

Film Making Workshop I: The shoot

Question of methods: St. John Ambulance vs The Karate Kid







Earning the

- Workshop 1 (2 hours): Film making technologies and techniques (with shoot)
- Workshop 2 (2 hours): Editing and sound design
- Practical Time (4 hours): Film making project(s) with demonstrated incorporation of workshop learning
 - Video
 - Short (a paragraph or two) explanation of technologies and techniques employed and lessons learned

This way home!

- Documenting and promoting a 3D design / printing workshop with confidence and community building objectives
- 4K resolution, 30 FPS, landscape orientation
- Audience: students, with a focus on international
- Multi voice narration (overdub)

mΧ

 An iteration of: <u>https://youtu.be/dzGSczjkxjA?si=bZSFISNtDOXgaw</u>

WELGONE TO YEL

Green Screer

Static/tripod

"You've come from afar full of ambition and hope."

Green Screen Static/tripod

snow."

"And like any adventure in New Brunswick, there will be sunshine, and there will be

FilmMaking Studio Green Screen Pull back/gimble "Thankfully, you won't be alone."

-

O

""This way home" was designed to bring us together to learn new skills and share stories."

OC.

Moncton 300

Pari

Tokyo 8,000km

200km

Created by our Fabrication Lab team, the Research Commons Superheroes showcase a variety of making techniques! First, all of the heads of the Research Commons staff were 3D scanned using a phone app. Those scans were then combined with 3D models of superheroe bodies. Finally, the full superheroe were 3D printed in various colours of PLA filament. Our team is SUPCRI

Data Visualization Lab Low orbital + Close up + B-roll

"About where we come from and who we are."



Orbit around / crane poll + medium/ close-up of faces and hands

"Learn how to 3D design a directional sign to your hometown and add it to the signpost in the Harriet Irving Library Research Commons."

Ensemble finale / pullback

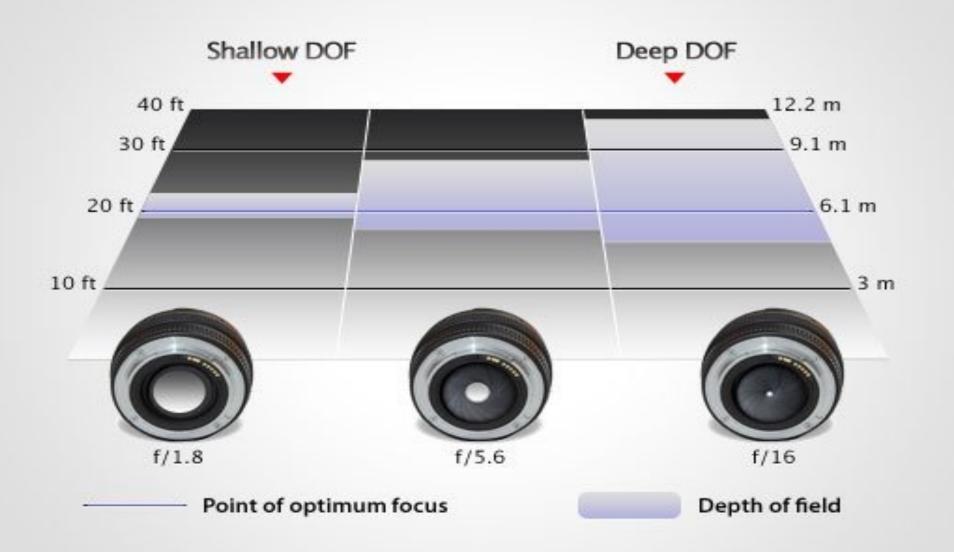
"Because an adventure like this is to be celebrated and shared."

