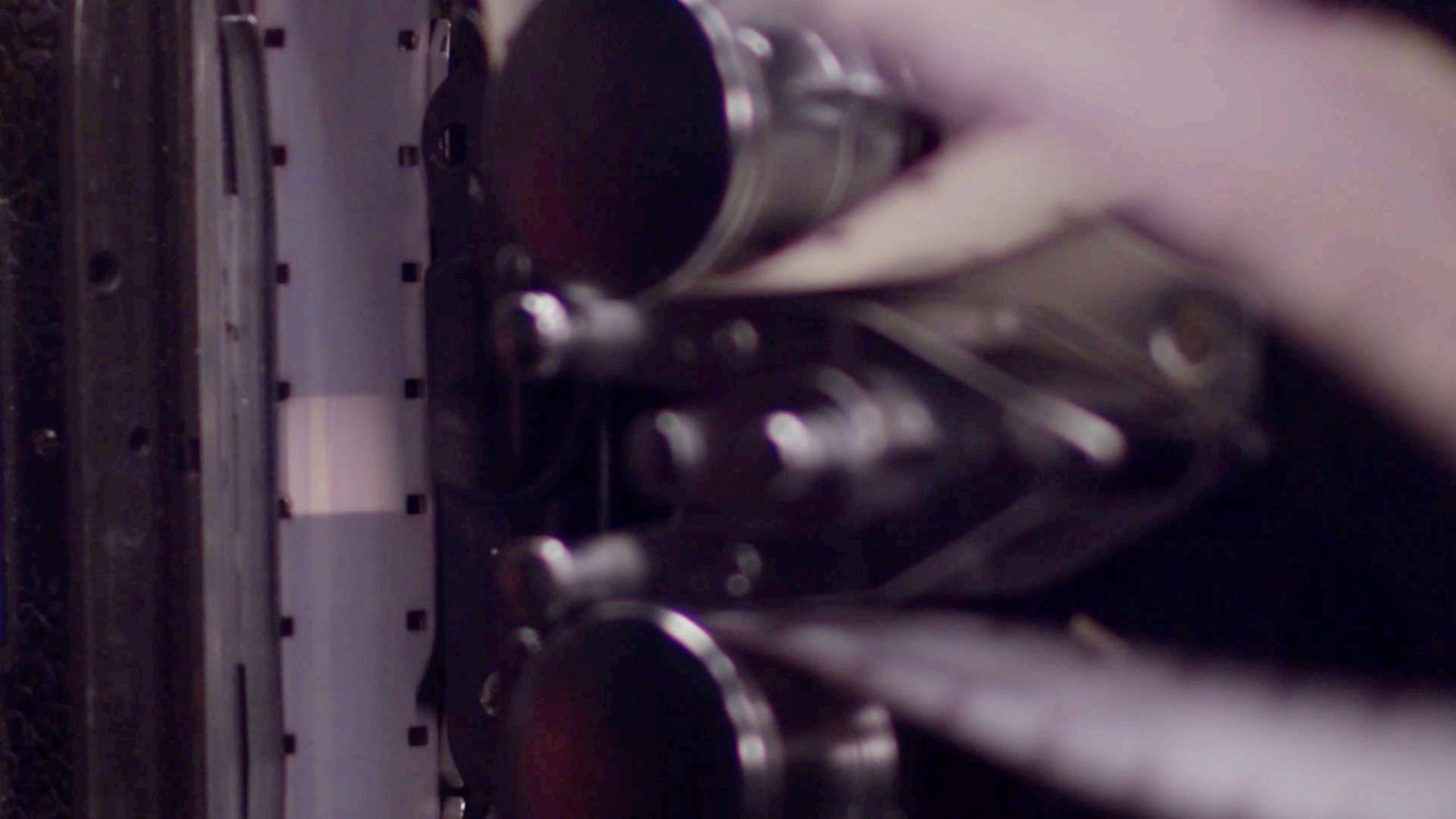
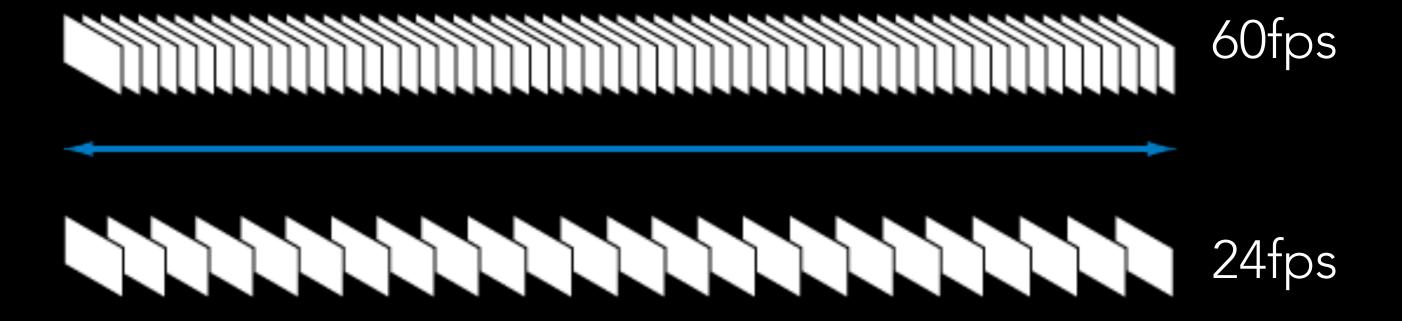
WEEK 8: BASIC VIDEO PRODUCTION

DIGITAL MEDIA E-5 EXPLORING DIGITAL MEDIA



FRAME RATES











~12 fps one frame indistinguishable from the next

~24 fps feels comfortable, natural motion

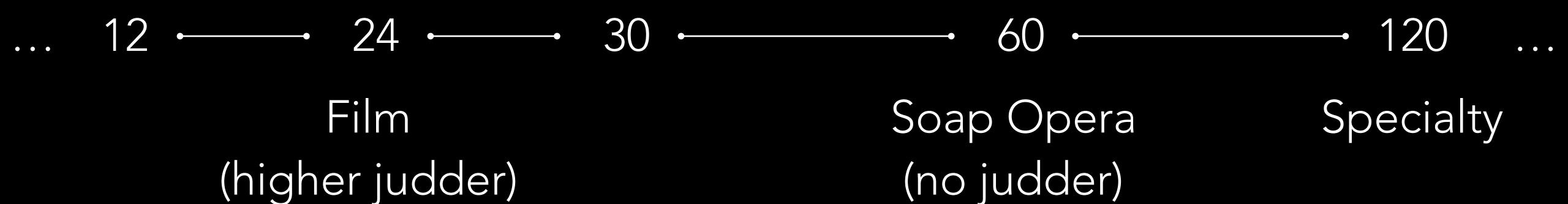
WHY 24 FRAMES PER SECOND (FPS)?



For more info: filmmakeriq

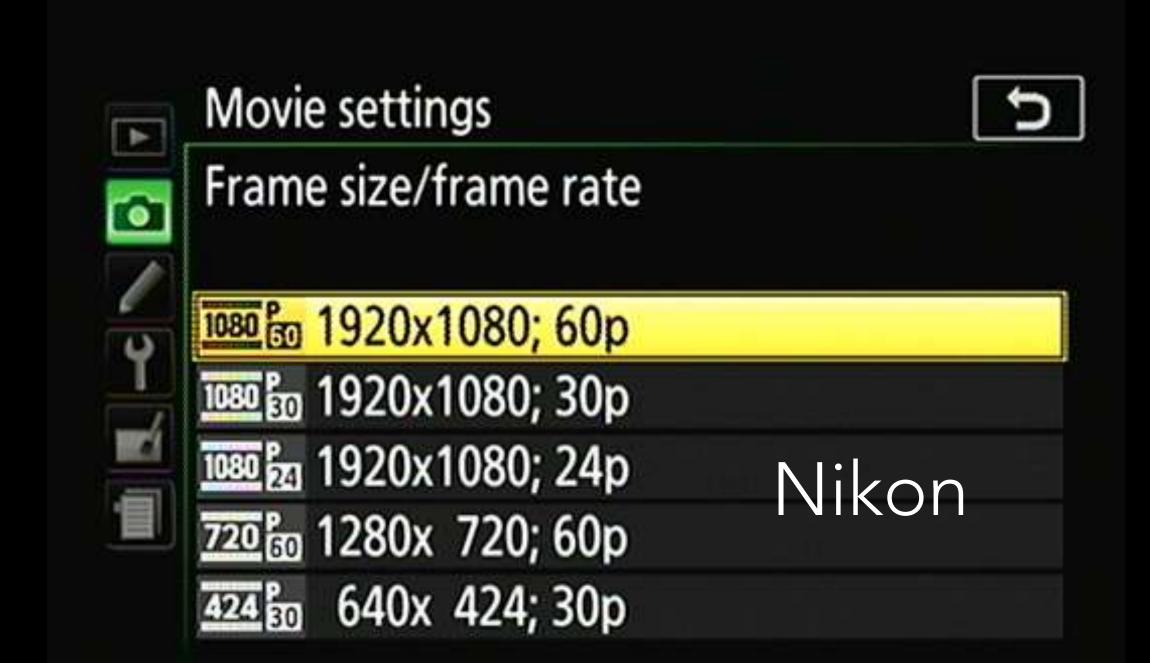
Film Strip from <u>filmstripcreator.com</u>

DETERMINING YOUR FRAME RATE



Video (reduced judder)







"OVERCRANKING" AND "UNDERCRANKING







OVER & UNDER CRANKING

"Captured" frame rate vs your "project" frame rate



















FRAME RATE

Watch these examples





EXPOSURE TRIANGLE

ISO

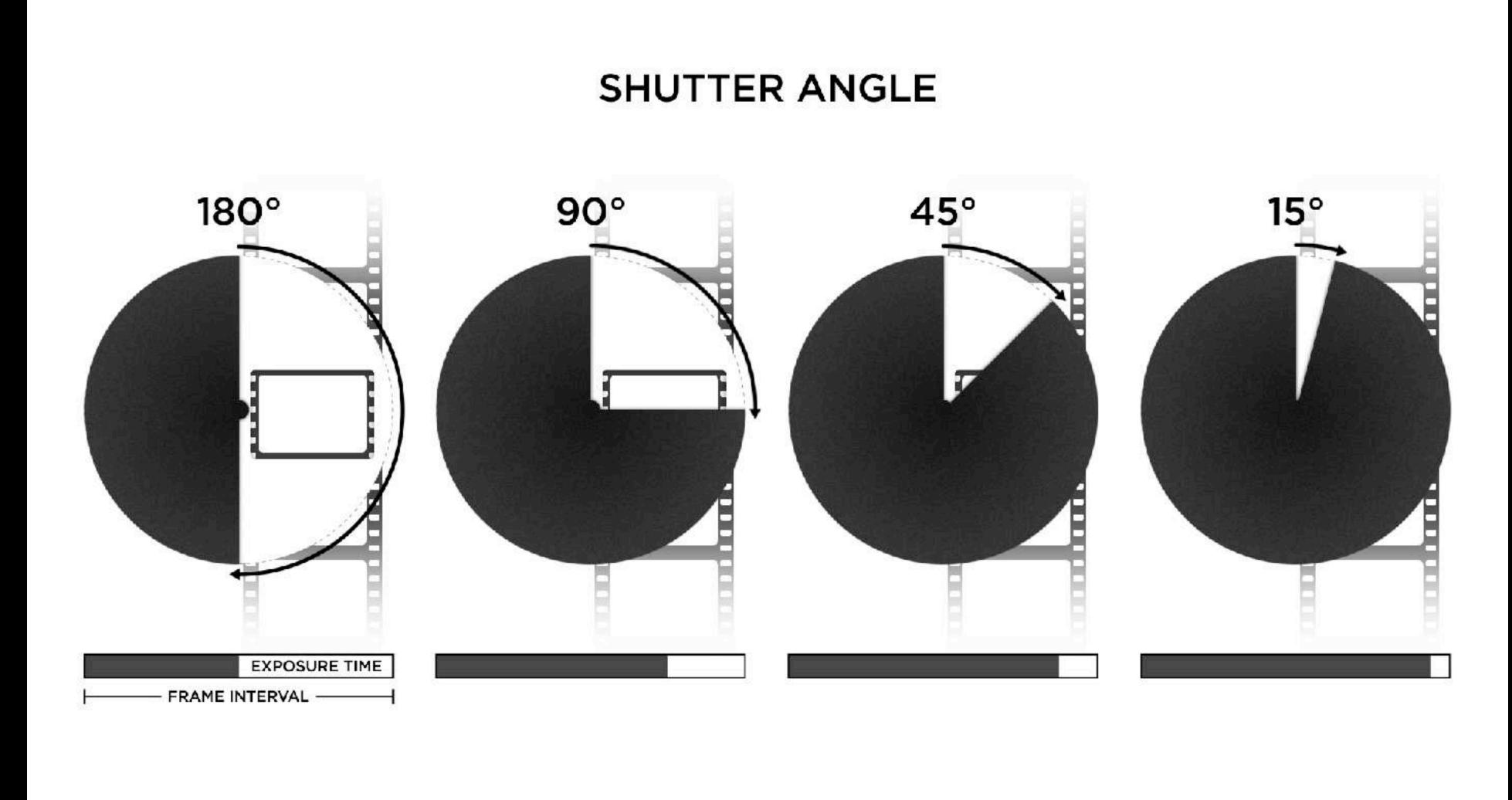
APERTURE

SHUTTER SPEED

SHUTTER SPEED



SHUTTER SPEED



Fractional
Equivalents
(24fps)

1/48 1/96

1/198

1/576

SO WHAT TO CHOOSE?

