

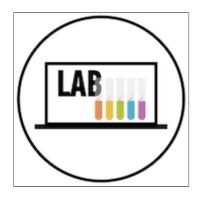
# **RESPONSIVE WEB DESIGN BASICS**

## **AGENDA**

- GitHub Pages
- Layout review
- Responsive Layouts
- REM/EM
- Media Queries

## **REVIEW**

Let's bring HTML/CSS back into the equation.



# **BOXES**

# **RESPONSIVE LAYOUT**

#### WHAT IS RESPONSIVE?

- A website that responds to the width of the device it is being displayed on.
- The design of the site is optimized for all widths.
- Don't get it twisted with a "mobile" version of the site. Responsive designs are "fluid" and don't care what type of device it is being displayed on.
- We can no longer create a "desktop" version of our site and a "mobile" version, because mobile and desktop can now mean so many things.
- Luckily CSS gives us an awesome tool to create this fluidity in our designs. It's up to us to use this tool wisely.

## **FIXED SITES**

- Amazon
- NY Times

#### **RESPONSIVE SITES**

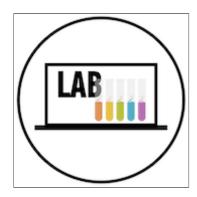
- Boston Globe
- Sonny Ruckus
- CSS Tricks
- A Book Apart

#### **FIXED LAYOUT**

- Used up to this point
- Relies on a container of fixed width
- Usually 960px or 980px
- Will give you a horizontal scroll bar when making screen width smaller

#### **RESPONSIVE LAYOUT**

- Different styles for different screen widths
- Uses an elastic/fluid layout
- Sized in percentages



# **MOBILE BOXES**

## **WAYS TO SIZE TEXT - PIXELS**

#### px

- Absolute measurement
- ex: font-size: 16px;

## **WAYS TO SIZE TEXT - EMS**

#### em

- Relative measurement
- Relative to it's parent
- ex: font-size: 2em;
- Can cause compounding issues

#### **WAYS TO SIZE TEXT - REMS**

#### rem (root em)

- Relative measurement
- Relative to the root ()
- ex: font-size: 2rem;
- No compounding issues

# **MEDIA QUERIES**

- Media queries are at the heart of responsive layouts
- Allows for different CSS at different screen sizes

# **MEDIA QUERIES**

@media only screen and (max-width: 800px)

@media only screen and (min-width: 800px)

## CSS Tricks standard media queries

## **MEDIA QUERIES USAGE**

```
.col-1-2 {
    width: 50%;
}

@media only screen and (min-width: 800px) {
    .col-1-2 {
        width: 100%;
    }
}
```

• Important Note: media queries do not count as being more specific. What would happen if these 2 rules were in the opposite order?

#### **MOBILE FIRST**

- The theory that all web design should be thought about a developed starting with a mobile layout and experience.
- Use min-width media queries
- Credited to Luke Wroblewski A Book Apart: Mobile First

#### **MOBILE DISPLAY**

<meta name="viewport" content="width=device-width, initial-scale=1, user-scalable=no</pre>

- A common meta tag that prevents the user from scaling the page (pinch to zoom).
- It also correctly scales the initial view no matter the device.



# **RESPONSIVE BOXES**

## **OPTIONAL**

- Flexbox
- Grid layouts
- Transition (make media query changes smoother)