Video-Prototyping



LMU - UX III / 2018

Overview:

- · Intro
- · Video-Prototyping Applied
- Examples
- Editing Video-Prototypes
- Deliverables

Part I: Introduction

Representing complex relationships, new behaviours and attitudes are an integral part of interaction design.

These can be represented through many means including sketching and making physical prototypes.

However, capturing a journey over time requires a linear medium like video.

"Just Enough Prototyping"

Understand your audience and choose the right level of resolution and fidelity.

Judge the time and resources available.

Go for the easiest and simplest track, don't overdo you prototype for a given context.

Low Fidelity

High Fidelity

Open Discussion

Sharp Opinions

Prompting Required

Self Explanatory

Quick and Dirty

Deliberate and Refined

Early Validation

Concrete Ideas

Low Resolution

High Resolution

Less Details More Details

Focus on core interactions Focus on the whole

Quick and Dirty Deliberate and Refined

Early Validation Concrete Ideas

1.) Video Prototype Outline

Chronological

Shows events in order as they occurred

Narrative

Takes the audience on a journey trough a flowing presentation

Problem/Solution

States the problem, the why's, your solution, and a summary

Cause/Effect

States the cause and explains the effect(s)

2.) Video Prototype Outline

Introduction

Body

Conclusion



Outline Format

3-1 General Summary

- Keep it simple
- Be visual
- Highlight the main features
- Take home message

Getting Started Things you'll need:

- 6 Key-frame Storyboard
- Shotlist
- Camera
- Props and Artefacts

6-Keyframe Storyboard:

Inspiration from camera shots and film making



Extreme long shot (wide shot)

A view showing details of the setting, location, etc.



Long shot Showing the full height of a person.



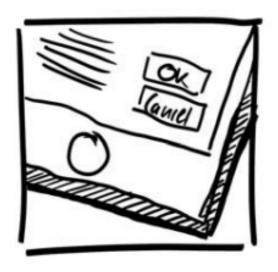
Medium shot Shows a person's head and shoulders.



Over-the-shoulder shot Looking over the shoulder of a person.



Point of view shot (POV) Seeing everything that a person sees themselves.



Close-up such as showing details of a user interface a device the person is holding.

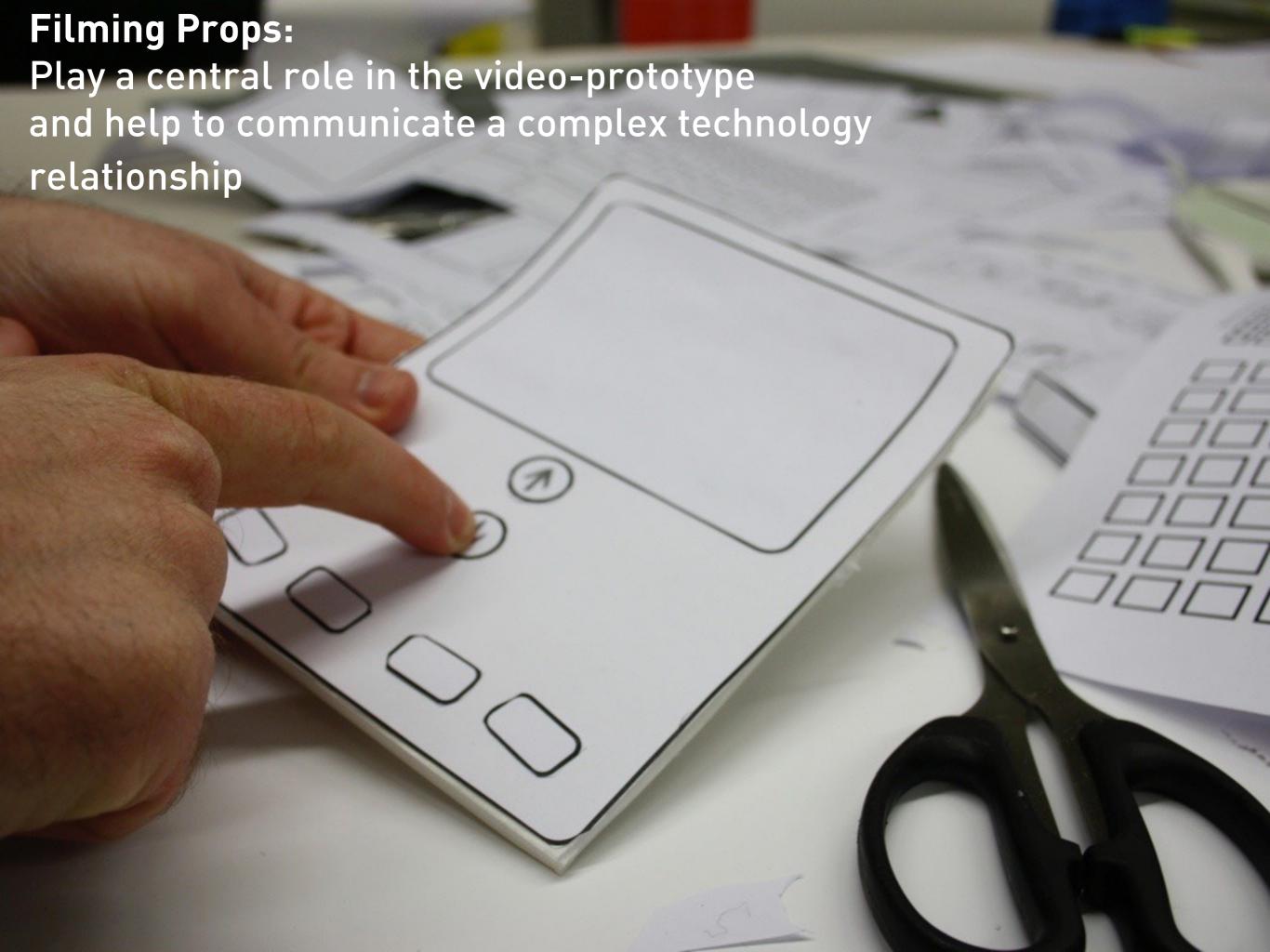


Shotlist: Gives guidance and structure

SHOT LIST

Production Title: Memento	Director: Christopher Nolan	Cinematographer: Wally Pfister

SHOT#	LOCATION	SHOT	CAMERA ANGLE	CAMERA MOVEMENT	SHOT DESCRIPTION (subject, action, lighting, etc.)
#1	Ext.	EST-MS	LA	Tilt	Photo Changing hands; Dark, Tilt to move up/down
#2	Ext.	MCU	LA	Steadicam	Lower Body, Dark, Replacing something in pocket
#3	Ext.	CU	EL	Steadicam	Face Shown, Half of face it.
#4	Ext.	XCU	TH	Rack Focus	Blood on floor, flowing in reverse
#5	Ext.	XCU	HA	Rack Focus	Bullet on floor
#6	Ext.	XCU	LA	Rack Focus	Glasses on floor, Dimly lit
#7	Ext.	MS	POV- Leonard	Rack Focus	Man on floor, Blood Surrounding him
#8	Ext.	MLS	LA	Tilt	Leonard Retrieving gun backwards, Kneeling down
#9	Ext.	XCU	HA	Rack Focus	Bullet Flowing Backwards, Dark shadows from under
#10	Ext.	XCU	LA	Rack Focus	Glasses falling in reverse, Dark shadows to the left
#11	Ext.	MS	POV- Leonard	Dolly	Man's body falling in reverse, Mixed Light, Shadows
#12	Ext.	XCU	TH	Dolly-in	Close up of Bullet being ejected from gun in reverse, gun in shadow
#13	Ext.	MCU	LA	Dolly-Out	Leonard shooting gun, half shaded, light through window
#14	Ext.	CU	OTS-2S	Rack Focus	Leonard face in shadow, light straining on floor