For a traditional cinematic look:

24 fps

1/48s shutter speed (180° shutter)*

^{*} some cameras can't do 1/48s, use 1/50 instead

























SHUTTER SPEED



SHUTTER ANGLE TO SHUTTER SPEED

Frame Rate vs Shutter Angle	24 fps	30 fps	60 fps	120 fps
360°	1/24s	1/30s	1/60s	1/120s
180°	1/48s	1/60s	1/120s	1/240s
90°	1/96s	1/120s	1/240s	1/480s
45°	1/192s	1/240s	1/480s	1/960s
22°	1/384s	1/480s	1/960s	1/1,920s



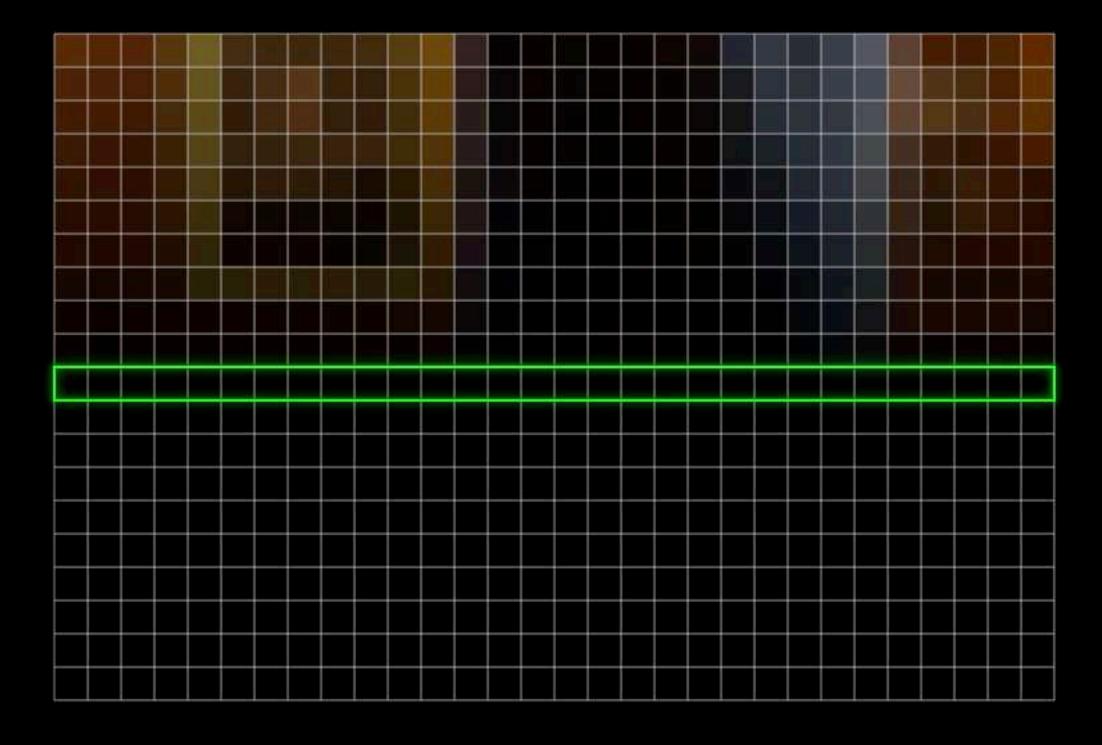
THE "JELLO" EFFECT



