Low-Fi Prototyping

No screens



Prof. Lydia Chilton COMS 4170 28 March 2018 Say your name

PRINCIPLE



Goal 2 When the needs and abilities of users are unclear, design systems by **learning from iteration** and experimentation.

Part 3: Editing the Party Planning Committee

The interface to edit the party planning committee (PPC) is a drag and drop direct manipulation interface as described below.

- The PPC UI needs to display two lists:

 a list of all the employees seen here, and
 a list of people on the party planning one in its default state, the party planning

 Each list must have a div at the top of inserve as a drop target.
- Using JQuery Draggable and Droppab list to the head of the of the PPC list, a must also be true: names from the PPC This must be implemented in the Mod
 To cue that an element is draggable. if
- b cuc that an element is diaggable, if background turns light yellow, and the
 While the item is being dragged, the bi cursor.
- 6. While the item is being dragged, it sho 7. While the item is being dragged, the d
- 8. When the item is dragged over the dro 9. If an item is "dropped" anywhere othe
- where the user started dragging it.

Note:

- When the user toggles between the Logging S should be stored in a javascript variable that be there. However, for this implementation, i
- Please submit your HTML, CSS, and JS files, a



Keep a list of the party planning committee

Clear needs, abilities, goal

Unclear needs, abilities, goal

Brainstorm Ideas

The best way to have a good idea is to have lots of ideas. - Linus Pauling

How do we get from idea to execution?





Product



The Waterfall Model

Idea

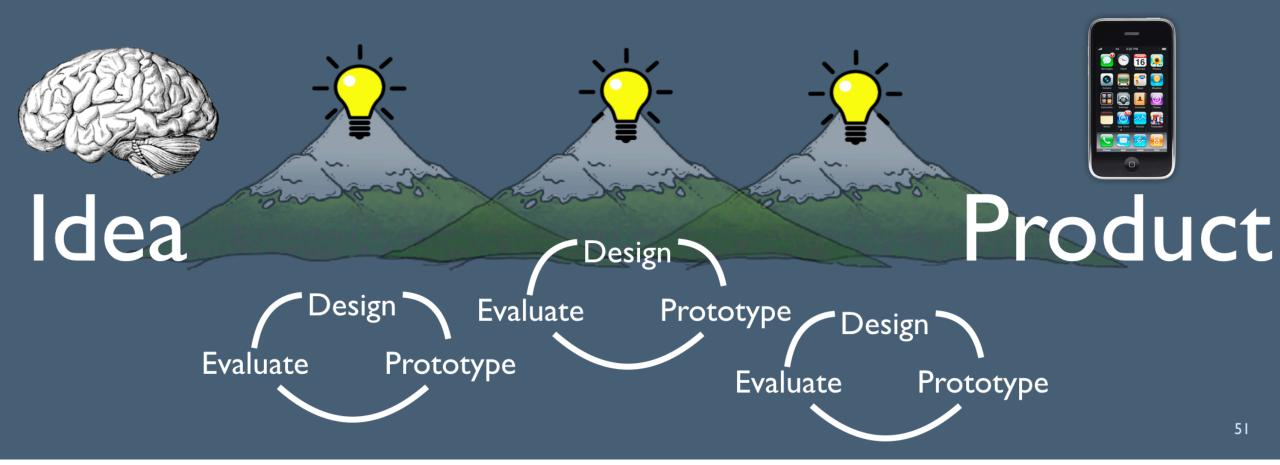
Intuitive and linear, but risky Not flexible enough to adapt to unknowns



