LET'S GET EVERYTHING SET UP!

1. In Schoology, go to: **Courses(in the top menu) > FEWD CHI 1: Section 1**
2. Then go to the **Class Materials** folder — it's the pink one!
3. Navigate to the **Week 8 (It's the yellow folder) > Lesson 14 folder**
4. There you'll find all the materials for today's class
5. Download starter_code_lesson_14.zip
6. Move it from your Downloads folder to your Desktop
7. Double-click on starter_code_lesson_14.zip to unzip it
8. After you've unzipped, delete the original .zip to avoid confusion and make sure you don't unzip it again later!!!

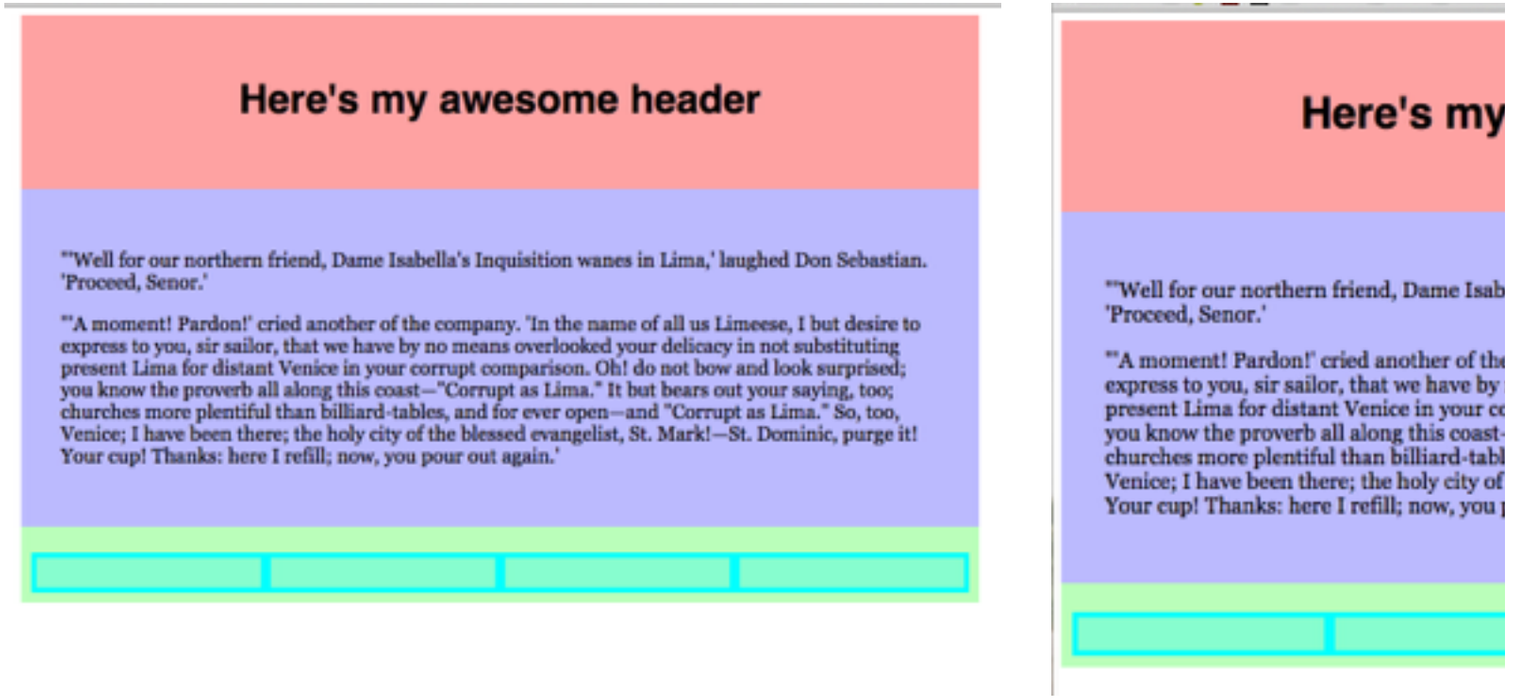
RESPONSIVE LAB

(START SCREENCAST)

