Assessing Technical Feasibility

No screens



Prof. Lydia Chilton COMS 4170 8 April 2019





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.

- 1. 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 committee.
 In its default state, the party planning commit
 Each list must have a div at the top of the list
- Using JQuery Draggable and Droppable even list to the head of the of the PPC list, and whe must also be true: names from the PPC list ca This must be implemented in the Model + Vie
 To cue that an element is draggable, implement background turns light yellow, and the curso
 While the item is being dragged, the backgrou
- 6. While the item is being dragged, it should loo
 7. While the item is being dragged, the drop targ
 8. When the item is dragged over the drop targe
 9. If an item is "dropped" anywhere other than where the user started dragging it

Note:

When the user toggles between the Logging Sales should be stored in a javascript variable that if the be there. However, for this implementation, if the

Please submit your HTML, CSS, and JS files, along w



Keep a list of the party planning committee

Clear needs, abilities, goal

Unclear needs, abilities, goal

How do get from idea to product?



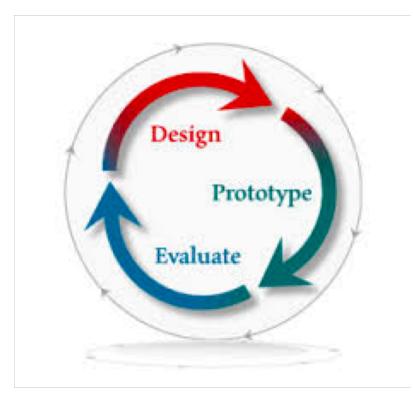
Idea



Iterative Design

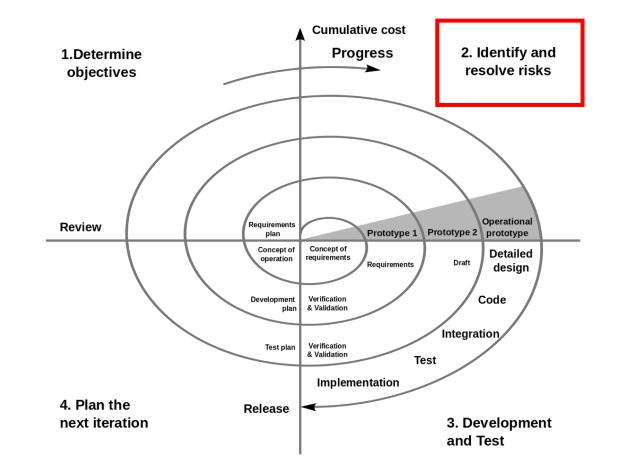


Idea

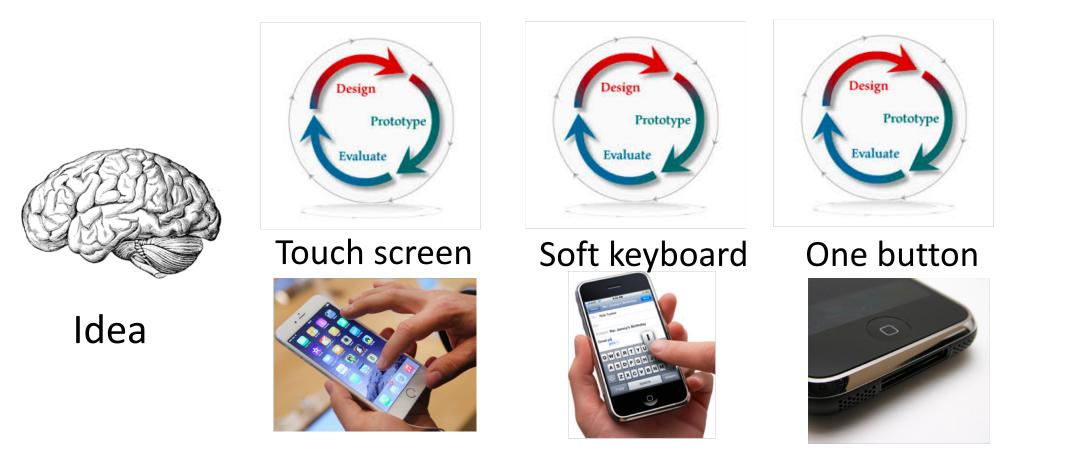




Iterative Design is good because it minimizes risk



To minimize risk on novel designs, Use iteration on each risky aspect of the design





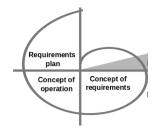
Product

Brainstorming: The idea itself is risky. So we have many ideas before picking one.