Part II: Video-Prototyping applied

Storyboard and Keyframes

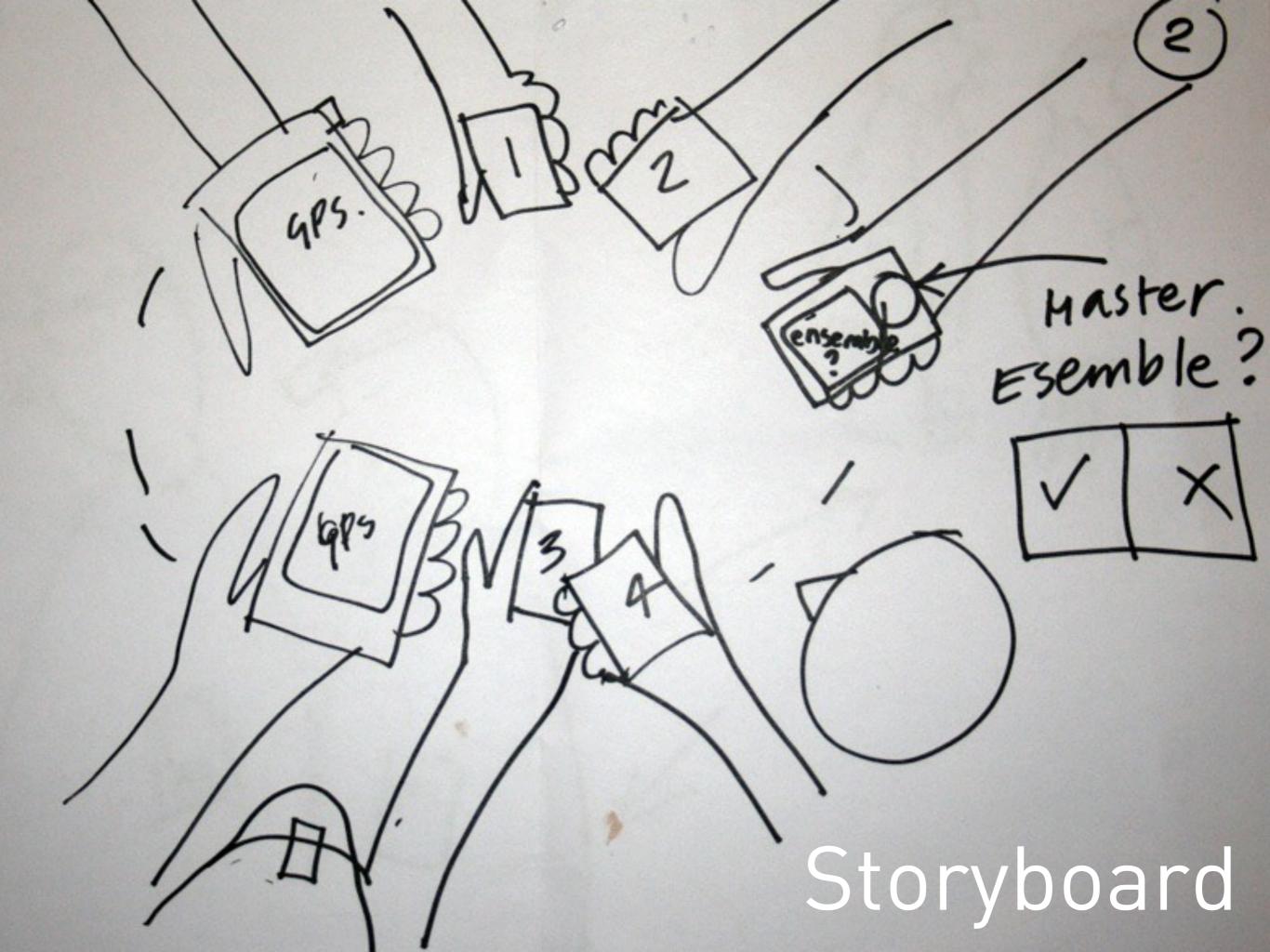
Example: "Ensemble Computing"

Client: INTEL

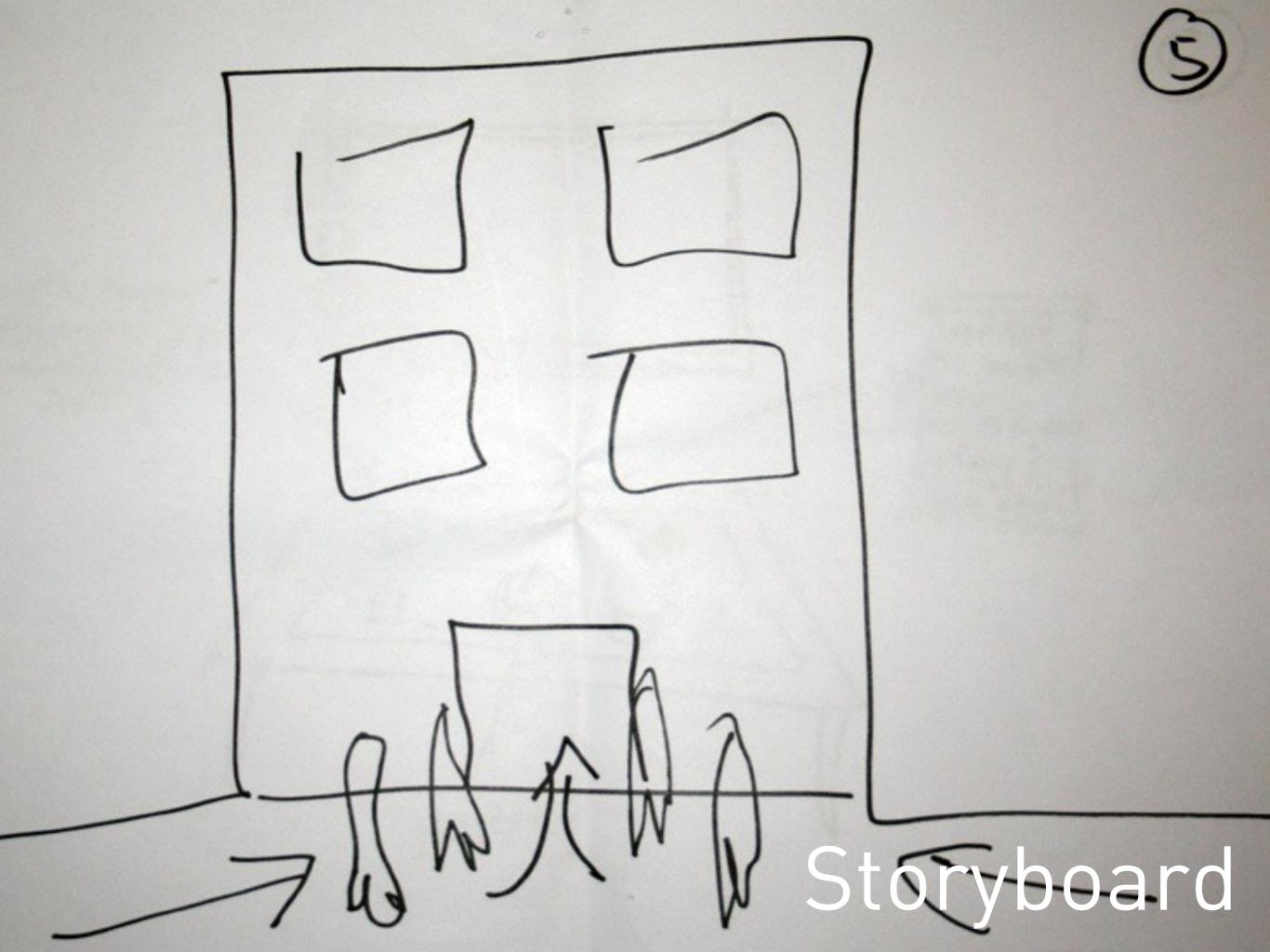
Deliverable: 4 High Fidelity Video Scenarios