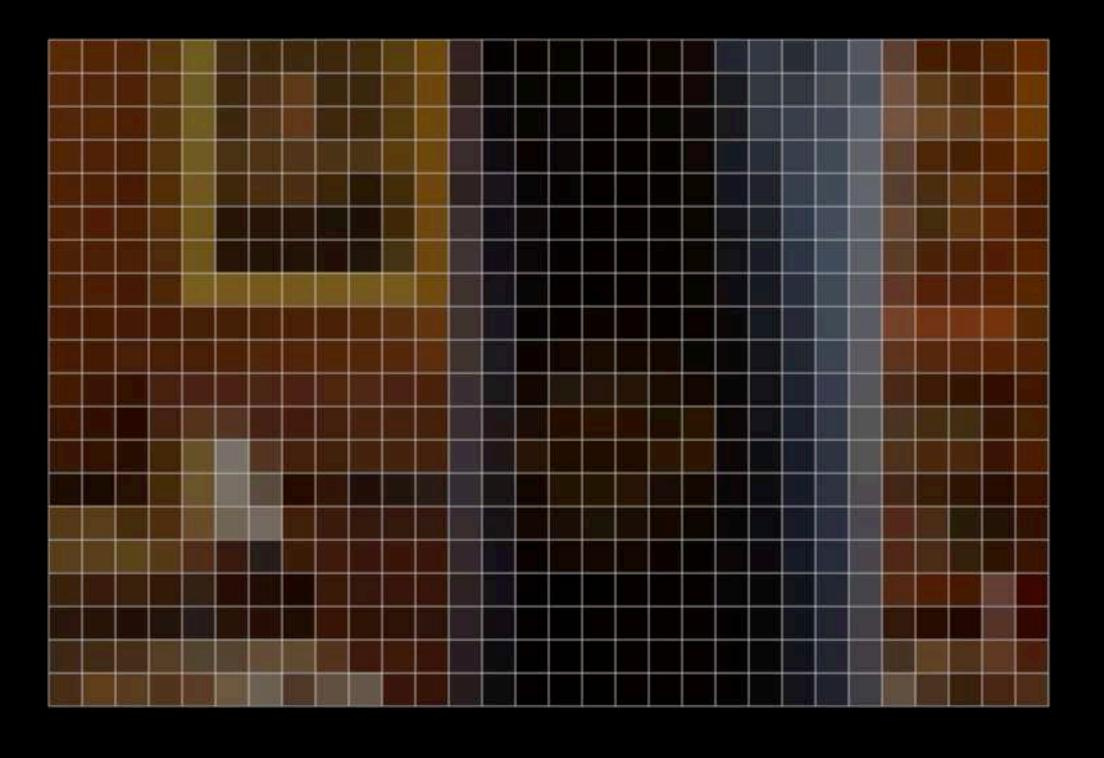




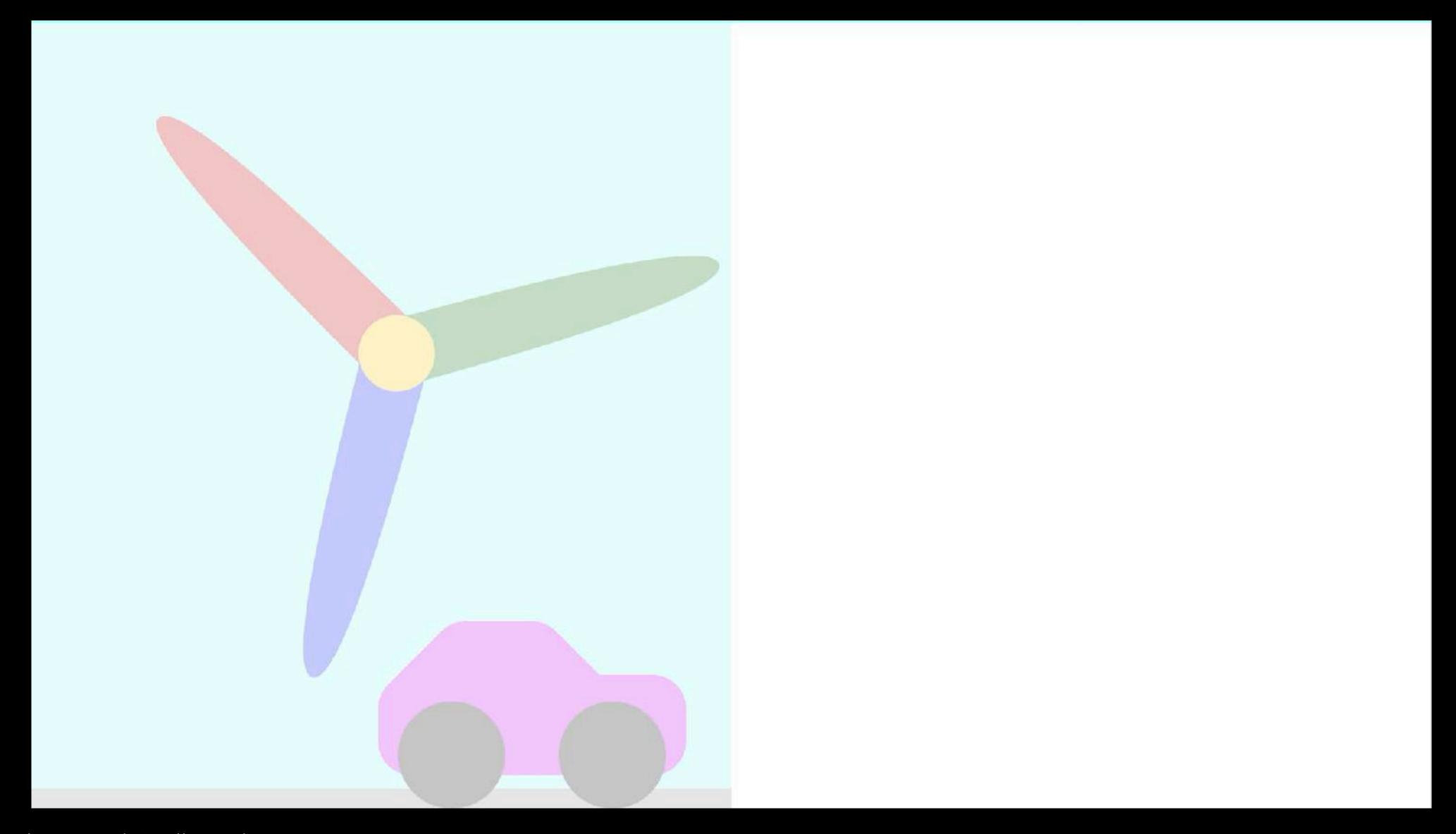
ROLLING SHUTTER



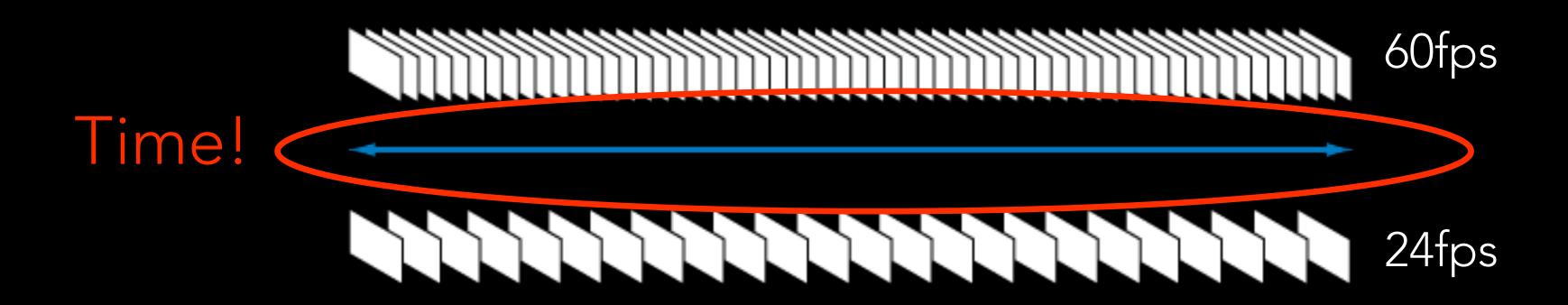
GLOBAL SHUTTER



ROLLING SHUTTER

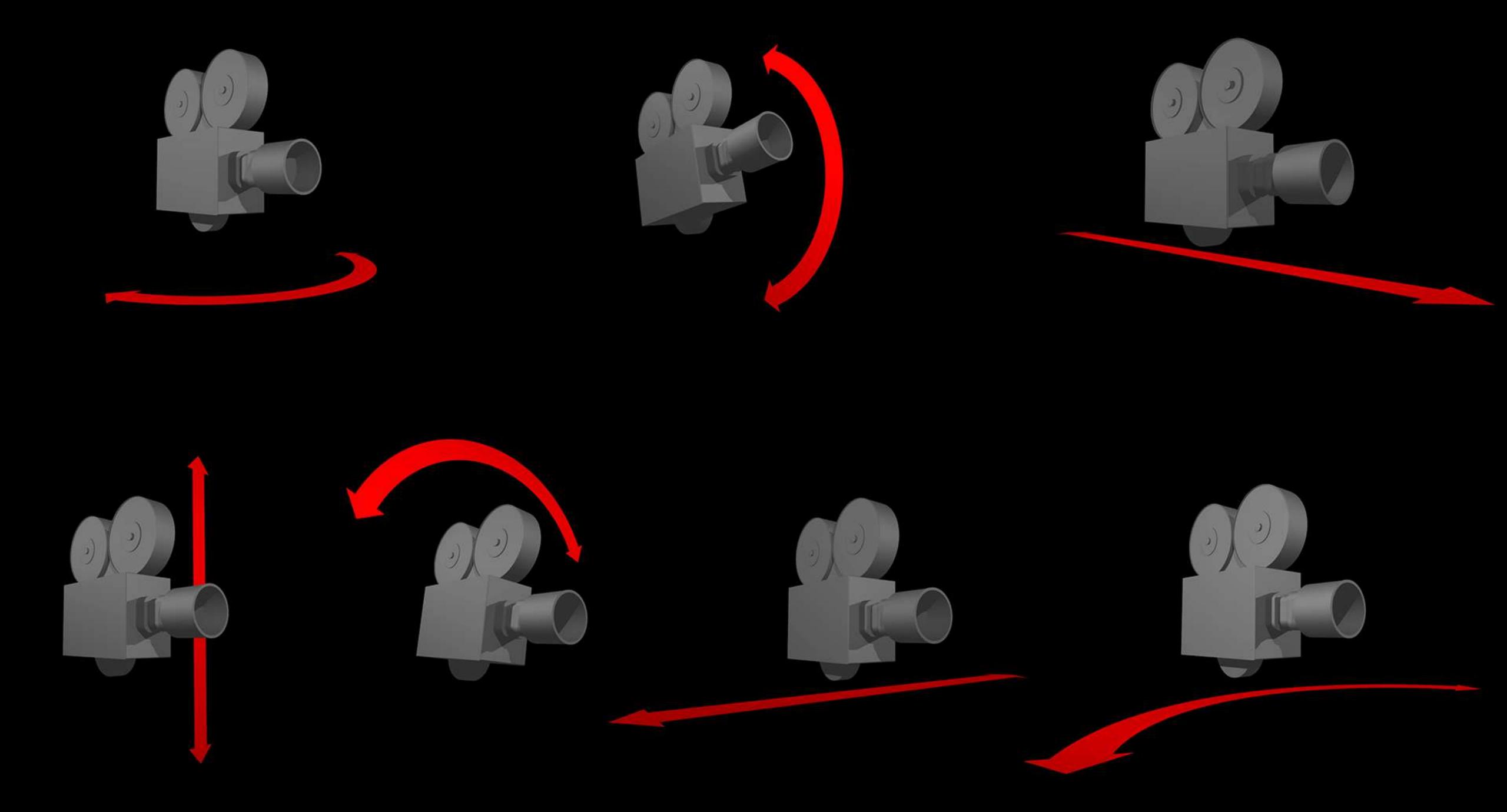


CAMERA MOVEMENT

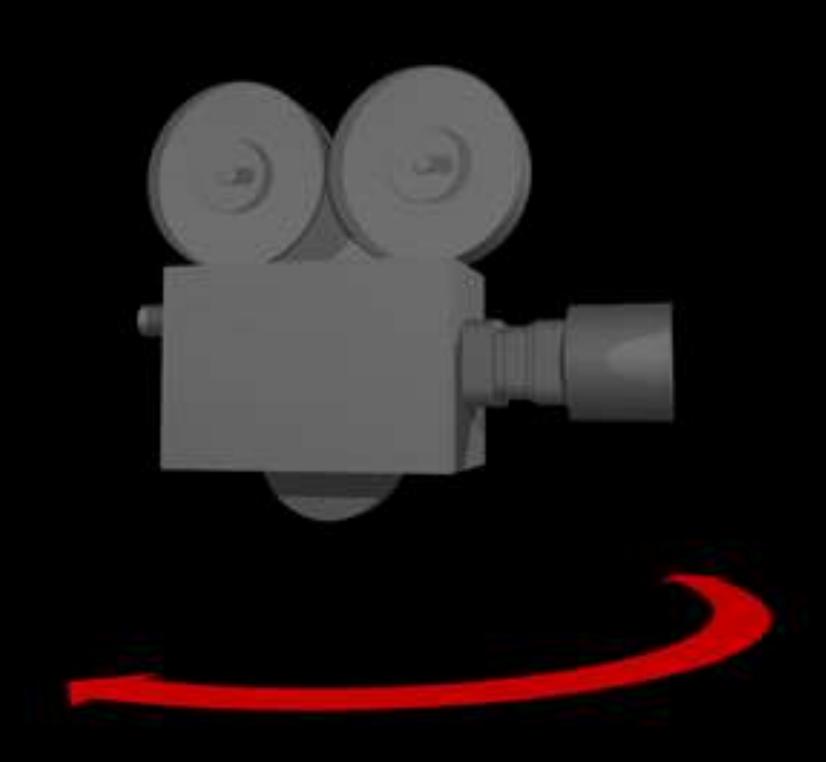


Starting frame

Ending frame



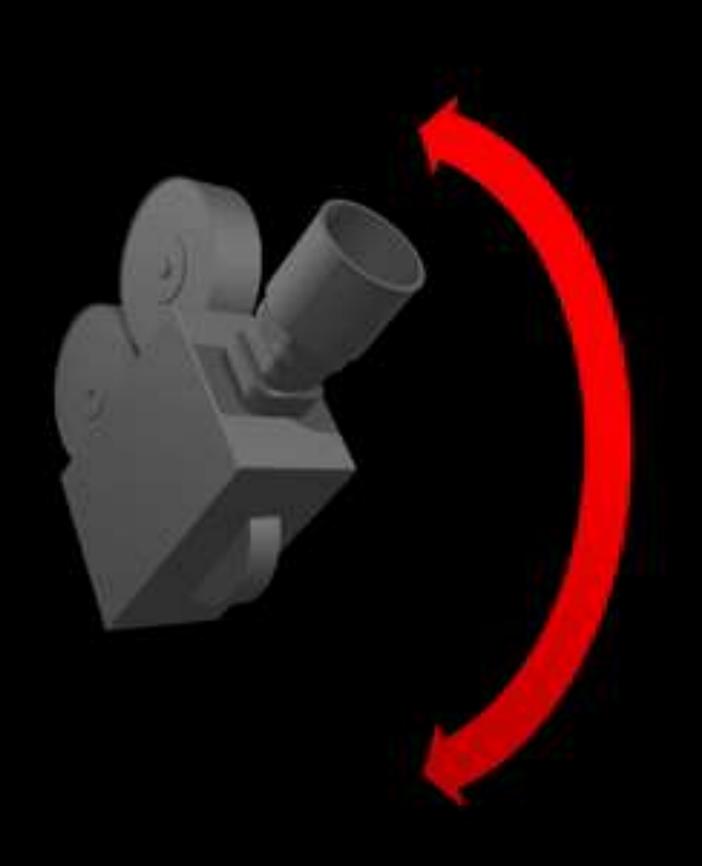
PAN



PAN



TILT

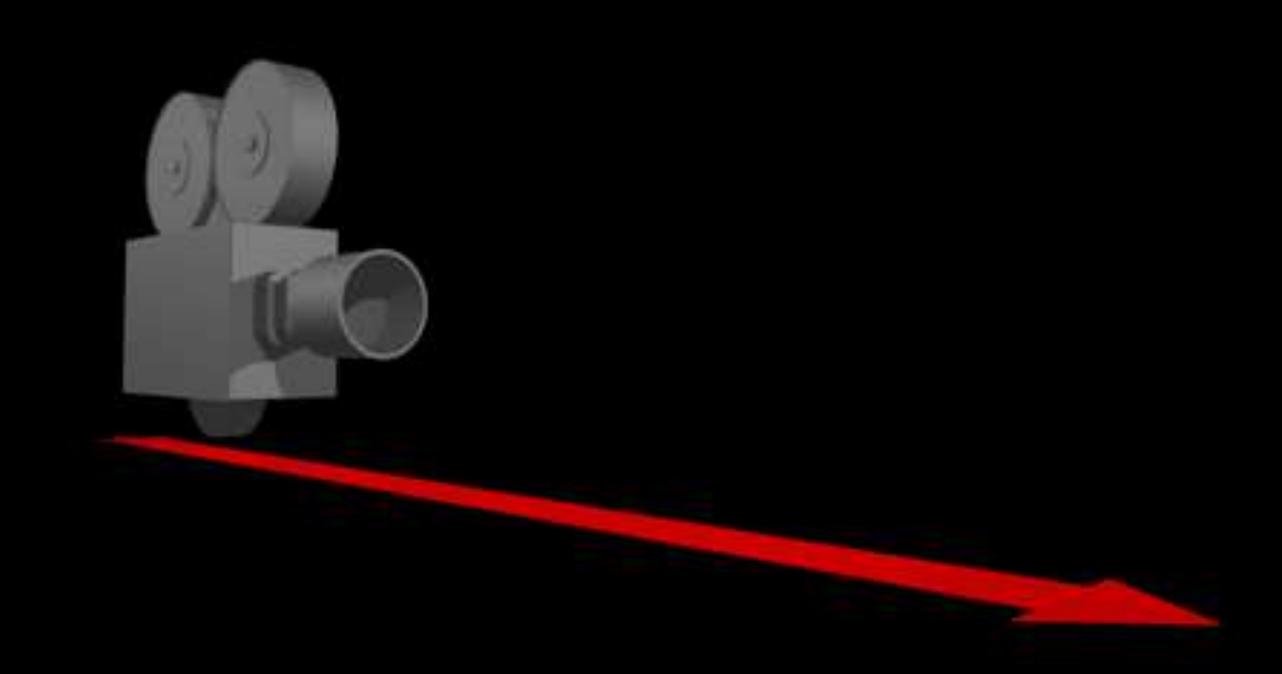


TILT

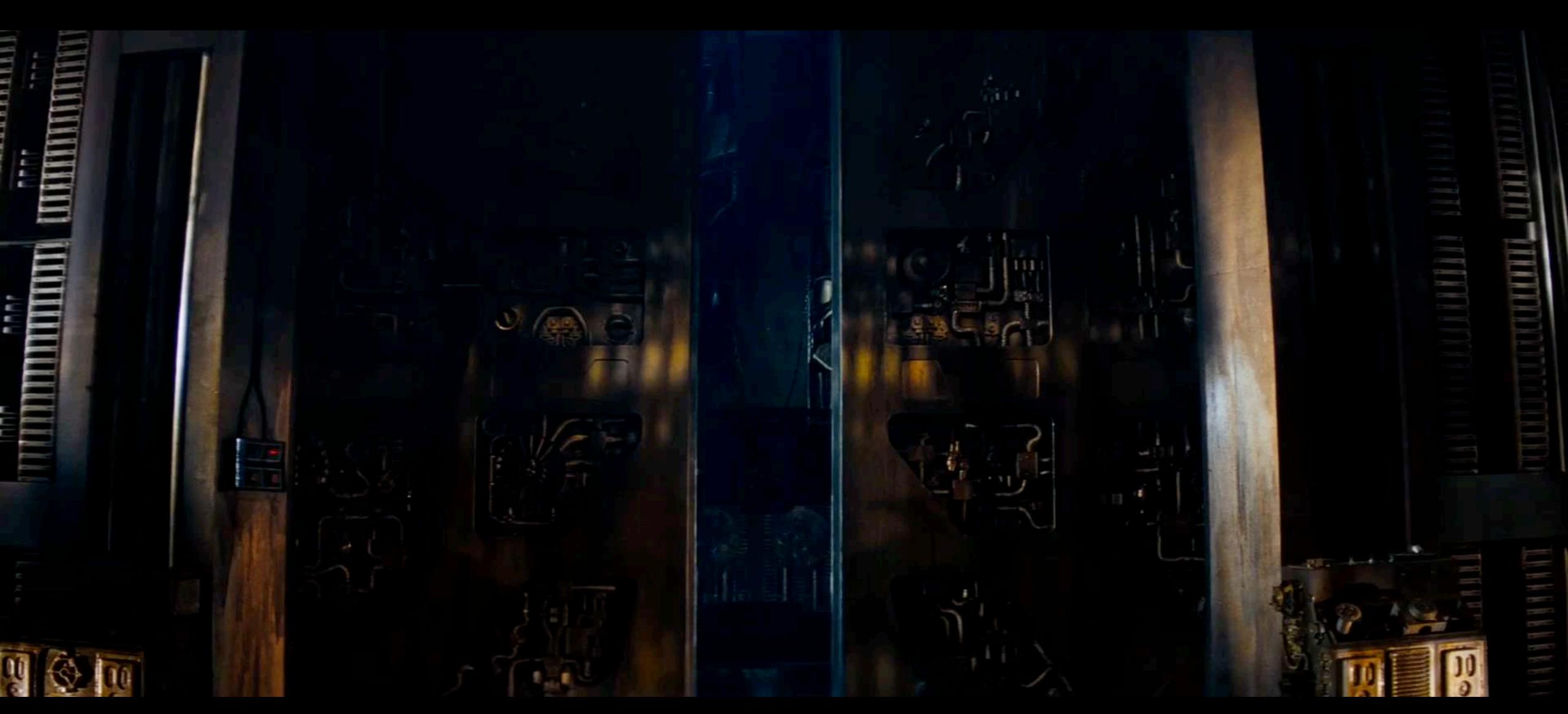


Star Wars: Episode VI - Return of the Jedi (1983)