The first iteration should be as **low-fidelity** as possible

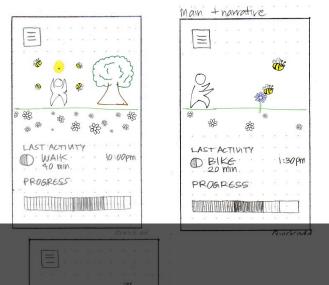
1.Determine objectives 2. Identify and resolve risks



4. Plan the next iteration

3. Development and Test

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

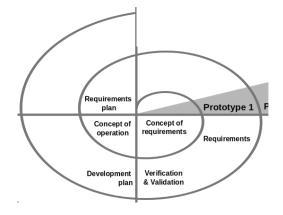


Given a task or goal,

can the user navigate the interaction coherently?

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What's the next biggest risk?



Is the idea technically feasible?

Idea: Teleportation

N N N

What are your biggest technical risks?

We will next assess technical feasibility to mitigate these risks

Design technique: Flare and Focus

You started with many ideas. You made and tested paper prototypes. Why?

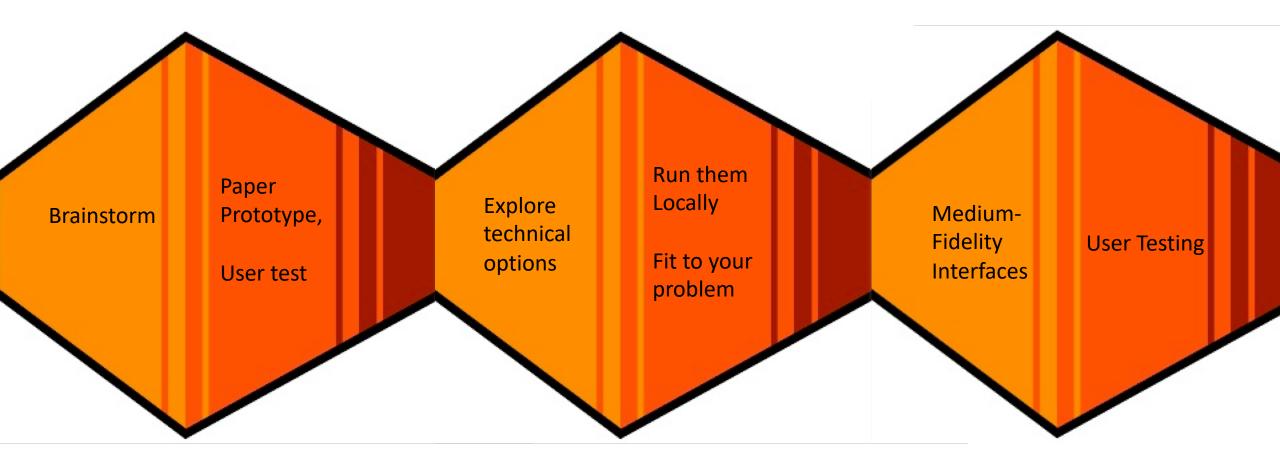
Make a web app



To pick an idea, explore and test many ideas. This is how we learn from experimentation.

