

PUI – Prototyping Lab

Fall 2013

Human Computer Interaction Institute

Carnegie Mellon University

Instructor: Iris Howley

RAPID PROTOTYPING



HW3

- Assigned today!
- On the course website
 - <http://www.andrew.cmu.edu/user/ihowley/pui/index.htm#materials>
- Design a photocopier
 - Iteration 1 **Due in 7 days** (Paper Prototyping, etc)
 - The rest due November 4 (Flex Program & Report, etc)



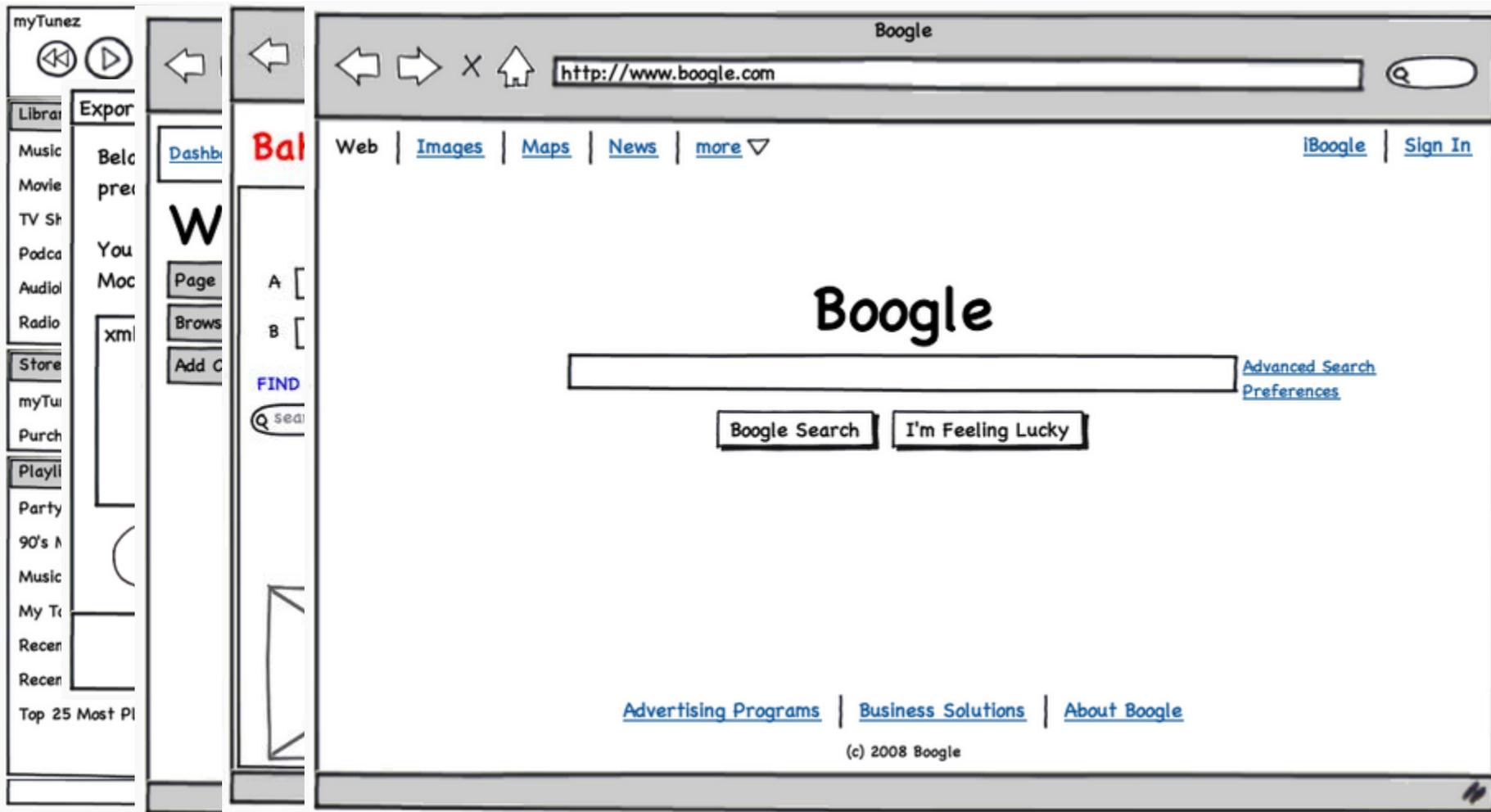
Balsamiq!