For each shot today:

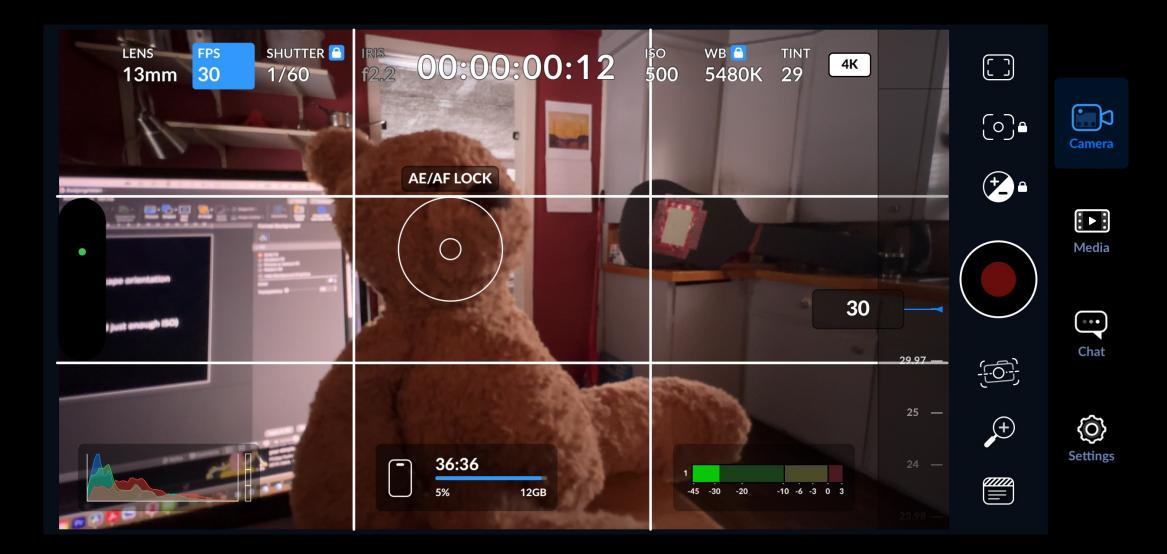
- 4K, 30FPS baseline (min. 60FPS for slo-mo), landscape orientation
- Composition (framing, perspective)
- Lens (appropriate to the distance and composition)
- Focus
- Exposure: balanced lighting, low shutter speed (1/60) and just enough ISO
- White balance: auto and lock
- Sound level: mid range gain

Lenses: Perspective and Depth of Field





Frames Per Second determine motion blur

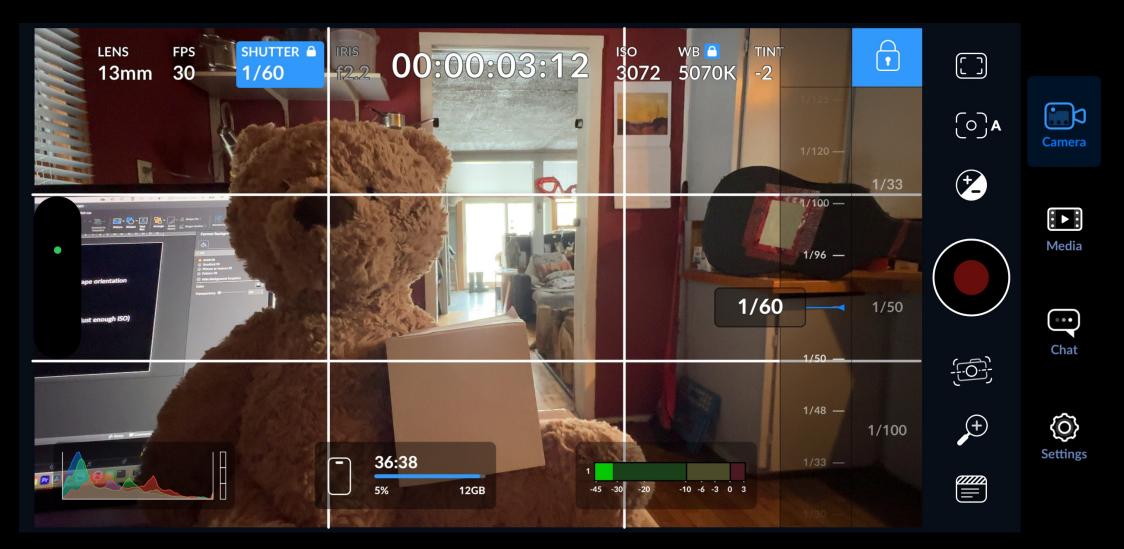


Frames Per Second (frame rate) conventions

- •24 FPS: Cinematic blur
- •30 FPS: Internet standard

•60 FPS +: For crisp/jittery action shots OR slow motion (e.g., 120 FPS at ¼ speed slots into your 30 FPS project)