It's called Flare and Focus

Learning from Experimentation Sequential Flare and Focus



Ideas

Technical Elements

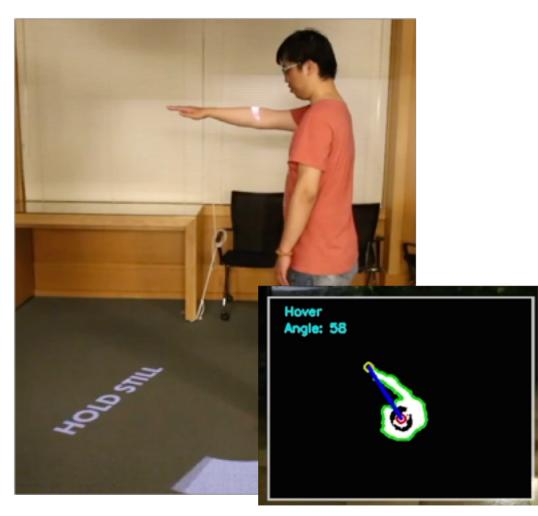
User Interface

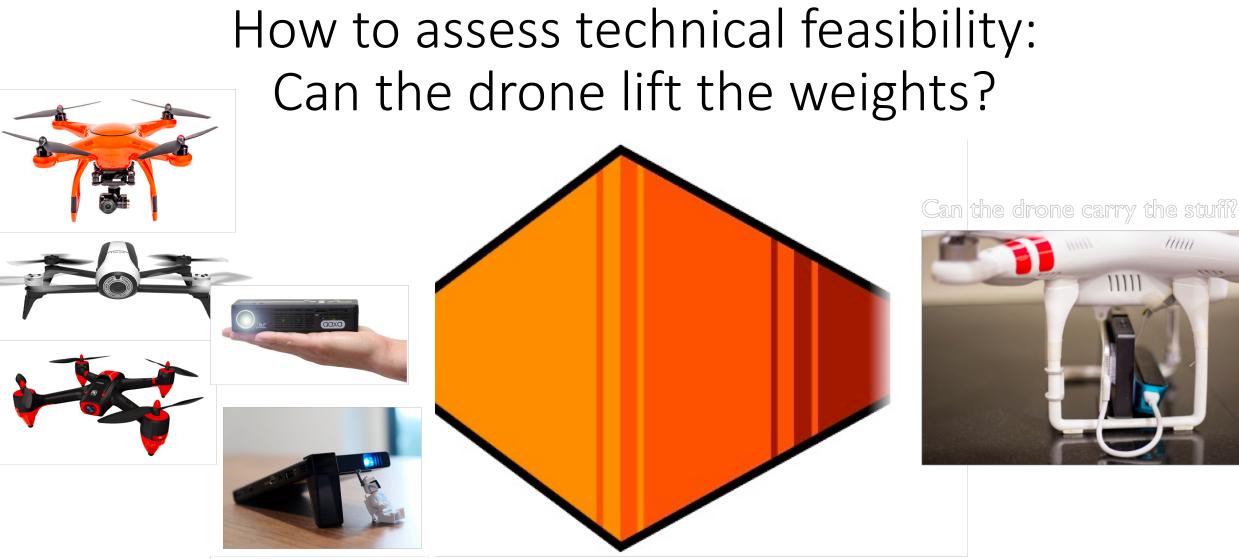
What were the two biggest technical risks of DronelO?

Can the drone carry the stuff?



Can the camera detect h

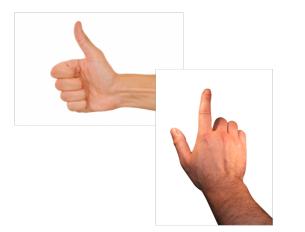


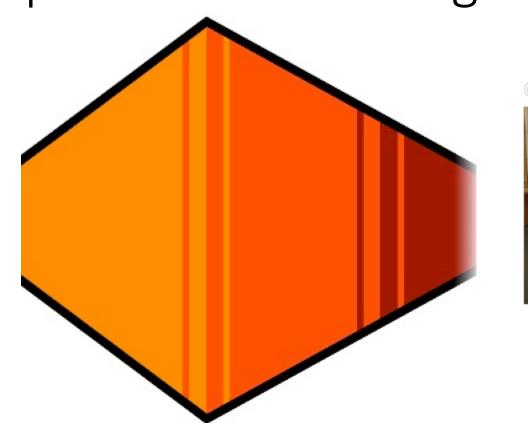




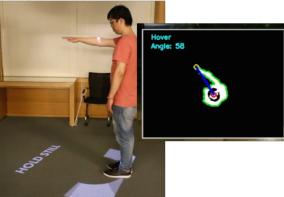
How to assess technical feasibility: Can the depth sensor detect gestures?