- <http://balsamiq.com>
- Desktop (7 day trial) & Web versions
 - Low-fi Sketch Wireframes
 - Click-through Prototypes
 - UI Components & Icons



Balsamiq!

EXAMPLES



Balsamiq!

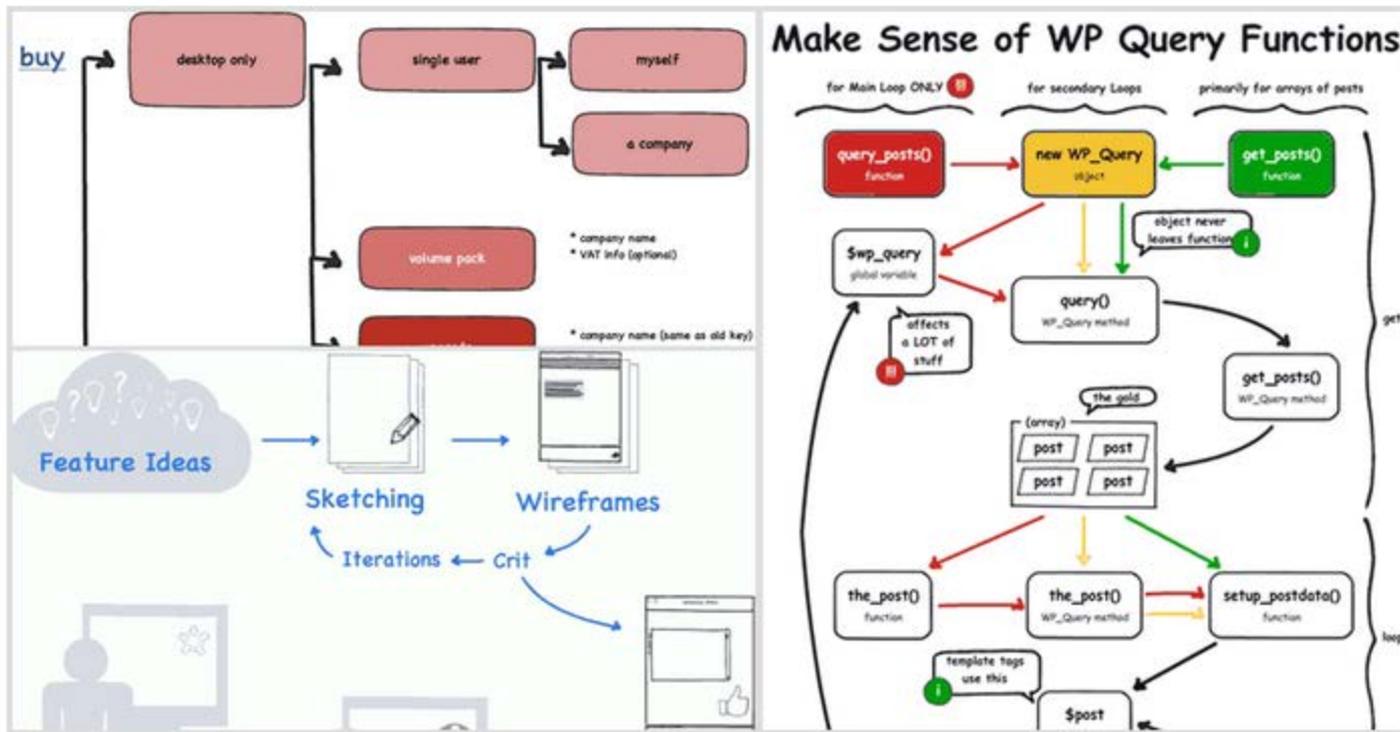
- Linking Mock-ups Together
 - <http://support.balsamiq.com/customer/portal/articles/111742-linking-mockups-together>
- Specifying Interaction in Balsamiq (beyond linking)
 - <http://support.balsamiq.com/customer/portal/articles/107999>
 - <http://www.youtube.com/watch?v=PeV4gF0b-Xk>