Shutter Speed influences exposure and blur (Recommended 1/2 x FPS)



Exposure and Dynamic Range

• Dynamic range:

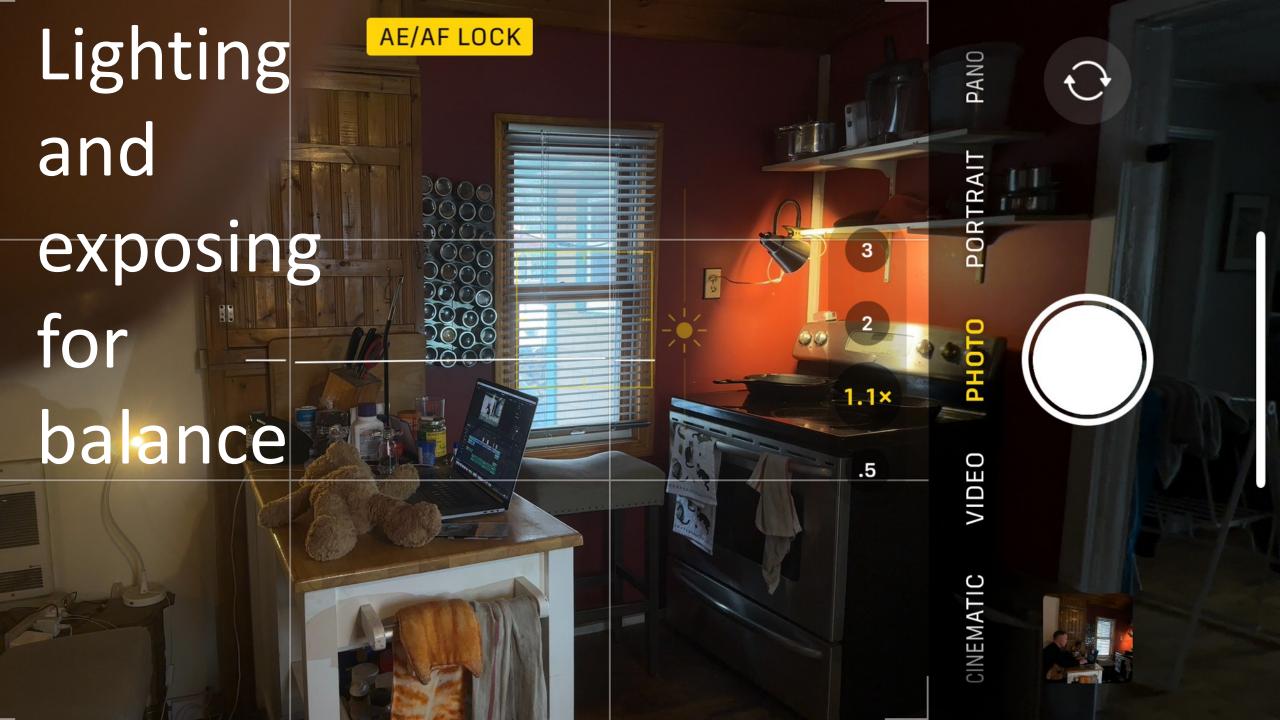
- Range of brightness capability/limitations
- The smaller the lens, the less the dynamic range, resulting in over / under exposure

