WASHINGTON STATE BOARD FOR COMMUNITY AND TECHNICAL COLLEGES

Using human-centered design to create usable websites



Introductions



Camy Naasz DIRECTOR OF HUMAN-CENTERED DESIGN



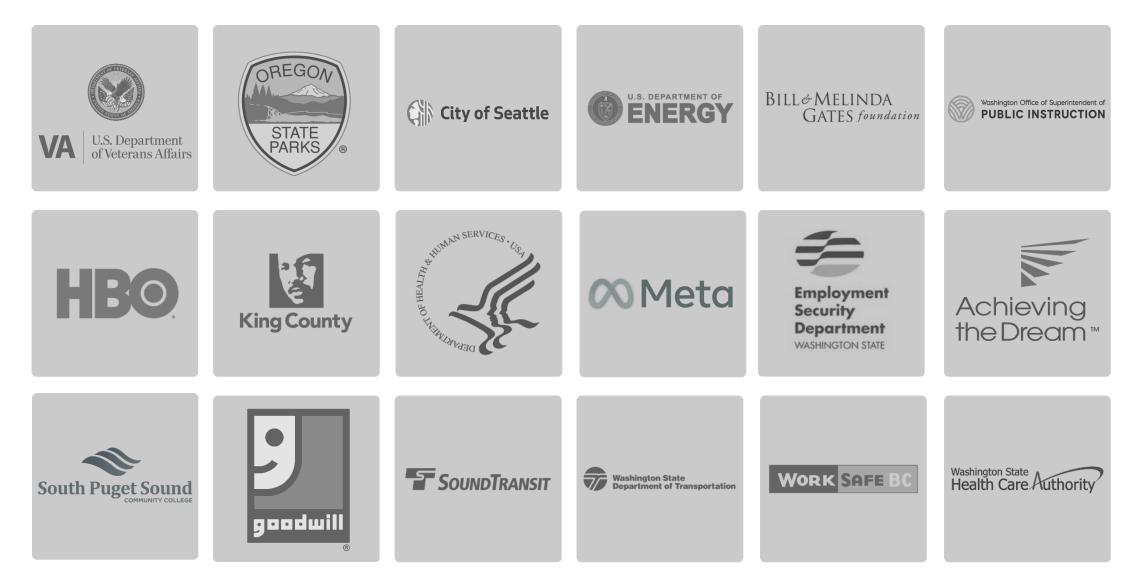
Nikki Gagliardo SENIOR USER EXPERIENCE DESIGNER

NTRODUCTIONS

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We're a human-centered design consultancy focused on government agencies, nonprofits, and enterprises with a social-impact mission.

Clients



Services





User interface & interaction design



Training & mentoring



Information architecture & content strategy



Digital accessibility



Strategy & change management

What is Human-Centered Design (HCD)?

An approach to designing products, services and systems that prioritizes the needs, behaviors, and experiences of the people who use them

HCD aims to make solutions more usable

- A solution is usable if the intended audience can:
 - Quickly understand what they can and want to do with it
 - Successfully complete their task in the time and effort that they think it is worth
 - Know if there is something they want to do next
- Usable solutions can provide several benefits:
 - improved productivity
 - enhanced user well-being, avoidance of stress
 - increased accessibility, reduced risk of harm

