M

Design Process

Sep 2nd 2021

Web & Mobile Design - DMA 331

Reading Discussion	

Design Generalists vs Specialists

Personal branding and your story as a generalists tends to more important than that of a specialists as the role of a specialist is more universally clear, but I believe generalists hold more influence in industry in relation to all the stakeholders

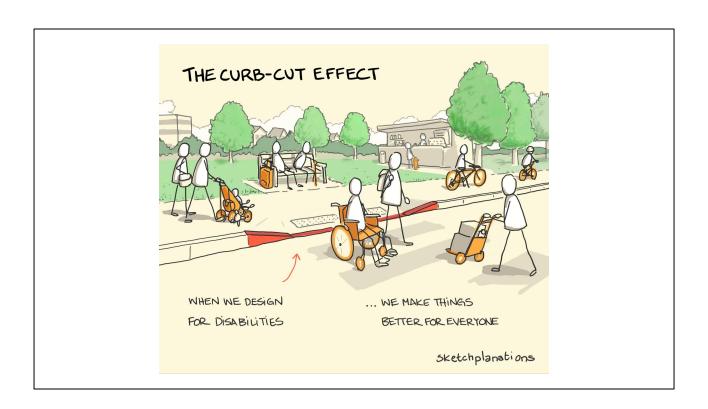
https://airbnb.design/defining-design-generalists/

Designing for Humans

"Human-centric design has definitely progressed in recent years, but it's still common to power on a device and be blasted with notifications, pointless questions, and a barrage of information overload that ultimately makes it more difficult to use."

https://www.theverge.com/2020/9/3/21419630/toaster-human-design-breville-tech-products

This is interesting.. Something we work on on a regular basis... simplifying and getting technology out of the way



Everyone benefits!

https://sketchplanations.com/the-curb-cut-effect

Frictionless Experiences

"Behind the scenes, they capture everything from you. With this data they are able to crunch your preferences..... This invisible experience also flows into your restaurant booking. When you make the reservation the restaurant host will already knows your name. In fact, you can sit anywhere and your food will magically make its way to you!"

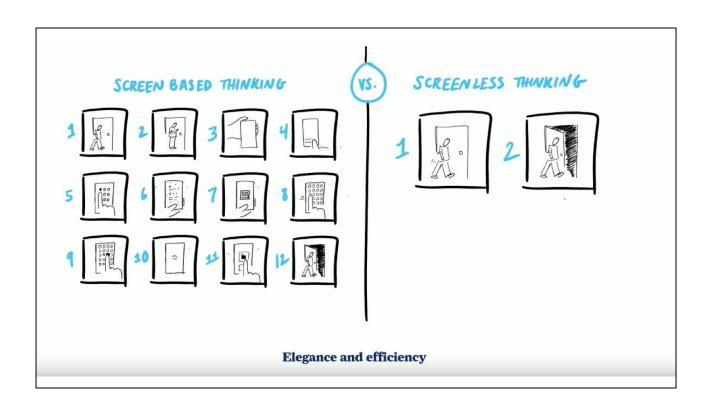


https://medium.com/@mizko/4-invisible-user-experiences-you-d13cc9c3c7ab

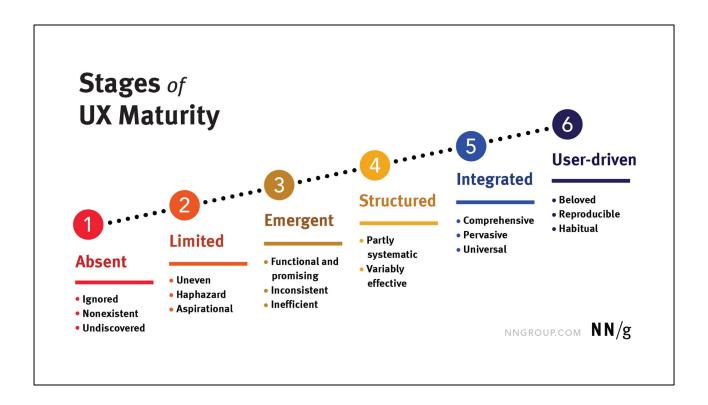
Frictionless / Seamless

Abstracted money out...