Requirements Design Implement Fix bugs **Finished Product!**

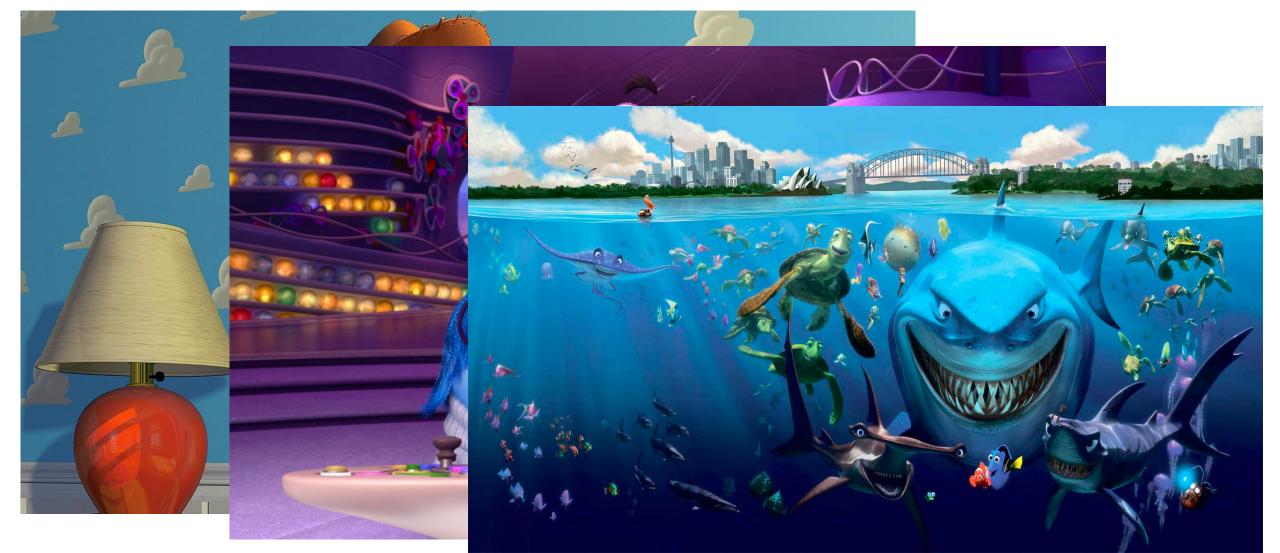
Iterative Design mitigates risk:

Every new concept is a risk. Every risk needs to be prototyped.

