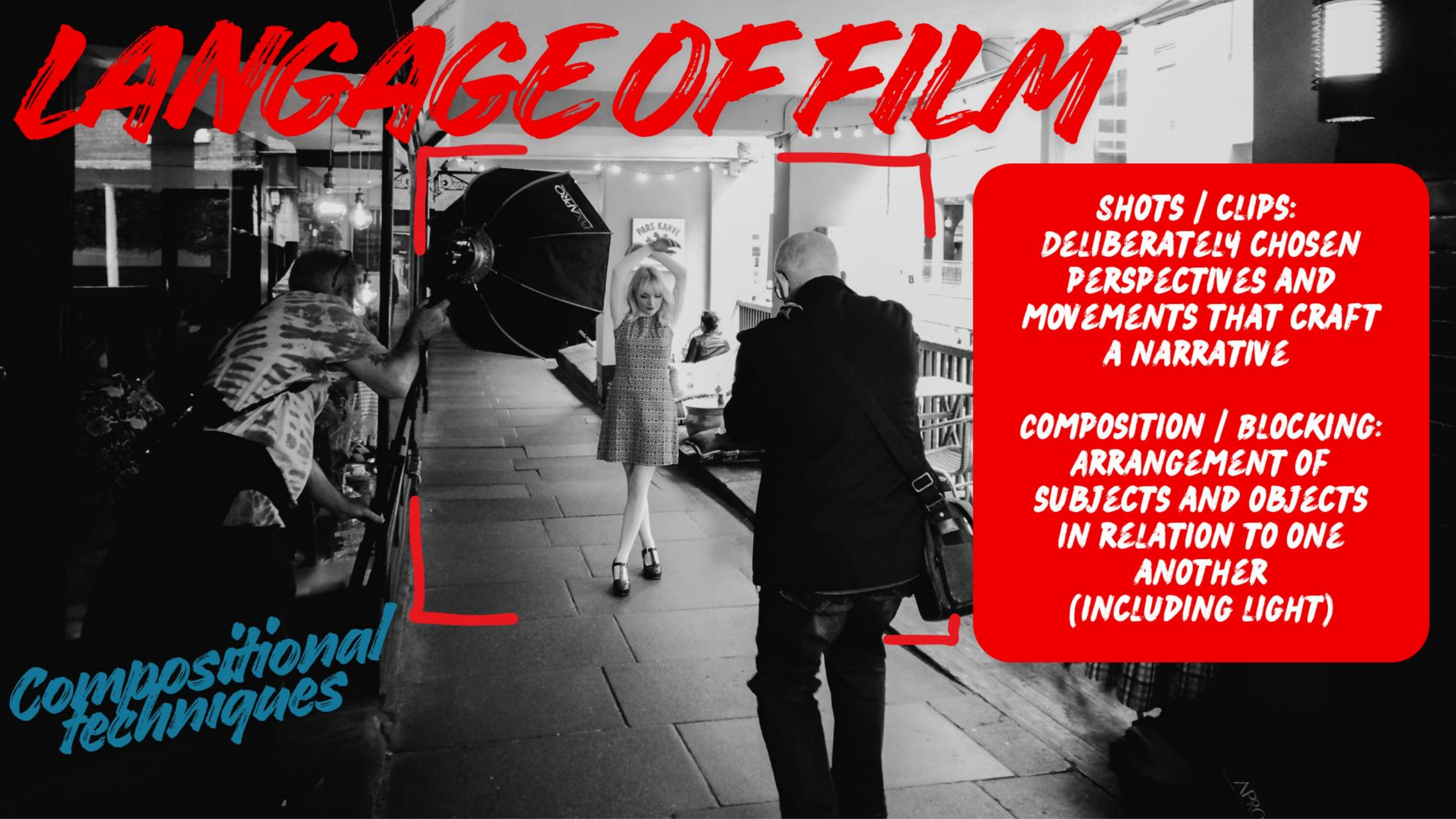
Sound recording

- Microphones:
 - Directional: lav. / shotgun: isolates specific sound (e.g., the human voice), either attached to camera or to separate capture device
 - Ambient: optional/advanced, for room sound, attached to separate device
- Use a clapperboard (or just clap!) to assist in later synchronizing audio with video during editing.