Data share and guest tracking in the park



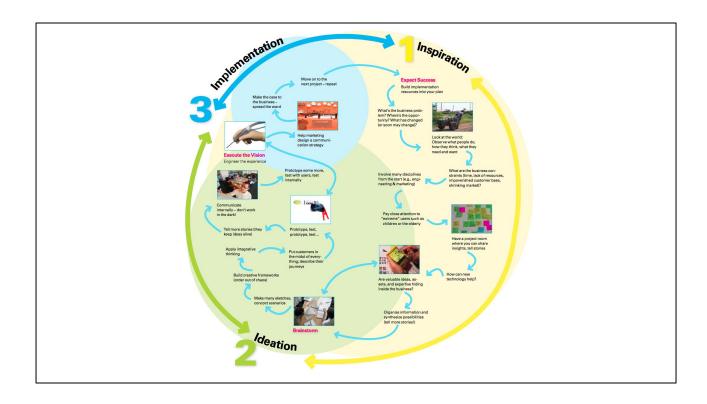
The disney example gets back to this



Stage 1: A company at this stage is either oblivious to UX or believes it does not need it.

Stage 6: UX is the **norm** — **habitual**, **reproducible**, **and beloved** across the organization. Few companies operate at this stage.

Design Process	



Design Thinking Framework



INSPIRATION

In this phase, you'll learn how to better understand people. You'll observe their lives, hear their hopes and desires, and get smart on your challenge.



IDEATION

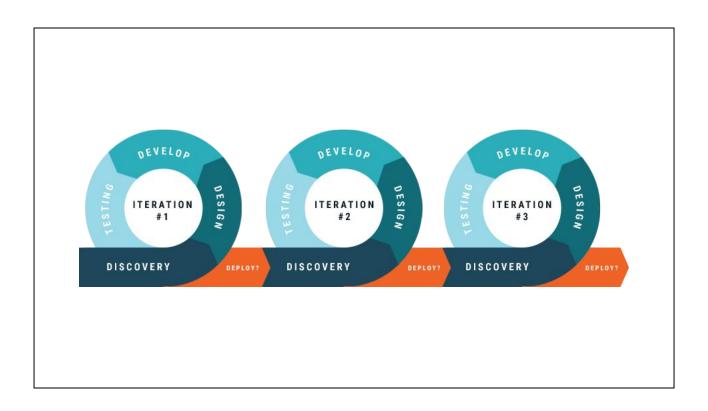
Here you'll make sense of everything that you've heard, generate tons of ideas, identify opportunities for design, and test and refine your solutions.



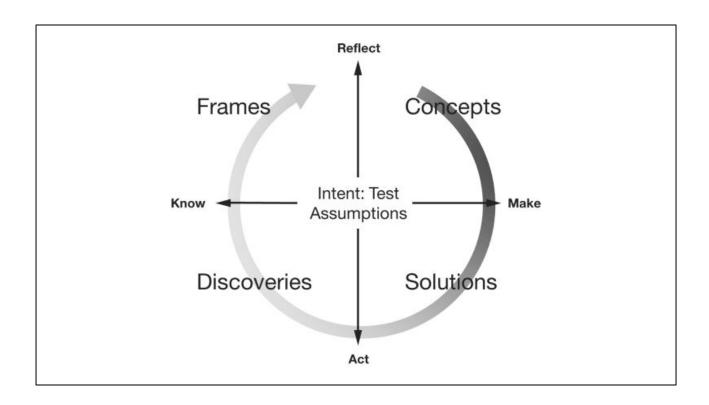
IMPLEMENTATION

Now is your chance to bring your solution to life. You'll figure out how to get your idea to market and how to maximize its impact in the world.

Human-Centered Design https://www.designkit.org

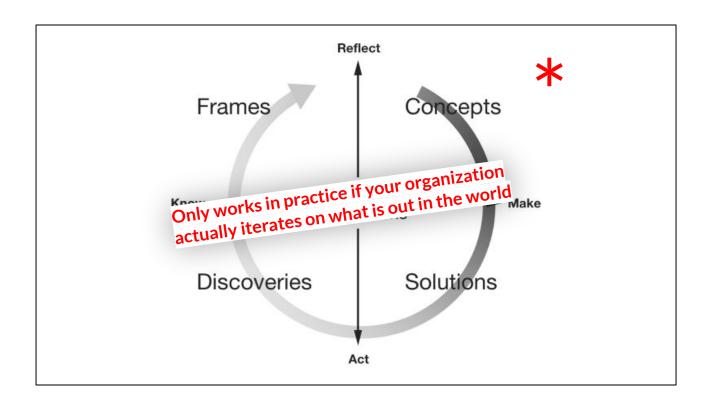


Agile



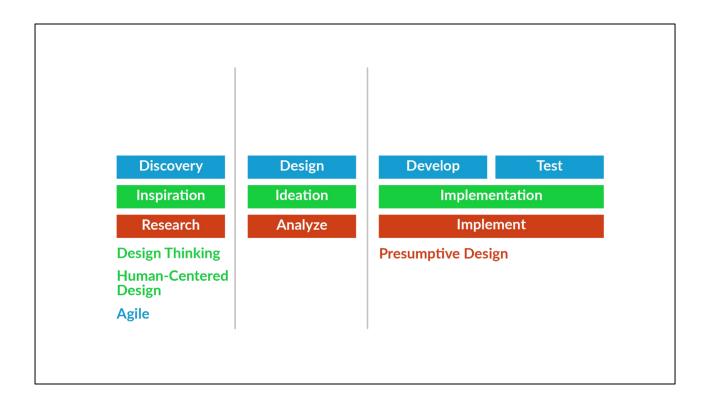
Presumptive Design - Sounds cool, but

https://www.presumptivedesign.com



Presumptive Design - Sounds cool, but big asterisks really only works if your organization will used to and willing to iterate.. Otherwise you just have a poorly designed application out in the world