• 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

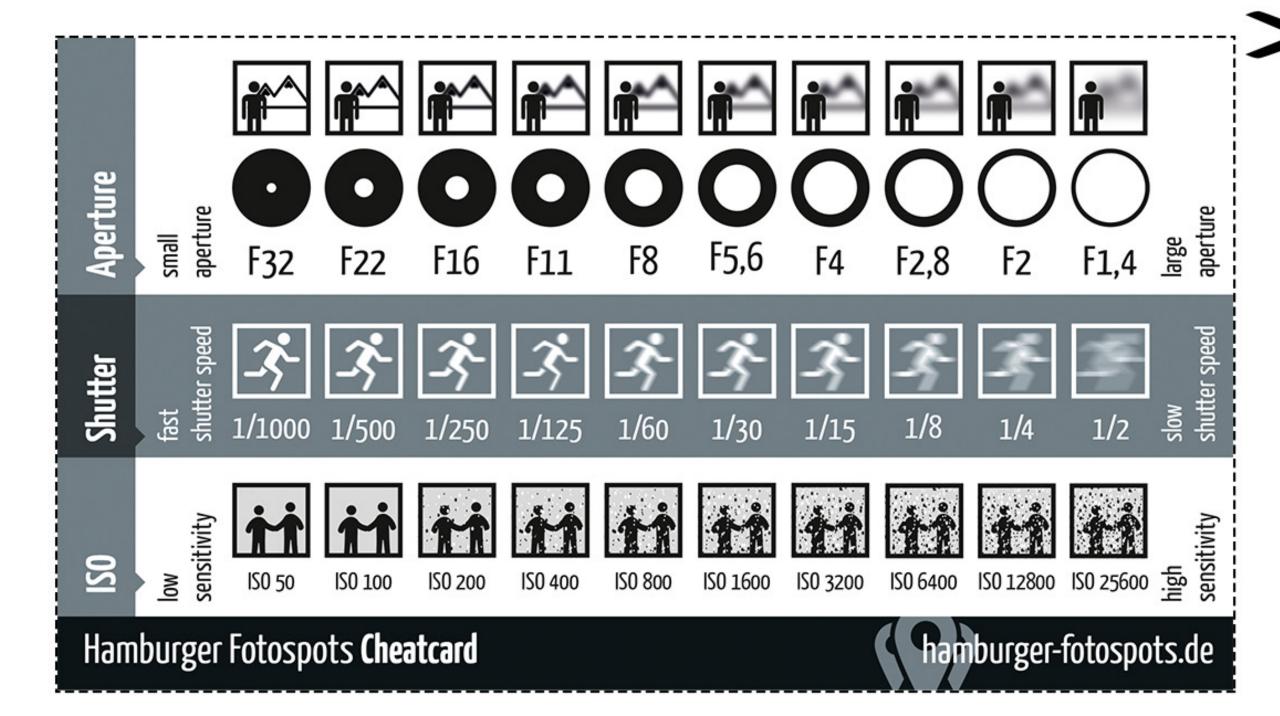




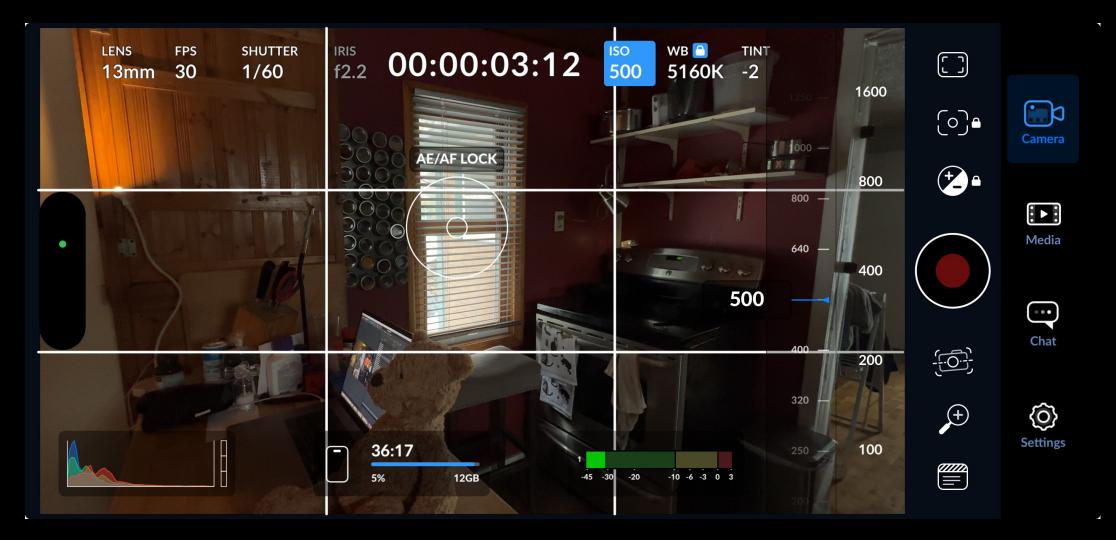


ISO: lens sensitivity to light





Setting and locking exposure to balance lighting



STANDARD THREE-POINT LIGHTING

OBJECT

#3 Back

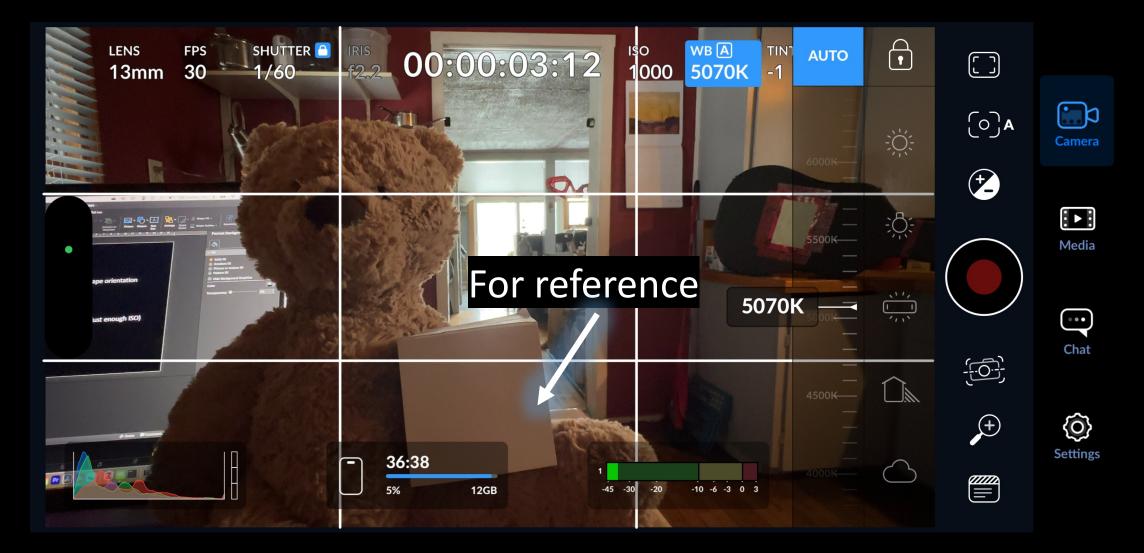
light

#2 Fill light

#1 Key light



White Balance controls for light/colour cast



White Balance

- All light has a temperature (running from cool/blue to warm/yellow) and is measured in Kelvins (k)
- Adding in a white colour reference to your shot aids in White Balancing (measuring and correcting for light temperature) in camera and editing
- Auto White Balance your shot, then lock it.



Audio Meter / Gain Control



Recording audio

- Measured in decibels, topping out at Zero (above which audio is distorted or "clipped")
- Gain adjusts microphone sensitivity to either boost a weak signal or reign in loudness.
- Metering or visually monitoring volume helps to set appropriate gain
- Aim for setting the gain slider where the loudest recorded volumes do not rise above -10db
- External microphone highly recommended

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.