Balsamiq!

INTERACTIONS

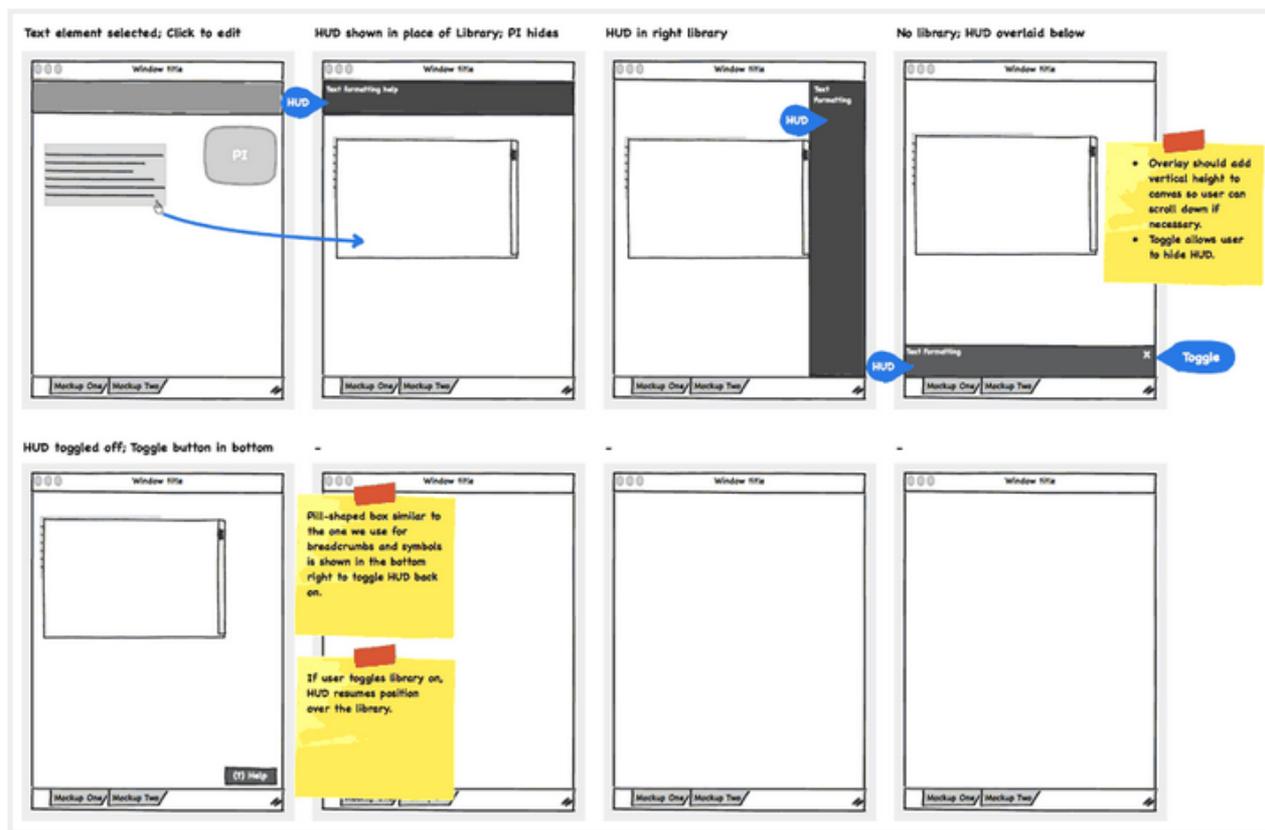
- Flowcharts



Balsamiq!

