

Innovation in UX/UI

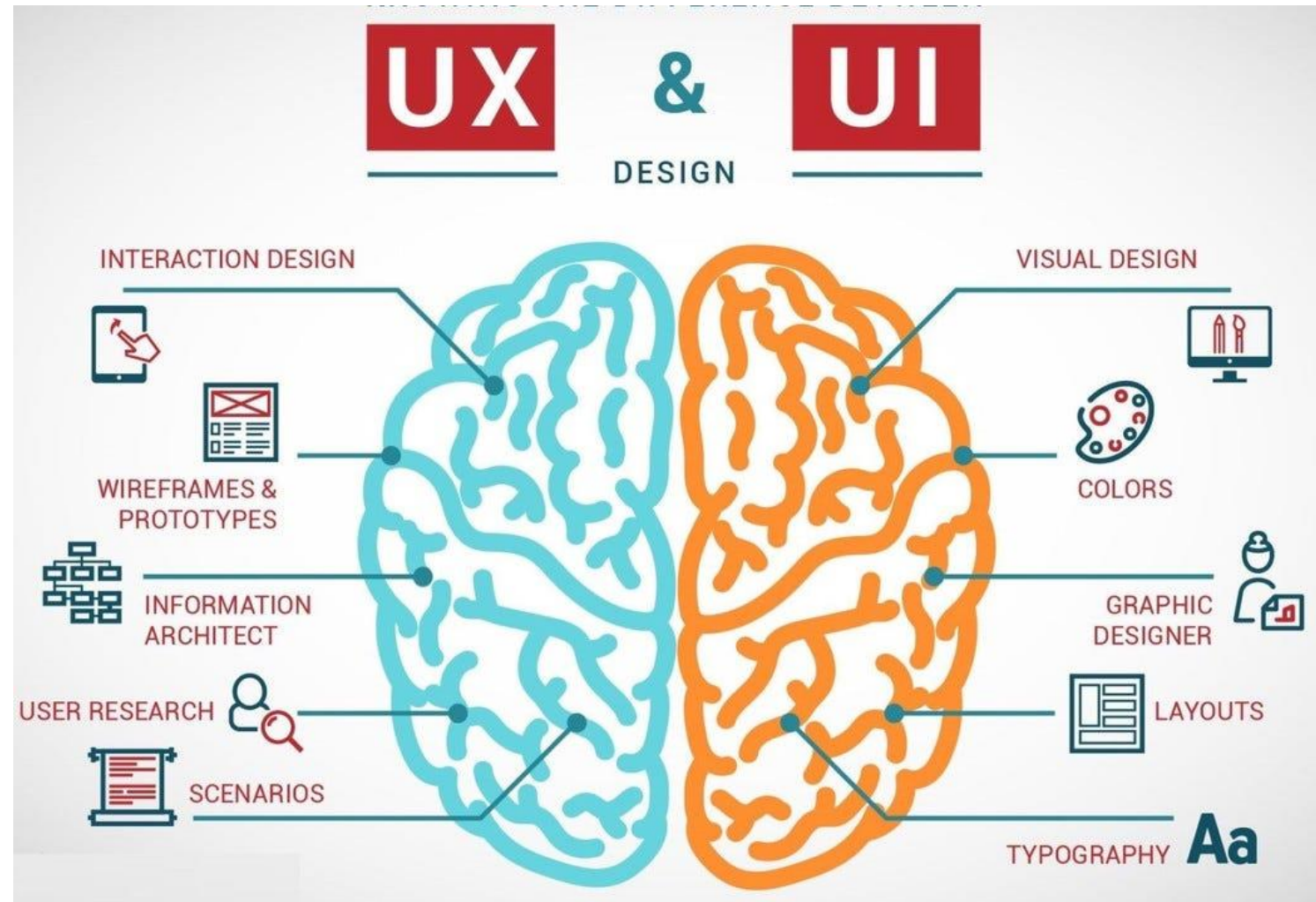
Tech Seminary 2

You ≠ User (UX Slogan #1)