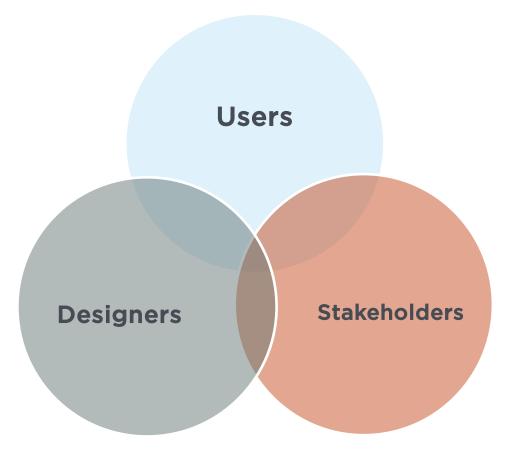


The 5 Dimensions of a Usable Website From the work of Whitney Quesenbery

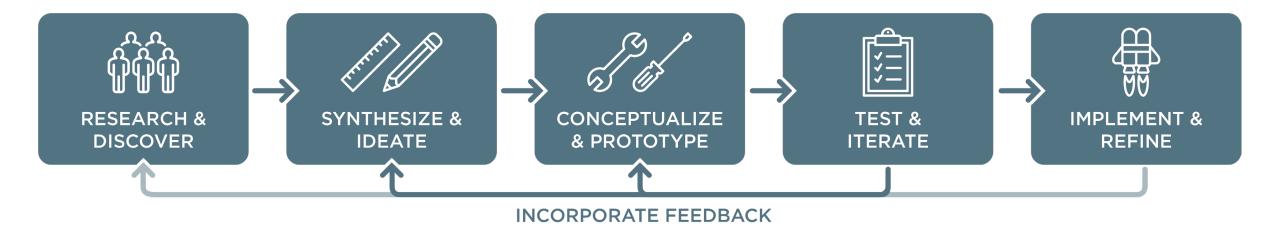
WQUsability.COM

Who is involved in HCD?

- Users interacting through the system, those who are experiencing the problem you are working to solve
 - Front end and/or back end users
- Designers planning, creating, or altering the experience
 - Product and project teams
 - Business owners and partners
- Stakeholders have the power to affect or are affected by the design
 - the ones supporting the system that aren't involved in design

