



**the Filmmaking Studio of the Research
Commons.**



Action packed agenda

30 Minutes

- Moving image photography (camera + lighting + sound)
- Language of film
 - Compositional techniques (shots, motion, transitions)
 - Self-presentation
 - Green screen + teleprompter

30 Minutes

- Planning and executing a short video

45 Minutes

- Editing the video using free software

A

30

4K



00:00:00

AE/AF LOCK

C

D

3

2

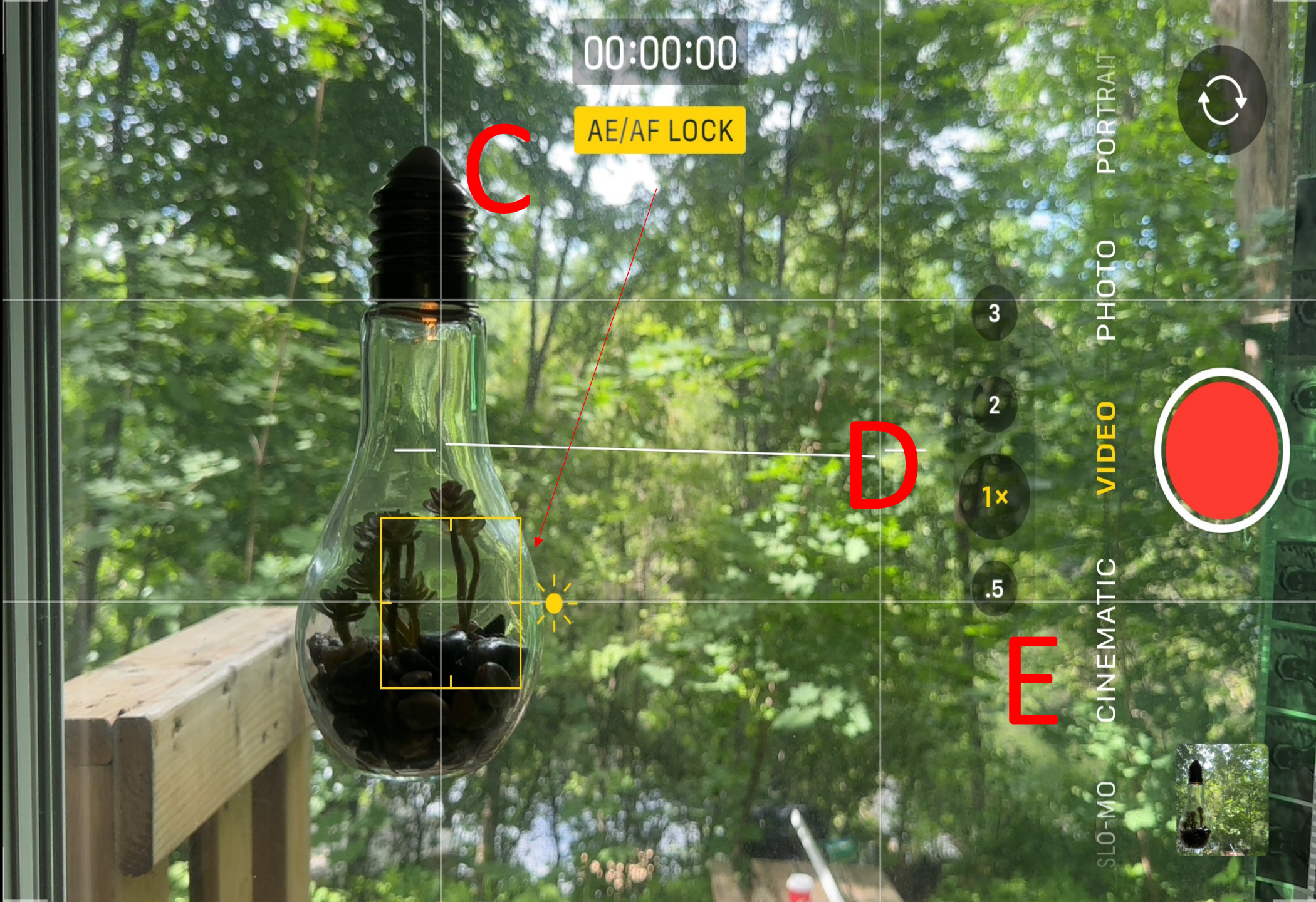
1x

.5

E



SLO-MO CINEMATIC VIDEO PHOTO PORTRAIT



iPhone Video shooting legend (iPhone 14)