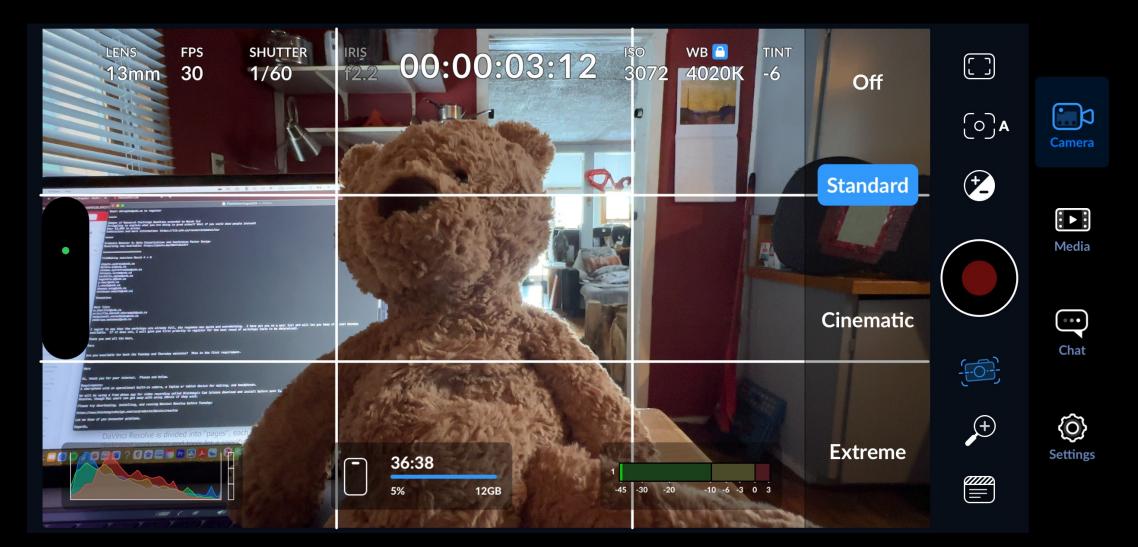
		- 🗸 !	3
Stereo Wid	ith		
		-00°	
Limiter			
Limiter Compress	sor		•
	sor UIGHT	MEDIUM	• HEAVY
Compress	LIGHT	MEDIUM	HEAVY
Compress • OFF	LIGHT	MEDIUM	• НЕАVУ 150HZ
Compress OFF HPF OFF	LIGHT	•	•







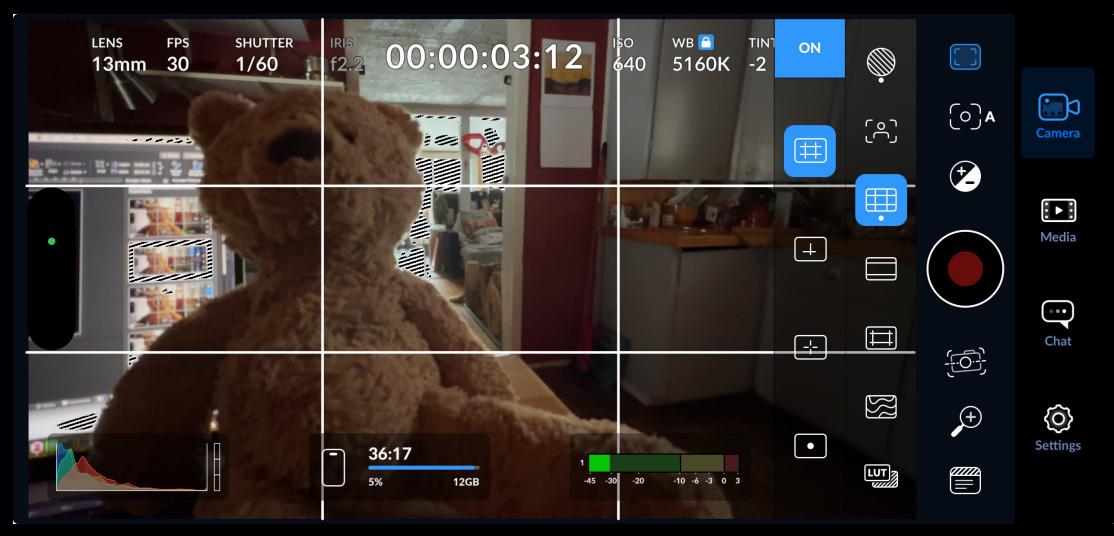
Stabilization to reduce the shakes





Picture stabilization and camera motion

Activating guides (Rule of thirds grid)