Picture stabilization and camera motion



LANGUAGE OF FILM

SHOTS / CLIPS:
DELIBERATELY CHOSEN
PERSPECTIVES AND
MOVEMENTS THAT CRAFT
A NARRATIVE

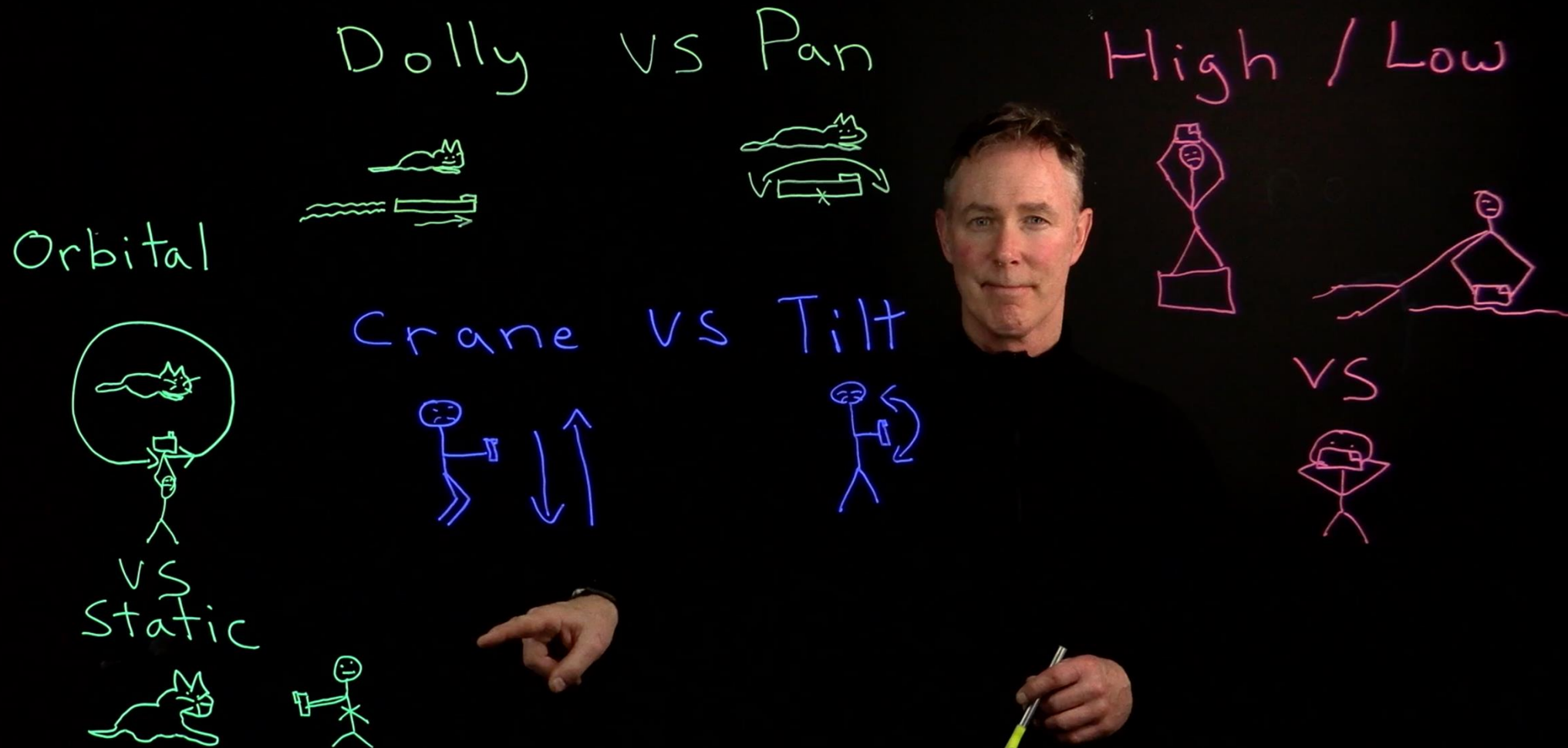
COMPOSITION / BLOCKING:
ARRANGEMENT OF
SUBJECTS AND OBJECTS
IN RELATION TO ONE
ANOTHER
(INCLUDING LIGHT)

