TD Virtual Workshop 3:
Web Accessibility

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Hello!

We are Michelle Purnama & Long Nguyen

Let's talk about Web Accessibility!

1 — General Overview

2 — Setting Up

3 — Best Practices

4 — Resources

Our Workshop Agenda!

1.

What is Web Accessibility?

Web Accessibility

- The design of products, devices, services, or environments for **people with disabilities**
- Making things work for everyone regardless of their abilities
- **Web Content Accessibility Guidelines (WCAG):** set of formal guidelines for web accessibility

The Dimension of Disabilities

	Permanent	Temporary	Situational
Touch	One arm	Arm injury	New parent
See	Blind	Cataract	Distracted driver

	Permanent	Temporary	Situational
Hear	Deaf	Ear infection	Bartender
Speak	Non-verbal	Laryngitis	Heavy accent

Why should we care?

57 million
people in the United States
have a disability

That is
1 out of 5
people in the US who have a disability
and are protected by the ADA

19.9
million people
have difficulty
seeing or
are blind

7.6
million people
have difficulty
hearing

10.1
million people have
difficulty lifting
or grasping
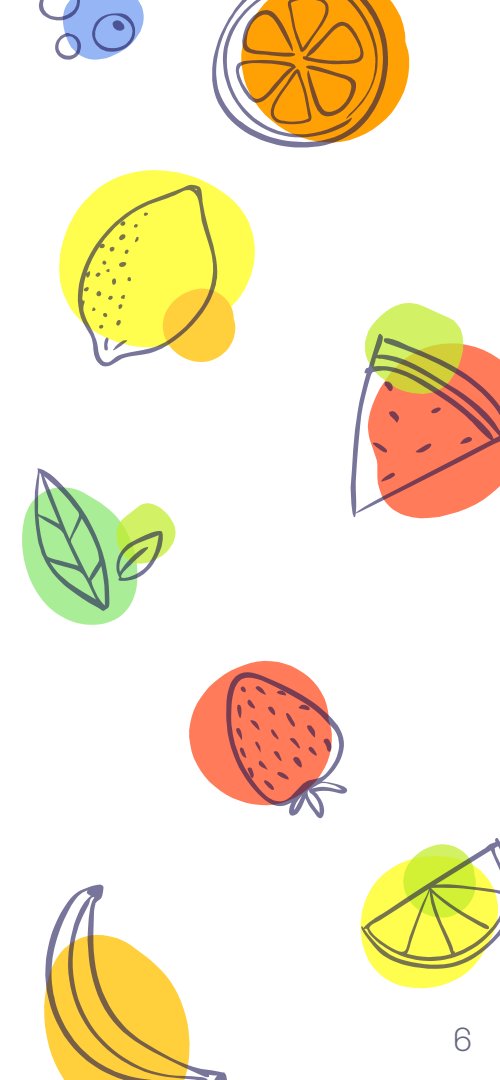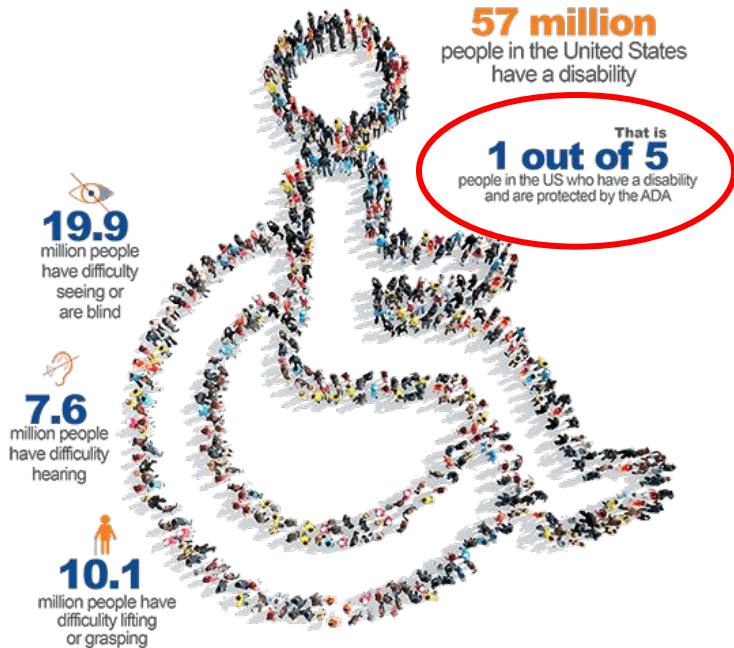
$8 trillion