- <https://www.nngroup.com/videos/you-are-not-user-slogan/>

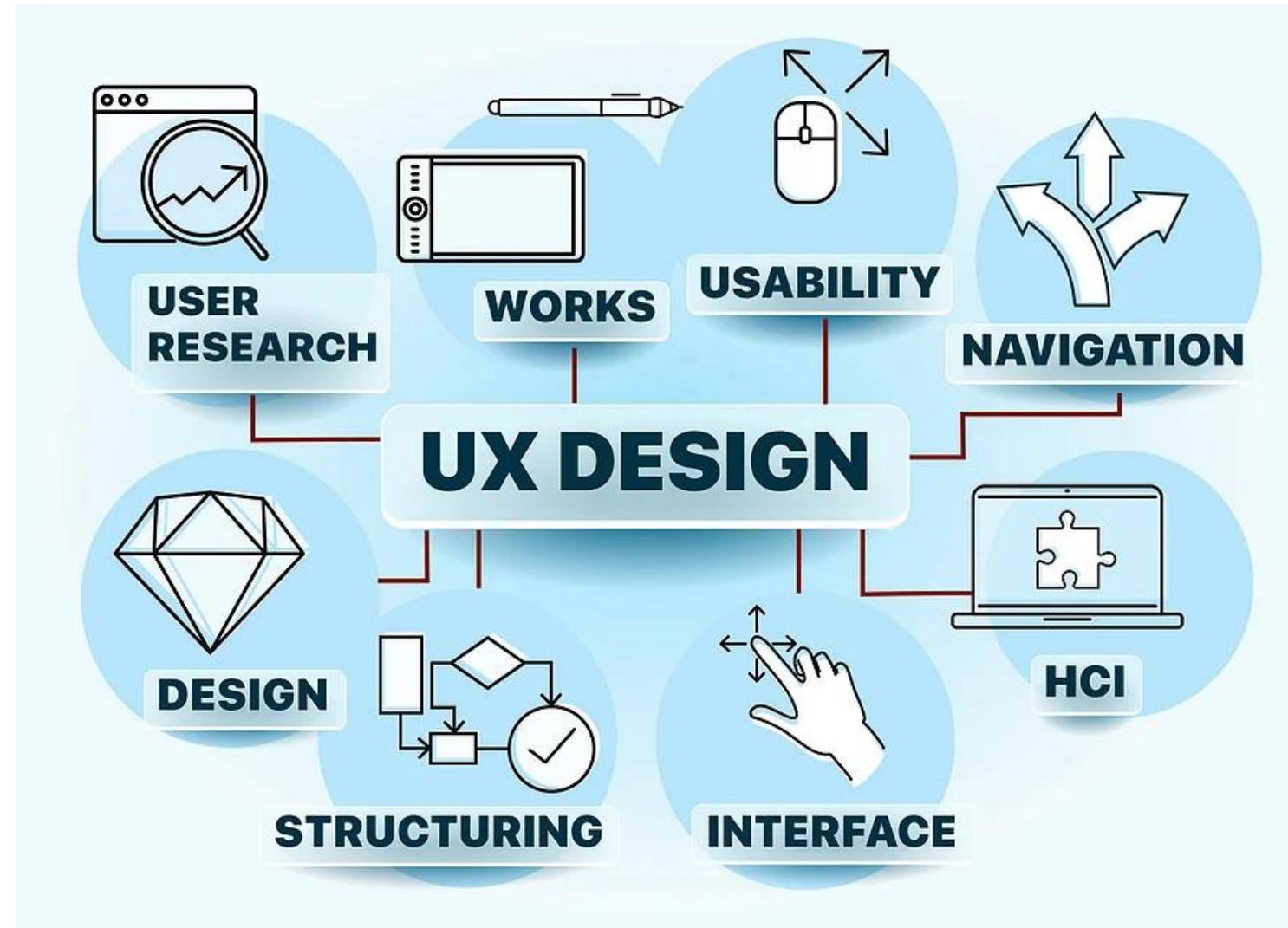
UX vs UI

- UI (user interface design) is a specialized UX (user experience design)
- UX focus: all aspects of the USER's interaction with the company, its services, and its products
- UI focus: visuals interaction



UX

- Task and responsibilities:
 - Strategy and content
 - Wireframing and prototyping
 - Execution and analysis



UX

UX is like a
joke.

If you have to
EXPLAIN IT
it's not good.

