

Outline

- Review Design Exploration
- Types of Prototypes
- Video Brainstorming
- Video Prototyping
- Concept Videos

Design Exploration Review

- Selecting tasks ?
 real tasks with reasonable functionality coverage
 - complete, specific tasks of what customer wants to do
- Sketching allows exploration of many concepts in the very early stages of design
- As investment goes up, need to use more and more formal criteria for evaluation
- Informal prototyping tools bridge the gap between paper & high-fi tools

Types of Prototypes

Prototypes are concrete representations of a design

Prototype dimensions

- representation: form of the prototype
- off-line (paper) or on-line (software)



Types of Prototypes

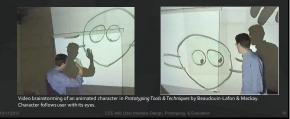
Prototypes are concrete representations of a design

Prototype dimensions

- representation: form of the prototype
 off-line (paper) or on-line (software)
- precision: level of detail (e.g., informal or polished)
- interactivity: watch-only vs. fully interactive
 - fixed prototype (video clips)
 - fixed-path prototype (each step triggered by specified actions)
 - open prototype (real, but limited error handling or performance)
- evolution: expected life cycle of prototype
 - e.g., throw away or iterativ

Video Brainstorming

- Participants act ideas out in front of a video camera
 Goal is to create as many new ideas as possible
 e each should take 2-5 minutes to generate & capture
 run standard brainstorming session first for ideas
- run standard brainstorming session first for ideas
 Advantages
 video easier to understand later than notes
- video easier to understand later than holes
 participants actively experience interaction & preserve record of the idea



Video Prototyping

- Illustrate how users will interact w/ system
- · Unlike brainstorming, video prototyping contracts the design space
- Quick to build
- Inexpensive
- · Forces designers to consider details of how users will react to the design
- · May better illustrate context of use

Forms of Video Prototypes

capture



Paper Protoypes, Exisiting Software or Projected Images as a background

Optional Narration, Conversation preferred narrator explains events & others move images/illustrate interaction actors perform movements & viewer expected to understand w/o voice-over



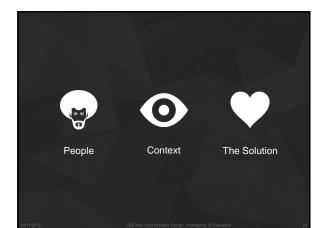
Usually fixed prototypes, but can also use in open prototypes EG: Live video as a Wizard of Oz tool & 2nd camera to

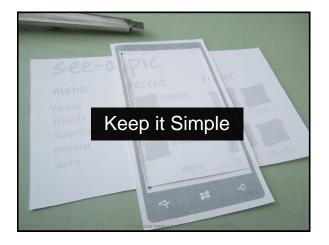
With good storyboards, a good short film can be shot in 1 hour





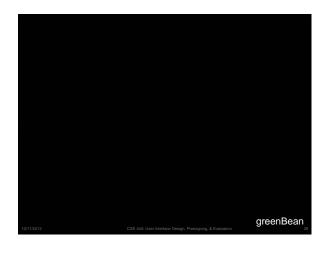




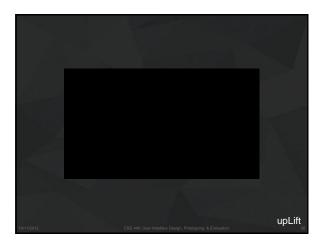


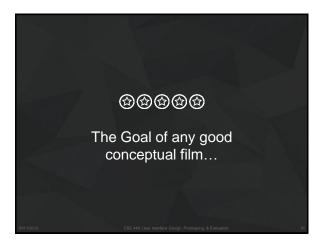




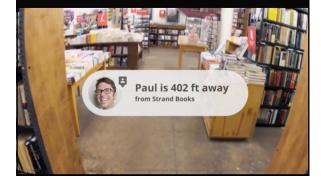








Someone should be able to understand your project simply by watching your film.





Define

What is the message of the film? Can you describe it in a few lines?



1 2

34

Make a basic Plot

Discuss plot ideas until you get a few that really make sense, decide characters



Storyboard

Turn these into multiple boards of scenes to plan how you will film it





If you choose to use music Now might be a good time to pick some songs. Music can be very powerful if chosen well.



Shoot your Film

Get as many shots as you can! you never know what might be useful later.



Edit your Film

Use your storyboard! This part should be simple if you have storyboarded correctly.



More Example Videos

- Video Prototypes
 - <u>cluster</u>
 - dont_forget
 - dont_forget2
 - dont_forget_russian Final Hi-Fi Videos

<u>StyleEye</u>

<u>Cell Phone Music</u>
 <u>Player</u> (Nick Kong,
 UC Berkeley CS160)

- CarbonShopper

Perspective
 Final Hi-Fi Vic
 MicroHealth

Concept Videos

- MicroHealth

- Lingolmmersion

- Perspective
- Rii
- <u>Hero</u>
- <u>Paintora</u>

Summary

- Video prototypes allow us to quickly communicate how a user will use a design
- Concept videos set up more of the story of use
- Both techniques are useful

Next Time

- Human Abilities (Jake Wobbrock)
- Reading
 - Ch. 2: The Human Information Processor, from The Psychology of Human-Computer Interaction By Stuart K. Card, Thomas P. Moran, & Allen Newell, 1983, pp. 23-83