CMSC 128 Laboratory Handout 4

Wireframing, Prototyping and Devtools

Wireframe

- a two-dimensional illustration of a page's interface that specifically focuses on space allocation and prioritization of content, functionalities available, and intended behaviors
- "blueprint for design"
- typically does not include any styling, color, or graphics
- helps establish relationships between various templates of a system

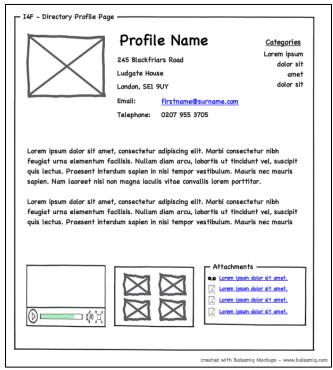


Figure 1. Wireframe Example

Why use wireframes?

- They connect the underlying conceptual structure (or information architecture) to the surface (or visual design) of a website or mobile app.
- visual representations of an interface that is used to communicate the following details:
 - Structure How will the pieces of this site be put together?
 - o Content What will be displayed on the site?
 - Informational hierarchy How is this information organized and displayed?
 - Functionality How will this interface work?
 - Behavior How does it interact with the user, and how does it behave?

Things to remember in creating wireframes

- Do not use colors.
- Do not use images. Use a rectangular box sized to dimension with an "x" through it instead.
- Use only one generic font.

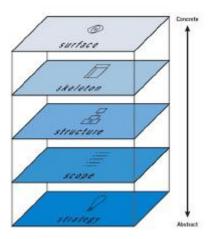


Figure 2. The Elements of User Experience

Important Elements of Wireframes

- Logo
- Search field
- Breadcrumb
- Headers, including page title as the H1 and subheads H2-Hx
- Navigation systems, including global navigation and local navigation
- Body content
- · Share buttons
- · Contact information
- Footer

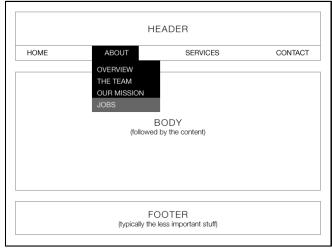


Figure 3. Wireframe containing various states of menu behavior

Developers use wireframes to:

- get a more tangible grasp of the site's functionality
- get a clear picture of the elements that they will need to code

Some Wireframing Tools

http://mashable.com/2010/07/15/wireframing-tools/

Prototyping

- creating a demo of a new system
- essential for clarifying information requirements
- design of a system (functional specifications) must be finalized before the system can be built

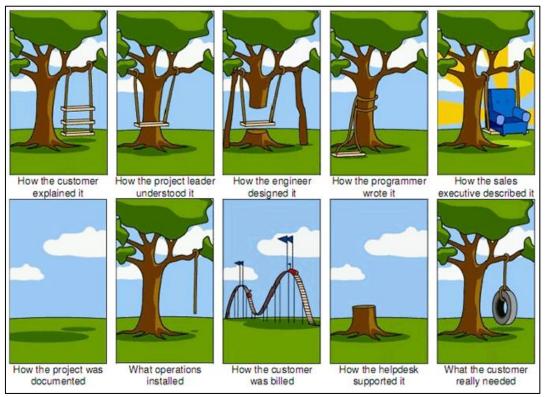


Figure 4. Product Management Tree Swing

Five Reasons to Use Prototypes

- 1. Communications and collaboration
- 2. Gauge feasibility while reducing waste
- 3. Sell your idea
- 4. Text usability earlier
- 5. Set your design priorities

Images from:

- http://www.flickr.com/photos/doos/3931846833/
- Jesse James Garret: The Elements of User Experience
- http://www.tamingdata.com/2010/07/08/the-project-management-tree-swing-cartoon-past-and-present/

References

- Bank, C. (2014). The Guide to Wireframing: For Designers, PMs, Engineers and Anyone Who Touches Product. Retrieved February 16, 2015 from: https://www.uxpin.com/.
- Cao, J et. al. (2014). The Ultimate Guide to Prototyping: The best prototyping methods, tools, and processes. Retrieved February 16, 2015 from: https://www.uxpin.com/.
- Lim, W. (2012). A Beginner's Guide to Wireframing. Retrieved February 13, 2015, from: http://webdesign.tutsplus.com/articles/a-beginners-guide-to-wireframing--webdesign-7399.
- Prototyping. (n.d.) Retrieved February 16, 2015, from: http://www.pcmag.com/encyclopedia/term/49886/prototyping.
- Wireframing. (n.d.) Retrieved February 16, 2015, from: http://www.usability.gov/how-to-and-tools/methods/wireframing.html.