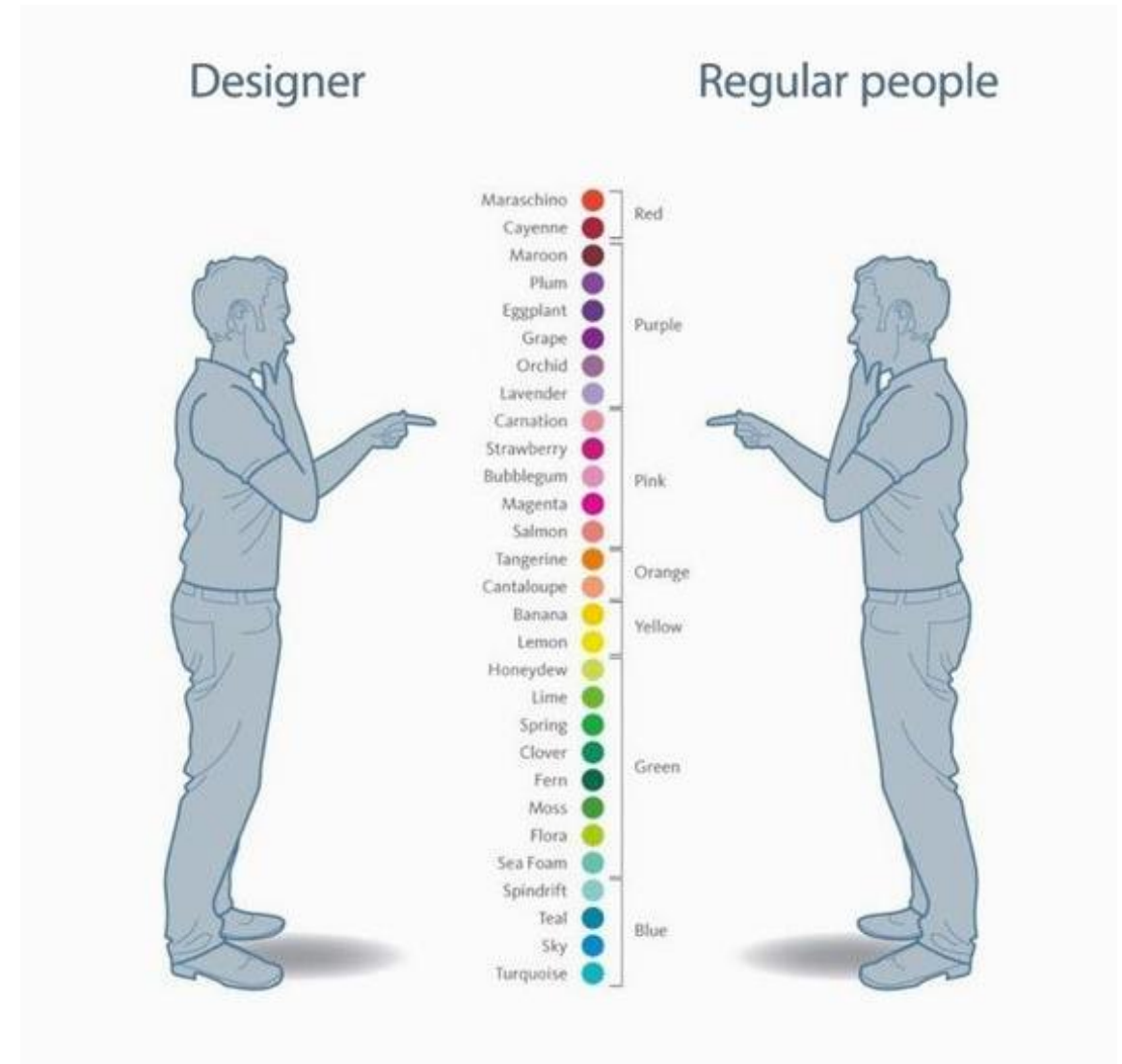
Wix.com

UI

- Task and responsibilities:
 - The look and feel of the product
 - Responsiveness and interactivity