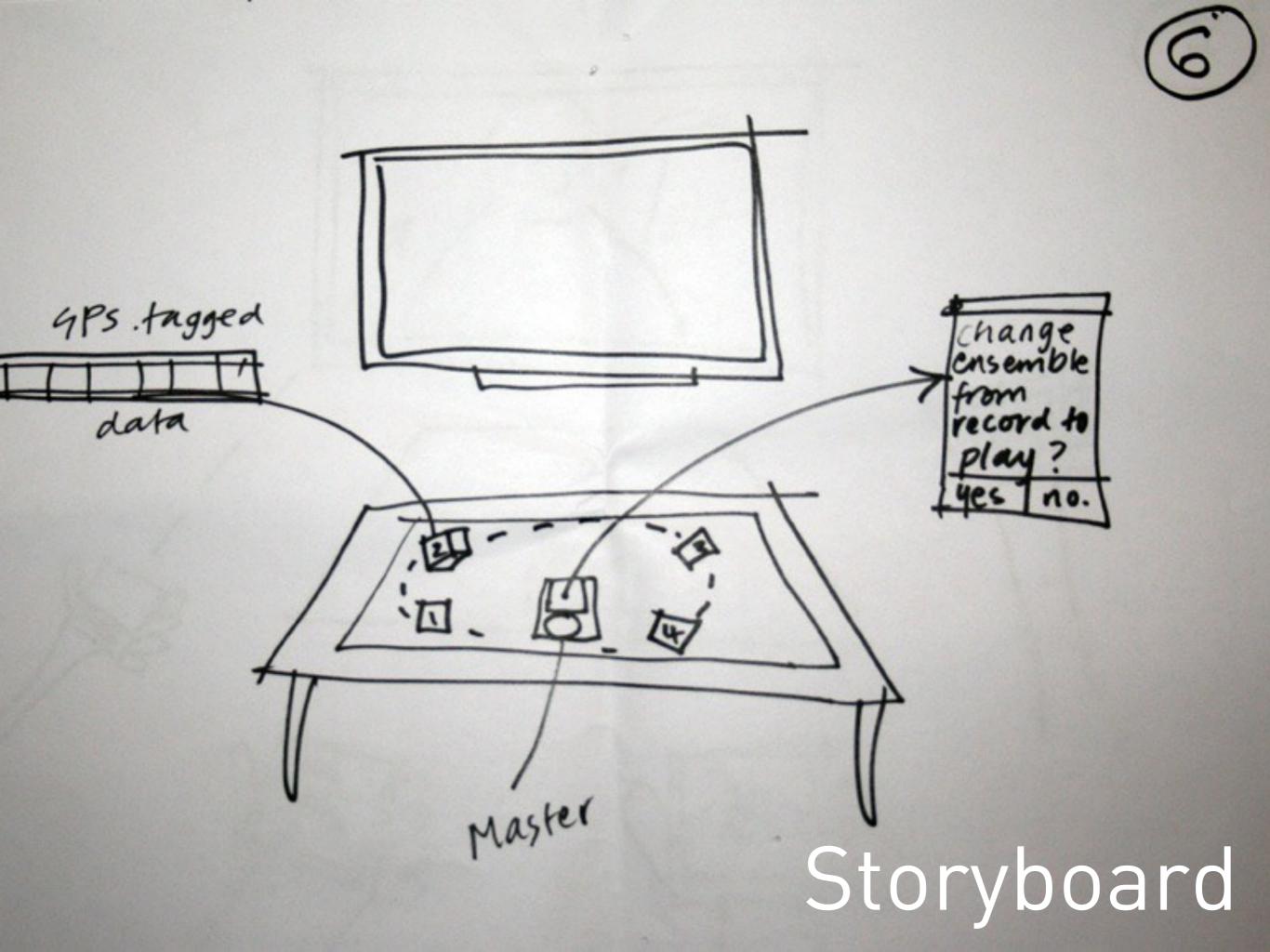
First Step Scenario generation

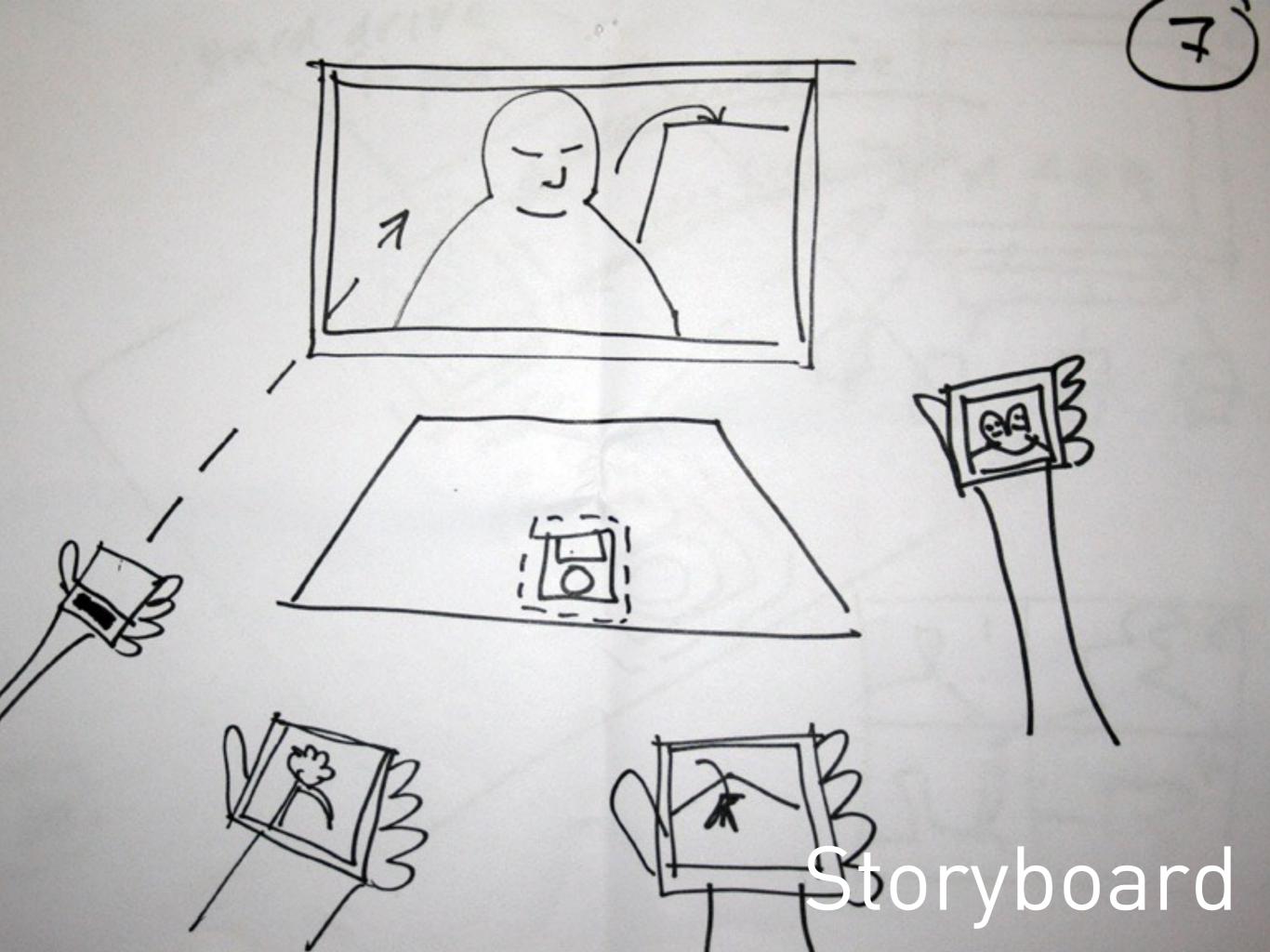












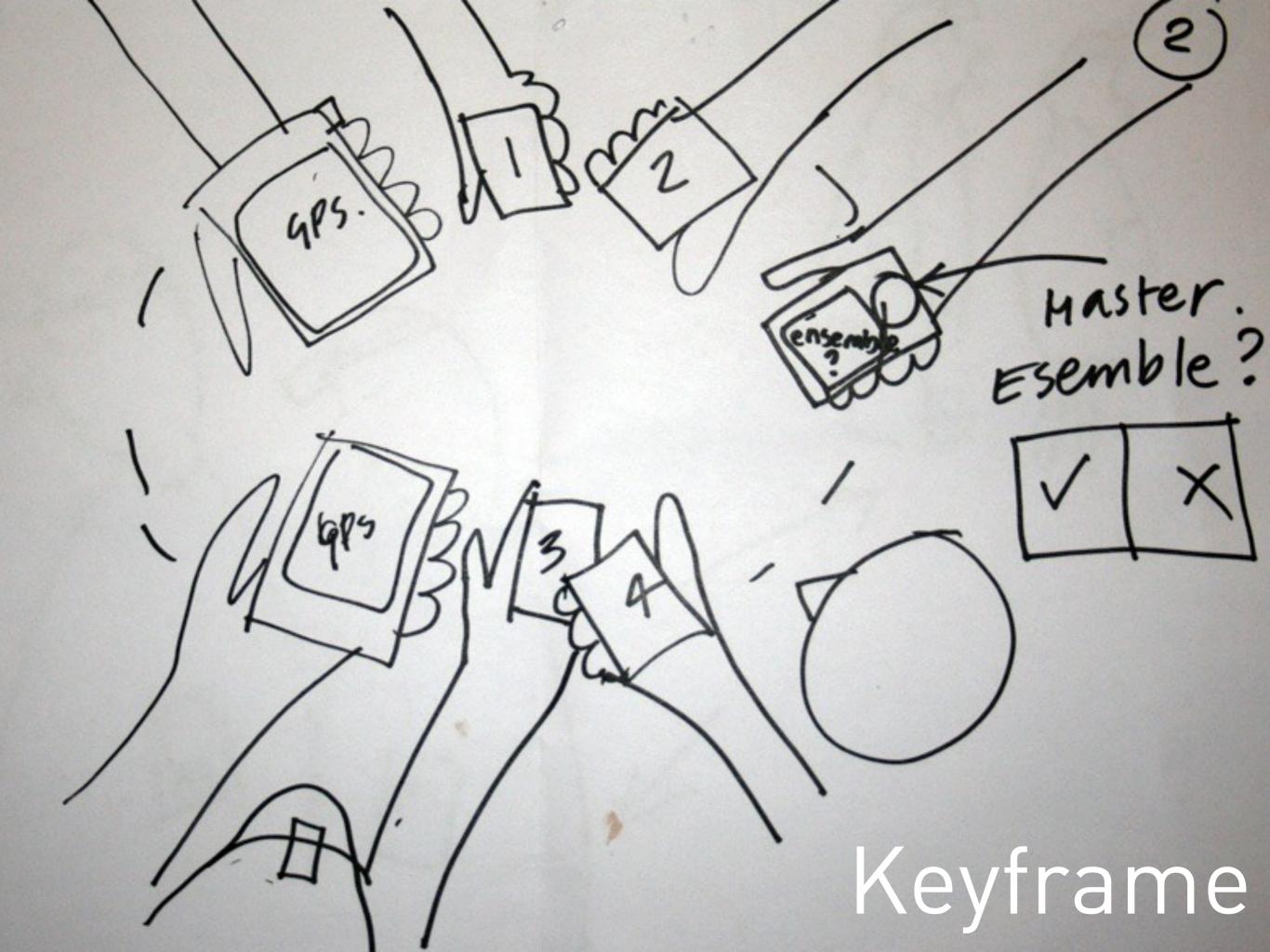
Hard drive tunes

Second Step Storyboard presentation