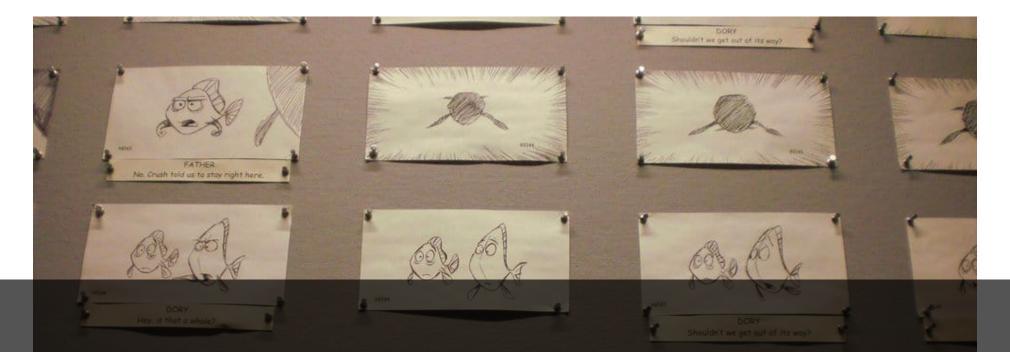


Low-Fidelity Prototypes

Pixar makes the some of the most detailed, beautiful and poignant films

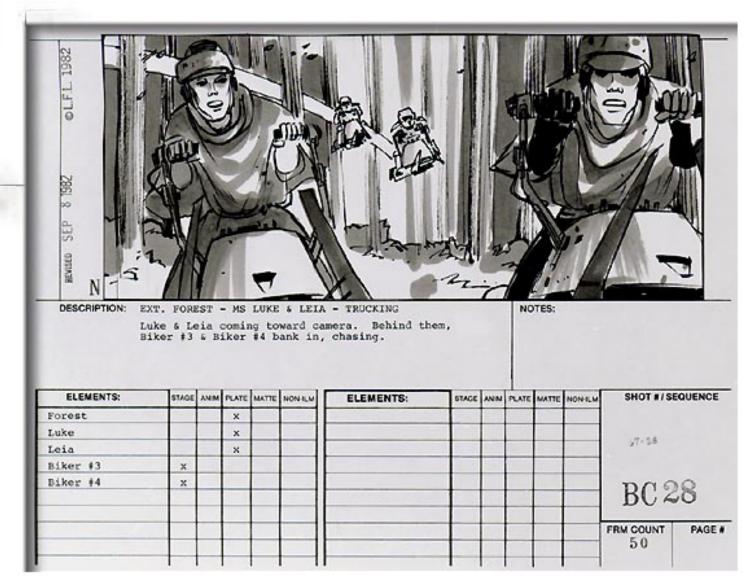


They always start with a storyboard. Why?

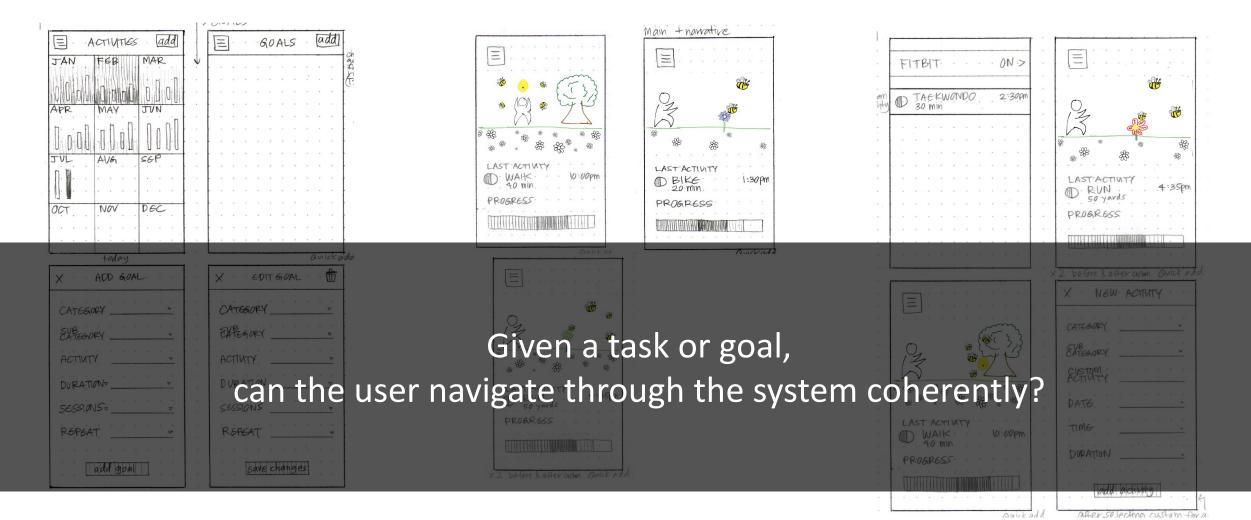


Storyboard can test the coherency of a story at a high level, while it is still easy to change it.

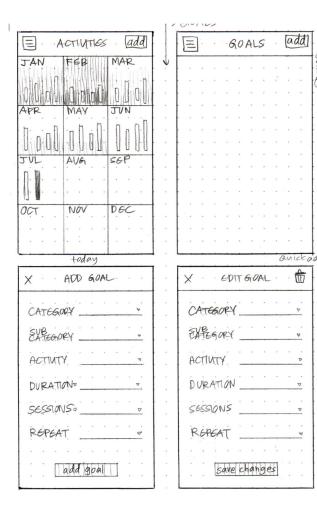
It's not just animated films. Live-action use storyboards, too.