UI



10 Usability Heuristics for User Interface Design



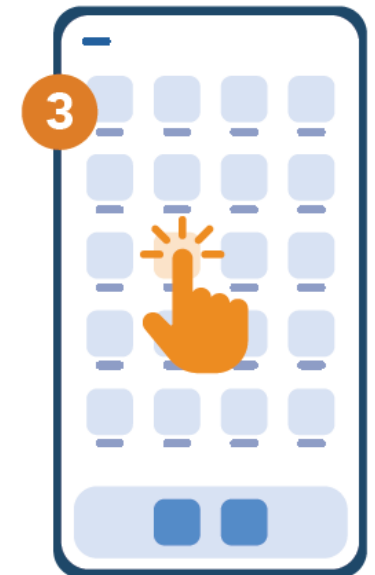
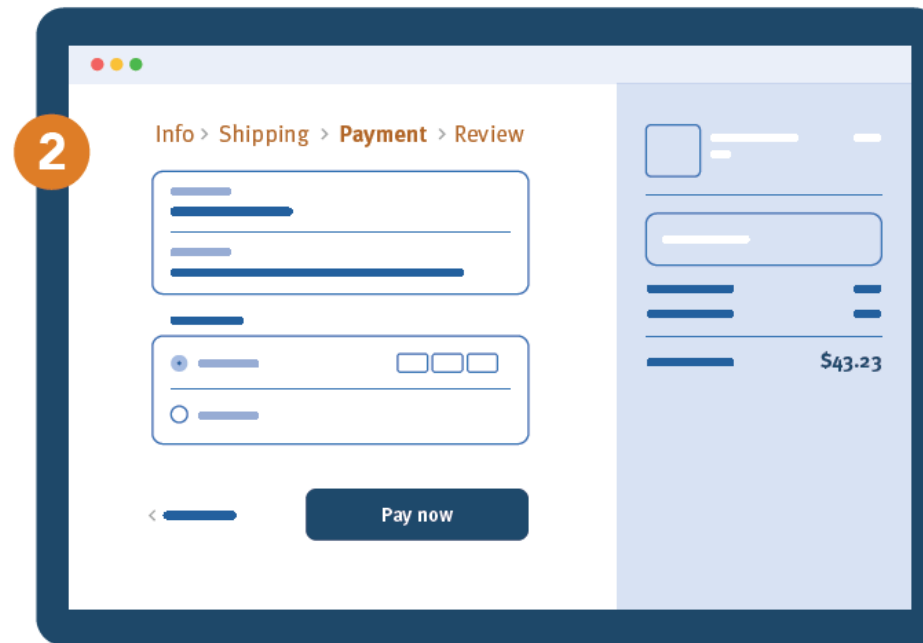
Nielsen Norman Group

Ph.D Donald Norman - former VP of research @ Apple

Ph.D Jakob Nielsen – 79 US patents, making the internet easier to use

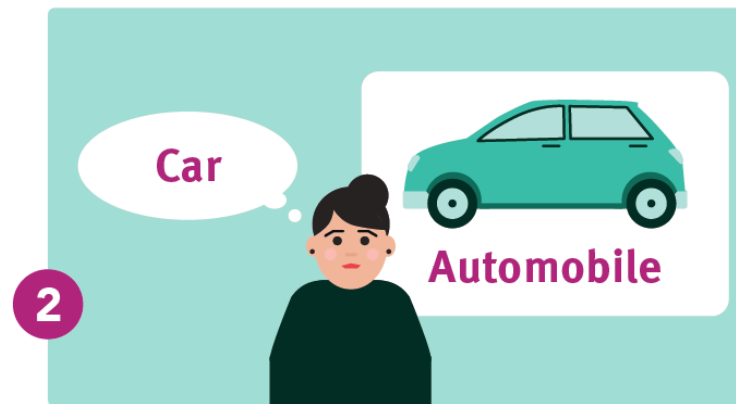
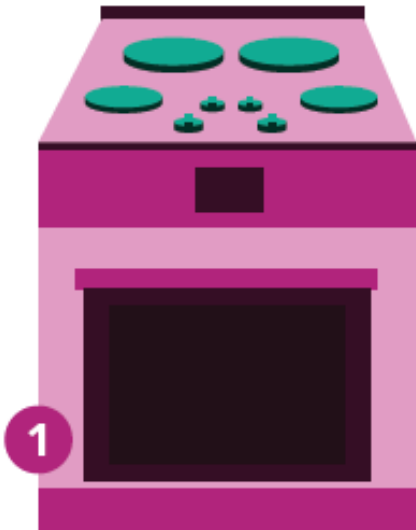
#1: Visibility of system status