Can the camera detect hands?



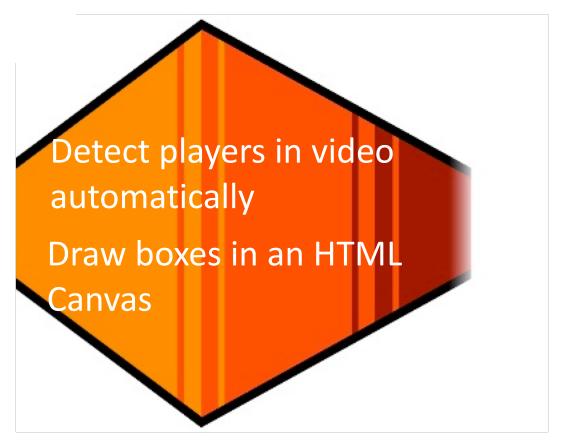
Technical Feasibility: Zumba Playlist

Trimming the beginnings and ends of songs (to cut out the boring parts)

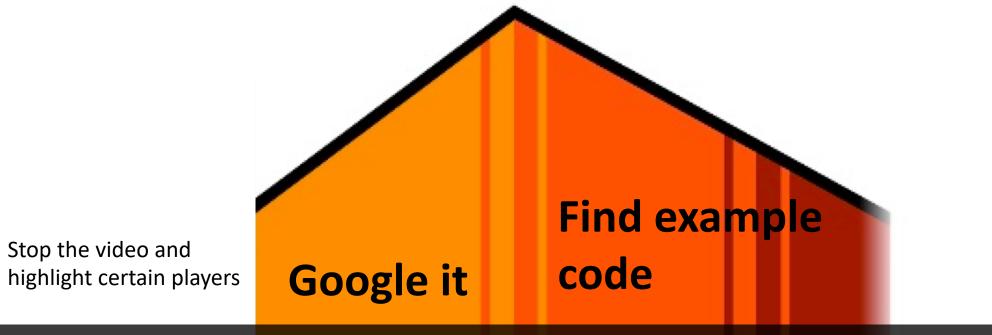


Technical Feasibility: Teach the Pick and Roll

Stop the video and highlight certain players



Assessing technical feasibility for your idea



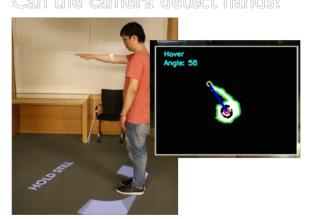
RUN IT LOCALLY

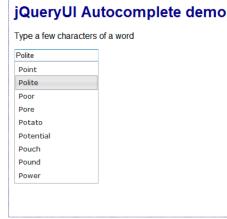
We are assessing technical feasibility. If it doesn't run locally on your machine it isn't technically feasible.

How good should a technical feasibility prototype be?

Can the drone carry the stuff?







What *should* it be?

Should it be pretty? Should it be usable? Should it work in IE6? Just good enough to test technical feasibility

Why do I need to run examples locally?

Why does Gordon Ramsey do this?





What other domains use a staging area?







Java[™] Platform, Standard Edition 7 API Specification

This document is the API specification for the Java™ Platform, Standard Edition. See: Description

Packages						
Package	Description					
java.applet	Provides the classes necessary to create an applet and a					
java.awt	Contains all of the classes for creating user interfaces and					
java.awt.color	Provides classes for color spaces.					
java.awt.datatransfer	Provides interfaces and classes for transferring data betw					
java.awt.dnd	Drag and Drop is a direct manipulation gesture found in n between two entities logically associated with presentation					
java.awt.event	Provides interfaces and classes for dealing with different					
java.awt.font	Provides classes and interface relating to fonts.					
java.awt.geom	Provides the Java 2D classes for defining and performing					
java.awt.im	Provides classes and interfaces for the input method fran					



Why is it important to have drones and projectors ready to use?



