



# TD Virtual Workshop 3: Web Accessibility

Director of IT: Nhi Nguyen

Workshop Leaders: Michelle Purnama & Long Nguyen



# 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

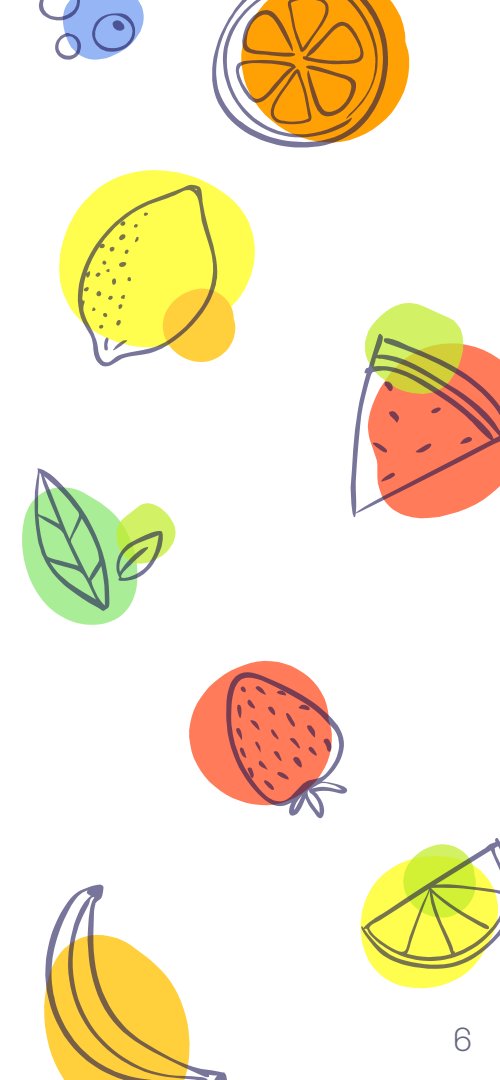
- The design of products, devices, services, or environments for **people with disabilities**
- Making things work for everyone regardless of their abilities
- **Web Content Accessibility Guidelines (WCAG):** set of formal guidelines for web accessibility



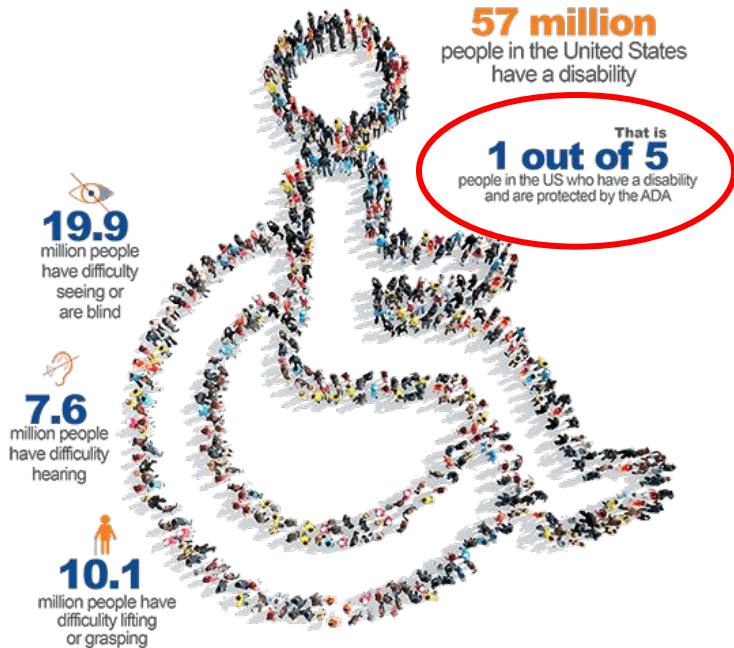
# The Dimension of Disabilities

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

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

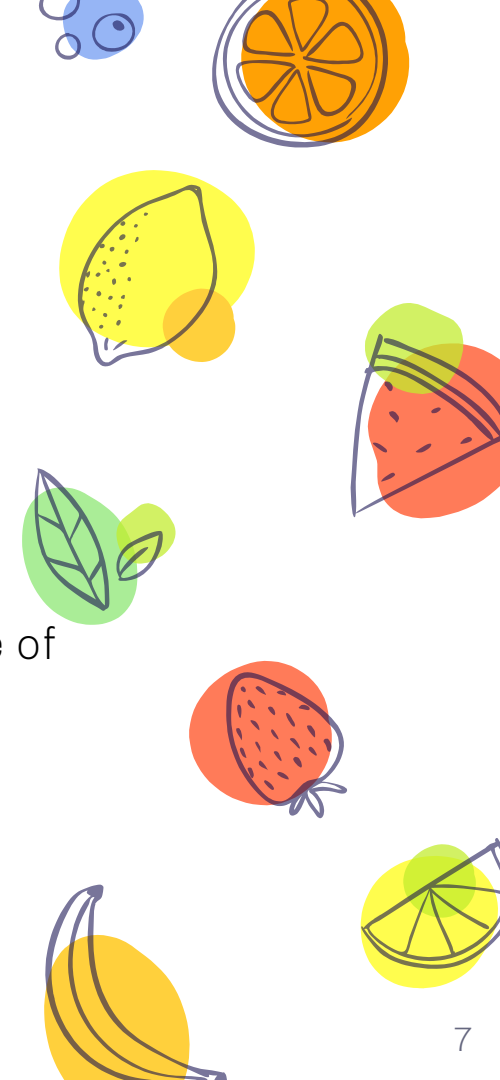


# Why should we care?



\$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 background is white and decorated with various colorful icons of fruits and vegetables. At the top left, there are blue bubbles. Next to them is a slice of orange. To the right is a green vegetable, possibly an okra. Further right is a slice of watermelon. On the far right edge, there is a green pear. Below the orange slice is a yellow lemon. In the center, there is a green circle containing a dark blue double quote icon. Below the quote icon is the main text. To the left of the text is a green leaf. To the right is another slice of orange. Below the text is a strawberry. At the bottom left is a banana. At the bottom center is a green leaf. To the right of the leaf is a green vegetable, possibly a cucumber. At the bottom right is a cherry and a whole orange.

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!



The background features various hand-drawn icons of fruits and vegetables. These include a blueberry cluster, an orange slice, a green leaf, a watermelon slice, a lime, a yellow lemon, a green leaf, an avocado, a yellow lemon slice, a green leaf, a strawberry, a banana, a lime slice, an orange, and a red cherry. Each icon is rendered in a simple, sketchy style with flat colors and black outlines.

Activate your  
Screen Reader!



# Cozee Website

3.

# Accessibility Best Practices





## Exercise 1:

# 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 :)