Storyboards are also good for prototyping software interactions

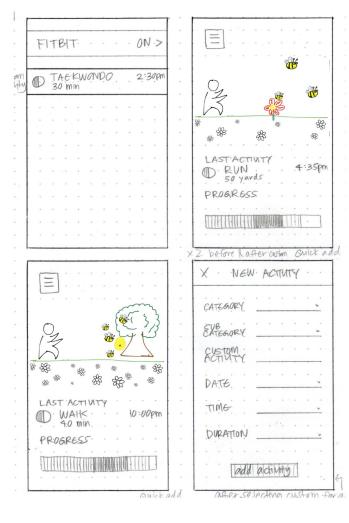


Application: Fitness Tracker





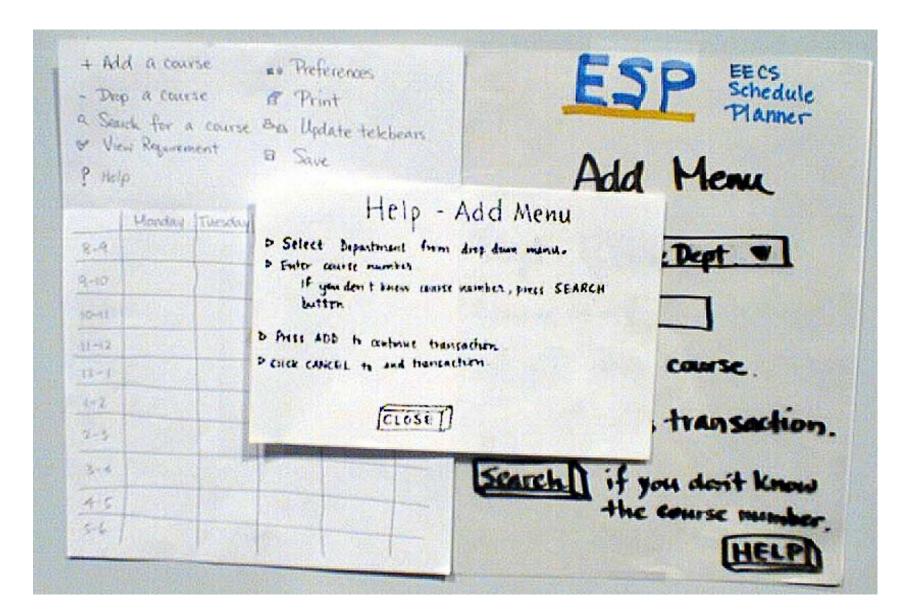




Application: GPS Driving Guidance



Application: Plan your class schedule



Paper Prototypes

Paper Prototypes:



- Put your low-fi prototype in front of users.
- Give them a task.
- Ask them to think out loud as they do the task
- Don't interrupt them.
- Don't lead them.
- Observe "critical incidents"
 - Times they are unsure
 - Times they did the wrong thing
- Write it down, possible take photos.

Interface #1: Task: "Get directions to locations A, B, C and D."



Interface #2: Task: "Get directions to locations A, B, C and D."

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What if the prototype is **too polished**?

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	dt+UX: Design Thinking for User Experience	e Design, Prototyping & Evaluation

Getting user feedback from a paper prototype:

- Give the user a **task**:
 - "Log into the system and post on somebody's wall"
 - "Search for tweets using the most popular hashtag"
 - "Add a new slide with two column template"
 - "Edit a post"
- Observe what they do
 - Encourage people to think-aloud
 - Look for "critical incidents."
 - Times were users are unsure what to do, do the wrong thing

Milestone #3 Feedback

Feedback on specificity of interaction

Good specificity of interaction:

"make notes on specific parts of the video" "click on [something else] to bring up a video" "replay specific segments in slow motion" "take a screenshot" "draw on a screenshot"