Can the drone carry the stuff?



UI Design Philosophy:

Ready-to-hand (Heidegger)



Once you have all the tools easy and ready to use,

You can stop focusing on the **tools**.

And start focusing on your **task**.

If you have example code (and your media) ready to use, you can test it more efficiently.

HTML Canvas with boxes drawn

Image detection code







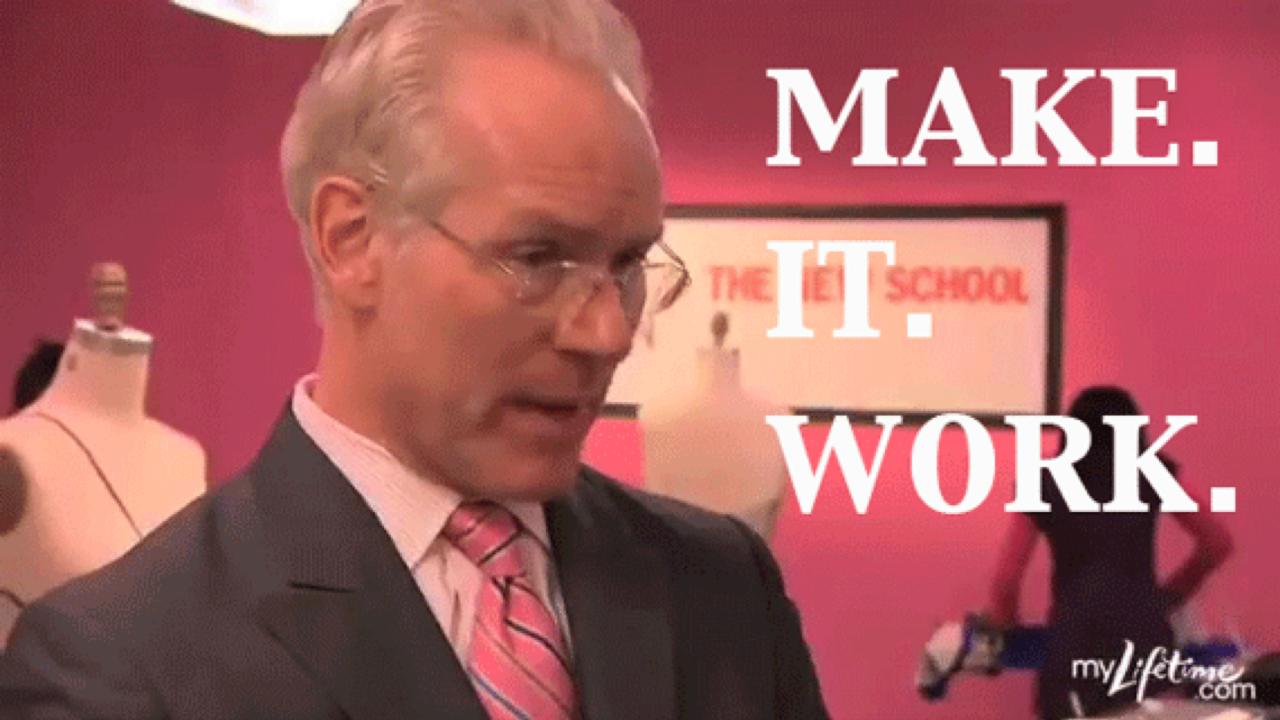
Not everything will work.

Is that okay?



"I tried **silk chiffon**, but it didn't work."

"I tried the Google Object Detection, but it didn't work."



Homework 11

Technical Prototype

- Technical Exploration (Flare)
 - Find similar applications and see how they implement them
 - Find the media assets you will need.
 - What are the biggest technical risks?
- Testing (Focus)
 - Make a technical prototype

Right now: With a partner or small group.

Google it: Find similar applications.

Wednesday: Bring your media assets and technical prototype to class

- Find assets for at least one idea
- Explore at least one technical solution
- Share it with your group
- Get feedback and ideas.

Come only to your section. Same groups, same places.