UI/UX

1. A Few Guidelines

- a. Keep it simple
- b. When you think the UI is as minimal as it can possibly be, trim it again
- c. Ask Steve Jobs about remotes...

2. Keep It Consistent

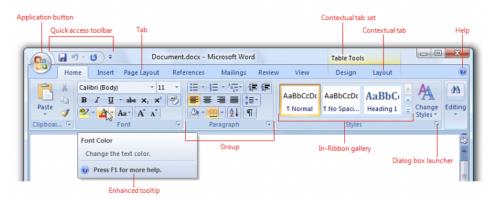
- a. Users 'learn' to use a page or app
- b. Part of that learning is consistent placement of design elements
- c. Menus should appear on every page in exactly the same place, same order
- d. Creativity in the UI is constrained by usability

3. No Surprises

- a. One of the core UI design rules is that there should be no surprises
- b. Unexpected results, or having to hunt for a menu item or other functionality causes a disconnect
- c. The UI should just 'work' without much thought

4. Contextual UI

- a. When possible, hide functionality that isn't necessary for the current task
- b. Your app should understand or learn what features are used when, and use that knowledge to simply the interface
- c. Additional functionality should be one click (max 2) away when needed



d.

5. Multiple Paths

- a. The temptation is to provide nine different ways to accomplish a task
- b. Don't fall for it...choose one way (hopefully the best way) and be consistent with it
- c. Find out what users expect the path to be with focus groups
- d. Don't be afraid to change the UI based on user feedback

- 6. Develop a Design Language
 - a. Part of being consistent is to create a language for your app based in design
 - b. For example
 - i. Bold text might always mean a tip or hint
 - ii. A yellow box in the upper right might mean caution
 - c. Carry the language elements throughout not only the app, but its packaging, marketing and so on

7. What Goes Where

- a. Important information should be placed in an area where the eye naturally rests
- b. Ditto oft-used functionality...things the user is going to do a lot
- c. This is most often in the upper left (for web-based apps)
- d. There's a reason Google puts ads upper-left



e.

8. Testing

- a. Testing UI should involve untouched users
- b. Rather than testing scripted actions (click here, then here...), present tasks
 - i. Copy this paragraph into a new document and make it italic
- c. Capture video of over-the-shoulder, face, and screen and time-sync the feeds
- 9. What About Templates & Bootstrap?
 - a. Bootstrap came out of Twitter several years ago
 - b. It's a standard set of CSS styles and layouts using a 12-column grid
 - c. You've seen this everywhere...it's become quite popular
 - i. http://trydevkit.com/blog-post/30-inspiring-twitter-bootstrap-examples/8d952b12-1511-bb1c-91d5-5339ad288891
 - ii. http://v4-alpha.getbootstrap.com/examples/
 - d. It's responsive library that adjusts layouts to desktop and mobile display sizes

- e. Some pros:
 - i. It's very easy to learn and to use
 - ii. It's fast; the libraries are precompiled and available on CDNs
 - iii. It lets you stand up a fairly decent looking site without a lot of effort
- f. Some cons:
 - i. Everyone is using it
 - ii. It uses jQuery
 - iii. It isn't all that easy to modify

10. Other Templates

- a. An entire industry has built up around web and app templates
- b. These tend to be pretty mature...they came around early in the web as ways to rapidly deploy sites
- c. They tend to be back-end heavy and are often platform-specific
- d. Here's some Drupal themes
 - i. https://themeforest.net/category/cms-themes/drupal

11. Programming UI

- a. While Bootstrap and platform-specific libraries and templates aim for visual uniformity, there's another set of tools that take a programmatic approach
- b. For example
 - i. Google Angular.js
 - 1. Uses Typescript, and extension to Javascript
 - ii. Facebooks ReactJS
 - 1. Uses JSX, an extension to Javascript
- c. Both provide a programming platform for UI...they provide both HTML rendering and Javascript MVC

12. Bottom Line

- a. Good UI is herd to define we know it when we see it
- b. That said, there are some habits we can develop and general guidelines to follow to arrive at good UI
- c. It's important to get UI right the first time ... people hate it when you start messing with an interface
- d. Things change pretty rapidly; it wasn't that long ago that software training included instructions on how to use a mouse
- e. I think the most important thing is consistency in the design language... get that right and everything else flows from it