WASHINGTON STATE BOARD FOR COMMUNITY AND TECHNICAL COLLEGES

# Using human-centered design to create usable websites



#### Introductions



#### Camy Naasz DIRECTOR OF HUMAN-CENTERED DESIGN



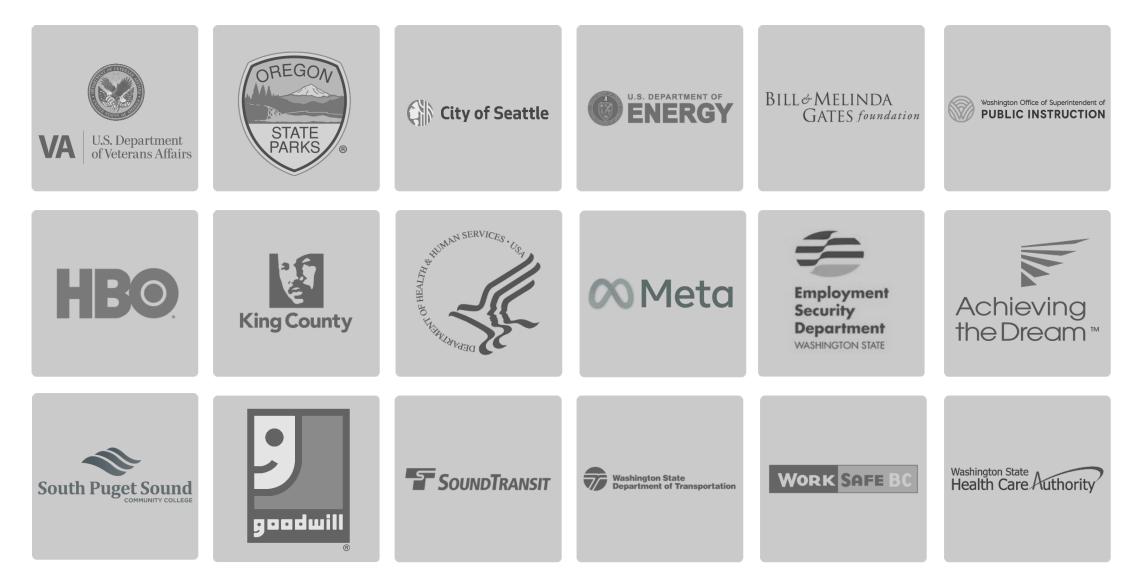
#### Nikki Gagliardo SENIOR USER EXPERIENCE DESIGNER