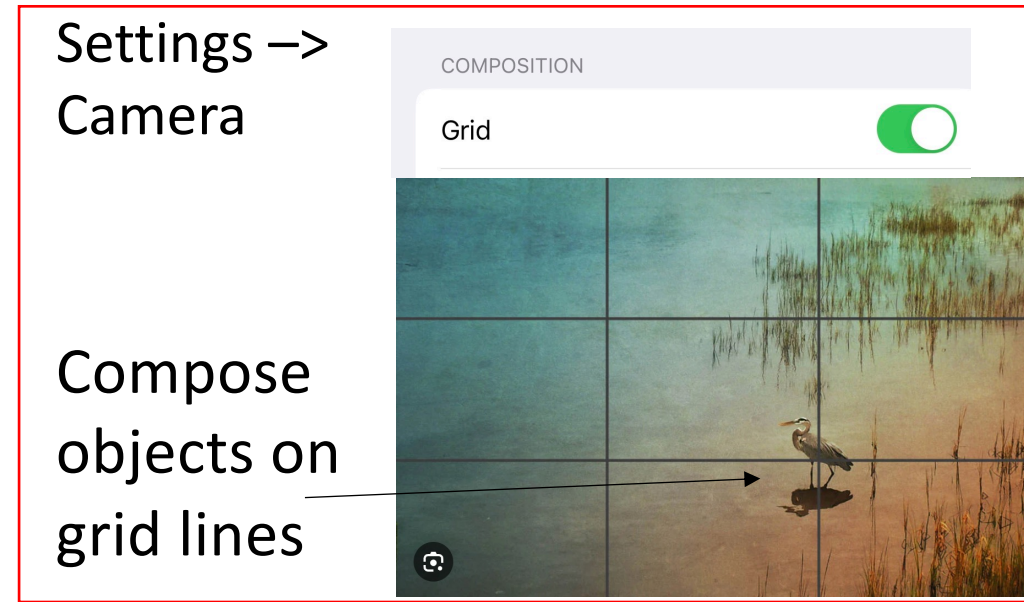
A: 4K Resolution / 30 Frames per second optimum regular speed shots
4K or 1020 Resolution / **60 Frames per second for slow motion shots**
(for 4K at 60 fps, you may need to go into your Settings → Camera...)

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



00:00:00

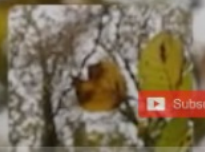
AE/AF LOCK

Focal point and Depth of field

VIDEO PHOTO

SLO-MO

TIME-LAPSE



Ultra Wide - $f/2.4$

Main Wide - $f/1.6$

Telephoto - $f/2.2$



Alternate video capture apps: BlackMagic Cam



STANDARD THREE- POINT LIGHTING



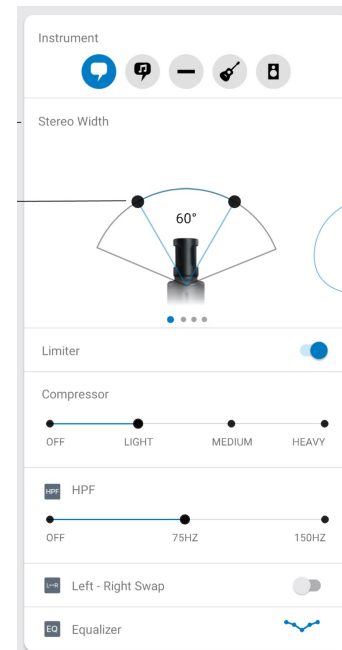
(Flash an absolute white card at the start of a video clip to help with later colour correction)