Setting focus



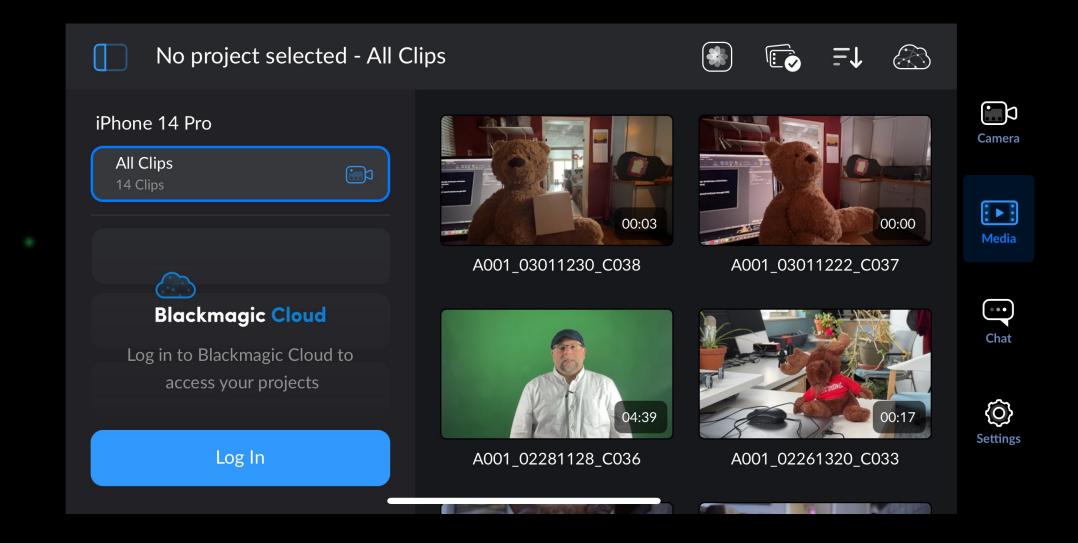
Focal point and Depth of field

0:00:00

D

IME-LAPSE

Your media clips



Settings: Codec and Color Space

Settings	Record	
Record	Codec	H.264 > Camera
Camera	Resolution	4K >
Audio	Color Space	Rec.709 > Media
Monitor	Timecode Display	Record Run >
Media	Timelapse Recording	Chat
LUTs	Capture 1 Frame Every	1 Minute >
Presets	If Media Drops Frame	Alert >
Accessories		

Settings: Camera

Settings	Camera		
Record	Enable Vertical Video		Camera
Camera	Trigger Record Indicator	None >	
Audio	Use Volume Button to Trigger Record		i ►i Media
Monitor	Lock White Balance on Record		
Media	Shutter Measurement	Speed >	Chat
LUTs	Flicker Free Shutter Based On	50Hz >	
Presets	Lens Correction		Settings
Accessories	Anamorphic De-Squeeze	None >	



Film Techniques: The Language of Film



Language of film: compositional techniques

Form follows function

- Shots / Frames: Video clips with (hopefully) deliberately chosen perspectives and movements to craft a narrative.
- Composition / Blocking: Determining the perspective, position and movements of subjects and objects in relation to one another.
- **Representations** / B roll: Shots that are related to the main action of a given scene and can be woven in during editing to serve the narrative.



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 Pacing (cuts)
Why (internal decisions making of the subject, or emotional effect upon)	Extreme Close Up , sequence of other shots explaining back story