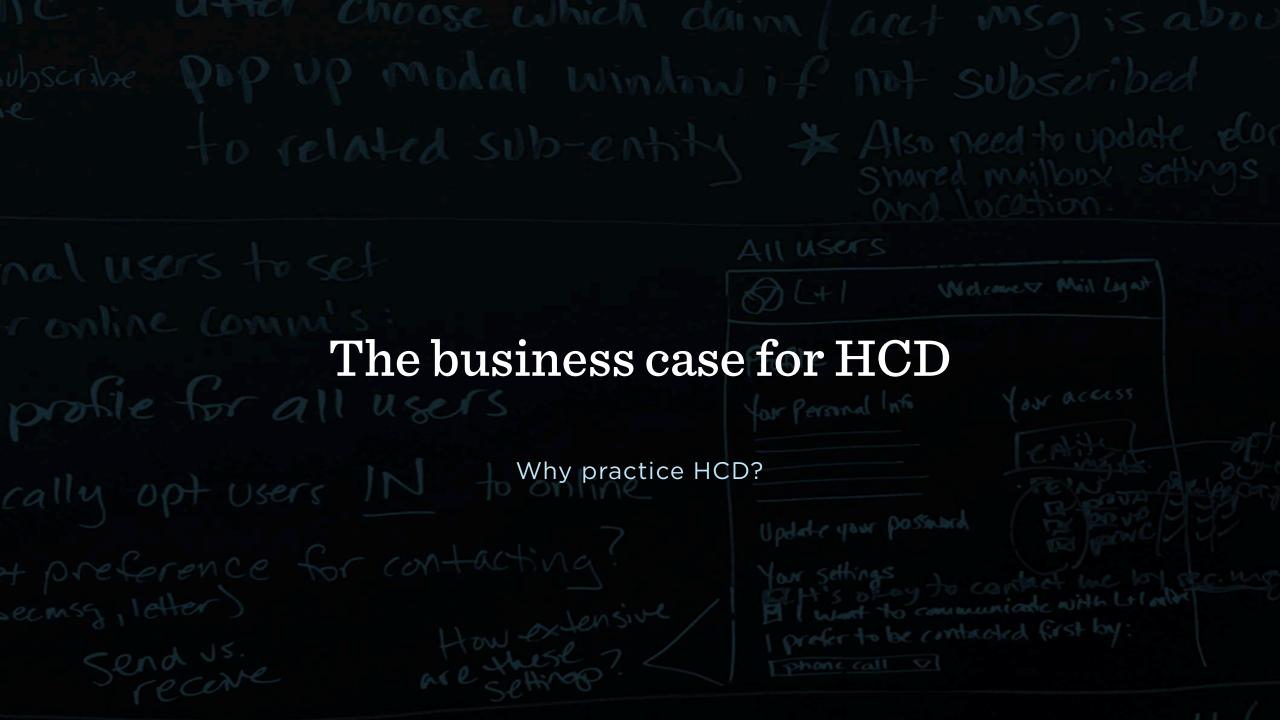


The HCD Process



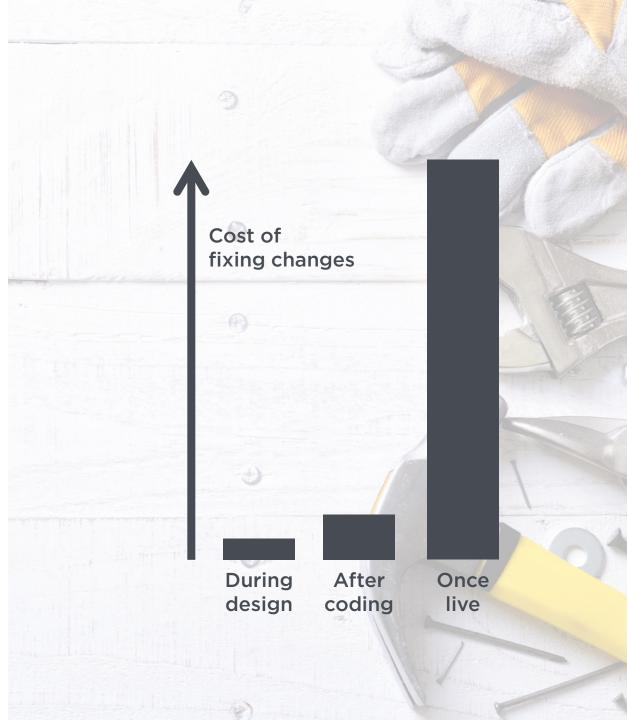
Principles of HCD

- **O** Understand end users
- **O** Consider entire experience
- **Description Engage with users throughout**
- ③ Test and revise solutions
- **Iterate frequently**
- **O Collaborate across disciplines**



Why use HCD?

- ③ HCD saves time, effort and money!
 - Less rework during development
 - Improved productivity
 - Fewer phone calls
 - Less training and documentation



The benefits of a usable website

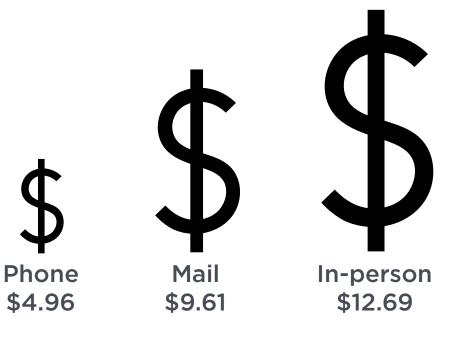
O Customers expect effective online service delivery

- 81% of customers try to solve issues themselves before contacting a representative
- Online is customers' preference, more convenient, and the most accessible option

Online

\$.30

- People want to minimize their interaction cost
- For the business, an online (self-service) transaction costs roughly 42.3 times less than an in-person transaction



Consequences of a poor experience

- **>** Visitors:
 - Get frustrated
 - Make mistakes
 - Waste time
 - Abandon the website
 - Use the phone instead
 - Say they won't return
 - Have a bad impression of the organization