#### 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

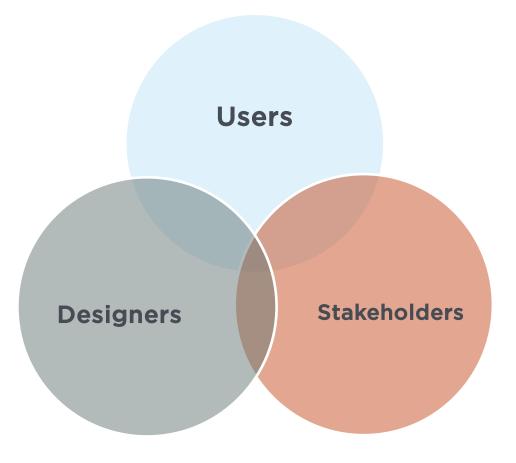


**The 5 Dimensions of a Usable Website** From the work of Whitney Quesenbery

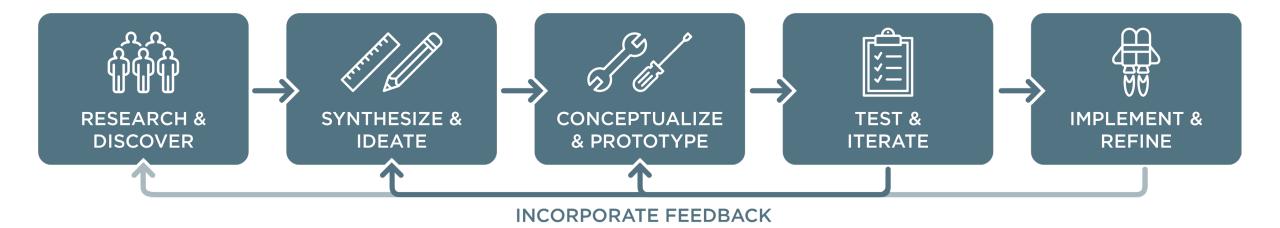
WQUsability.COM

#### 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

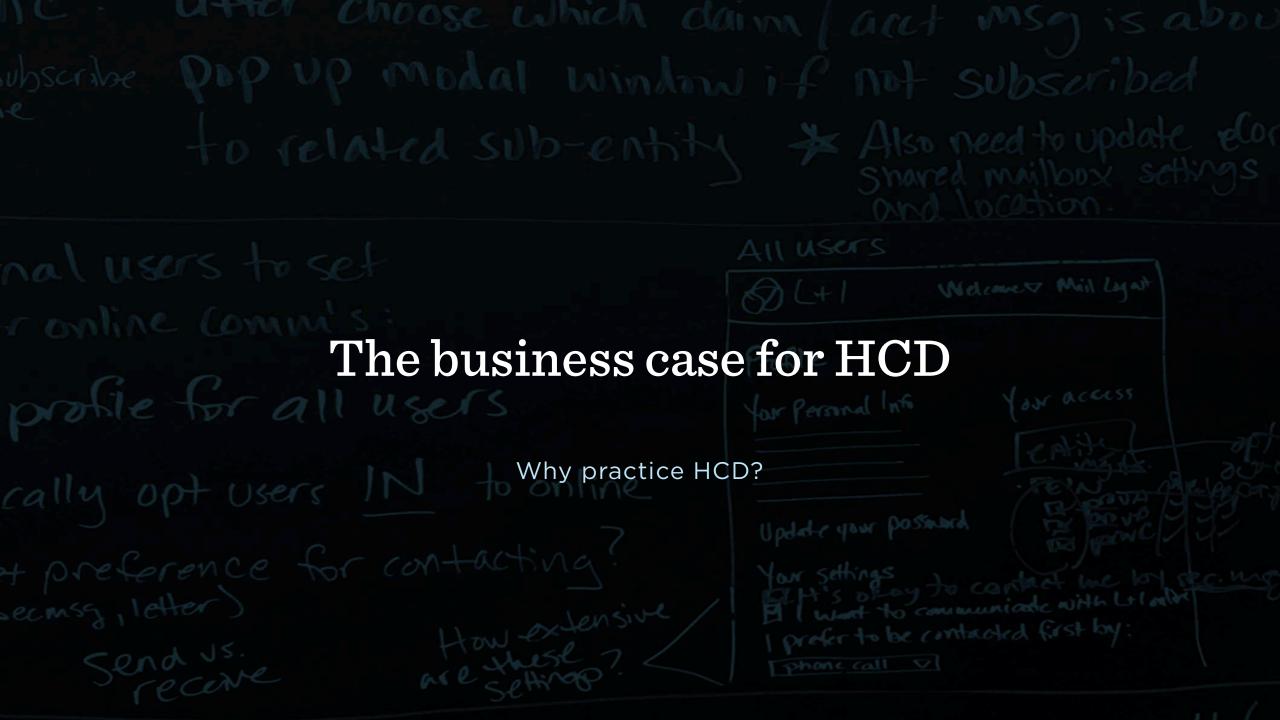


#### The HCD Process



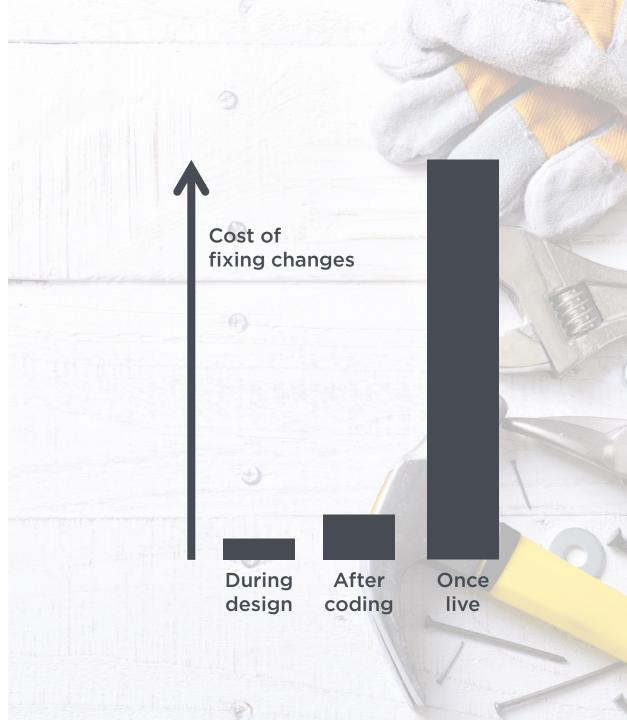