Planning shots with story/editing in mind

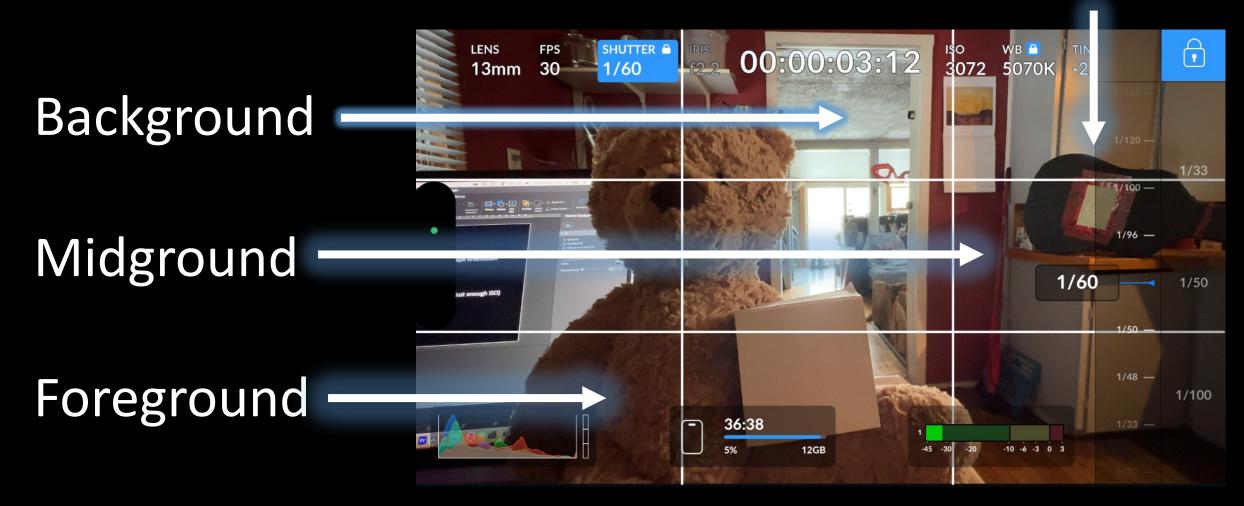


(1)> (1)> = 100 - 100



Composing shots for depth

(Bonus: Shot Blocking)



Shot movements / perspectives: Avoiding the way we usually see everything Dolly VS Pan High / Low Orbital Crane VS Tilt Static

Camera Movement and Effect

Movement	Effect
Dolly (vs Pan): Gimbal (Stabilized: following behind, in front, beside)	Expresses flow, propels action
Orbital / circling (vs static)	Explicit emphasis on a subject, stops time
Crane (vs tilt)	Establishes context (often with wide angle)
Handheld (with ninja walk)	Used to create a sense of immediacy, chaos, or realism.
High / low static (vs eye level)	Meet a subject on its own (vs. the viewer's) terms
Move in / Pull out	Focusing in and out of a subject or action
POV (Point of View) – the way we see everything	Subjectivity / eye of the beholder

Timeline 1 V

B-roll footage to fill out narrative (and sometimes cover mistakes)

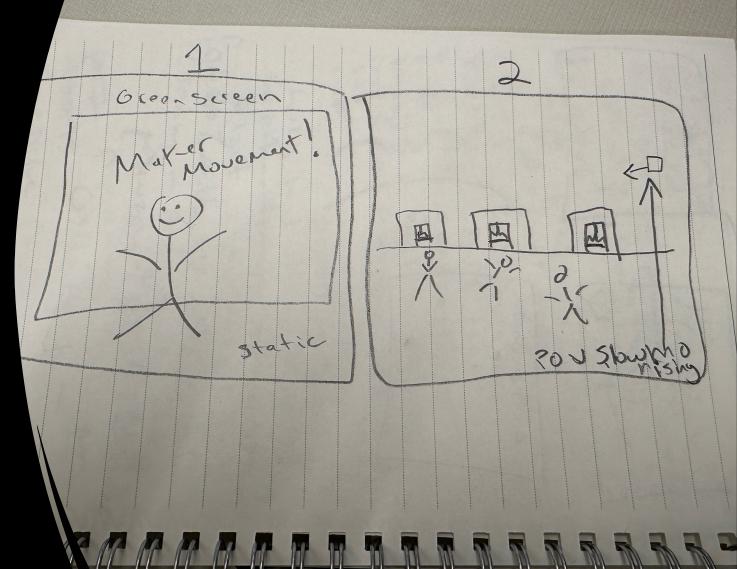




01:00:22:03

Shot list

- Sequence of video clips to be captured
- Details about composition, movement, perspective
- B-roll is included but some can be looser and spontaneous
- Most efficient order for shooting (vs. following the video's timeline)



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

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)?