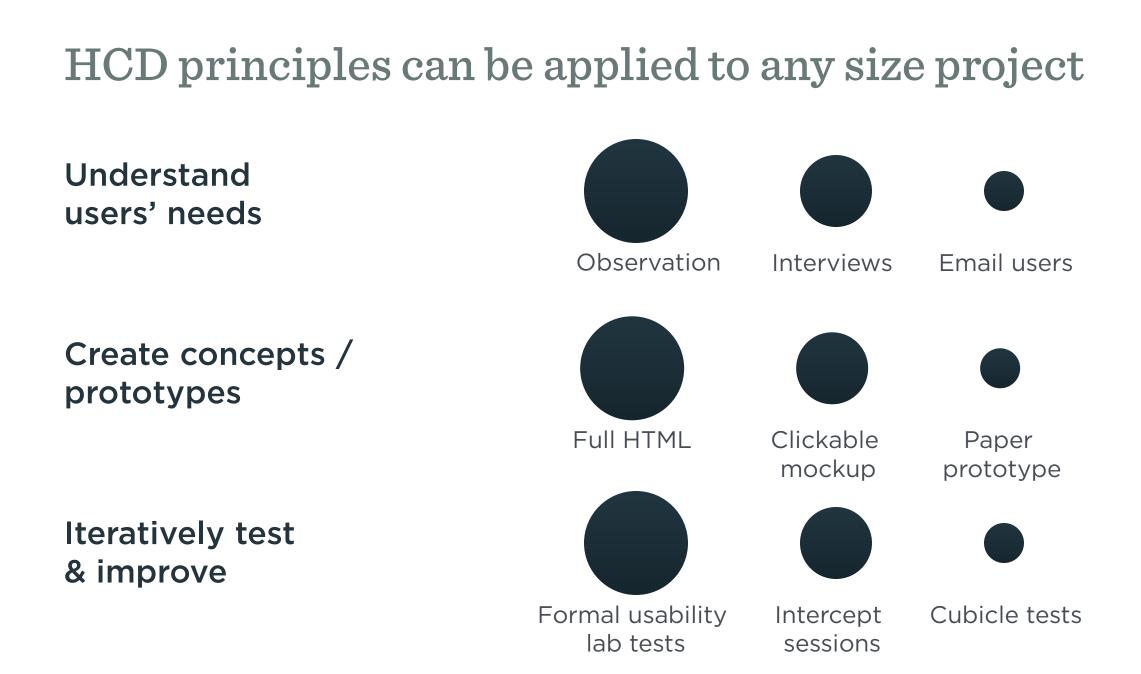
"This doesn't even look related to what I'm looking for. I'm going to give up."

> "I'm going to call. I'm wasting my time."

What can we use HCD to do?

- **Bring order to competing priorities**
- Identify gaps in processes and systems that aren't meeting users' needs
- Find out early that you've made a mistake, or the idea isn't going to work
- Explore new ideas in a cheap way, prove an idea will work and is worth development





How can you be more human-centered?

Send US. receive Learn about your users (and their needs!)

Use existing data, surveys, and conversations to understand who is using the website

- What are their needs and goals?
- **•** How do they think and talk about the information on your website?
- **O** How are user groups different?
 - Students
 - Faculty and staff
 - Prospective students/parents and high school counselors
 - Community members

Look at existing data

- ③ What are analytics telling you about the most visited pages or top search terms?
- **•** Has your college done any surveys with your user groups?
- ③ What types of phone calls, emails, or social media messages are departments receiving? Can you start to track common questions or question themes?
- **>> Validate observations by triangulating data**

How to understand what users need

- ③ Ask them!
 - Use real users
 - YOU are not your user
- Observe how people complete tasks
 - Don't ask them what they want
- Consider how their environment affects their experience
 - Technical, physical, mental, social, cultural

