

HUMAN-MAP INTERACTIVITY

Interactive Map Design | Spring 2018

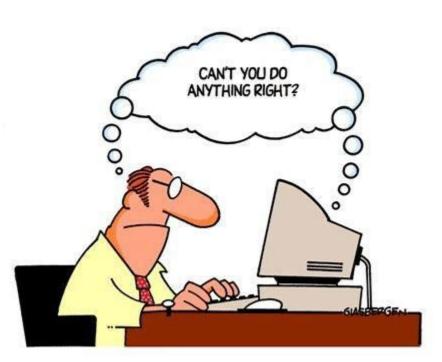
Designing a map for the web means that we are no longer designing for map *readers*, but map *users*

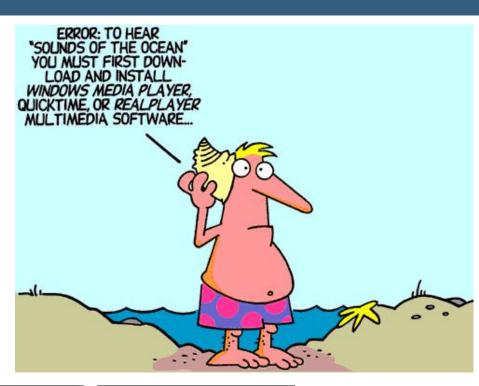
- People interactive & manipulate maps
- No need for a one-size-fits all approach
- Design to respond to a map user's needs

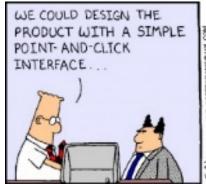
Terminology

- Graphical User Interface (GUI, aka 'gooey'). Allows people to interact with electronic devices through graphical icons and other visuals
- Human-Computer Interaction (HCI). Researches the design and use of computer technology.

Human Computer Interaction....







OR WE COULD REQUIRE THE USER TO CHOOSE AMONG THOUSANDS OF POORLY DOCUMENTED COMMANDS, EACH OF WHICH MUST BE TYPED EXACTLY RIGHT



BEAR IN MAKE IT SO THEY NEVER MEET HAVE TO A CUSTOMER OURSELVES. AFTER EVERY TYPO.

WIMP

- □ Windows, Icons, Menus, Pointer
 - Windows & MAC operating systems adopted this early on – mimics 2D desktop space to which many can relate
 - Windows. Frame around a functioning program
 - Icons. Buttons that perform a tasks
 - Menus. Graphic or text similar to icons, but always execute commands, programs or run tasks
 - Pointer. Always on, user-controlled, virtual point on the screen, that allows the user to interact with the GUI

Post-WIMP interfaces

- Touchscreens pointers are disappearing!
- Multitouch inputs allowing for more than one point on the screen to be interacted with at one time



WIMP or multi-touch?





WIMP or multi-touch?



Why do I need to know this as a web mapper?

- Any map you design should be WIMP & post-WIMP compatible
- Multi-platform design mobile phones, tablets,
 desktops various sizes and functionalities

What elements should all effective maps have?

Core interactive map design elements

- Find & design map elements that facilitate your communication goals rather than simply using default map elements
- Not all maps need every map element. Be selective.
- Respect the established rules of map elements in the visual hierarchy.

Lessons learned from Lakeshore Nature Preserve Interactive map

Robert E. Roth & Mark Harrower

- User-centered design
- Usability testing
- Feature Creep
- Screen real-estate
- Information-to-interface ratio
- Map browsing
- Data-ink ratio
- Affordance
- Design map content first, not the interface with mock or made-up data