https://www.presumptivedesign.com



Overview... we are generally following Human-Centered Design approach as implementation is not the focus for this course

Largely these all follow the same steps

Inspiration

Frame the Challenge

Interview

Analogous Inspiration

Card Sort

Immersion

Pulled from the HCD field guide.....

Analogous Inspiration



To get a fresh perspective on your research, shift your focus to a new context.

IDEO.org teams are often led by their intuition to take creative leaps. It may feel silly to visit an Apple store when you're designing for those living in difficult circumstances, but you may unlock the key to a memorable customer experience or a compelling way to arrange products. Analogous settings can help you isolate elements of an experience, interaction, or product, and then apply them to whatever design challenge you're working on. Besides, getting out from behind your desk and into a new situation is always a great way to spur creative thinking.

This is one of my favorites... I use this everyday and most folks forget about leveraging other industries

Ideation

Find Themes Create a Concept

Create Insight Statements Gut Check

Explore Your Hunch Get Feedback

How Might We Get Visual

Create Frameworks

Brainstorm

Explore Your Hunch



A huge part of human-centered design is following your nose. If you've got a feeling about something, give yourself a chance to explore it.

Human-centered design is an inherently intuitive process. And though a lot of the methodology is about arriving at new ideas you'd never dreamed of, you should always feel like you have the space to Explore Your Hunch. It could be an idea you had before the project started, or one that cropped up as you've been working. Either way, there are lots of ways to test your hunch, and you're destined to learn something when you do.

This is a great one too

Lets you go down the path of intuition.. And sometimes those ideas are naturally just the right ones!

Implementation

Live Prototyping

Pilot

Monitor and Evaluate

Keep Iterating

Keep Getting Feedback

Monitor and Evaluate

1 ____ 2 ___ 3 ___ 4 ___ 5 ___



Your goal has always been to have big impact. Design the ways that you'll measure and grow it into your solution.

Throughout the design process you've constantly been learning, evaluating, and improving your solution. And now that you're on the verge of getting it out into the world you'll need a plan to find out if you're having the impact that you want. There are lots of ways to run a Monitoring and Evaluation (M&E) assessment, the key is to understand what kind is right for you. Sometimes it's easy, either your solution makes money or it doesn't. But if you're trying to change a community's behavior or increase the adoption of a service, you may need a more nuanced approach.

This one can be pretty hard to do sometimes but can add a ton of value... things like user analytics can help but not the be all end all

Usability Heuristics	

1: Visibility of System Status

The design should always keep users informed about what is going on, through appropriate feedback within a reasonable amount of time.







1 "You Are Here" maps

Interactive mall maps have to show people where they currently are, to help them understand where to go next.

2 Checkout flow

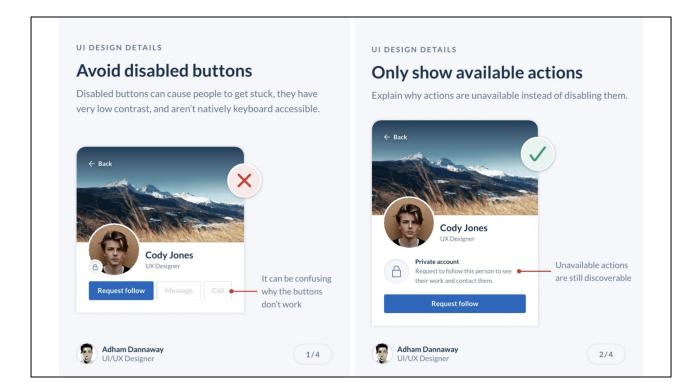
Multistep processes show users which steps they've completed, they're currently working on, and what comes next.

3 Phone tap

Touchscreen UIs need to reassure users that their taps have an effect — often through visual change or haptic feedback.

https://www.nngroup.com/articles/visibility-system-status/

Relates to the idea of direct manipulation... thinking about Light dimmer switch



2: Match between System and Real World

The design should speak the users' language. Use words, phrases, and concepts familiar to the user, rather than internal jargon. Follow real-world conventions, making information appear in a natural and logical order.