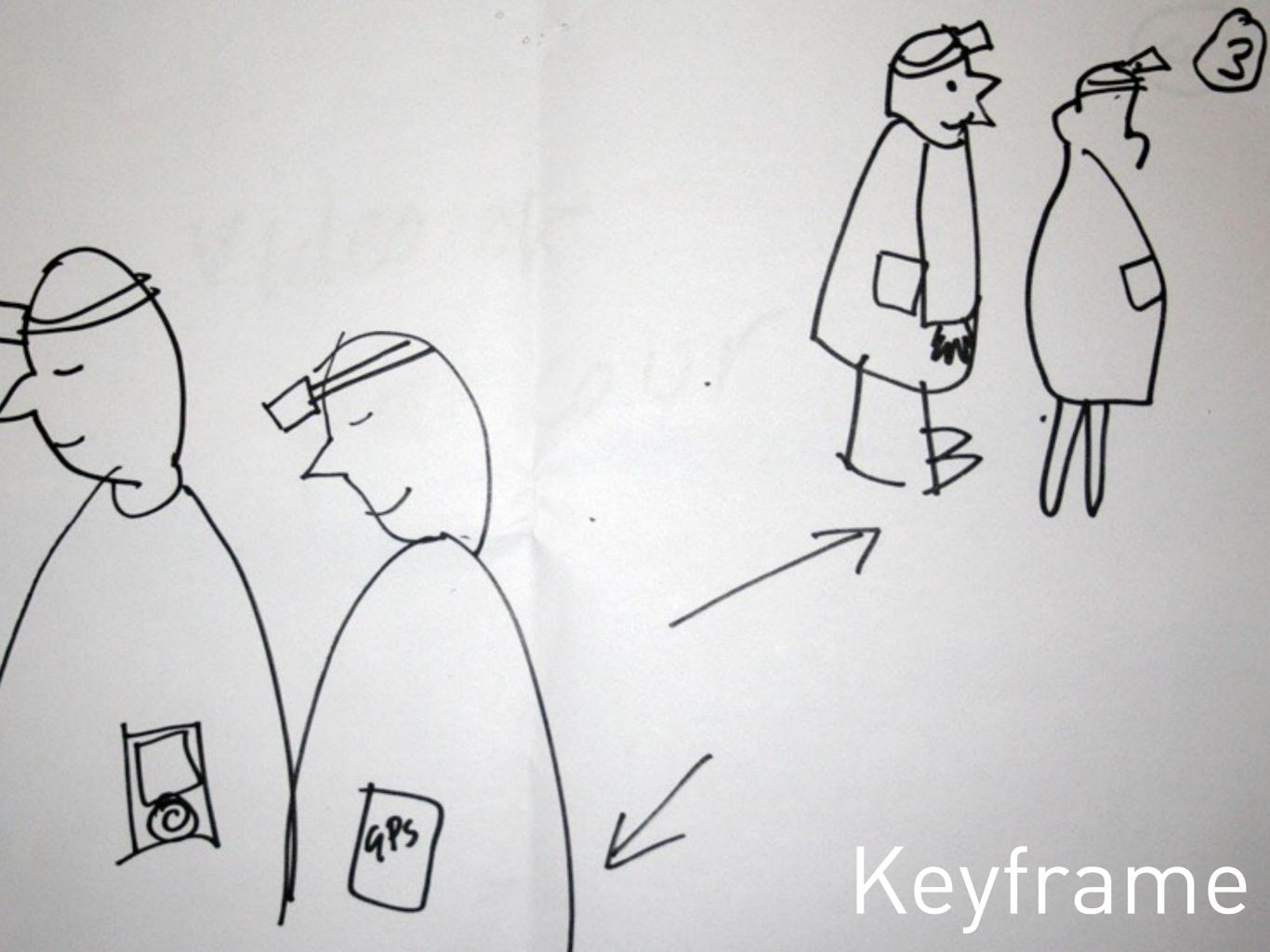


Third Step Shooting the Keyframes

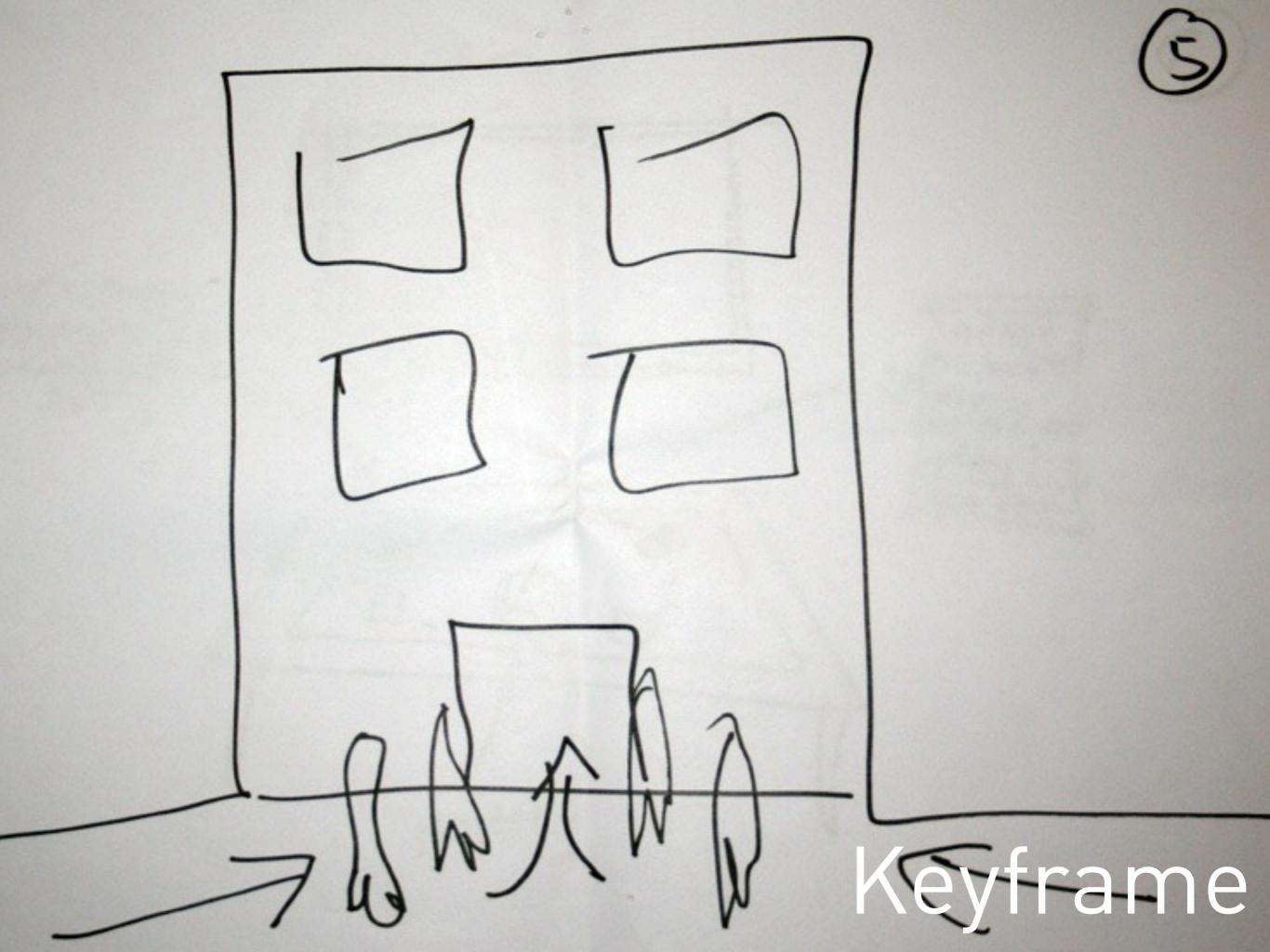




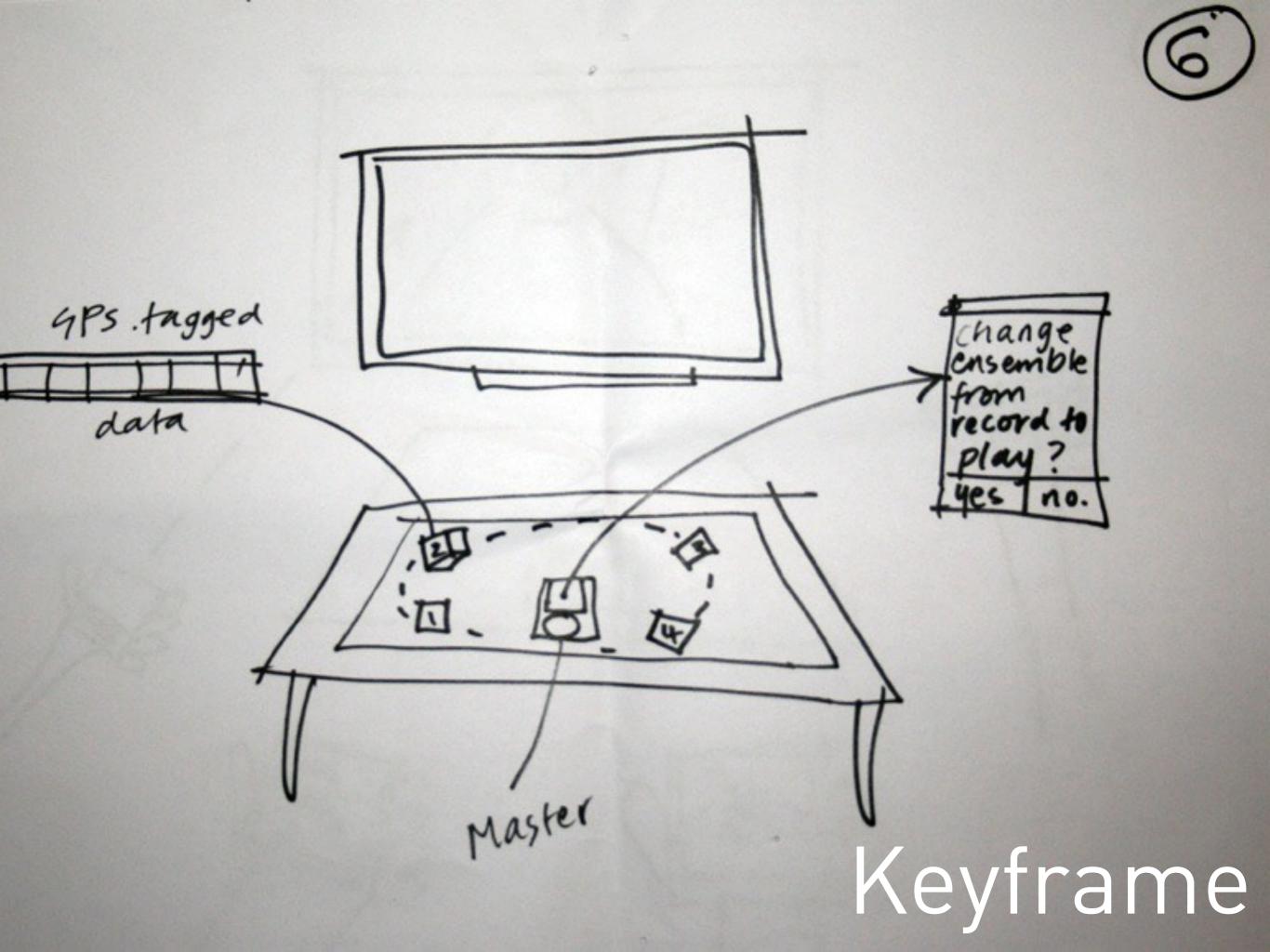




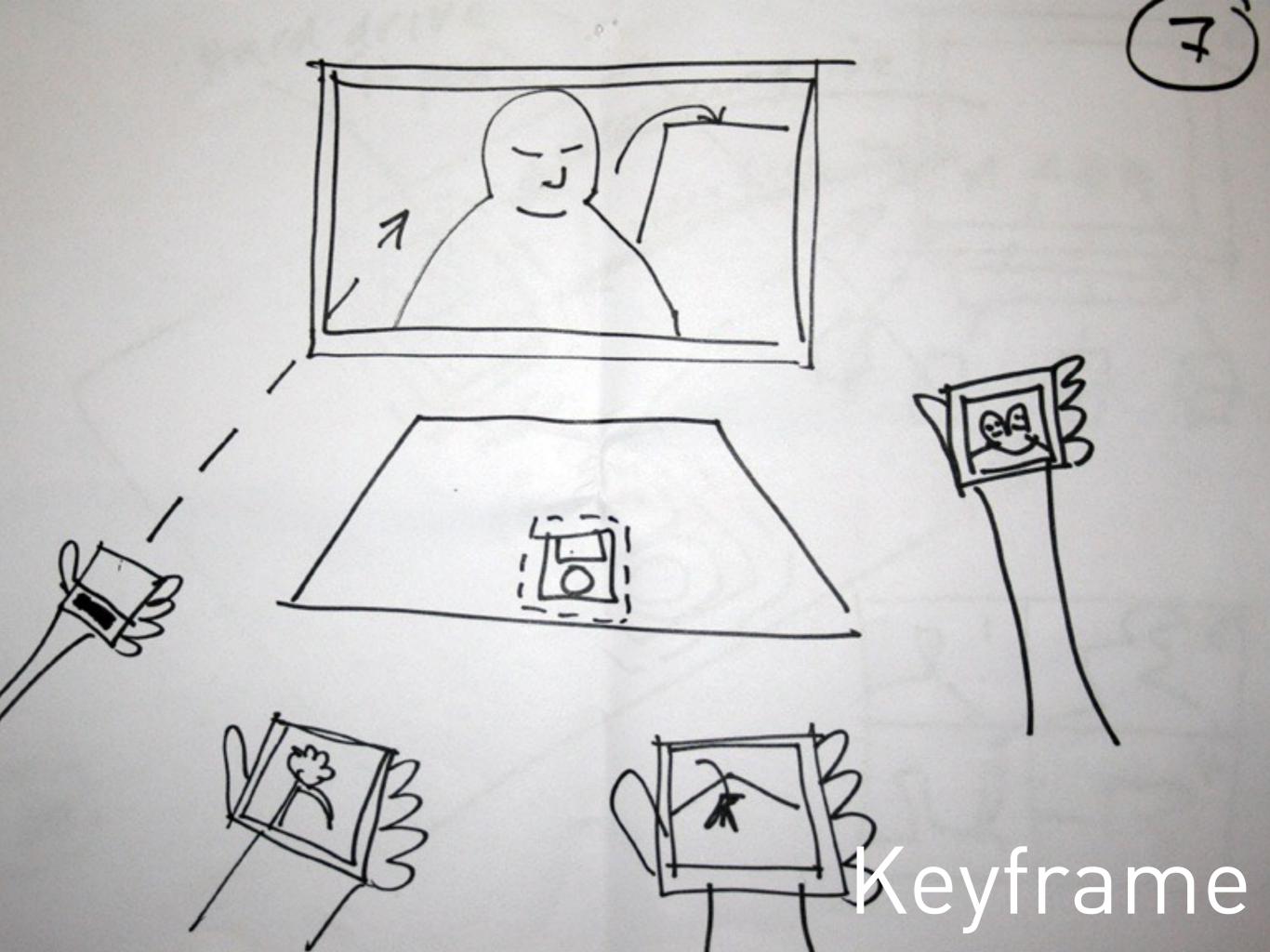