Annual disposable income of
people with disability

It also benefits people without disability! Take a look at this video!
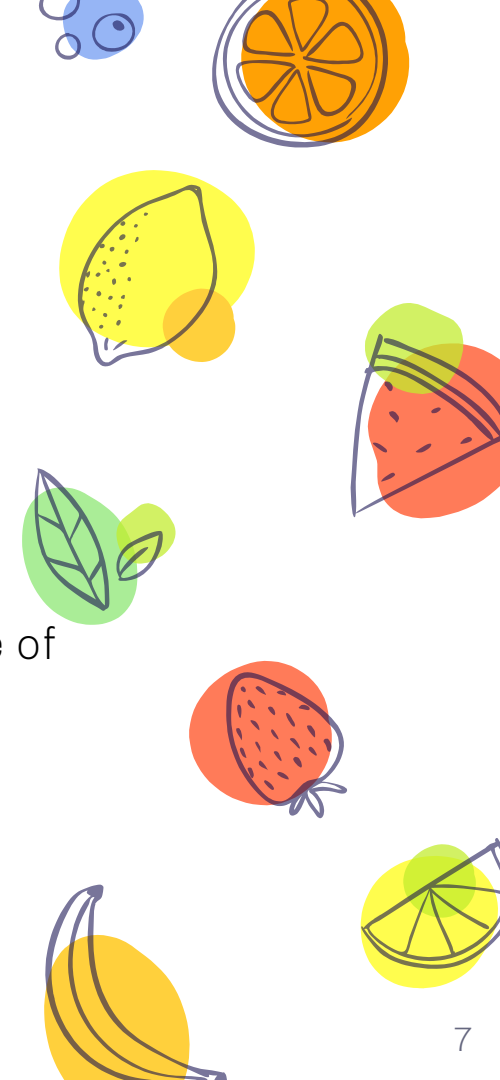

Frozen - Trailer with Audio Description

The one argument for accessibility that doesn't get made nearly often enough is how extraordinarily better it makes some people's lives. How many opportunities do we have to dramatically improve people's lives just by doing our job a little better?

2.

Setting up VS Code for our exercises!

Activate your
Screen Reader!

Cozee Website

3.

Accessibility
Best Practices

Color Contrast

- Making sure text stands out against the background to help users with **low vision**
- Tools to check color contrast: **Web AIM**, **Contrast Checker**
- Keyboard Shortcut:
  - **Ctrl + Shift + C (Windows)**
  - **Cmd + Shift + C (Mac)**

Exercise 2:

Links

- Inaccessible links are one of the **most severe barriers** to overall accessibility.
- Links must have a **non-empty href** attribute and should be **underlined.**

Exercise 3:

The logical-semantic difference

- **<b>** tag versus **<strong>** tag
- **<i>** tag versus **<em>** tag

Exercise 4:

Media

- **Images**: need **Alt Text** as a replacement for non-visual users and/or if the image fails to load.
- **Videos/Podcasts**: need **transcripts, captions,** and **audio description.**

Exercise 5:

Table

- Only use tables for **tabular data**
- Need **table headers**
- Data cells should be associated with their appropriate headers.
- Good for people who use **screen readers** or alternative ways to render data

Exercise 6:

Keyboard Interaction

- For a website to be accessible, it must work **without the use of a mouse**.
- **Tab key** is the MVP

Exercise 7:

Form Tag

- Ensure that every form element (text field, checkbox, drop down list, etc.) **has a label**
- Label is associated to the correct form element using **the <label> element**.

4. Resources

Web Content Accessibility Guidelines (WCAG) 2.1

W3C Recommendation 05 June 2018

Submission

MAKE SURE YOU HAVE ALL **YOUR CODE IN THE WORD DOC** TO SUBMIT FOR PARTICIPATION!

VISIT OUR **AIS VIRTUAL HELP DESK** IF YOU ENCOUNTER ANY ISSUES!

Thank you for tuning in!

Make sure to submit your work for attendance :)