*Compositional
techniques*

Crafting a narrative with shot choices

Facets of a story	Shot options
Where (environment)	Establishing (often Wide Angle) shot
Who (the subject)	Close Up shot
What (drama/actions performed by or on subject)	Medium shot
When (time period, at a point in a given story)	-Continuous shot or long take (representing space + time), - Close Up of symbolic objects (sun, moon, clock...) or actions (walking feet, reaching for a door knob...) -see <i>Pacing (cuts)</i>
Why (internal decisions making of the subject, or emotional effect upon)	Extreme Close Up , sequence of other shots explaining back story

Shot movements / perspectives: Avoiding the way we usually see everything



Planning
shots with
story/editing
in mind



01:00:00:00

01:00:06:00

01:00:12:00

01:00:18:00

01:00:24:00



IMG_5903.JPG



IMG_5907.JPG



IMG_5934.JPG



IMG_5908.JPG



IMG_5909.JPG



IMG_...



IMG_5909.JPG

The evolution classroom discipline

To generate discussion of phone use in the classroom through satire

Talking head / green screen:

"Tired of policing phones in the classroom?"

"Mmhm..."

"Why not let the phones do the enforcement?"

"Sorry, what?"

"Foster healthy rivalries as classmates compete to capture the 'Most Compromised' [recursive line of photo takers facing one way – dolly shot]