## Principles of HCD

- **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

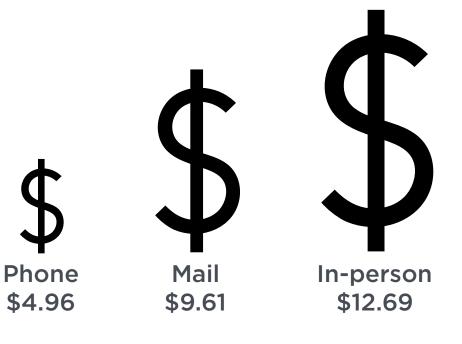
#### **O** Customers expect effective online service delivery

- 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

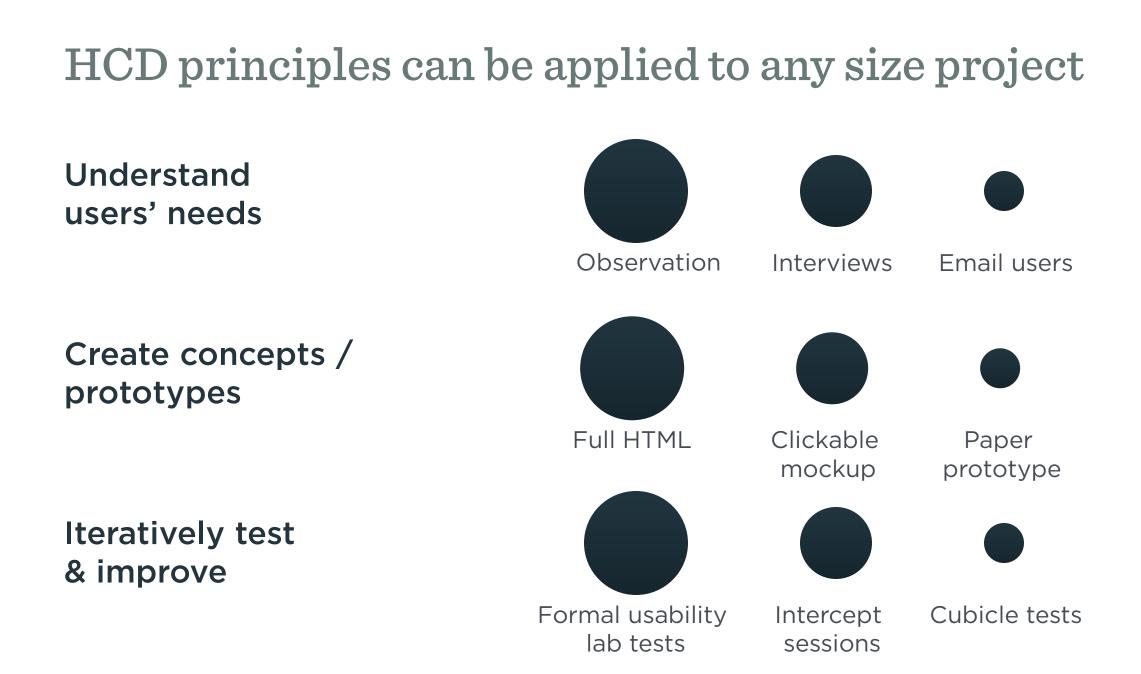
"This doesn't even look related to what I'm looking for. I'm going to give up."