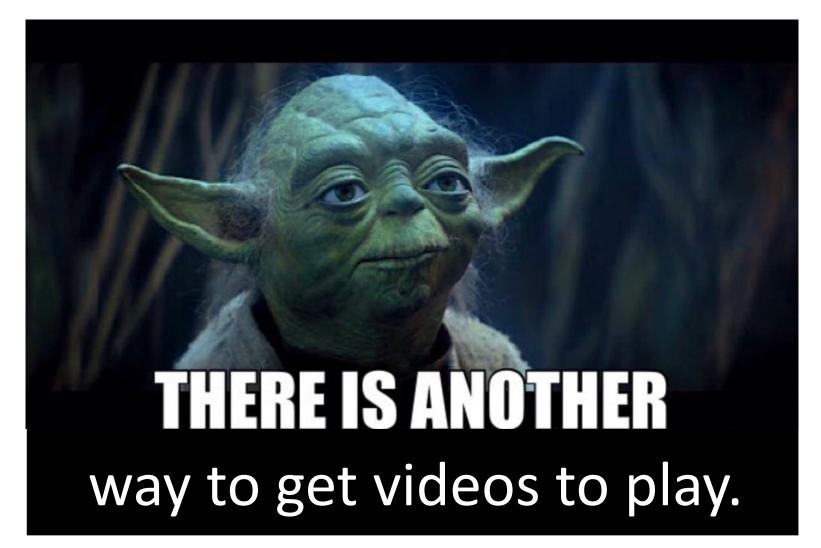
On the right track, but needs a little more:

"compare two videos": how? What is the user looking for in the comparison? "create a playlist": anything more task-specific? "make comments": Where? How? What's the best way to make comments in this domain?

Needs more specificity:

"search": what do you do after they've found them "play": what is a more specific way you can play them to aid this task "Rate" or "order": what more can you do to support this task.

Many of you embedded YouTube videos...



Group Brainstorming Activity

Activity: Sharing your Specific Needs

- Find a group of 3 or 4 without leaving your seat.
 - 20 seconds.

DONE!

Activity: Sharing your Specific Needs

- Find a group of 3 or 4 without leaving your seat.
 30 seconds.
- Find out everyone's first name.
 - What is your rank alphabetically?
 - Eleanor (1), Lucille (2), Lydia (3), Tessa (4)
 - 30 seconds

DONE!

Activity: Sharing your Specific Needs

- Person #1: Share 1 specific need.
 - The idea doesn't have to be perfect!
 - Others:
 - Brainstorm ways to make it even more specific, or
 - Brainstorm ways to make it use different specifics.
 - Person #1:
 - Listen.
 - Write it down.
 - Don't defend your idea.
 - Say "thank you," even if you hate the ideas.
 - 5 minutes

What person

Uses **what videos** and **How they interact** with it To achieve **what goal**

5 min

1 min

Anything helpful?

Activity: Sharing your Specific Needs

- Person #2: Share 1 specific need.
 - Others:
 - Brainstorm ways to make it even more specific, or
 - Brainstorm ways to make it use different specifics.
 - Person #2:
 - Listen.
 - Write it down.
 - Don't defend your idea.
 - Say "thank you," even if you hate the ideas.
 - 5 minutes

What person

Uses **what videos** and **How they interact** with it To achieve **what goal**

5 min

1 min

Anything helpful?

Activity: Sharing your Specific Needs

- Person #3: Share 1 specific need.
 - Others:
 - Brainstorm ways to make it even more specific, or
 - Brainstorm ways to make it use different specifics.
 - Person #3:
 - Listen.
 - Write it down.
 - Don't defend your idea.
 - Say "thank you," even if you hate the ideas.
 - 5 minutes

What person

Uses **what videos** and **How they interact** with it To achieve **what goal**

Anything helpful?

