Introduction to Course 4

Understand the UX research process

Build a UX research plan (part 1)

Build a UX research plan (part 2)

- Video: Continue building a research plan: Methodology
- Reading: Learn more about methodology

1 min

20 min

- Video: Continue building a research plan: Participants
 3 min
- Reading: Recruit a diverse participant pool
 20 min
- Practice Quiz: Practice Activity:
 Continue building your CoffeeHouse
 research plan: Methodology and
 participants
 1 question
- Reading: Activity Exemplar: Continue building your CoffeeHouse research plan: Methodology and participants

 10 min
- Reading: Assistive technology for participants with disabilities
 20 min
- Video: Finish building a research plan: Script
 6 min
- Practice Quiz: Test your knowledge on UX research participants and scripts
 3 questions
- Practice Quiz: Practice Activity:
 Finish building your CoffeeHouse research plan: Script
 1 question
- Reading: Activity Exemplar: Finish building your CoffeeHouse research plan: Script
 10 min
- Reading: Example UX research plans

Respect user data and privacy

Week 1 review

Assistive technology for participants with disabilities

As you prepare to conduct your own research, you'll need to be sure to include participants with varying abilities in order to get a range of feedback about your designs and to ensure that your designs are equitable. As a reminder, **accessibility** means the design of products, devices, services, or environments for people with disabilities. One of your key priorities as a UX designer is to create products that are usable and accessible to all people.

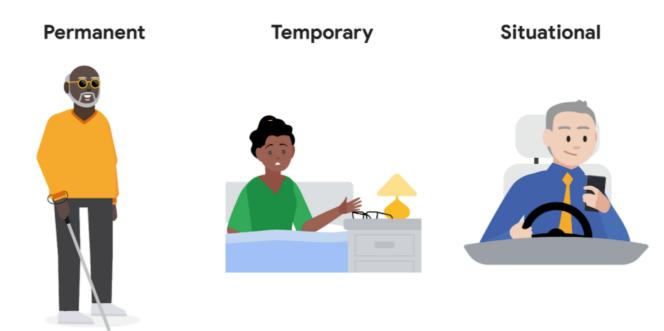
Sometimes, the abbreviation **a11y** (pronounced "A eleven Y") is used to refer to accessibility. It's shorthand for representing the 11 letters between the letter "a" and the letter "y" in the word "accessibility." More importantly, a11y resembles the word "ally," which reflects the idea that UX designers need to be allies to people with all types of abilities.

It's critical that you consider and involve people with various accessibility needs when designing, especially during the empathize and test phases of the design process.

Accessibility is for everyone

If you make the design of a product easier for people with disabilities, you also often make it a better experience for everyone else. Designing for accessibility isn't an obstacle, but a way to get your products to as many users as possible. In other words, designing for accessibility benefits everyone!

As a UX designer, you need to design for people with disabilities that are permanent, temporary, or situational.



A **permanent disability** is one that affects a person long-term, like losing sight, hearing, speech, or mobility. For example, Amir, a person with permanent blindness, uses a walking stick to navigate their surroundings.

A **temporary impairment** is a short-term illness or ailment that can be caused by an injury or other limitation. Consider Margo, who has temporarily blurred vision without their glasses.

A **situational challenge** occurs when a person's environment blocks certain functions. For example, Juan cannot read text messages on their mobile phone while driving a car. Instead, Juan uses voice commands to hear and send texts while driving.

You need to keep in mind users with a diverse range of abilities as you design features and products. You should also consider the types of assistive technology that people will use when experiencing your designs. An **assistive technology (AT)** is a product, equipment, or a system that enhances learning, working, and living for people with disabilities. In the examples above, assistive technologies came in the form of a walking stick, glasses, and voice commands. For your research study, you should strive to include as many different users of assistive technology as you



Let's explore some of the most common ATs.

- A screen reader is an AT that interprets and verbalizes text, button names, keyboard strokes, and code that a
 website or app is composed of. Screen readers are often used by people with low vision. In addition to screen
 readers, some people with low vision might use a computer or smart device with a high contrast screen or
 increased magnification.
- A **switch** is an AT that helps people with disabilities use technology like computers, phones, appliances, and mobility equipment with minimal movements and gestures. A switch can come in many forms, like a button or clicker. For a computer, a switch might replace a traditional keyboard and mouse.
- **Closed captioning and speech-to-text** are both ATs that convert audio into text for people with limited hearing.
- **Reminder alarms** with simplified text and supporting images can help people with cognitive disabilities remember important information. For example, Android phones have a feature called <u>Action Blocks</u> \(\tilde{\textsup}\) where users add common actions to their home screen with a name or image. So a photo of your mother on the home screen of your phone will call her phone number.
- **Augmentative and Alternative Communication (AAC) devices** are ATs that support people with cognitive disabilities who may experience speech limitations or learning disabilities by using images to communicate instead of words.

Try it yourself

Interviewing participants who use assistive technology or who have accessibility needs is an important part of the UX research process. Before you begin your usability study, it's a best practice to test the AT involved in your study with your team. For example, try using a screen reader on one of your favorite websites and with your own designs. Screen readers can be accessed directly from your device's accessibility settings, and some can even be added to your browser as plug-ins or extensions. Testing your product using assistive technology will help you better understand the user experience of someone with a disability, brainstorm ideas to improve those experiences, and ask more targeted questions during your research study.

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