INTERACTIONS

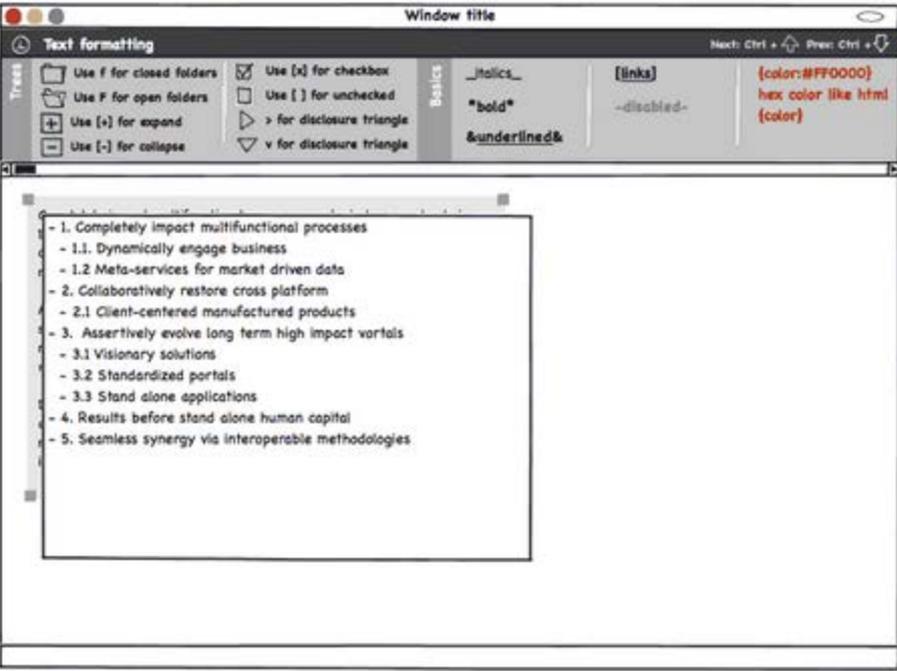
- Sketchboards



Balsamiq!

INTERACTIONS

- Wireframes with annotations



The screenshot shows a Balsamiq wireframe window titled "Text Formatting Rules Expanded over Library". The window has a dark header with the title "Text formatting" and a toolbar with icons for undo, redo, and search. Below the header is a list of text formatting rules, including "Use F for closed folders", "Use F for open folders", "Use [+] for expand", "Use [-] for collapse", "Use [x] for checkbox", "Use [] for unchecked", "> for disclosure triangle", and "v for disclosure triangle". To the right of the rules is a "Basics" section with options for "italics", "bold", "disabled", and "underlined". Further right is a "Color" section with options for "hex color like html" and "color". The main content area of the wireframe contains a list of items:

- 1. Completely impact multifunctional processes
 - 1.1. Dynamically engage business
 - 1.2. Meta-services for market driven data
- 2. Collaboratively restore cross platform
 - 2.1. Client-centered manufactured products
- 3. Assertively evolve long term high impact portals
 - 3.1. Visionary solutions
 - 3.2. Standardized portals
 - 3.3. Stand alone applications
- 4. Results before stand alone human capital
- 5. Seamless synergy via interoperable methodologies

Annotations are present: a blue circle with the number "1" points to the HUD header, a blue circle with the number "2" points to the "Color" section, and a blue circle with the number "3" points to the list of items.