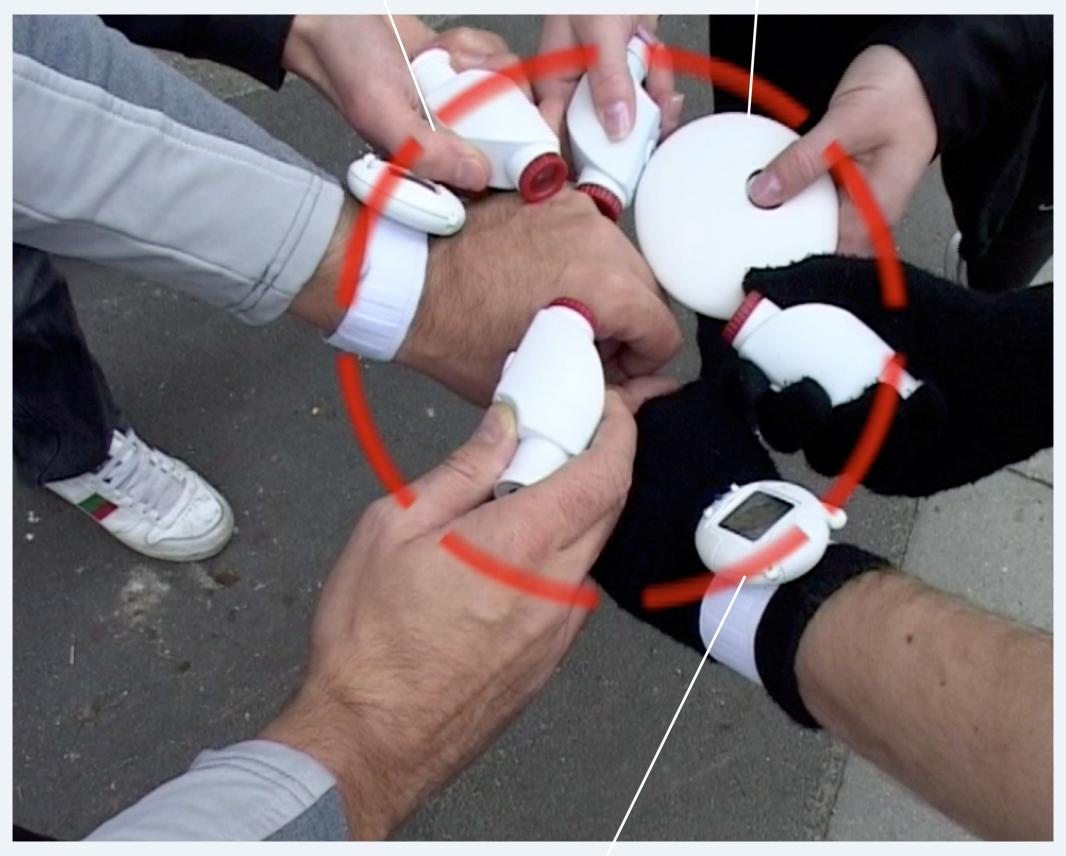
Fourth Step Editing



Fifth Step Presentation

WiFi video camera

Wireless hard drive



Bluetooth GPS system

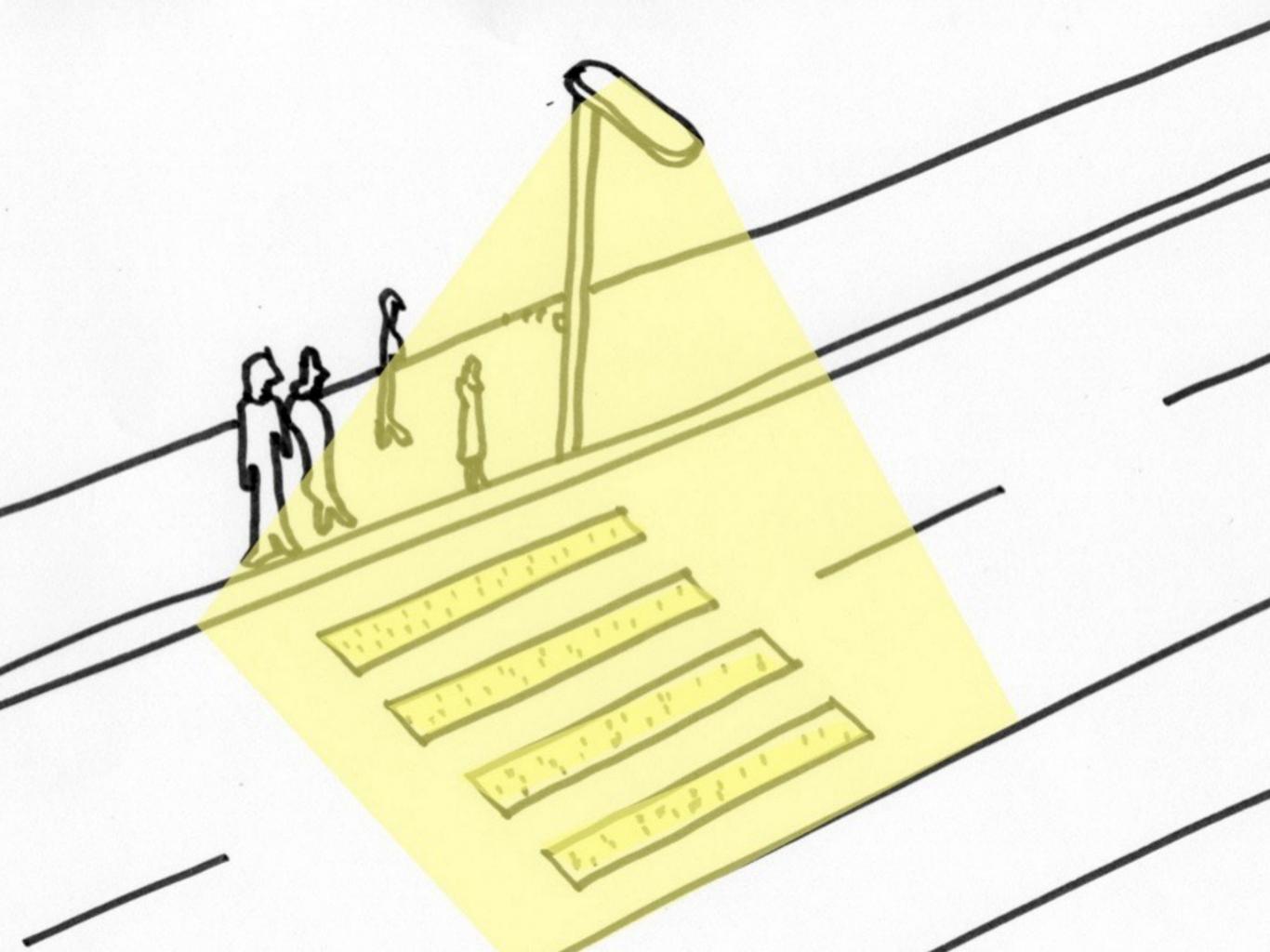
Video Prototype



Part III: Different Video-Prototyping Examples

Practical Example Zebra Zone:

- Client: Phillips Lighting
- High-Fidelity Prototype
- approx. 1h prep. 2 hours filming 2h editing
- Self Explanatory
- Goal: Communicating an Idea