DOLLY



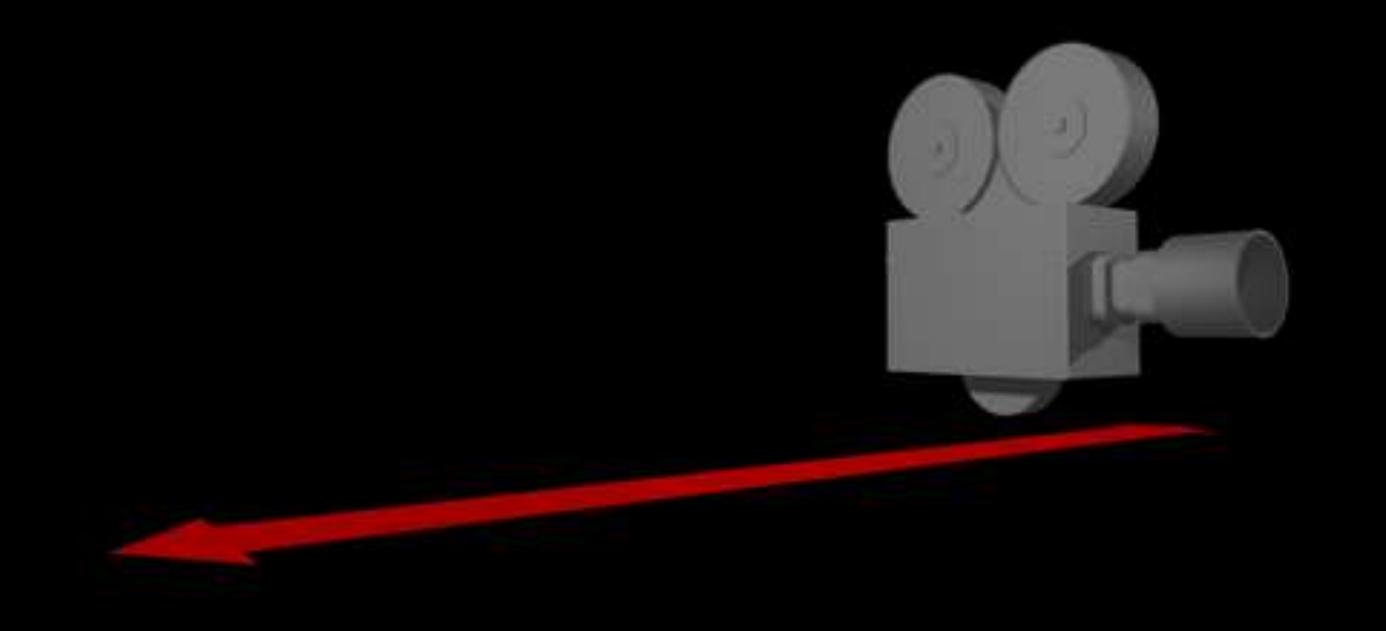
DOLLY



DOLLY



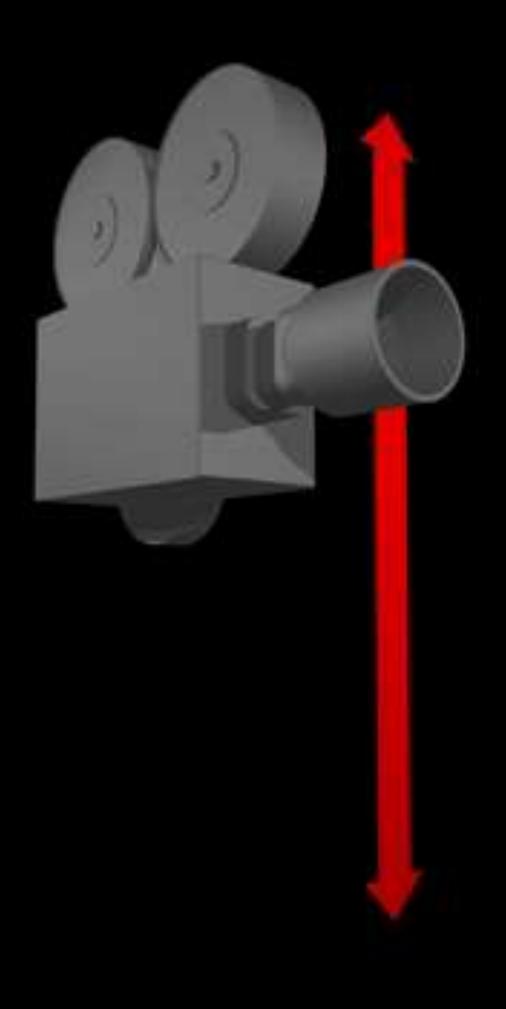
TRUCK



TRUCK



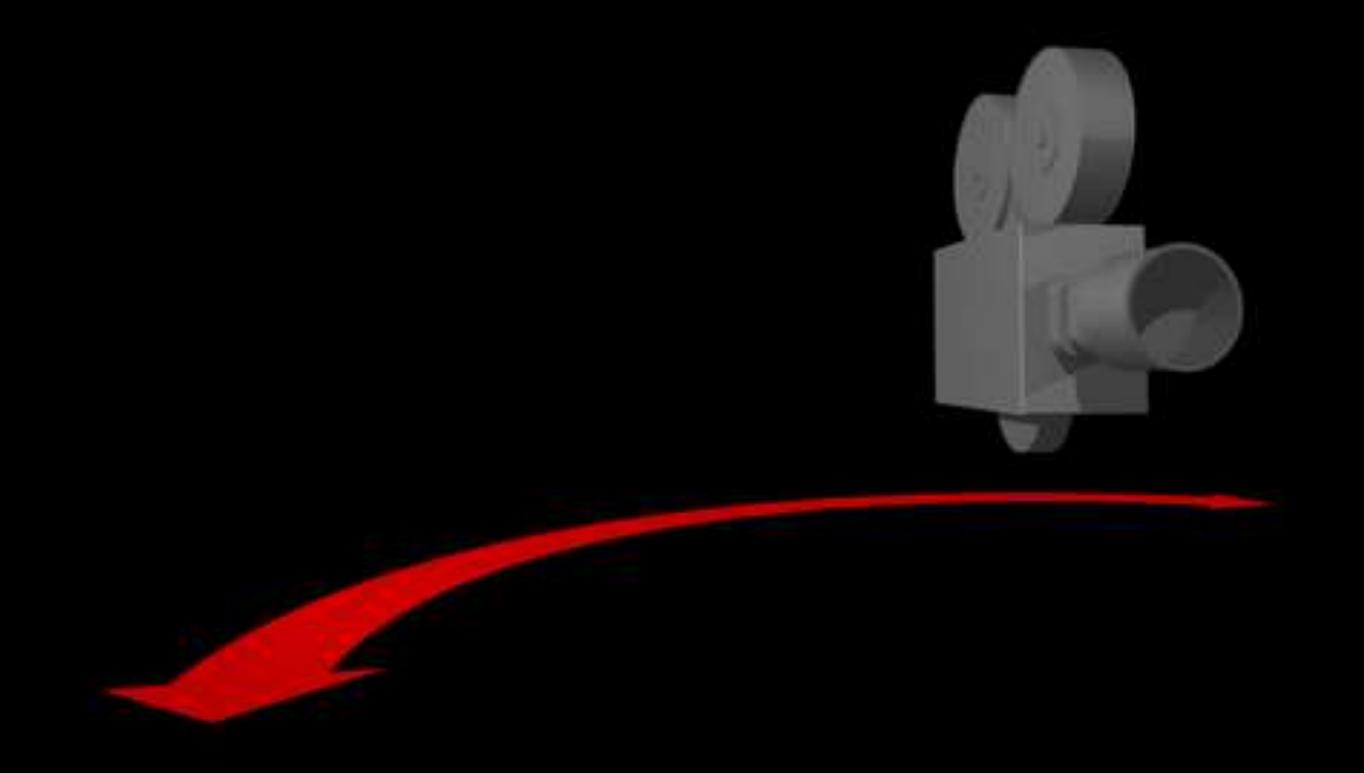
PEDESTAL (PED)



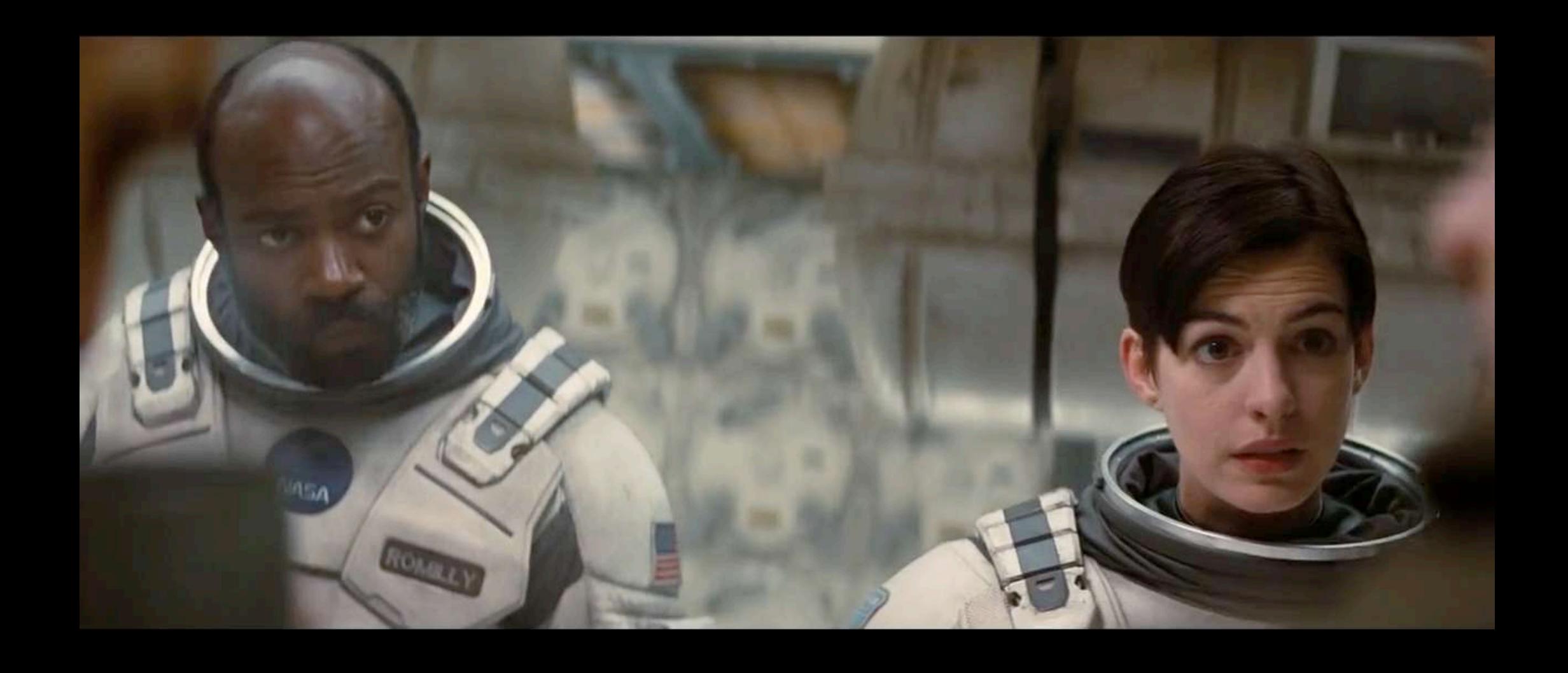
PED (PEDESTAL)

