Responsive Lab

Lesson 14

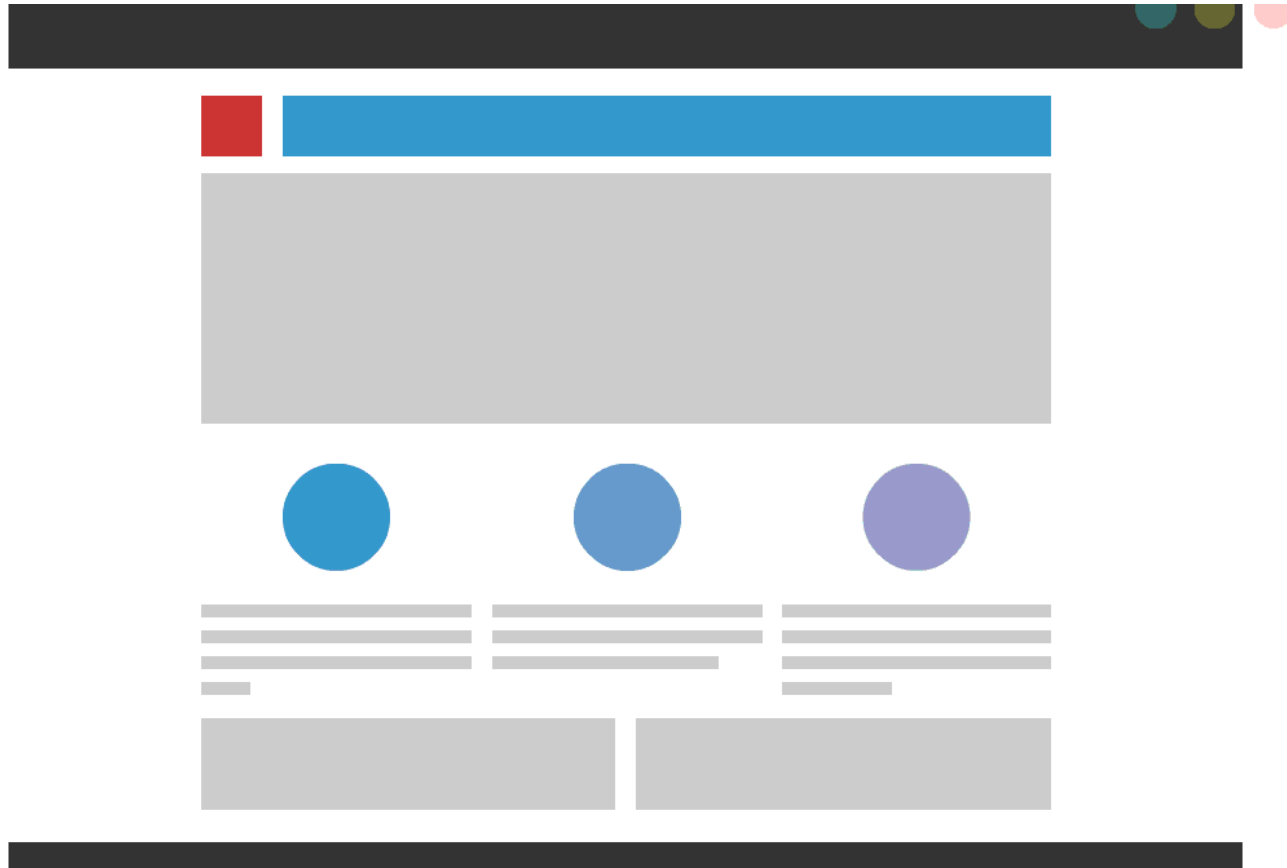# **Agenda**

- Review Responsive Basics
- Lab Time

Responsive Review

What is Responsive?

Responsive Web Design is about using HTML and CSS to resize, hide, shrink, enlarge, or move the content to make it look good on any screen.

This is more about the design than it is about any coding (though there is a bit of this involved)

Fixed Layout Example

Fluid Layout Example

Responsive Layout Example

Viewport meta tag

```
<head>
    <!-- This goes in the head section of your site -->
    <meta name="viewport" content="width=device-width, initial-scale=1">
</head>
```

- A **meta viewport** element gives the browser instructions on how to control the page's dimensions and scaling.
- The **width=device-width** part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).
- The **initial-scale=1.0** part sets the initial zoom level when the page is first loaded by the browser.

What are Media Queries?

A **media query** is a CSS technique introduced in CSS3.

It uses the *@media* rule to include a block of CSS properties only if a certain condition is true.

```css
div.box {
    float: none;
}

@media screen and (min-width: 768px){
    /* insert responsive css here */
    div.box {
        float: left;
    }
}
```

2.7

Media Query Syntax - Media Types

Styles for computer screens

```css
@media screen and (min-width: 960px){
    div {
        width: 75%;
    }
}
```

Styles for print

```css
@media print {
    header, footer, nav {
        display: none;
    }
}
```