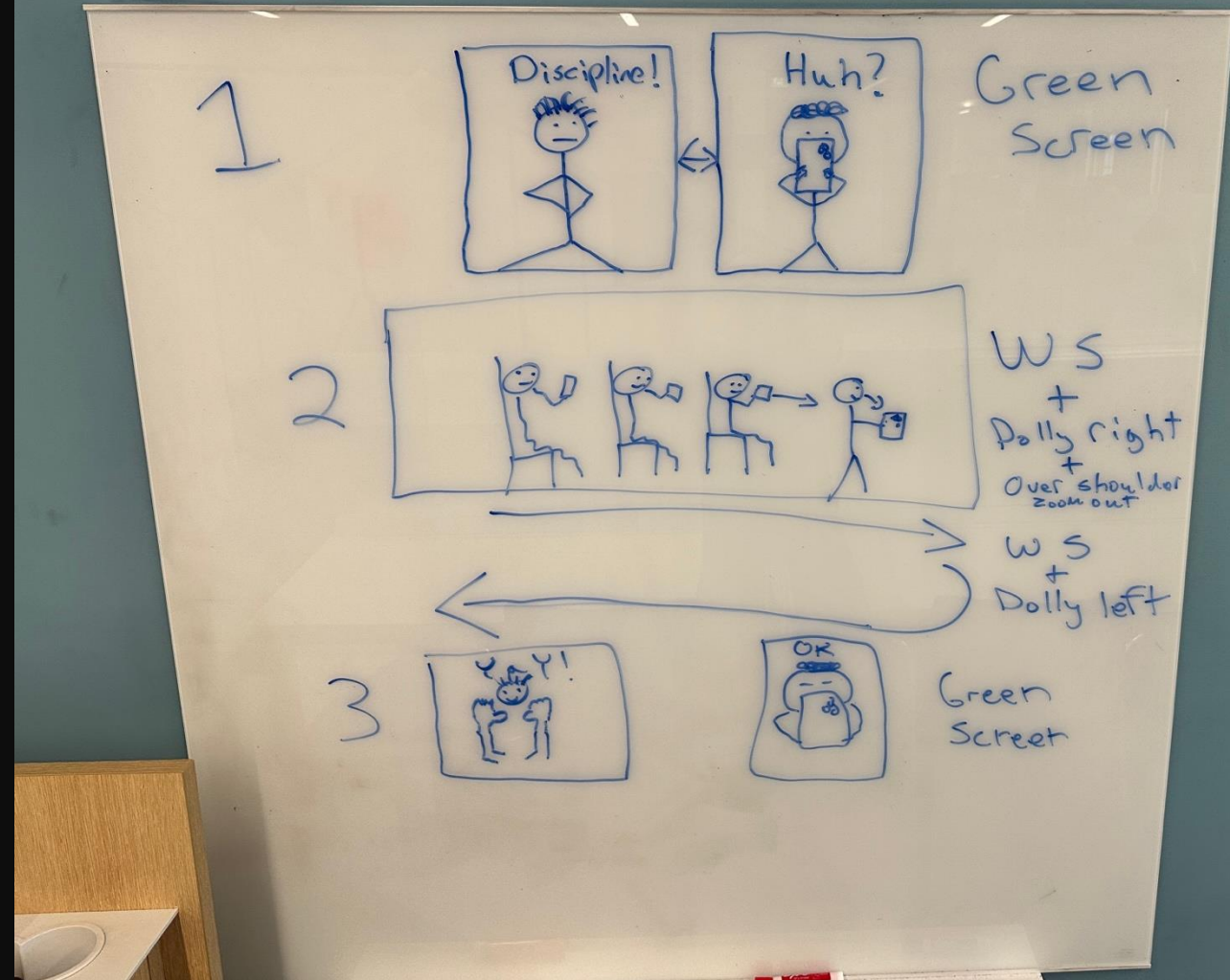
"Class marks in Composition and Content categories" [flipping around and facing the other way) – someone capturing them from the front + back

"Take back control of the classroom and turbocharge transformative learning"

"Ok."

Planning a video

- What stories would you like to tell (purpose) and what resources do you have (means)?
- How will you structure your story – what are the parts, and in what order will they appear?
Story board it ----->
- Will you use narration, subtitles, music?
- Which images will you use?
 - Still? Moving? Fictional representations? Documentary images?
 - Which words/sounds will fit with the images you choose?
- Who will assume which role(s)?



For each shot, think about:

- Perspective
- Composition
- Movement (subjects and/or camera)

Every time you shoot:

- HD (1080p), 30FPS baseline (min. 60FPS for slo-mo), landscape orientation
- Sound level: mid range gain (external microphone)
- Determine Focus
- Compose the shot (framing, distance, perspective, movement)
- Select the Lens (appropriate to the distance and composition)
- Set exposure: balanced lighting, adjusting ISO

Green Screen Tips

- Light both your subject and the green screen fully and separately
- Allow for at least 24" or 36" distance between the two
- Consider the compatibility of subject and eventual backdrop in terms of the temperature, colours, brightness, and position of each
 - In Canva, you can often adjust colours and temperature
- Don't wear green

Video Editing



TechSmith Camtasia® 2020

Pr



iMovie



Wondershare
Filmora

Download DaVinci Resolve!



EDITING

Professional editing tools let you create your story, fast! Includes drag and drop



COLOR

Advanced color corrector with hundreds of primary and secondary color grading



AUDIO

Fairlight audio features up to 2,000 tracks with realtime effects, sample accurate



VFX

Create cinematic visual effects and motion graphics! Features hundreds of 2D

<https://www.blackmagicdesign.com/event/davinciresolvedownload>

of titles, transitions, and effects.

tracking, advanced HDR grading and more!

in 5.1, 7.1 and immersive 3D audio formats.

3D camera tracking, rotoscoping and keying tools.