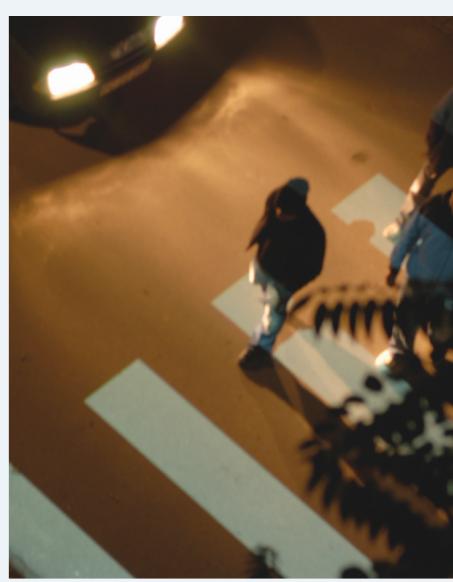


Zebra Zone

The Smoke & Mirror Approach



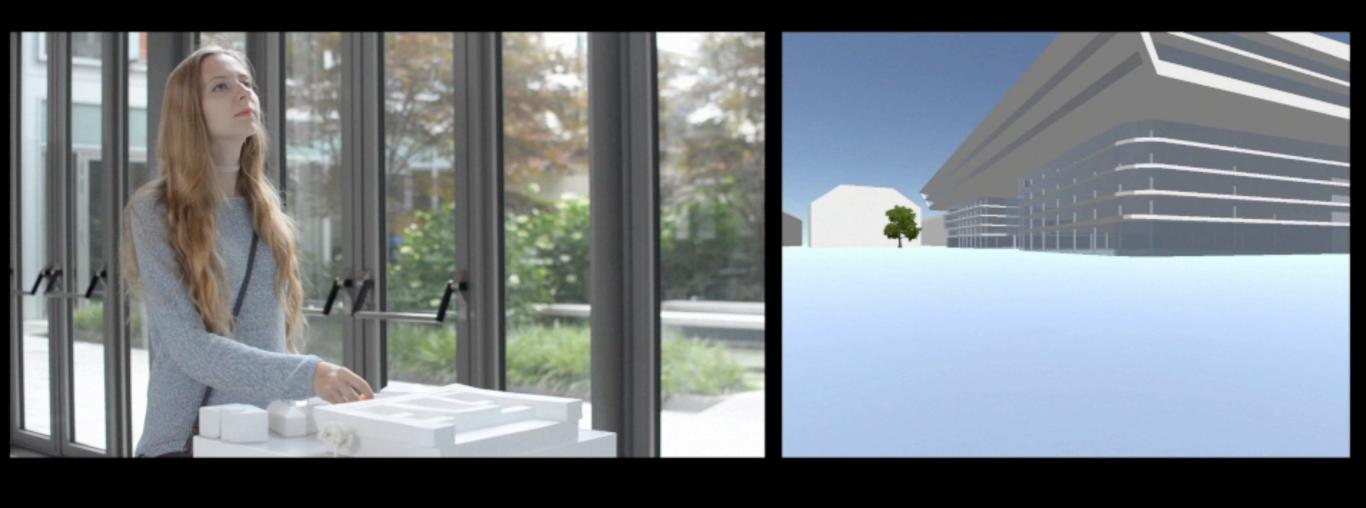




Practical Example Streetview Game:

- Client: GEWOFAG
- Low-Fidelity Prototype
- approx. 1h hour filming 3h editing
- (Partly) Self Explanatory
- · Goal: Documentation of a Mock-up





StreetView Game

Practical Example Tray:

- Deliverable: Course UX3
- High-Fidelity Prototype
- Self Explanatory
- Goal: Presentation of a Digital Service



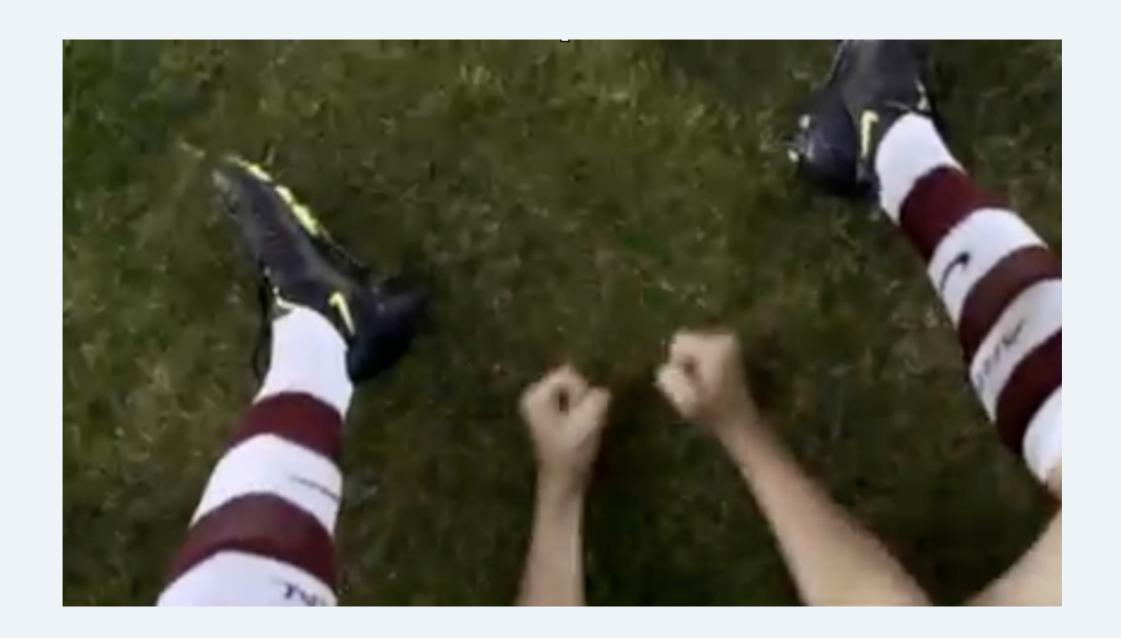
Part IV: Editing Basics

Editing Basics: Montage vs. Continuity

Example: Continuity Nike Commercial



Video Source: YouTube



Continuity:

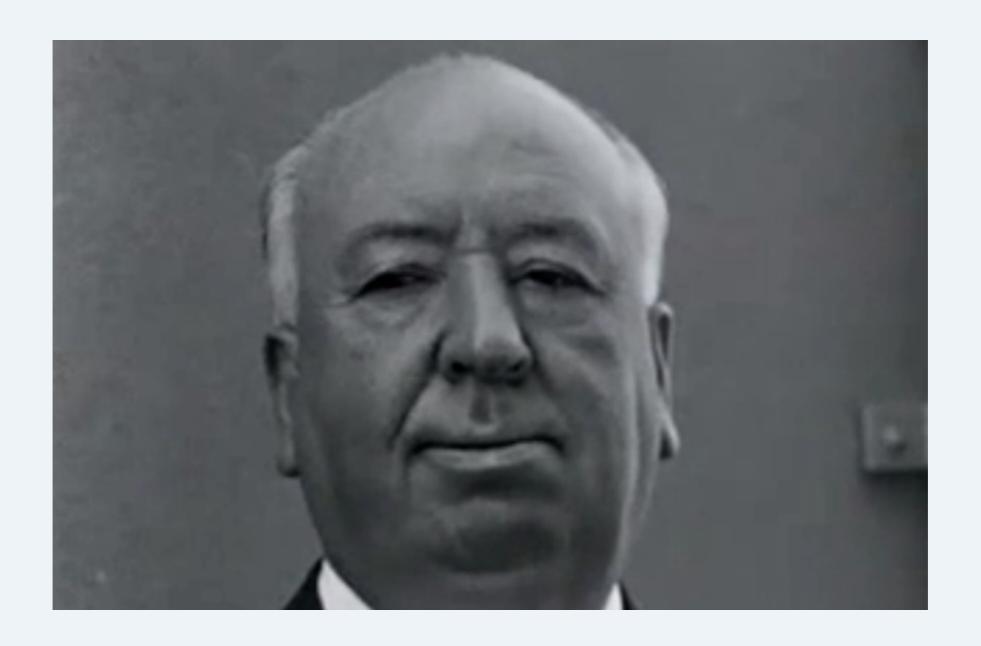
- -a logical coherence between shots
- -the viewer shouldn't "feel" the cut
- -the focus is on the story

Example: Montage Alfred Hitchcock



ALFRED HITCHCOCK - INTERVIEW

Video Source: YouTube



Montage:

- -new assembly of material to create new meanings
- -artistic approach
- -the viewer "feels" the effect