NOTES

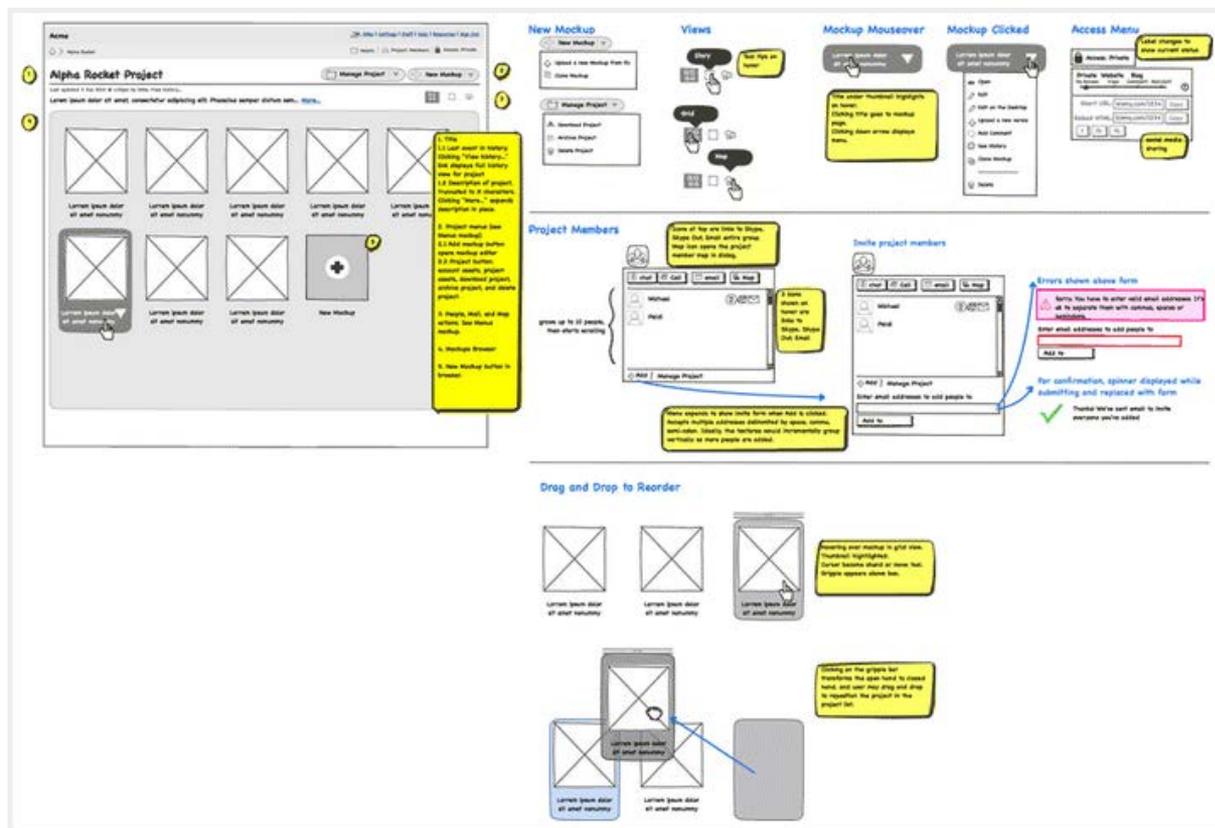
- 1. HUD header**
Indicates that this HUD displays text formatting tips.
- 2. Pagination**
Users can paginate through the HUD using Ctrl+arrow keys.
- 3. Formatting Tips**
Categorized tips for the current component are shown.
3.1 Order of Tips
Make the control-specific tips show up first, and the basic ones last.
3.2 Context
Formatting options should be relevant to control in use.
3.3 Tips as Actions
A useful feature would be that clicking one of the formatting tips inserts the text formatting markup into the insertion point of the text area.
If text is selected in the text area, and the text formatting tip is marked with opening and closing tags, enclose the selected text with the markup.



Balsamiq!