Picture stabilization and camera motion

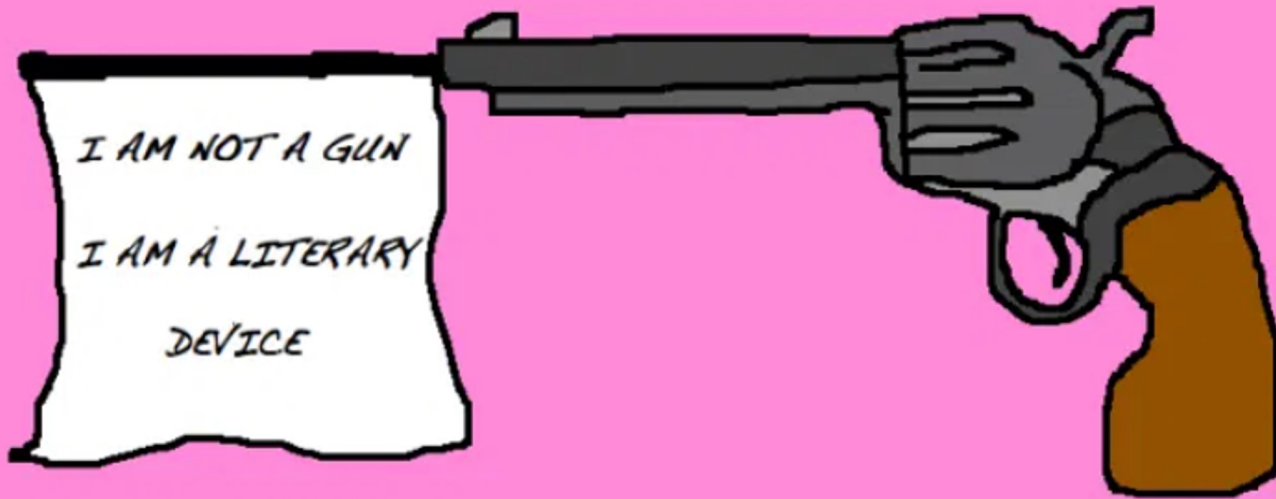
Sound recording

- 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.





Film Techniques: The Language of Film



Language of film: compositional techniques

Form follows function

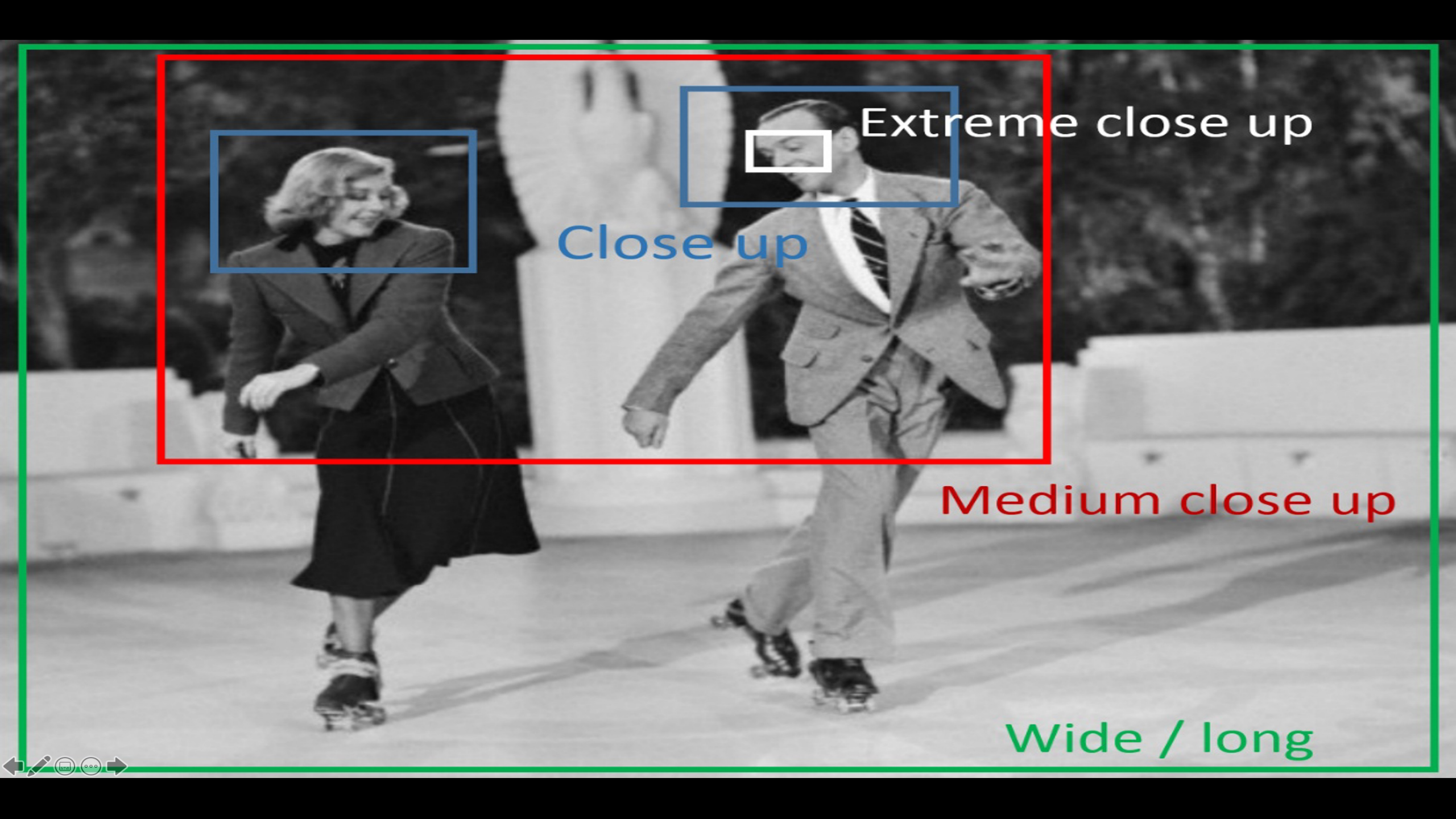
- **Shots / Frames:** Video clips with (hopefully) deliberately chosen perspectives and movements to craft a narrative.
- **Composition / Blocking:** Determining the perspective, position and **movements** of subjects and objects in relation to one another.
- **Representations / B roll:** Shots that 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 (or wide) shot
Who (the subject)	Close up
What (drama/actions performed by or on subject)	Long or wide 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...) <i>-see 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