- keep users **informed** about what is going on
- appropriate **feedback** within a **reasonable** amount of time
- **predictable** interactions create **trust**



#2: Match between system and the real world

- speak the users' language
- real-world conventions and correspond to desired outcomes (natural mappings)
 - spatial similarity
 - conceptual or metaphorical similarity (up is more, green is go)
 - behavioral similarity ("raise to wake" gesture)



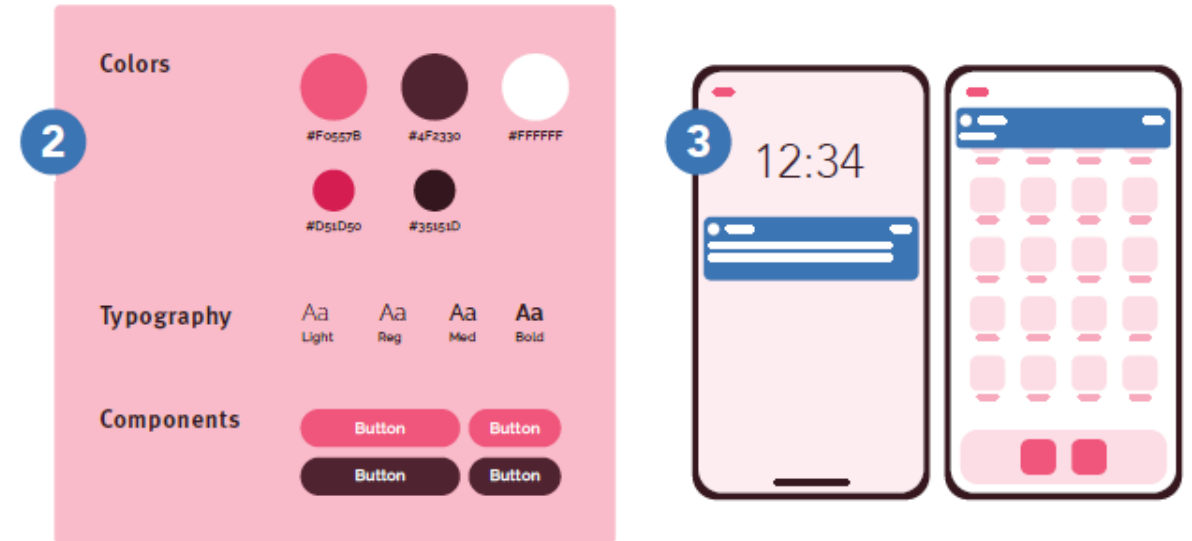
#3: User control and freedom

- Support *Undo* and *Redo*
- Allow Users to Easily Cancel an Action
- Show a clear way to exit the current interaction, like a Cancel Button



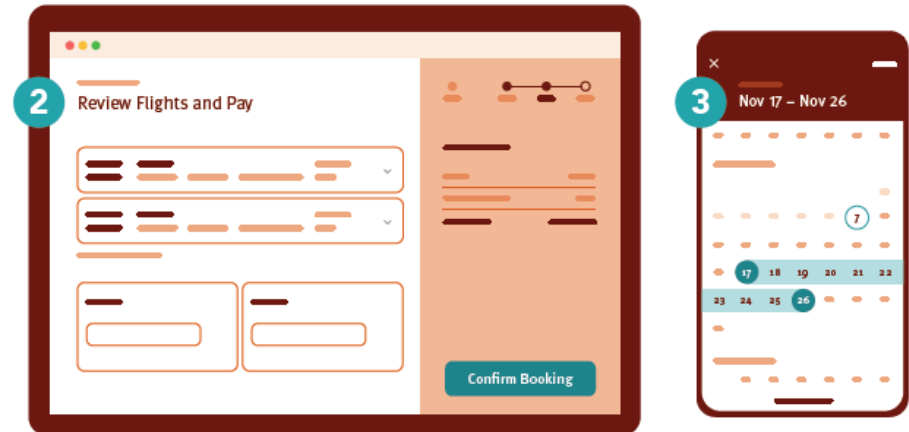
#4: Consistency and standards

- Internal Consistency
 - within a product or a family of products
- External Consistency
 - conventions in an industry
- Layers of consistency:
 - Visual (icons, symbols, imagery)
 - Layout (reuse buttons, headings, navigation)
 - User-Entered Data (dates, phone number, location)
 - Content (e.g. same style on marketing and site)