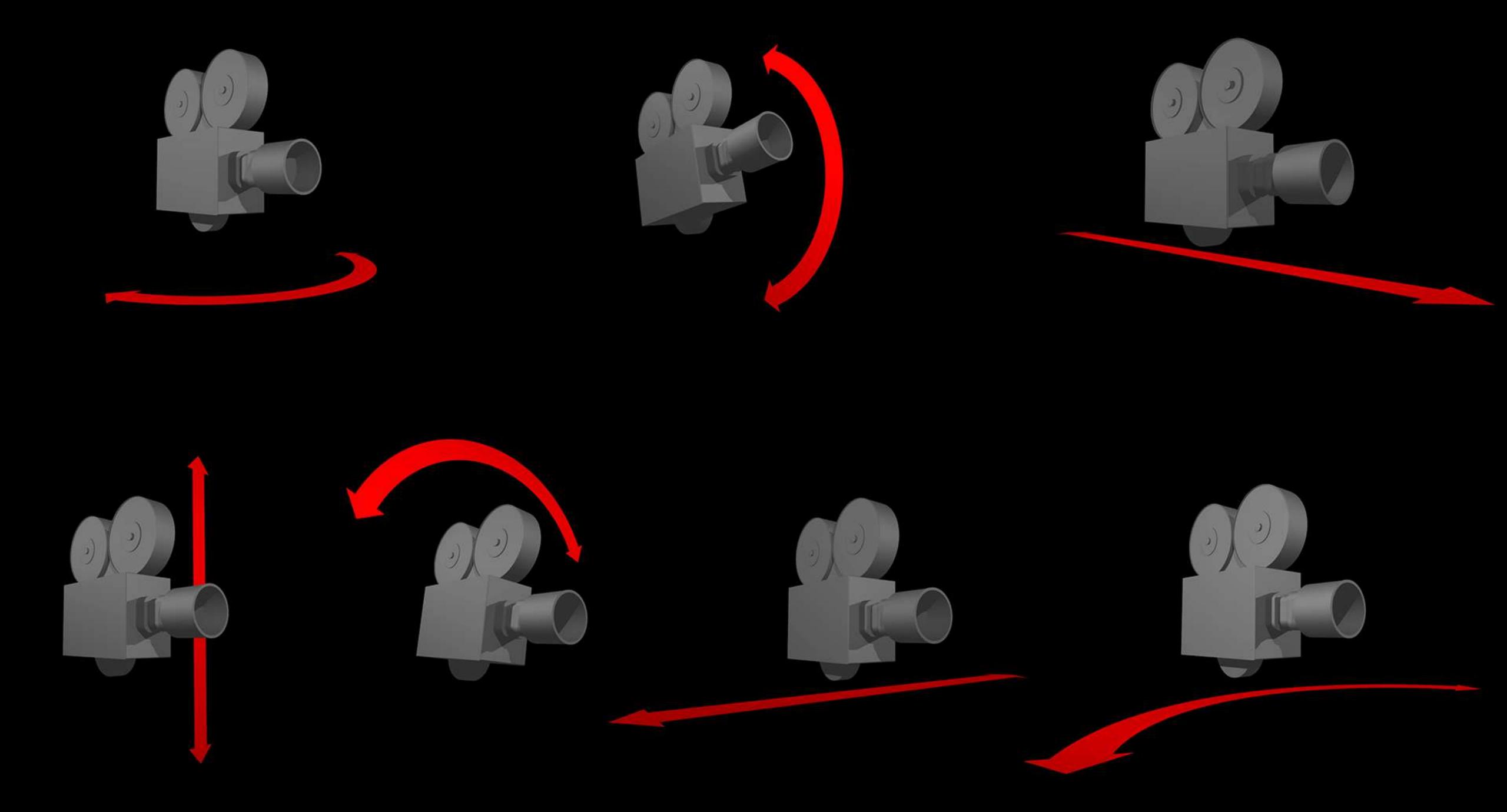


ARC



ARC





CAMERA SUPPORT

TRIPOD





MONOPOD



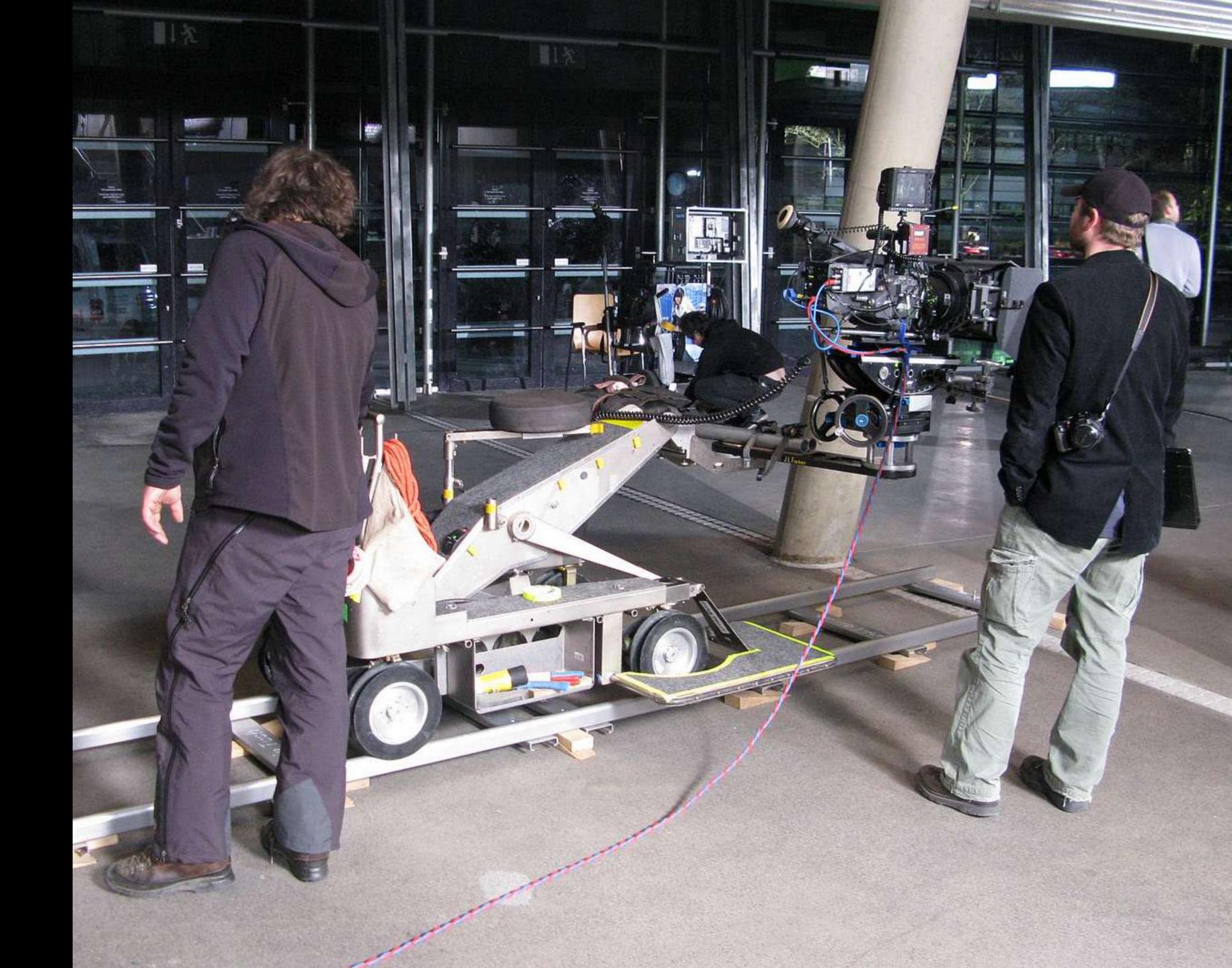
HANDHELD



SHOULDER



DOLLY



SLIDER



POV ACTION CAMERAS / DRONES







Mayank chachra Sinky

GIMBAL BASED STABILIZERS









GIMBAL BASED STABILIZERS



not stabilized



stabilized





PRACTICALLY SPEAKING

CONTINUITY

The representation of a smooth flow of time and space

- Always be aware of your continuity while shooting (actors/objects)
- Consider how to handle transitions between shots/scenes
- If you break continuity, do so intentionally!

CONTINUITY

Preserving screen direction

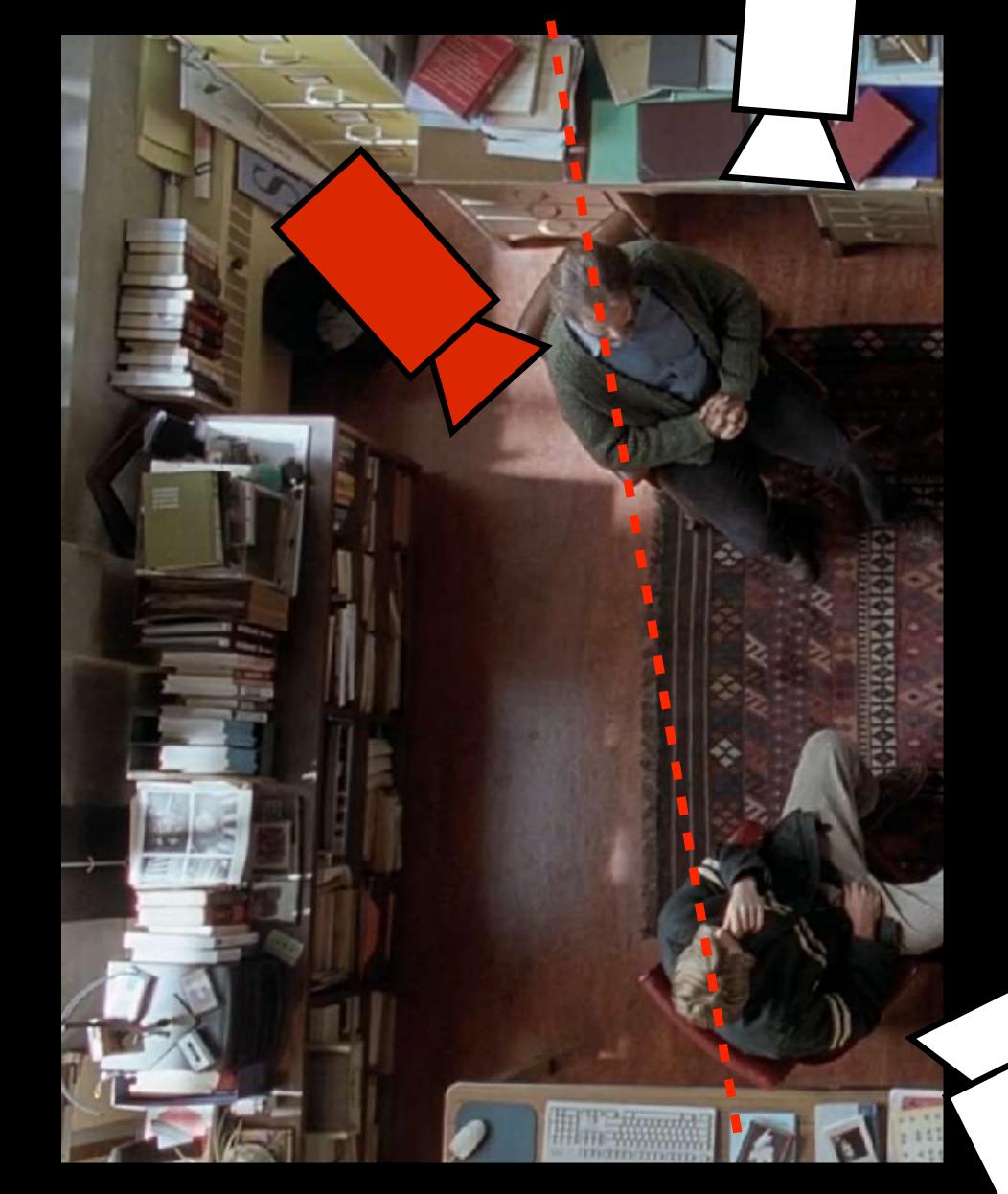
180 DEGREE RULE



180 DEGREE RULE



180 DEGREE ULE





180 DEGREE RULE







180 DEGREE RULE

- can be broken to intentionally cause confusion or for purpose
- fundamental to understand in establishing relationships
- can change the line by showing the crossing or seeing a glance