Common Breakpoints

```
/*=========   Mobile First Method   ==========*/

... default CSS styles ...

/* Extra Small Devices, Phones */
@media only screen and (min-width: 480px) {

    ... CSS for screens at least 480px wide ...

}

/* Small Devices, Tablets */
@media only screen and (min-width: 768px) {

    ... CSS for screens at least 768px wide ...

}

/* Medium Devices, Desktops */
@media only screen and (min-width: 992px) {

    ... CSS for screens at least 992px wide ...

}

/* Large Devices, Wide Screens */
@media only screen and (min-width: 1200px) {

    ... CSS for screens 1200px and above ...

}
```

```
/*========   Non-Mobile First Method   ========*/

... default CSS styles ...

/* Large Devices, Wide Screens */
@media only screen and (max-width: 1200px) {

    ... CSS for screens 1200px and below ...

}

/* Medium Devices, Desktops */
@media only screen and (max-width: 992px) {

    ... CSS for screens up to 992px wide ...

}

/* Small Devices, Tablets */
@media only screen and (max-width: 768px) {

    ... CSS for screens up to 768px wide ...

}

/* Extra Small Devices, Phones */
@media only screen and (max-width: 480px) {

    ... CSS for screens up to 480px wide ...

}
```

Code Along

Open: **Basic Media Query Codepen**

Pulse Check

Key Objective:

Open the **Basic Media Query Codepen** link and add some media queries to create breakpoints in the code.

Timing:

- **15 minutes** - add different styles to breakpoints at 480px, 768px, 992px and 1200px

Tips:

- Be sure to use "mobile-first" principles when adding your breakpoints
- Use the common breakpoints slide from earlier as inspiration

Lab Time
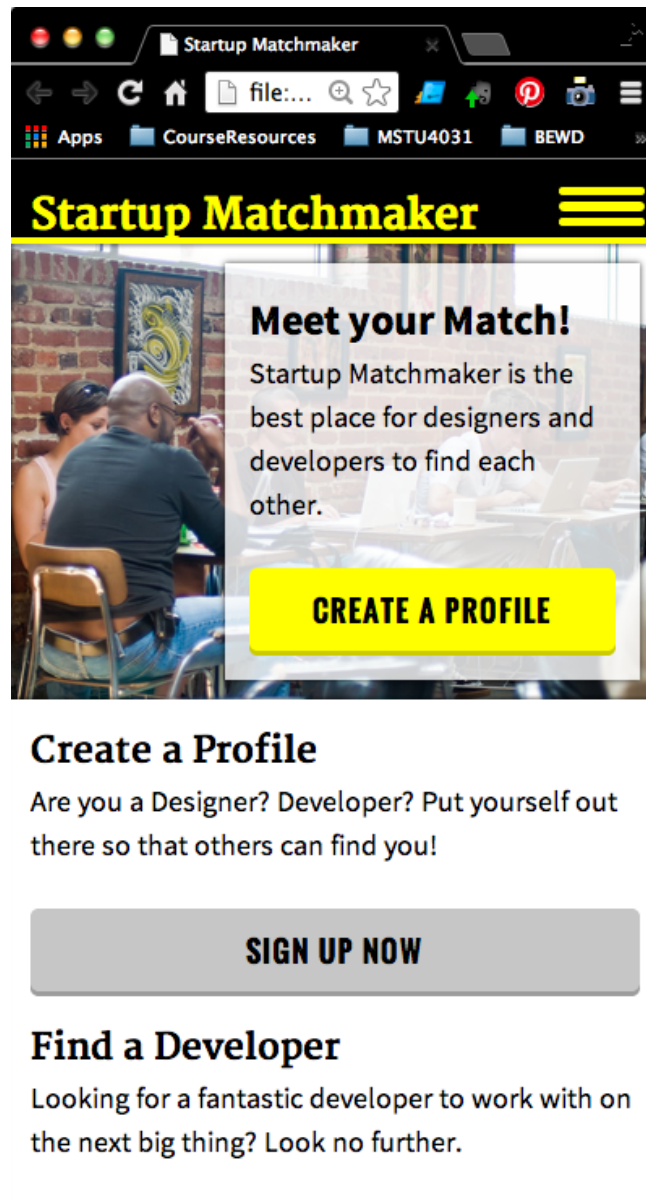
Open: **starter_code/startup_matchmaker**

Directions:

1. Open the **starter_code/startup_matchmaker** folder
2. Place a comment at the bottom ("/* overwriting CSS for new layout goes here */")
3. Below this, add your media query/responsive CSS
4. Include JS to toggle the navbar in mobile sizes

Timing:

- **150 minutes** - add CSS to the main.css file to make Startup Matchmaker responsive

Tips:

- Remember to design for experiences, not for devices
- Do not edit the existing CSS/HTML
    - Except to add in the hamburger icon

Exit Tickets

Take 5-10 minutes to give us some

(Link is in Slack Room)

Week 6 HW Due Tonight

- **Due tonight by 11:59pm ET**
- Once you upload your HW to your repo, please PM the TA with a link to the Assignment folder.
- This is how we will know whether an assignment has been completed or not
- Once graded, the TA will reply with feedback

Week 7 Homework

- Assignment: **Responsive Relaxr**
- Due: **Monday, June 17 at 11:59pm ET**
- Remember to rename the Assignment folder as outlined in the directions.
- Also, remember to commit/push your changes to your fork when you are done.
- Grading rubric can be found in the **Assignment** folder
- **FOLLOW THE RUBRIC!**

Next Class...

Lesson 15