#5: Error prevention

- Include Helpful Constraints
 - e.g. date picker
- Offer Suggestions
 - e.g. on search
- Choose Good Defaults
 - e.g. location, today date
- Use Forgiving Formatting
 - e.g. phone number

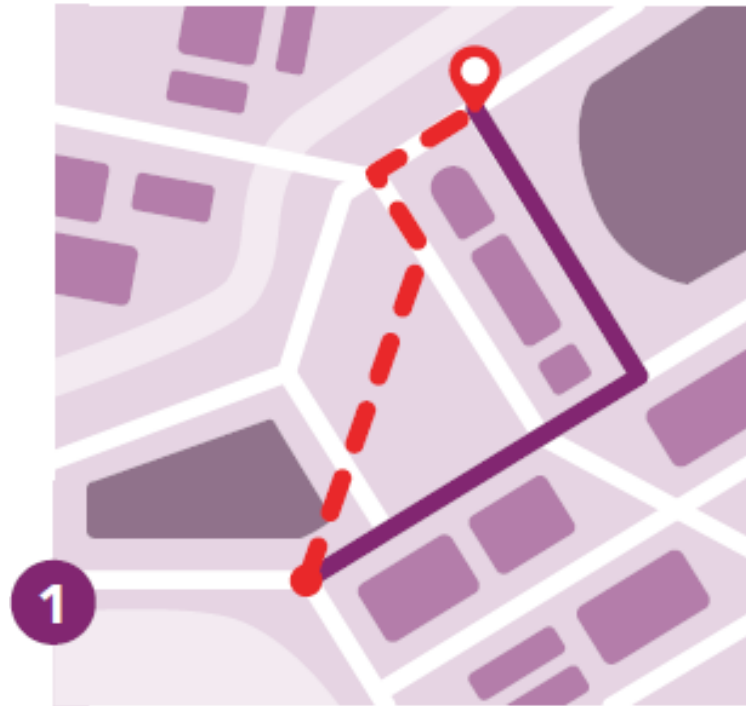


#6: Recognition rather than recall

- Reduce the information that users have to remember.
- Let people **recognize** information in the interface, rather than forcing them to remember (“**recall**”) it.
- Offer help in context, instead of giving users a long tutorial to memorize.



#7: Flexibility and efficiency of use



- **Multiple methods** to accomplish the same task according to one's preferences
- **Accelerators** that don't slow down inexperienced users, but speed up advanced users
 - Keyboard swipe
 - Macros (e.g. excel procedures)
- Enable expert users to **customize** the interface to suit their needs



