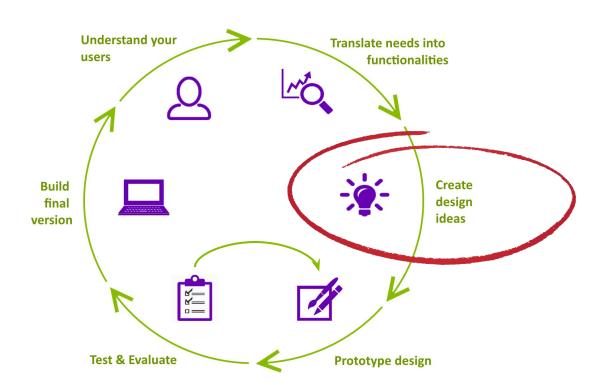
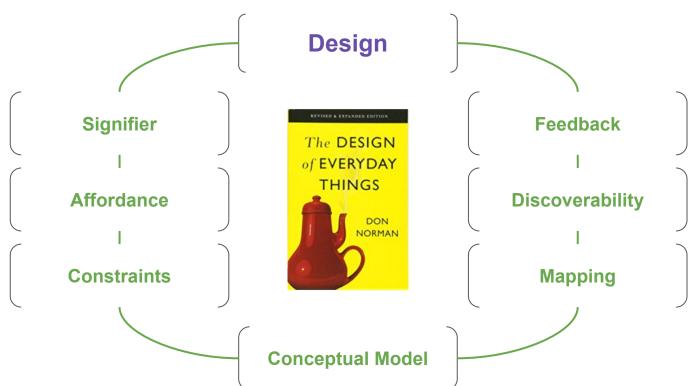
CS449/649: Human-Computer Interaction

Spring 2017

Lecture VIII









Feedback - conveys effects of user's actions

Location:
where am I?

Current status:
what's happening?

Future status:
what's next?

Outcomes:
what just happened?

By David M. Hogue

Time: How long is going to take?

Reasons: why you do what you do?

Presence: Are you even there?



Feedback - conveys effects of user's actions

Feedback loop

Speed: Influence decisions

Measurability:
Provide
comparisons



Context: Meaning of your feedback

> Motivation: should correspond



Design

Signifier - indicators of any type that communicate the action needed so the affordance can take place

Affordance - the possible use for an object when interacting with it

Constraints - restrictions that limit the possible actions available with an object

Feedback - conveys effects of user's actions



Discoverability - whether it's possible to figure out how to use an object by interacting with it

Findability - whether it's easy to find content

Learnability - whether it's easy to learn how to use functionality



Discoverability - whether it's possible to figure out how to use an object by interacting with it

Findability - whether it's easy to find content



F-Shaped Pattern For Reading Web Content

Learnability - whether it's easy to learn how to use functionality

Make use of existing practices and familiar interactions

Build around existing cognitive models

Make use of signifiers and affordances



Design

Signifier - indicators of any type that communicate the action needed so the affordance can take place

Affordance - the possible use for an object when interacting with it

Constraints - restrictions that limit the possible actions available with an object

Feedback - conveys effects of user's actions

Discoverability - whether it's possible to figure out how to use an object by interacting with it



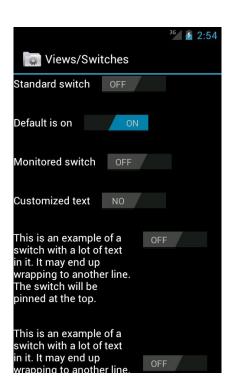
Mapping - indication of the relationship between objects (often controls)



Elevator buttons, Shane Adams via Flickr Creative Commons



- Make use of spatial gestalt principles
- In some cases culture-specific
- Build around existing cognitive models





Design

Signifier - indicators of any type that communicate the action needed so the affordance can take place