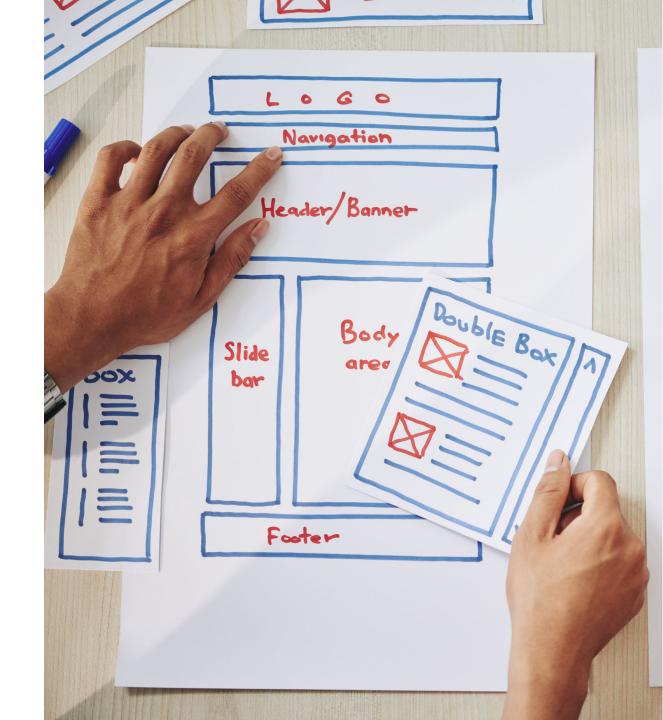
"The most obvious approach– to find the actual user and ask him– doesn't work for a number of reasons, but the main one is that merely being the victim of a particular problem doesn't automatically bestow on one the power to see its solution. The actual user is still a valuable resource, and we devote considerable attention to him or her, but we never let the user directly affect the solution."

- The Inmates Are Running the Asylum: Why High-Tech Products Drive Us Crazy and How to Restore the Sanity, Alan Cooper, 2004

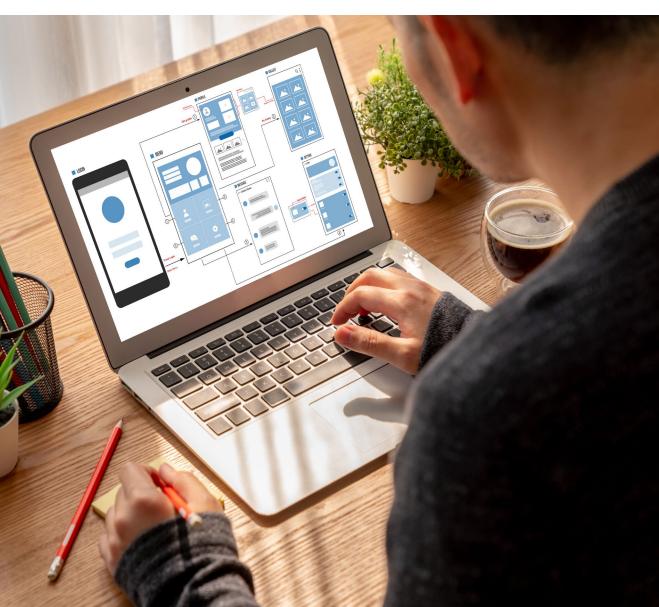
Test before you build!

Use prototypes, but don't overthink it!

- Use simplified, incomplete models of the design
- ③ Explore many ideas
- Elaborate requirements, refine specifications
- ③ Test functionality



Prototype examples





Take baby steps

Start with quick wins

- ③ Quick wins are low effort, high impact changes to solve demonstrated issues
- **O** Identify how you'll measure impact
 - What KPI's do you anticipate the change will impact? (Revenue, site visitors, mobile users, customer satisfaction, reduction in help desk calls, etc.)

Observe and monitor

- How did the changes affect users' ability to complete tasks?
- What is still an issue? Are there any new issues?
- How have your KPI's been impacted?
- ③ Revisit priorities!