20% (30%) RULE

When changing a from one shot to another within the same scene, change by a factor of at least 20%

- Focal length
- Degrees of camera axis (position)

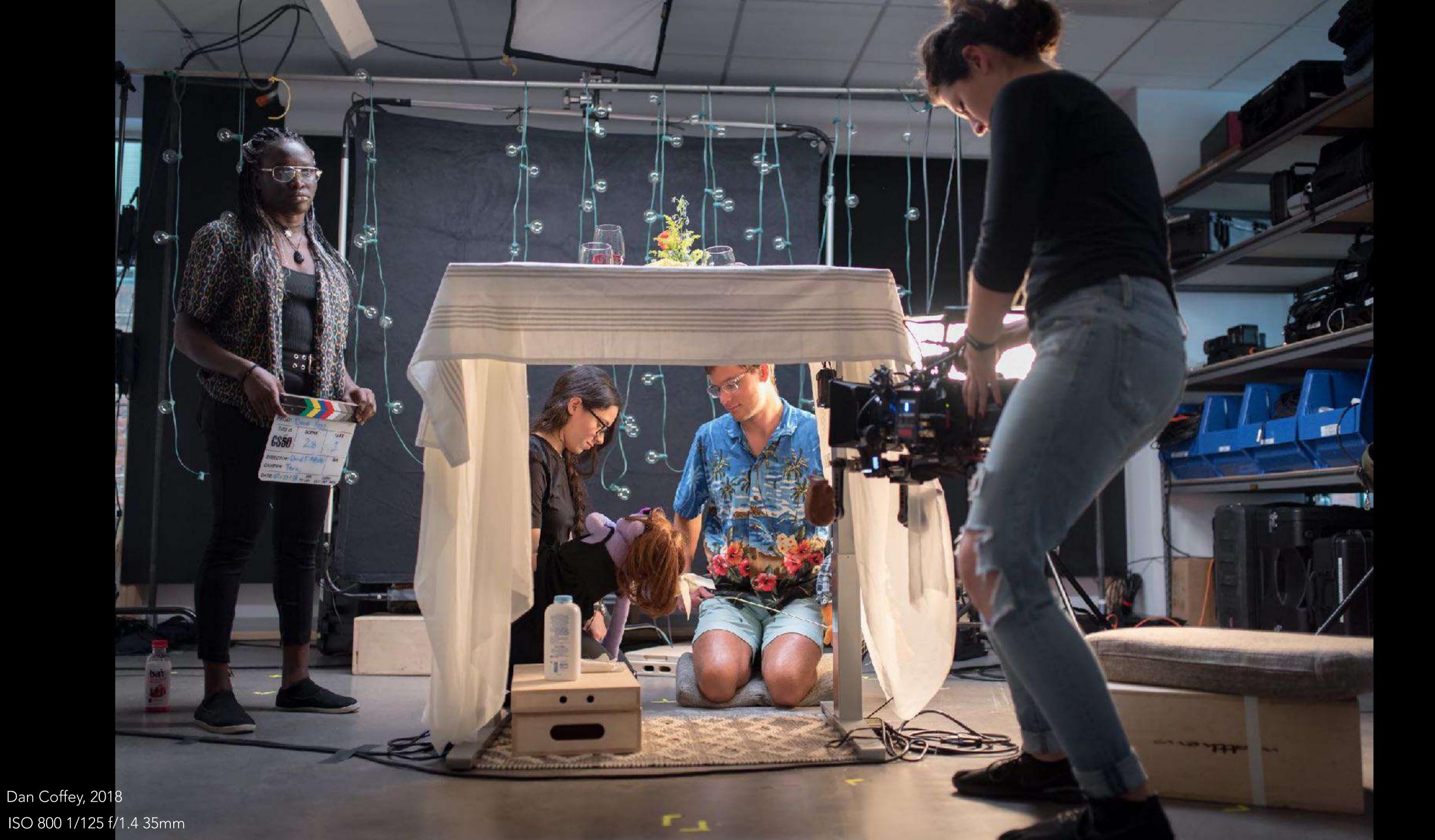
20% (30%) RULE



20% (30%) RULE



HOW TO COVER A SCENE



MASTER SHOT / COVERAGE

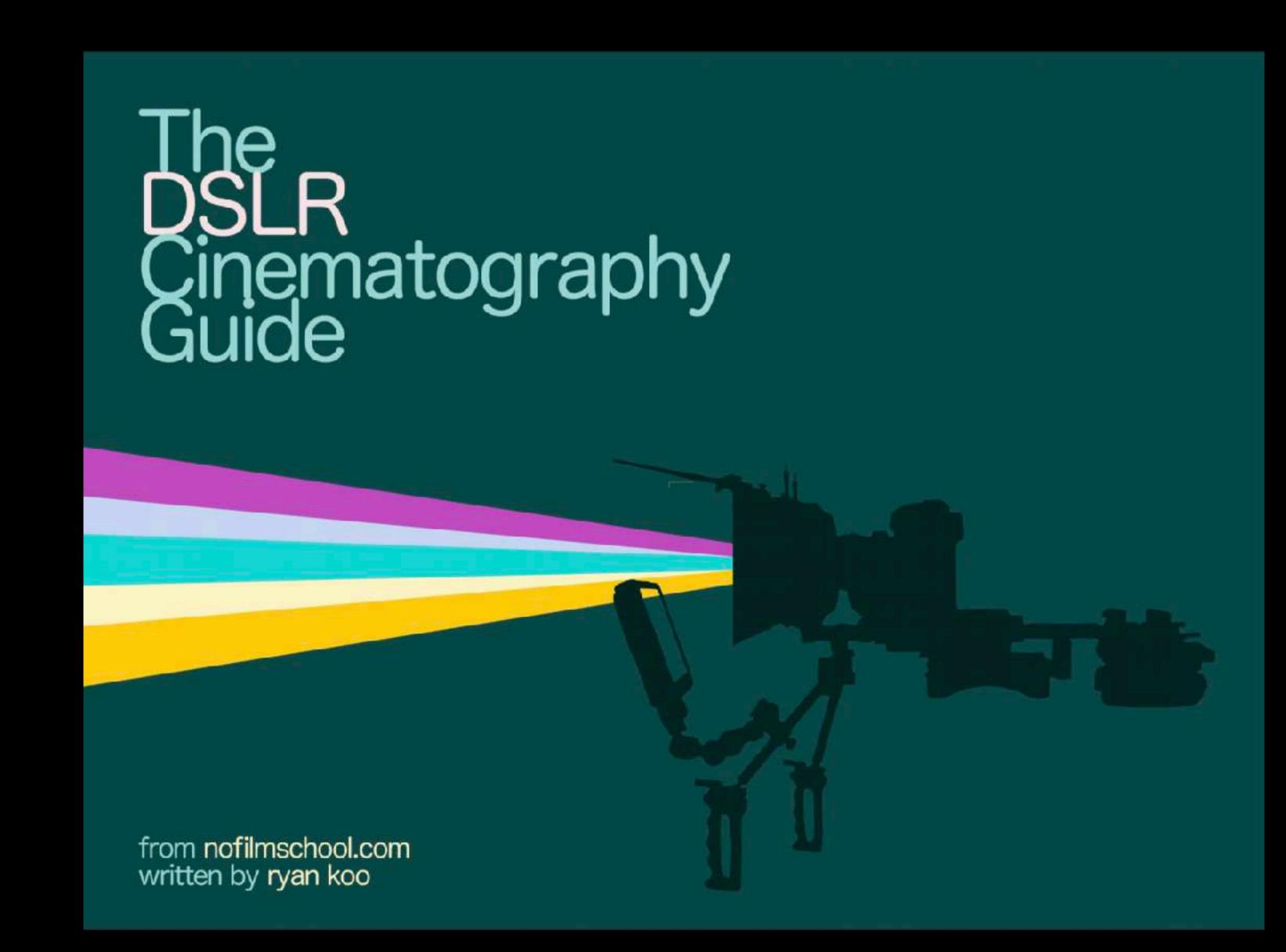
- 1. Shoot a wide shot that encompasses the whole scene
- 2. Work your way in on one side of your scene
- 3. Work your way in on the other side of your scene



OVERLAPPING METHOD

- 1. Start with establishing shot, but not whole scene
- 2. Change camera position and get next segment, overlapping some action from the previous shot
- 3. Repeat

FURTHER READING



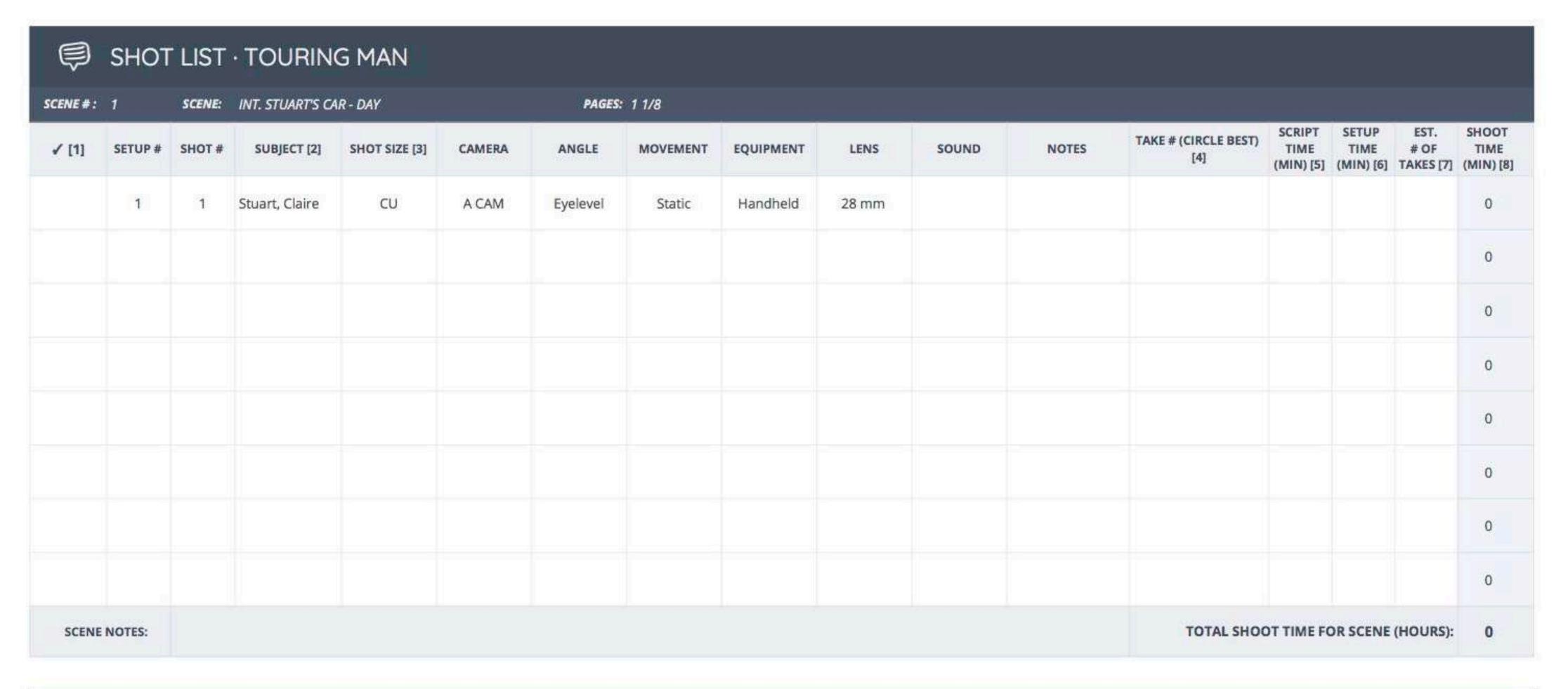
BUDGET

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×	_ A	В	С	D	E	F	G	Н
1		PRODUCTION EXPENSES						
25	20-15	Fitting / MPV / Wardrobe Allow			1		2	0
20	20-16	Mileage			1		2	0
27	21-00	Subtotal						0
28	22.00	SET DESIGN	AMOUNT	LINUT	v	DATE	TAR	TOTAL
29	22-00	SET DESIGN	AMOUNT	UNIT	X	RATE	TAB	TOTAL
21	22-01	Production Designer			1		2	0
32	22-02	Art Director			1		2	0
33	22-03	Research			1		2	0
34	22-05	Signage			1		2	0
35	22-06	Blueprints			1		2	0
36	22-07	Box Rentals			1		2	0
27	22-08	Car Allowance			1		2	0
38	22-00	Subtotal			- 05			0
39								
40	23-00	SET CONSTRUCTION	AMOUNT	UNIT	х	RATE	TAB	TOTAL
41	23-01	Construction Coordinator			1		2	0
42	23-02	Construction Labor			1		2	0
43	23-03	Construction Office Coordinator			1		2	0
44	23-04	Purchases			1		2	0
45	23-05	Rentals			1		2	0
46	23-06	Paint Disposal			1		2	0
47	23-07	Box Rentals			1		2	0
48	23-08	Shop Rentals			1		2	0
49	23-09	Loss & Damage			1		2	0
50	23-00	Subtotal						0
51 52	24-00	SET PRE-RIG & STRIKE	AMOUNT	UNIT	x	RATE	TAB	TOTAL
	V 3 C	Pre-rig & Strike Crews	Amicasia	31111		POCTE.	2	0
53	24-01	PER PROPERTY OF THE PROPERTY O			1			1.1