Movement	Effect
Gimbal (Stabilized: following behind, in front, beside)	Expresses flow, propels action
Orbital / circling	Explicit emphasis on a subject, stops time
Rising	Establishes context
Handheld	Used to create a sense of immediacy, chaos, or realism.
Static high / low	Provide alternate visual perspectives to eye level, meets a subject on its own (vs. the viewer's) terms



Extreme close up

Close up

Medium close up

Wide / long



RULE OF THIRDS



grumo.com/lessoncheck



▶ ⏪ 🔊 0:49 / 9:46





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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 colours, brightness, and position of each
- Don't wear green

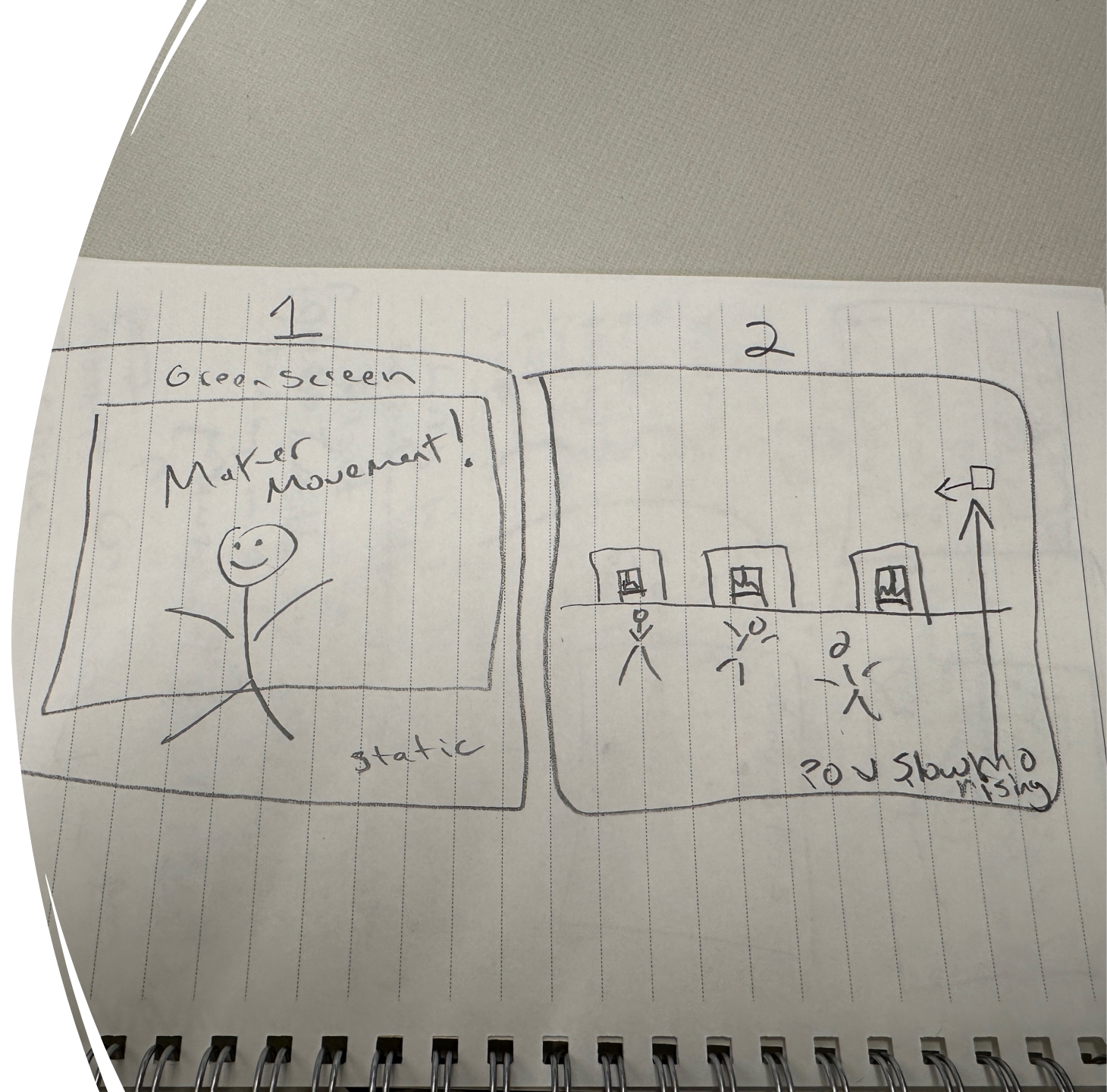
Action Plan

- What stories would you like to tell (message + purpose)?
- 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)?



Shot list

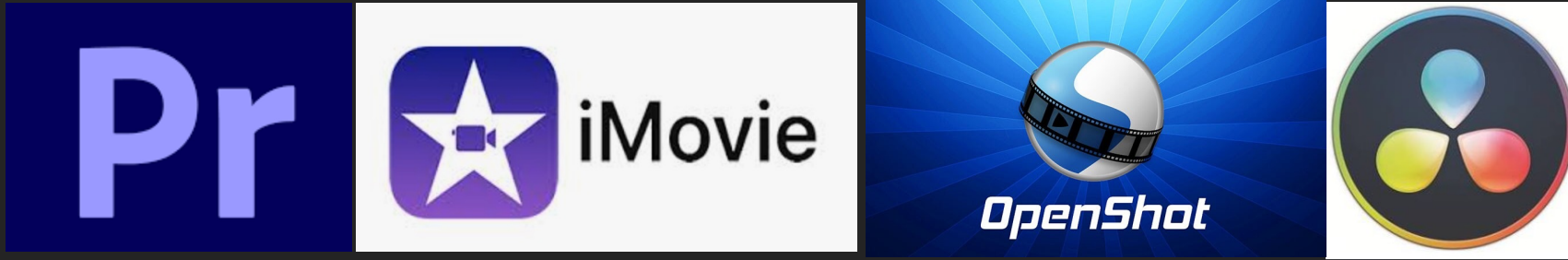
- Sequence of video clips to be captured
- Details about composition, movement, perspective
- Most efficient order for shooting (vs. following the video's timeline)



Today's shoot

- Maker Movement / Fab Lab promo
 - 4K, 30 FPS, vertical/portrait orientation
 - Intro / Outro: Green Screen actor
 - Fab Lab shots
 - Establishing / wide angle
 - Break into groups of three: representative (B-roll) shots for:
 - Problem solving
 - Collaboration (Lightboard Studio)
 - Constructionism
 - Failing Forward
 - Empowerment
 - Upload them to the QR-coded OneDrive folder --→:





<https://lib.unb.ca/guides/filmmaking-101-workshop>

Film editing

- Desk/laptop video editing software: Adobe Premiere Pro, Final Cut Pro, **Davinci Resolve**, **iMovie**, **OpenShot**, Powtoon (cartoons), Camtasia (screencasts)
- Phone apps: iMovie (for iPhone), Power Director (for Android), Adobe Premiere Clip, WeVideo

Media assets

- **freesound**

Downloadable sound effects under Creative Commons license

<https://www.freesound.org>

- **Uppbeat**

Four free downloads a month

<https://uppbeat.io>

- **Premium Beat**

Large archive of artists-supplied music that can be licensed individually (vs subscription)

<https://www.premiumbeat.com/>

- **VEED.IO**

Subscription-based video editor with soundtracking library

<https://veed.io>

- **Canva**

Images and video clips, free and subscription

<https://canva.com>

- **Artlist.io**

Subscription-based image, video, audio clips

<https://artlist.io>

February Workshop

Deeper Dive

- Personal presentation
- **Shots and composition**
- Lightboard
- **Advanced editing**
 - **Transitions**
 - **Colour**
 - **Audio**