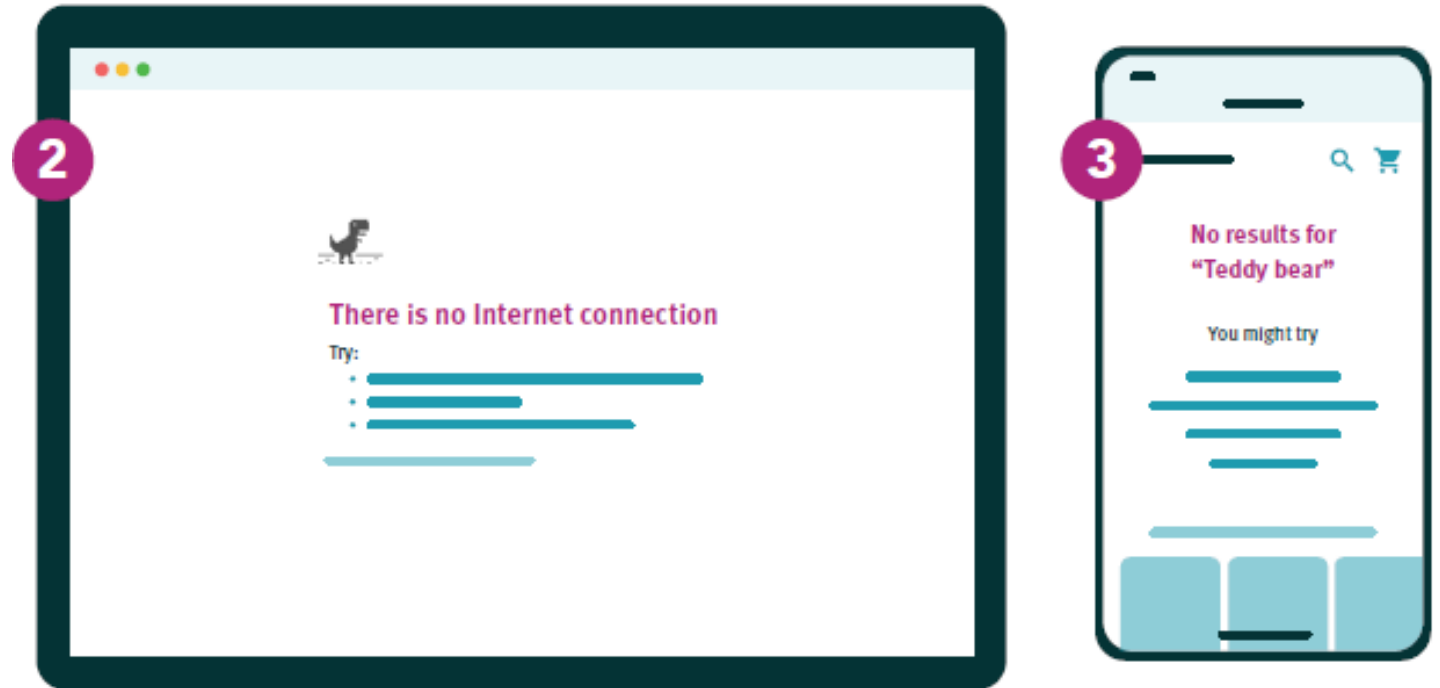
#8: Aesthetic and minimalist design

- Keep the content and visual design of UI focused on the essentials.
- 5 principles for visual communication:
 - **scale**: use relative size to signal importance
 - **visual hierarchy**: color, spacing, placement
 - **balance**: elements distributed on both side of an imaginary axis
 - **contrast**: emphasize the elements are distinct
 - **gestalt principles** tendency to perceive the whole as opposed to the individual: grouping is important



#9: Help users recognize, diagnose, and recover from errors

- Use traditional error-messages visuals, like bold, red text
- Tell users what went wrong in language they understand
- Offer users a solution, like a shortcut that can solve the error immediately.