Affordance - the possible use for an object when interacting with it

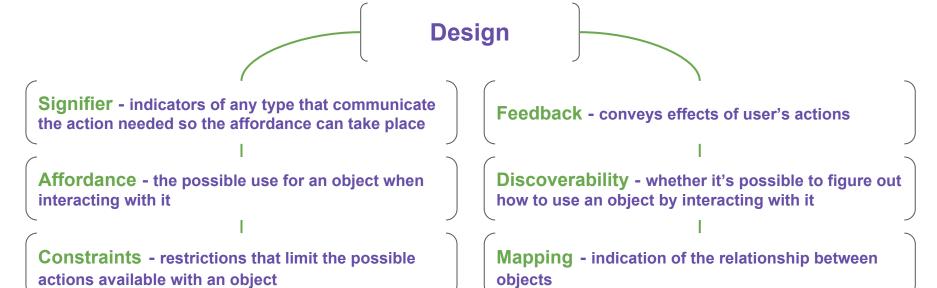
Constraints - restrictions that limit the possible actions available with an object

Feedback - conveys effects of user's actions

Discoverability - whether it's possible to figure out how to use an object by interacting with it

Mapping - indication of the relationship between objects

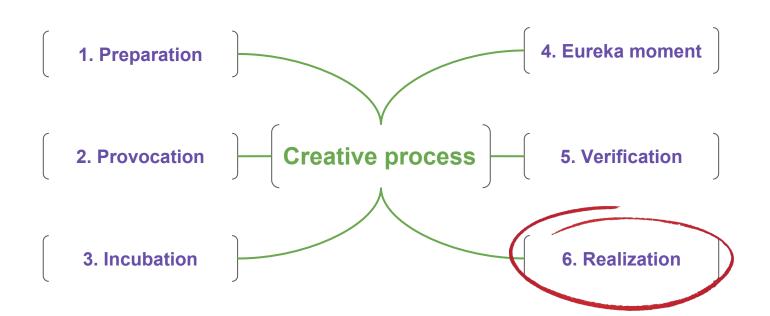




Conceptual Model - user's understanding of how the system works



Create Ideas





Sketches User stories Wireframes



Supports brainstorming

Fast and simple

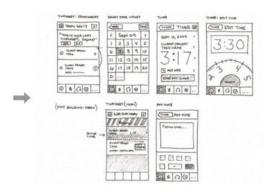
Speeds up your work

Create Design Ideas

Sketches
- illustration of how the basic concept works



Idea: An app that makes time tracking easy.



Doesn't have to look good

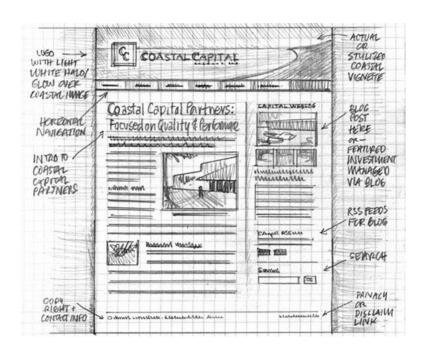
Supports communication

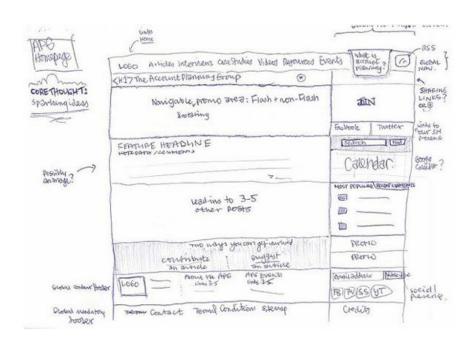
Tells a story

The idea translated into user interface form.

Image:

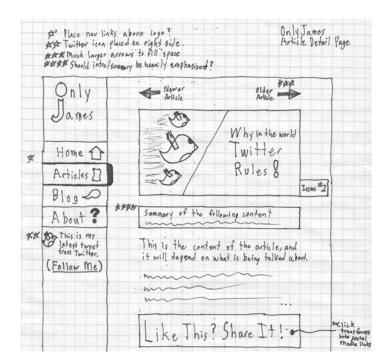








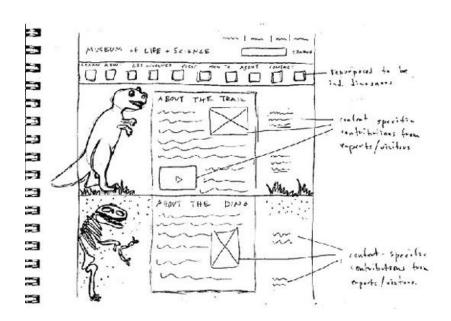
YOU HAVE 25 FRIENDS Y	NHO KROW
HAVE ALREADY STENED THE CARD-	
SOLECT WHICH PRIGHD TO INVITE	TO THE CHED STENING.
I sould all filliands.	
o D www.m	Δ
0 (8) mmmm	
0 2 mmm	
- B www.	
a Dimmin	
a D will	A
DIEGO WERSARE PREVIEW	
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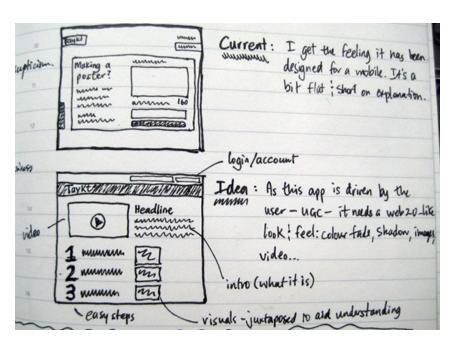


OnlyJames Wireframe Sketch

Hashlove Friends Invite







Dinosaurs

Taykt Wireframe

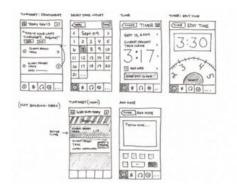


Sketches

- illustration of how the basic concept works

User stories

Wireframes



The idea translated into user interface form.

Image:

http://uxmovement.com/wireframes/why-its-important-to-sketch-before-you-wireframe/



User stories

- description of a feature from an end-user perspective

As a user / <persona> , I want / need <action> so that I can <user goal>. A communication tool

Keep them visible

Prevent dead-ends

"As a user I need to type in an email address"

"As a user I want to type in an email subject"

"As a user I want to type in an email text"

"As a user I want to send an email."

Keep it simple

Keep breaking them down

Have acceptance criteria



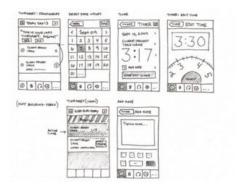
Sketches

- illustration of how the basic concept works

User stories

- description of a feature from an end-user perspective

Wireframes



As a user / <persona>,
I want / need <action>
so that I can <user goal>.

The idea translated into user interface form.

Image:

http://uxmovement.com/wireframes/why-its-important-to-sketch-before-you-wireframe/



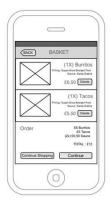
Quick, cheap and easy

Used as the documentation

Using pixelated widgets

Wireframes

- static representation of the UI layout and user flow





Main groups of content

Structure of content

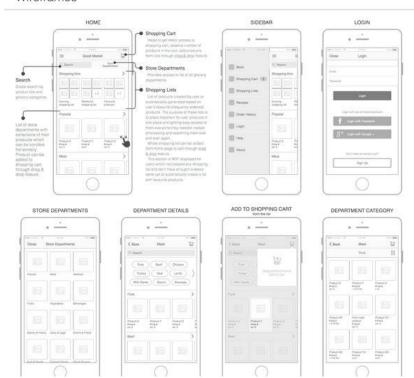
Only basic visualization

Image: https://www.behance.net/gallery/13421913/Wireframes-Restaurant-App



Wireframes

Create Design Ideas



ACURA - YOUTUBE



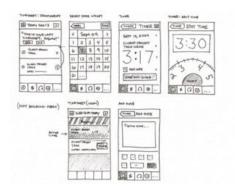
Wireframe for Acura's Subscriber page on Youtube

UX Wireframes for Online Grocery Shopping Mobile App



Sketches

- illustration of how the basic concept works



The idea translated into user interface form.

User stories

- description of a feature from an end-user perspective

As a user / <persona> , I want / need <action> so that I can <user goal>.

Wireframes

- static representation of the UI layout and user flow





Image:

http://uxmovement.com/wireframes/why-its-important-to-sketch-before-you-wireframe/

Image:

https://www.behance.net/gallery/13421913/Wireframes-Restaurant-App

Week 4 take-away

- Creativity:
 - What is it and how it works
 - 6 stages of creative process and relevant enhancing techniques
- Design theory:
 - Interface
 - Semiotics and the concept of sign
 - 7 fundamental concepts by Don Norman (signifiers, affordances, constraints, feedback, discoverability, mapping, conceptual model)
- Ideation and visualisation tools:
 - Sketches
 - User stories
 - Wireframes