HCD Resources

HCD Resources

Organizations to check out

- S <u>Luma Institute</u>
- Neilsen Norman Group
- W3.org
 W3.
- ⊙ <u>18F</u>
- **Interaction Design Foundation**
- Digital.gov/usability

Tools to use today!

- Solution State State
- Hemingway Editor to check readability
- ③ Google Analytics to monitor trends
- ③ BrowserStack to see how it looks on different devices and browsers
- Solor blind simulator

ubscribe Pop up modal window if not subscribed to related sub-entity * Also need to update elon snared mailbox settings and location.

5 common (perceived) barriers to a usable website

AND TACKLING THEM USING HCD

Update your possioned

preference for contacting!

Our business is too complex and complicated to have a website that works for everyone.

HCD tames complexity

- Includes the perspectives of diverse audiences and stakeholders in an intentional and data-driven way
 - Highlights the things that make user groups and tasks different so you can account for them in the design
- Second Second
 - Necessary to get the right data and the right experience
- ③ Reduces risk and uncertainty when there are high stakes or no proven design patterns to start with
 - When the cost of making an error is high

We don't have the resources to do user research.

Start small to gain buy-in

• You probably already have data to start with!

- Google analytics
- Social media posts and inquiries
- Contact form submissions
- Help desk phone calls or emails
- Show how using real data can improve the quality of products and efficiency of decision making
- **Describe your users so everyone has a shared understanding**
 - Likely a siloed organization serving the same users
 - Few people in the organization have visibility across the entire organization, so can't really understand the users' perspective

A VIP wants their content on the home page of your website, but so does everyone else!

Validate (or decline) the request with data

- ③ What user need does this solve? What task will it help them complete?
 - Provide analytics on how people are accessing this information currently
 - Ask for data showing that this content is in-demand by users and should be prioritized over the content currently on the homepage
- If the homepage tries to meet everyone's needs, it will end up meeting no one's needs

Our website is not compliant/accessible.

What does it mean to be compliant/accessible?

- Title II of the Americans with Disabilities Act was updated April 24, 2024 to include specific requirements for web content and mobile apps
- WCAG 2.1 Level AA is now the technical standard for state and local governments
 - Includes public schools, community colleges, and public universities
 - WCAG = Web Content Accessibility Guidelines
- **>> Have 2 years to comply with the new rule**
- Technical standards won't guarantee full accessibility

PRESS RELEASE

Justice Department to Publish Final Rule to Strengthen Web and Mobile App Access for People with Disabilities



Compliance won't happen overnight

- Make sure you have clear contact information on your website for someone who needs information in an alternative format
- **Output** Second to help prioritize what to fix first
- **O Create a roadmap to tackle the rest**
- ③ Test your site with users with disabilities to SHOW decision makers where you have opportunities for improvement

Can't we just copy that other school's website?

Is that what you really want?

- HCD helps you figure out what to prioritize based on your users and your business goals
- Priorities differ across organizations; what will you optimize your experience for?

Sour users are unique!

- If you copy someone else's site, you may miss the mark on serving your unique audiences and business
- ③ Leverage best practices for usability and accessibility

In Summary for Personal Info Your access profile for all users

t preference for contacting? ecmss, letter)

Top takeaways from today!

- **> Prioritize user needs**
- **Start small**
- **③** Talk to your users
- **③** Explore new solutions, be innovative!
- **O** Test before you build
- **O Use what you learn**
- Do it again

Questions? Your personal Into Your access ASK AN HCD COACH!



Satellite images

Thank You

anthrotech

Contactus

Camy Naasz USER-CENTERED DESIGN CONSULTANT CAMYNAASZ@ANTHRO-TECH.COM

Nikki Gagliardo USER EXPERIENCE DESIGNER NIKKIGAGLIARDO@ANTHRO-TECH.COM

anthrotech

ANTHRO-TECH.COM • (360) 584-9151