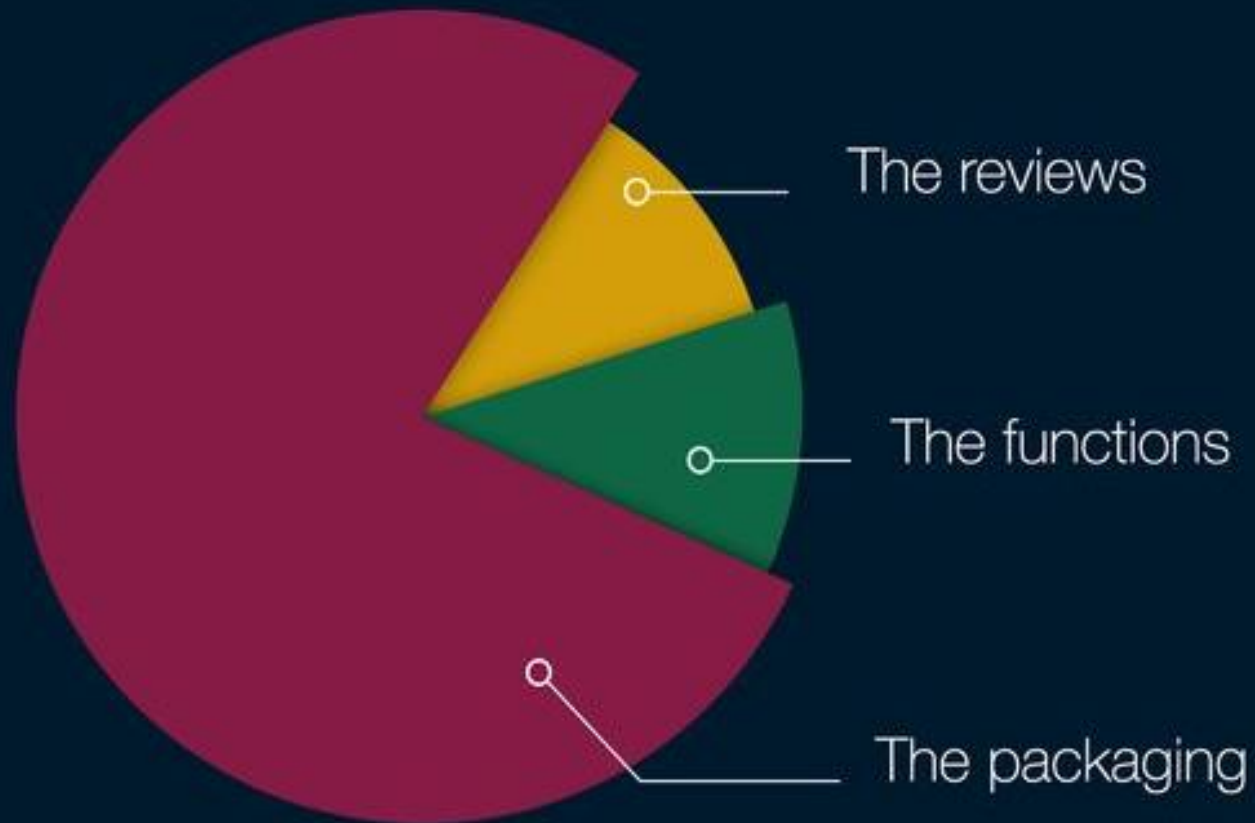


#10: Help and documentation

- Best systems don't require documentation
- Ensure that the help documentation is easy to search
- Whenever possible, present the documentation in context right at the moment that the user requires it.
- Proactive help:
 - tutorials
 - instruction overlays
 - tooltips
 - wizards



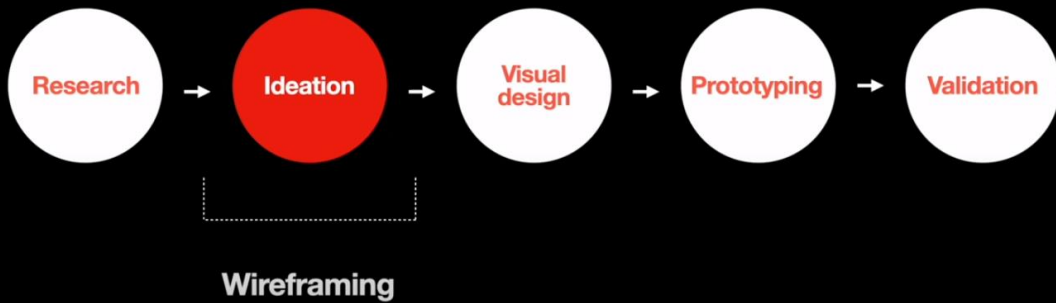
REASONS WHY DESIGNERS BUY PRODUCTS



and maybe all of
us...

Wireframing

When to create wireframes



- Test an idea and get feedback quickly
- Wireframes visualize a user **path** or **flow**, as well as **page layouts**, information **hierarchy**, and even **interactions**.
- Depending on their purpose, they can vary in fidelity — from quick sketches to detailed representations

Wireframing

| questions to ask

- What should user do on this page?
- What information need?
- What should users expect?
- How does this page fil in the flow?



Wireframing | how to?

- <https://www.nngroup.com/articles/draw-wireframe-even-if-you-cant-draw/>
- Template <https://miro.com/templates>
 - iPhone App Template
 - Low fidelity prototype
 - Website Wireframing Template
 - App Wireframe Template

Milestones (week 5,6):

- Wireframing **(7p)**
 - Low fidelity wireframing
- Establish color theme **(2p)**
- Create a logo **(optional)**



References

- <https://www.nngroup.com/articles/ten-usability-heuristics/>
- <https://www.nngroup.com/videos/you-are-not-user-slogan/>
- <https://careerfoundry.com/en/blog/ux-design/the-difference-between-ux-and-ui-design-a-laymans-guide/>
- <https://www.youtube.com/watch?v=1jtQ0uIls94>