Activity: Sharing your Specific Needs

- Person #4 (or #1 or other): Share 1 specific needs.
 - Others:
 - Brainstorm ways to make it even more specific, or
 - Brainstorm ways to make it use different specifics.
 - Person #4 (or other):
 - Listen.
 - Write it down.
 - Don't defend your idea.
 - Say "thank you," even if you hate the ideas.
 - 5 minutes

What person

Uses **what videos** and **How they interact** with it To achieve **what goal**

Anything helpful?

Summary

Brainstorm Ideas

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How do we get from idea to execution?



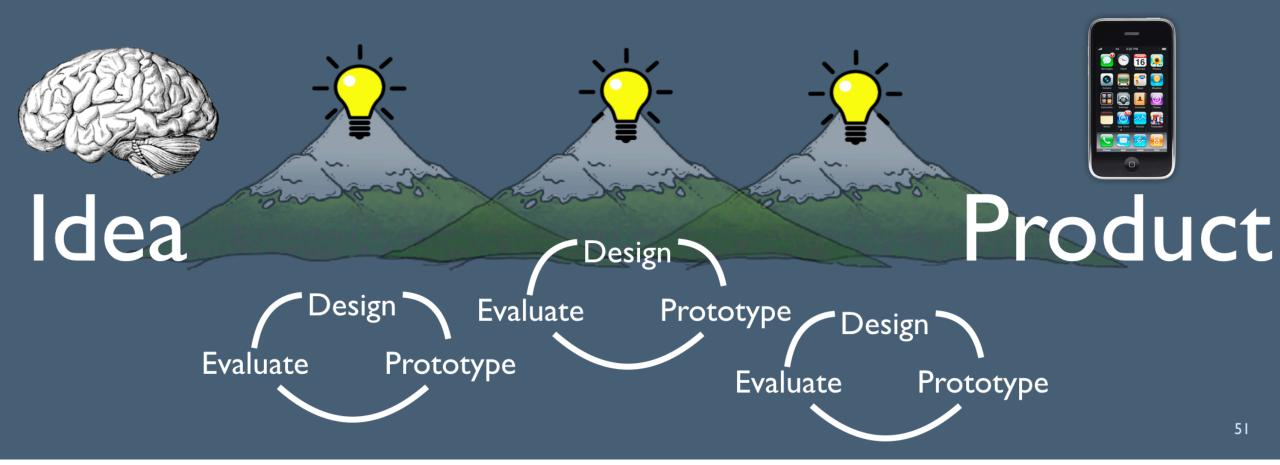


Product

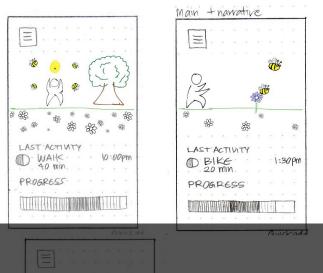


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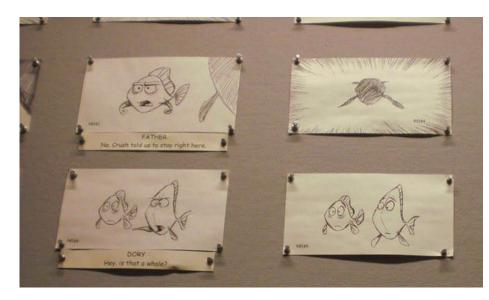
Low-Fi Prototypes mitigate risk by getting feedback on the most fundamental aspects of the design first



Given a task or goal,

can the user navigate the interaction coherently?

Pixar starts with storyboards. Software starts with paper prototypes













Milestone #4: Paper Prototype (due Monday @ class)

Pick **two** of your specific needs

- For each specific need, make a paper prototype for **two** different designs.
- For each design, have at least one task you want to test with users that gets at the coherency of the interaction.

Bring your prototype to class, and we will test on people.

TA Office Hours

Tessa:Thursday 3/299:30 - 11 AMLucille:Friday 3/3010:30 - 12PMEleanor:Monday 4/21:30 - 3:30PM