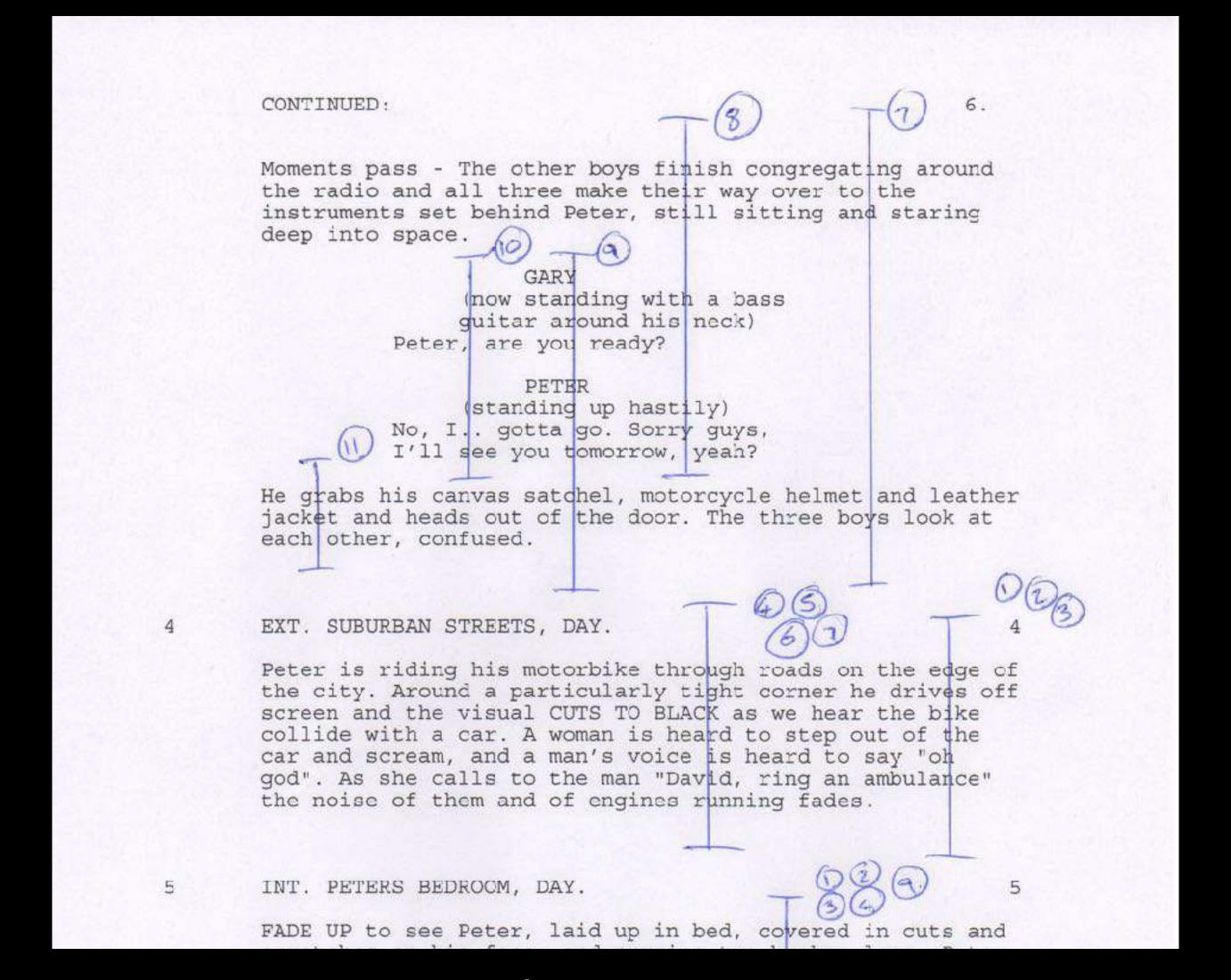
https://www.studiobinder.com/blog/downloads/film-budget-template/