INTERACTIONS

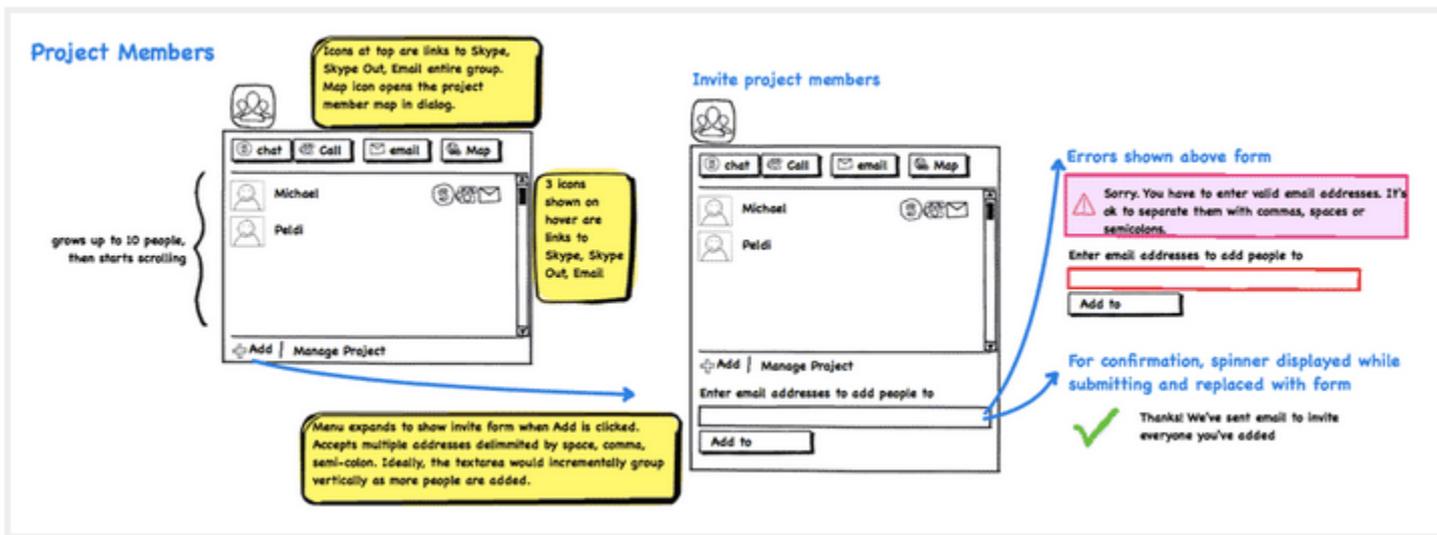
- Wireframes with illustrated flow



Balsamiq!