> "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

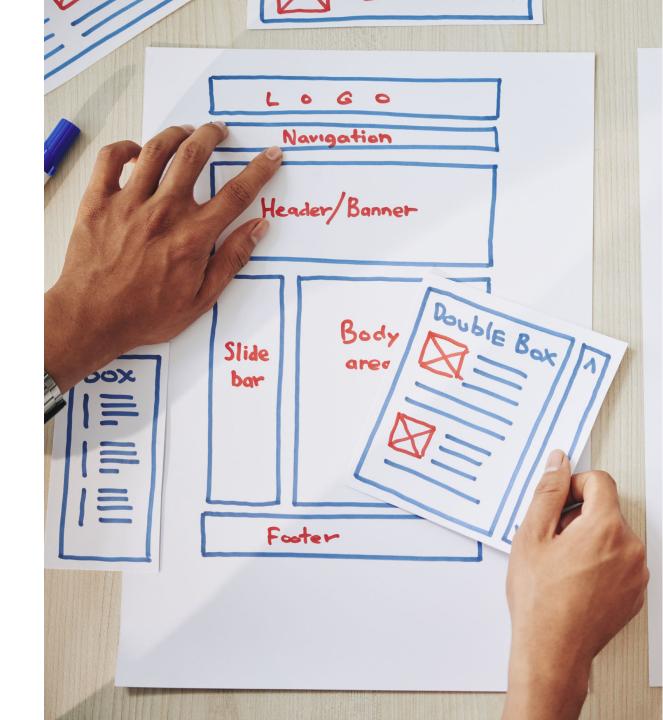
"The most obvious approach– to find the actual user and ask him– doesn't work for a number of reasons, but the main one is that merely being the victim of a particular problem doesn't automatically bestow on one the power to see its solution. The actual user is still a valuable resource, and we devote 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

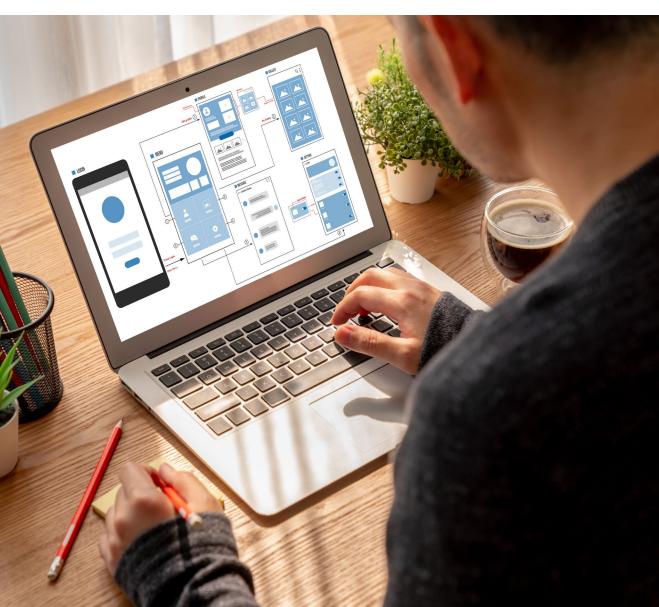
## Test before you build!

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

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