



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">
```

- 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)