SHOT LISTS AND VISUAL TRANSLATIONS

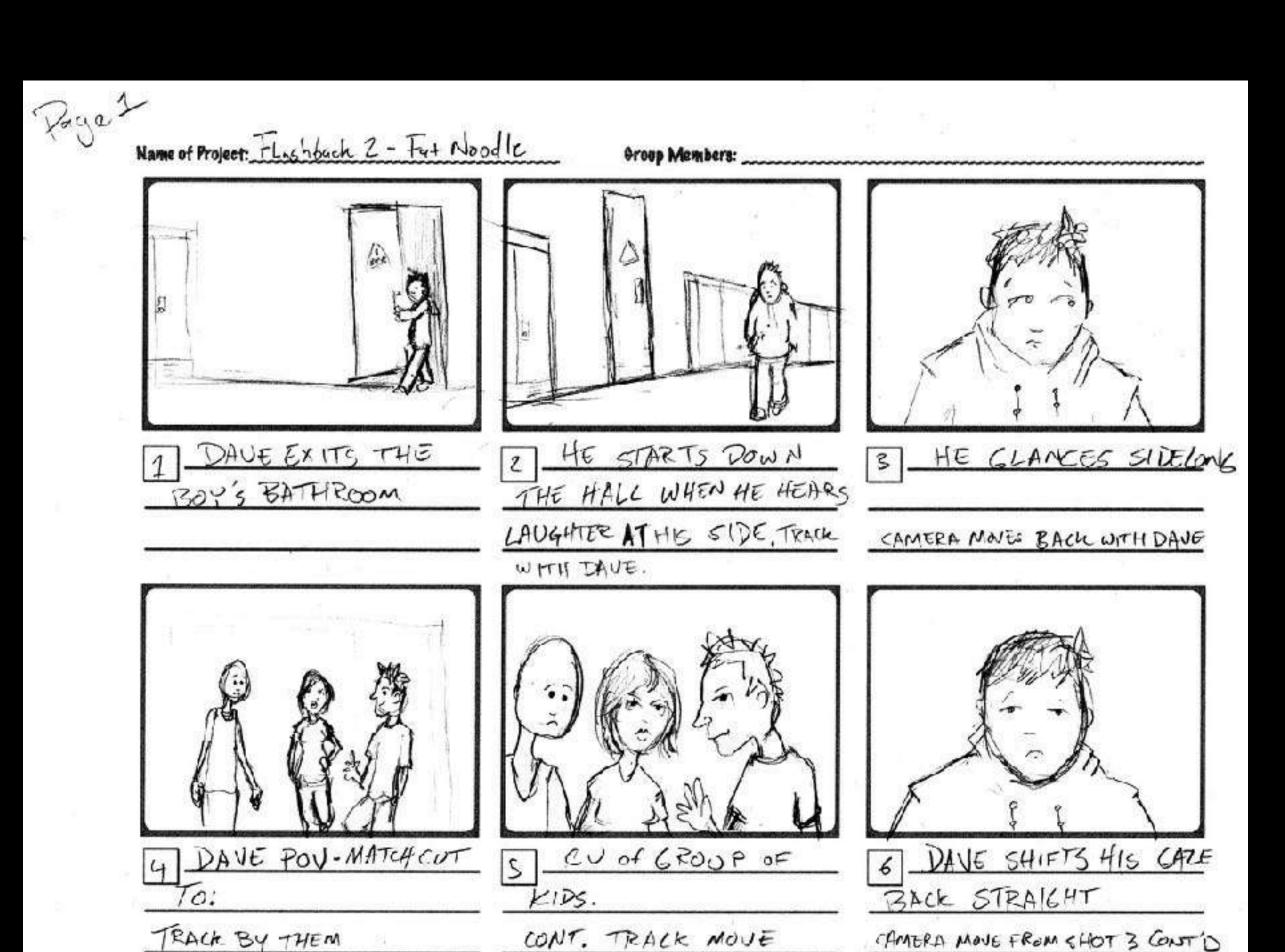
Shot List Template

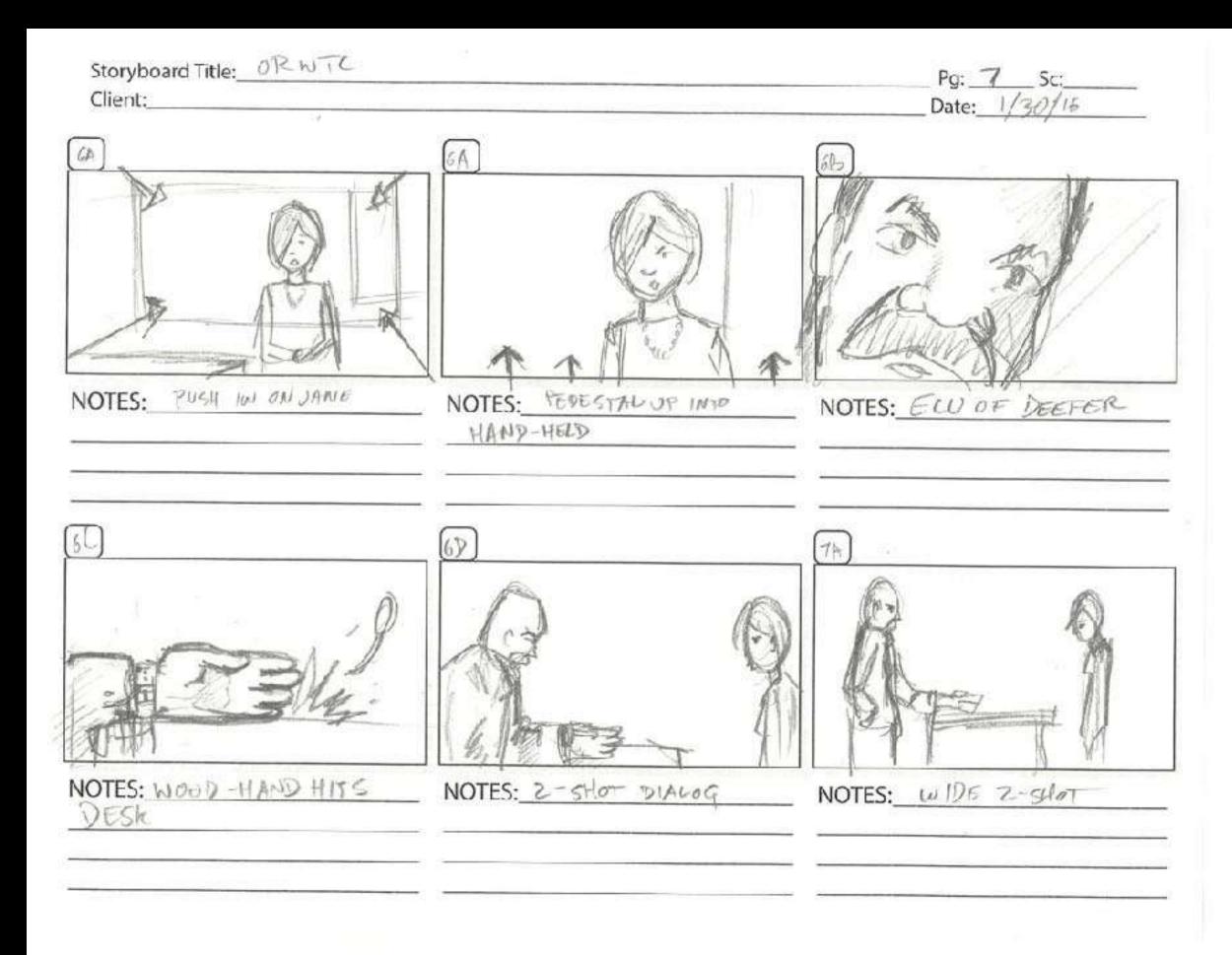


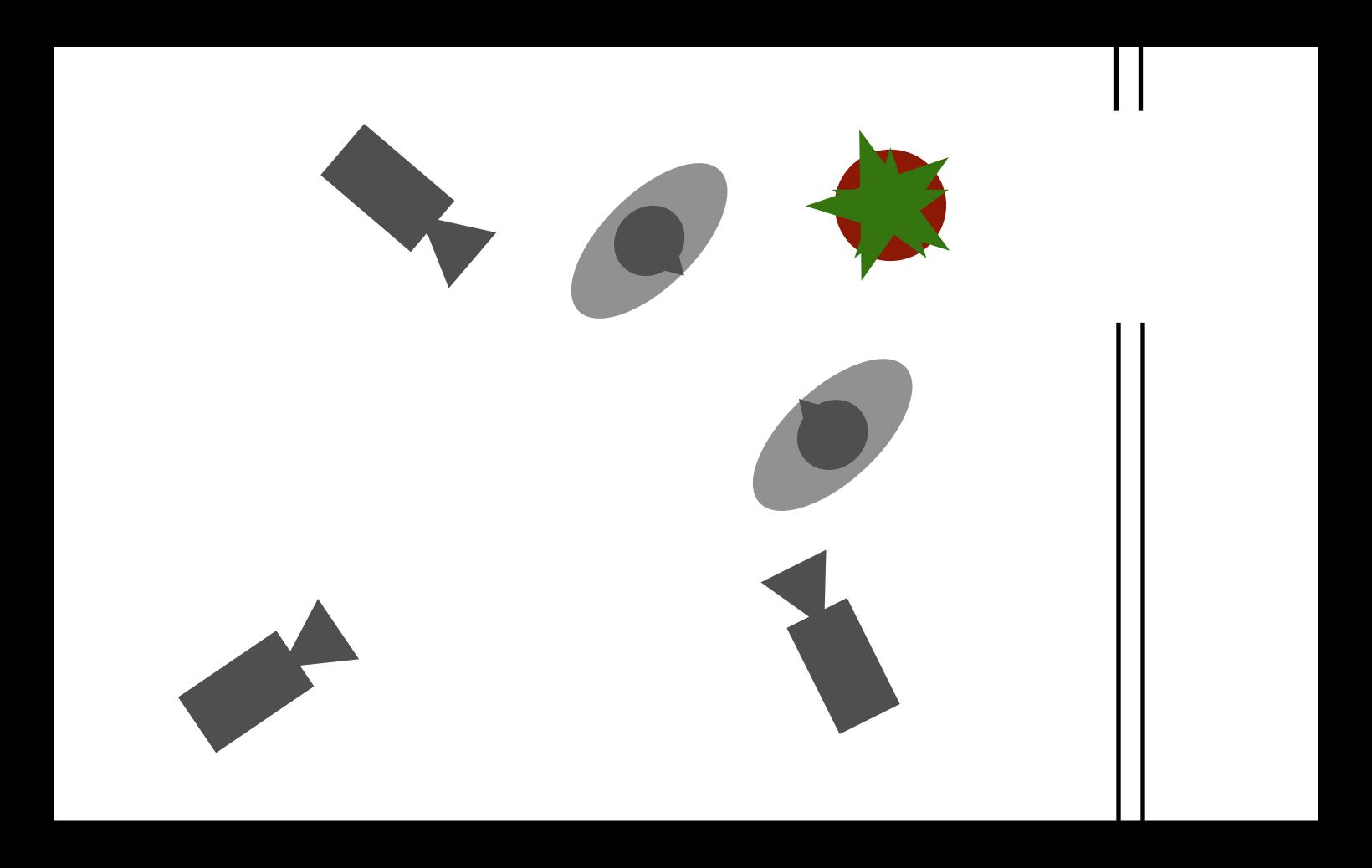
ACTIVE CONTRACTOR OF THE PROPERTY.	SCRIPT	SETUP	EST.	SHOOT
TAKE # (CIRCLE BEST)	TIME	TIME	# OF	TIME
	TAKE # (CIRCLE BEST)		TAKE # (CIRCLE BEST) TIME TIME	TAKE # (CIRCLE BEST) TIME TIME # OF



mark up script







camera plot

LOCATIONS

LOCATION FACT SHEET

PROJECT-TITLE-HERE

PAGE 1 OF 2

DD. # DII	RECTOR	PRODU	CER	LOCATION MANAGER
	LOCATIO	N INFO		SCENE
Script Location Name		Location		Number(s):
Contact Name		Address		Day Night
Telephone .				Interior Exterior
No. of Days Needed	AVAILABILITY		DISTANCE FR	OM PRODUCTION OFFICE
	AVAILABILITY			OM PRODUCTION OFFICE
No. of Days Needed	FACILITIES			PARKING
No. of Days Needed		7.1.W		

LOCATION FACT SHEET

PROJECT-TITLE-HERE

PAGE 2 OF 2

DESCRIPTION OF LOCATION	ELECTRICAL DISTRIBUTION			
Size of Access Door: Ceiling Height:	Volts: Amps: Distance from set:			
Wall Finishes: Ceiling: Floor: Natural Light:	Meter Loop Installed Phase: Needed Volts: Amps: Distance from set:			
Practicals:	Are Room Outlets Grounded?: Yes No			
Room Plan Attached Route Map Attached				
Koom Pian Attached				
tion Manager	Location Scout			

CALL SHEET TEMPLATE

Episode Title

PRODUCTION

Production Company Credit

PRODUCTION TITLE/GRAPHIC Shoot Date

Day x of y

Producer	James Smith	(xxx) xxx-xxxx
Director	Jane Doe	(xxx) xxx-xxxx
UPM	Janet Smith	(xxx) xxx-xxxx
Nearest Hospital		(xxx) xxx-xxxx
Address Line 1		
Address Line 2		

Sample Note 1: Individual call times may vary. **NO SOCIAL MEDIA**CLOSED SET**

Sample Note 2: Questions? Call Jack Doe (xxx) xxx-xxxx

Description 4

Description 5

SET 5

CALL

9 AM

8:00 AM CRAFT SERVICES BREAKFAST 1:00 PM Jim Doe LUNCH (xxx) xxx-xxxx SUNSET SUNRISE 7:50 PM 6:15 AM 70" AM 80" NOON 72" PM WEATHER 10% Humidity Mostly Sunny

Sample Note 3: Walkie Assignments (5) Sample Note 4: Walkie Units: 5

SCENES	SET AND DESCRIPTION	CHARACTER #	D/N	PAGES	LOCATION/NOTES
	SET 1				
	Description 1				
	SET 2		0.		
	Description 2	5.	0.00		
	SET 3				
	Description 3	71:	12		
	SET 4			ii ii	

TOTAL PAGES

#	CAST	CHARACTER	SWHF	MU	SET	MINOR?	SPECIAL INSTRUCTIONS
						Y/N	

PRODUCTION NOTES

https://docs.google.com/spreadsheets/d/1CQhSAZeeRwMo8OtDoeJiF2agjFuTa1h-4Pti4ZW2e9Y/edit#gid=0

200

	Description 4				V	
	SET 5					
53.	Description 5	**	- 80	00	W S	
			NAME OF TAXABLE PARTY.	医 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图 图		

TOTAL PAGES

#	CAST	CHARACTER	SWHF	MU	SET	MINOR?	SPECIAL INSTRUCTIONS
						Y/N	
10							

	PRODUCTION NOTES	
Production Note 1 Production Note 2 Production Note 3 Production Note 4	[Sample] Allowed Guests [Sample] No. of Stand-ins [Sample] Special Props [Sample] Special Atmosphere	

POSITION	NAME	PHONE	IN	POSITION
Director				
1st AD				
Set PA				
Set PA				
Dir. of Photography				
Cam OP				
1st AC				
DIT				
Still Photographer			2	
Key Grip				
Best Boy Grip				
Addl Grip				
Key Makeup Artist				
Key Hairstylist				
Key Costumer				
Production Designer				
Set Designer				

POSITION	NAME	PHONE	IN
-			
			1
			-
- 1			
		+	1
			-
			-
		.U	

Free Call Sheet Template From CastAndCrewCall.com YAY!!! :)

CONTACT SHEET TEMPLATE

https://docs.google.com/spreads

Position	First	Last	Cell	Email	Paperwork	Notes	Phone 2	Website / IMDB	Prep Date	Shoot Date	Shoot Date	Wrap Date	Day Rate/ 1
PRODUCTION		4											
Executive Producer													
Producer													
Producer													
Associate Producer													
Unit Production Manager (UPM)													
Director													
Writer													
1st Assisant Director (1st AD)													
2nd AD											li .		
2nd 2nd AD													
Script Supervisor													
Production Coordinator													
Asst. Production Coordinator													
Assistant to Producer													
Location Manager													
Technical Director													
Accountant													
CAMERA													
Director of Photography (DP)													
2nd Unit DP													
Camera Operator (CO)													
Camera Operator (B Cam)													
1st AC													
1st AC (B Cam)													
2nd AC													
Loader													
SOUND													
Sound Mixer													
1000 000 000 000 000 000 000 000 000 00	TVILI:7A-A	LANTAC -	r1+0VII/0 ditd	taid_1221/0510									
ts/d/10ARhN_8Ba-Rehl59 Utility		NT4r0ZgG_nc	_rrts/tu/ealt#	rgia=133109310									

TALENT CONSENT AND RELEASE FORM

PRODUCTION COMPANY

LOCATION

Type the production info here...

Type the location info here...

PROJECT TITLE

Signature

Type the project title here...

I have participated as indicated on the above motion picture (the "Picture"). In consideration of my appearance in the Picture, and without any further consideration from you, I hereby grant permission to you to utilize my appearance in connection with the Picture in any and all manner and media and all rights of every kind and character whatsoever in perpetuity in and to my performance, appearance, name and/or voice and the results and proceeds thereof (the "Performance") in connection with the Picture, and I hereby authorize Production Company to photograph and record (on film, digital, video, tape, or otherwise), the Performance; to edit same at its discretion and to include it with the performance of others and with sound effects, special effects and music; to incorporate same into the Picture or other program or not; to use and to license others to use such recordings and photographs in any manner or media whatsoever, including without limitation unrestricted use for purposes of publicity, advertising and sales promotion; and to use my name, likeness, voice, biographic or other information concerning me in connection with the Picture, commercial tie-ups, merchandising, and for any other purpose. I further acknowledge that Production Company owns all rights to the results and proceeds of my services rendered in connection herewith.

I agree that my participation in the Picture may be edited in your sole discretion. I consent to use of my name, likeness, voice and biographical material about me in connection with Picture publicity and related institutional promotional purposes. I expressly release you, your agents, employees, licensees and assigns from and against any and all claims which I have or may have for invasion of privacy, defamation or any other cause of action arising out of production, distribution, broadcast or exhibition of the Picture.

Date
ahove release and I hereby agree that we shall both he bound thereb
200

Date

Print name

GEAR CHECKLIST

1 CAMERA SHOOT WITH SYNC SOUND

VIDEO



AUDIO

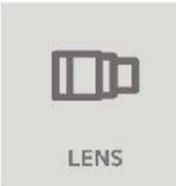


LIGHT

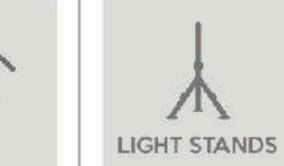


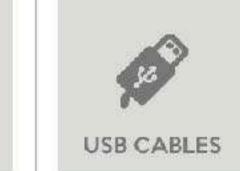
OTHER

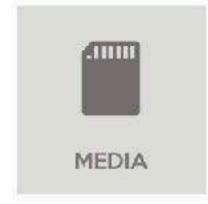


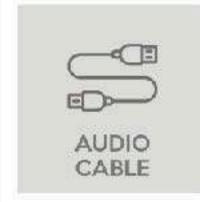










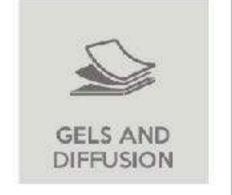






















PRE-PRODUCTION: SCHEDULE CREW & SHOOTS

- Always plan for extra days, production always runs long
- Have a plan 'B' for what you can skip shooting if a day is running late
- Make sure your crew understands the what a scene is trying to do
- Consider distance between locations
- You do not have to shoot things in order, complete all scenes in a given location before moving on (really important for the director to understand the "vision" and explain where the actors are in a scene)

WEEK 8: BASIC VIDEO PRODUCTION

DIGITAL MEDIA E-5 EXPLORING DIGITAL MEDIA