1 Stovetop controls

When stovetop controls match the layout of heating elements, users can quickly understand which control maps to each heating element.

2 "Car" vs. "automobile" If users think about this object as a

"car," use that as the label instead.

3 Shopping cart icon

A shopping cart icon is easily recognizable because that feature serves the same purpose as its real-life counterpart.

https://www.nngroup.com/articles/match-system-real-world/

3: User Control and Freedom

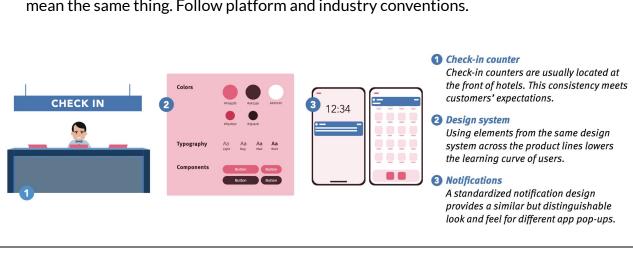
Users often perform actions by mistake. They need a clearly marked "emergency exit" to leave the unwanted action without having to go through an extended process.



https://www.nngroup.com/articles/user-control-and-freedom/

4: Consistency and Standards

Users should not have to wonder whether different words, situations, or actions mean the same thing. Follow platform and industry conventions.



https://www.nngroup.com/articles/consistency-and-standards/

5: Error Prevention

Good error messages are important, but the best designs carefully prevent problems from occuring in the first place. Either eliminate error-prone conditions, or check for them and present users with a confirmation option before they commit to the action.





- Guard rails
 Guard rails on curvy mountain roads
 prevent drivers from falling off of cliffs.
- 2 Airline confirmation The confirmation page before checking out on airline websites gives users another chance to review the flight details.
- 3 Date selection on calendar
 Offer good defaults and set boundaries
 when people book services by dates.
 Grey out unavailable options.

https://www.nngroup.com/articles/slips/

6: Recognition rather than Recall

Minimize the user's memory load by making elements, actions, and options visible. The user should not have to remember information from one part of the interface to another. Information required to use the design should be visible or easily retrievable when needed.







1 Lisbon

People are more likely to correctly answer the question "Is Lisbon the capital of Portugal?" rather than "What's the capital of Portugal?"

2 Comparison table

Comparison tables list key differences so that users don't need to remember them to make comparisons.

Search

Search queries are presented together with the results as a reference.

https://www.nngroup.com/articles/recognition-and-recall/

7: Flexibility and Efficiency of User

Shortcuts — hidden from novice users — may speed up the interaction for the expert user such that the design can cater to both inexperienced and experienced users. Allow users to tailor frequent actions.



https://www.nngroup.com/articles/flexibility-efficiency-heuristic/

8: Aesthetic and Minimalist Design

Interfaces should not contain information which is irrelevant or rarely needed. Every extra unit of information in an interface competes with the relevant units of information and diminishes their relative visibility.



- Ornate vs. simple teapot
 Excessive decorative elements can
 interfere with usability.
- 2 Communicate, don't decorate
 Over-decoration can cause distraction
 and make it harder for people to get the
 core information they need.
- 3 Messy vs organized UI
 Messy UI increases the interaction cost
 for users to find their desired content;
 Organized UI lowers the cost.

https://www.nngroup.com/articles/aesthetic-minimalist-design/

9: Help Users Recognize, Diagnose, and Recover from Errors

Error messages should be expressed in plain language (no error codes), precisely indicate the problem, and constructively suggest a solution.







Wrong way sign

Wrong-way signs on the road remind drivers that they are heading in the wrong direction and ask them to stop.

2 Internet connection error

Good internet connection error pages show what happened and constructively instruct users on how to fix the problem.

No search results

Provide useful help when people encounter search-result pages returning zero results, such as popular topics.

https://www.nngroup.com/videos/usability-heuristic-recognize-errors/

10: Help and Documentation

It's best if the design doesn't need any additional explanation. However, it may be necessary to provide documentation to help users understand how to complete their tasks.



- Airport information center
 Information kiosks at airports are easily recognizable and solve customers' problems in context and immediately.
- 2 Frequently asked questions Good frequently-asked-question pages anticipate and provide the helpful information that users might need.
- 3 Information icon Information icons reveal tooltips to explain jargon when users touch or hover over them, which provides contextual help.

https://www.nngroup.com/articles/help-and-documentation/

State your Assumptions

Helps make sure you are on the right track. Lines up your understanding with your users and the folks you are designing for

UX Audit

Assignment Review

Assignment due next week and the readings https://dma331.rehanbutt.com/assignments/ux-audit