Combining Images and Sound through Editing

Example: Amateur Lasse Gjertsen



Example: Star Guitar Michel Gondry



STAR GUITAR - CHEMICAL BROTHERS

Video Source: YouTube



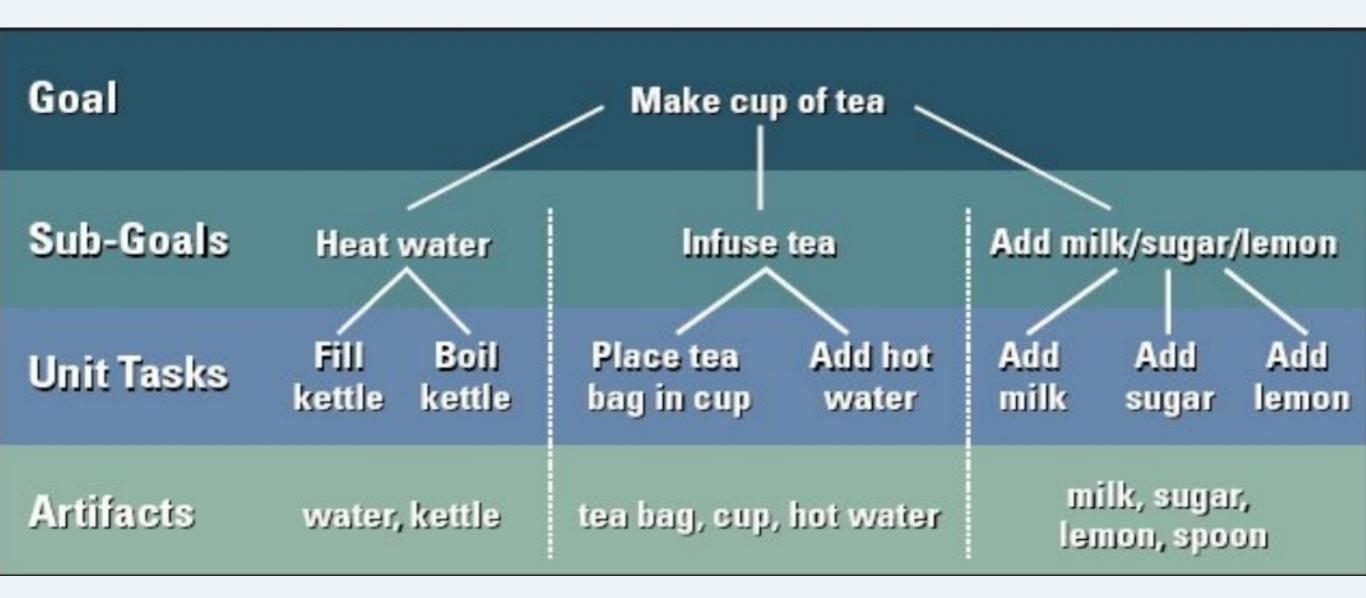
- -material was produced and edited to match the audio
- -layout of the compete "sound scape"
- -objects (oranges) were used to represent "events"

General Editing Rules:

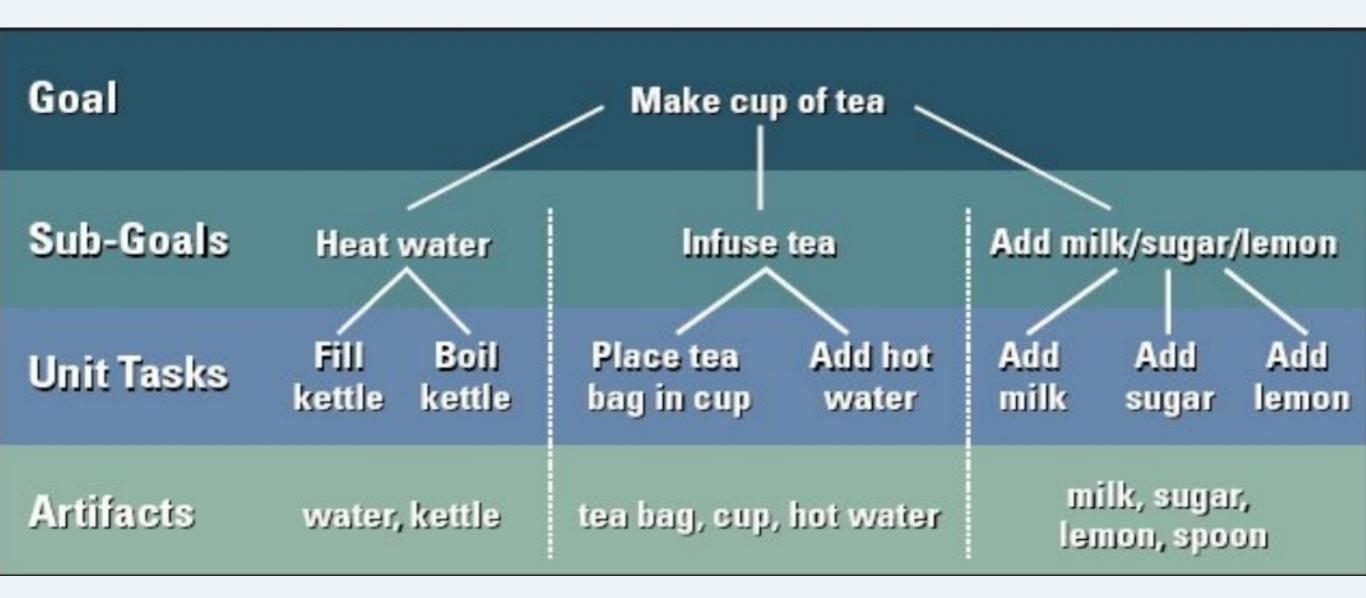
- (If sound overlay is used) Cut on the beat to match the audio.
- Be ruthless about the cut's: judge shots critical to filter out the unimportant material
- Rule of thumb: one minute action can be described in max 10 sec

Part V: Making Tea! & Deliverables

From the Task Analysis to Video Shoot:









Video-format and Duration

The video should have the following format:

- -MPEG-4, max 3min.
- resolution 640 x 480, codec: AAC, H.264
- be sure that the video is self-explanatory
- -explain necessary background information in the beginning of the video
- -consider that **font sizes** should be big enough and readable (**time**) when your video is being presented

Shotlist: Gives guidance and structure

SHOT LIST

Production Title: Memento	Director: Christopher Nolan	Cinematographer: Wally Pfister

SHOT#	LOCATION	SHOT	CAMERA ANGLE	CAMERA MOVEMENT	SHOT DESCRIPTION (subject, action, lighting, etc.)
#1	Ext.	EST-MS	LA	Tilt	Photo Changing hands; Dark, Tilt to move up/down
#2	Ext.	MCU	LA	Steadicam	Lower Body, Dark, Replacing something in pocket
#3	Ext.	CU	EL	Steadicam	Face Shown, Half of face it.
#4	Ext.	XCU	TH	Rack Focus	Blood on floor, flowing in reverse
#5	Ext.	XCU	HA	Rack Focus	Bullet on floor
#6	Ext.	XCU	LA	Rack Focus	Glasses on floor, Dimly lit
#7	Ext.	MS	POV- Leonard	Rack Focus	Man on floor, Blood Surrounding him
#8	Ext.	MLS	LA	Tilt	Leonard Retrieving gun backwards, Kneeling down
#9	Ext.	XCU	HA	Rack Focus	Bullet Flowing Backwards, Dark shadows from under
#10	Ext.	XCU	LA	Rack Focus	Glasses falling in reverse, Dark shadows to the left
#11	Ext.	MS	POV- Leonard	Dolly	Man's body falling in reverse, Mixed Light, Shadows
#12	Ext.	XCU	TH	Dolly-in	Close up of Bullet being ejected from gun in reverse, gun in shadow
#13	Ext.	MCU	LA	Dolly-Out	Leonard shooting gun, half shaded, light through window
#14	Ext.	CU	OTS-2S	Rack Focus	Leonard face in shadow, light straining on floor

Now

- Create a shot list
- Consider screens and artefacts you will need (Props)
- Film Key-Frames
- Distribute tasks among the team
- Gather back Thursday 1p.m. (c.t.)

Second Blog Post

- Storyboard & about 150 words abstract
 - categories: WS1718; Concept, Team X
 - deadline: 21/03 11:59 a.m.

References

What do Prototypes Prototype? Stephanie Houde and Charles Hill, Apple Computer, Inc. Cupertino, CA, USA

Erickson, T. (1995). Notes on Design Practice: Stories and Prototypes as Catalysts for Communication. "Envisioning Technology: The Scenario as a Framework for the System Development Life Cycle" (ed. Carroll, J.). Addison-Wesley.

Marion Buchenau and Jane Fulton Suri. Experience Prototype, in the Proceedings of ACM DIS '00, pp. 424–433, 2000.

Michael McCurdy, Christopher Connors, Guy Pyrzak, Bob Kanefsky and Alonso Vera. Breaking the Fidelity Barrier: An Examination of our Current Characterization of Prototypes and an Example of a Mixed-Fidelity Success, in the Proceedings of ACM CHI 2006, pp. 1233–1242, April 22–27, 2006.

Jonas Löwgren, Animated use sketches as design representations, interactions, v.11 n.6, November + December 2004

Raghu Kolli, Using video scenarios to present consumer product interfaces, INTERACT '93 and CHI '93 conference companion on Human factors in computing systems, p.61-62, April 24-29, 1993, Amsterdam, The Netherlands

Chris Crawford on Interactive Storytelling (New Riders Games) by Chris Crawford (Oct 16, 2004), ISBN-10: 0321278909