INTERACTIONS

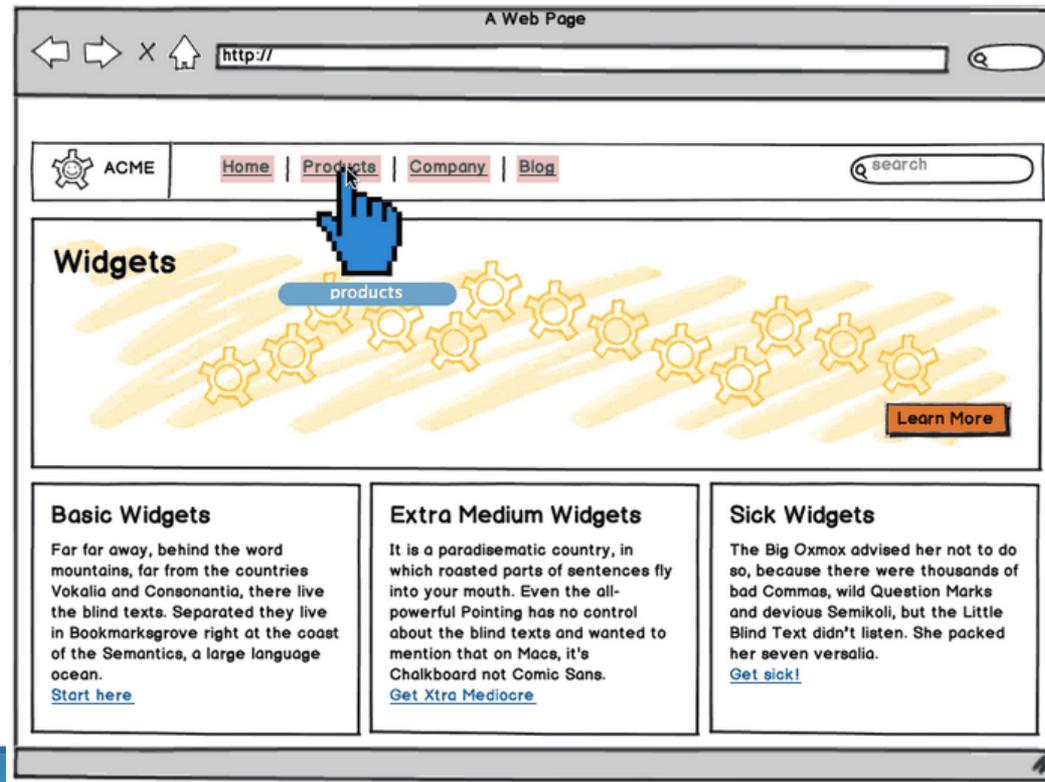
- Storyboards



Balsamiq!

INTERACTIONS

- Click Through Prototypes with Links
 - http://www.youtube.com/watch?v=_8IyyvE_CYrg



Balsamiq!

EXERCISE



Questions?



POP (Prototypes on Paper)

QUINTIN'S TIP!

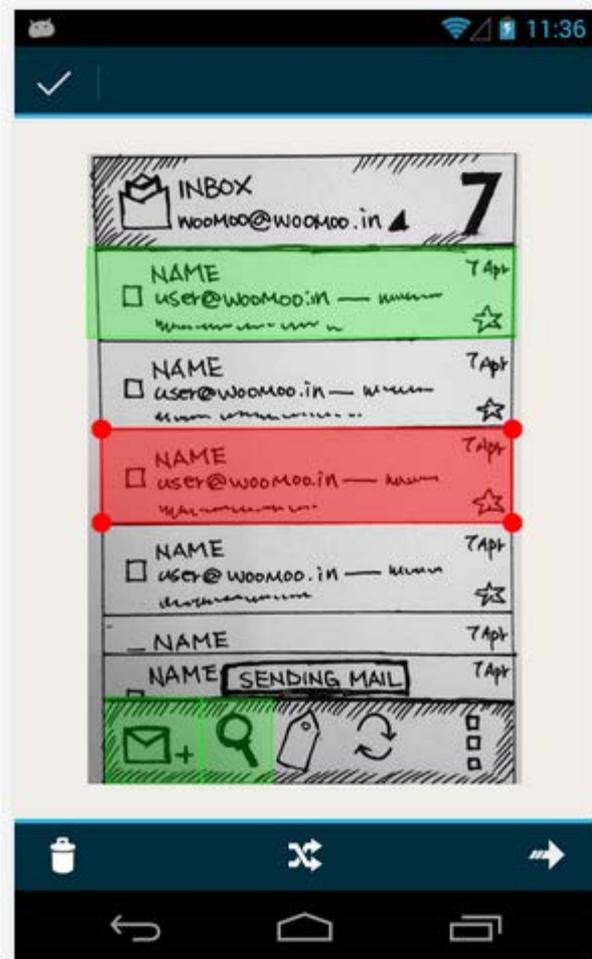
- <https://popapp.in/>
- Smartphone App for designing on the go (& taking with you)
- Appears to be free
 1. Design on Paper
 2. Take Pictures
 3. Link Pages
 4. Play & Test



POP (Prototypes on Paper)

EXAMPLES

<http://www.youtube.com/watch?v=2OgLmxHzDeU>



Physical Prototyping

- Laser Cutter Tutorial (*in process*)



Questions?