REVIEW

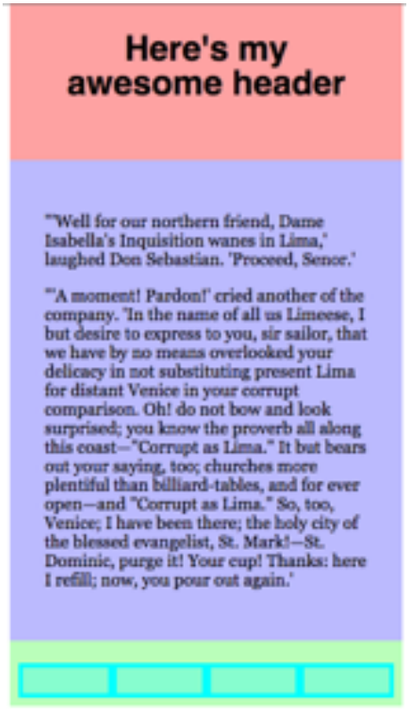
FIXED LAYOUT

- Relies on a container of a fixed width (uses static units)
- Resizing the browser/viewing it on a different device won't have an effect on the page



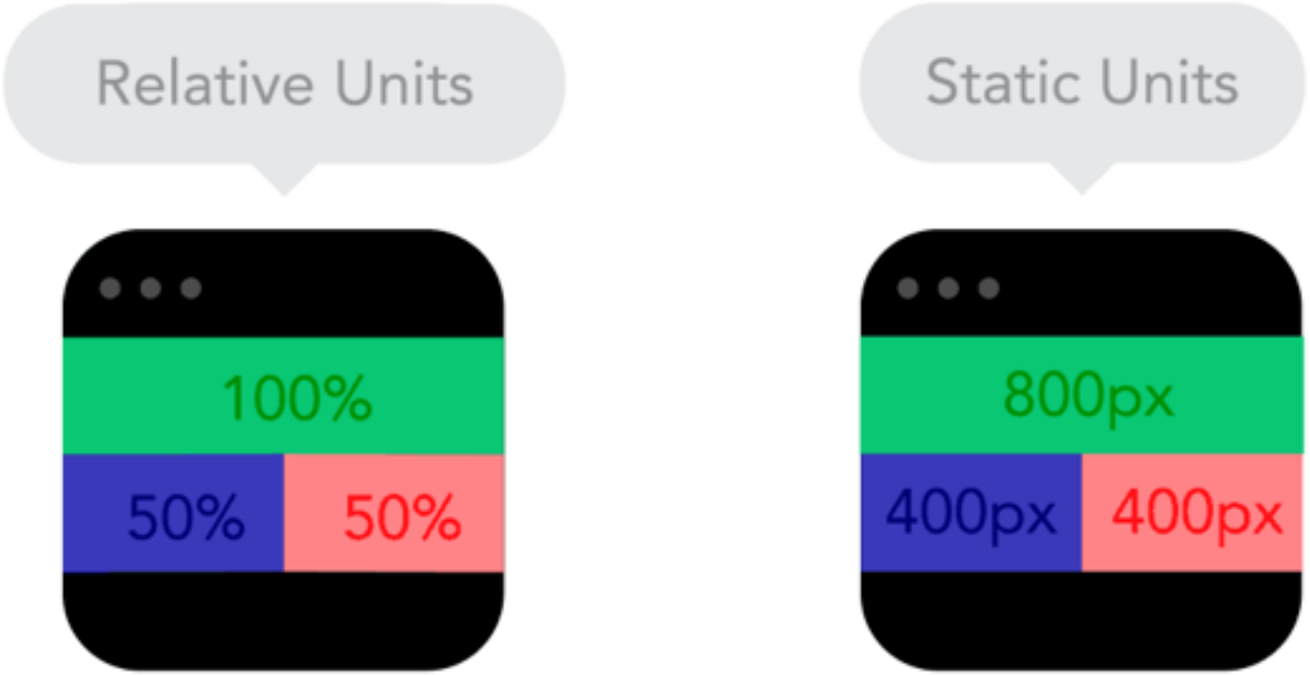
FLUID LAYOUT

- Uses relative widths (percentages
- No media queries



FIXED VS. FLUID

Fluid layout



Fixed

Gif credit: [Fast Company]

RESPONSIVE LAYOUT

- Uses relative widths (built on a fluid grid)
- Use media queries to control design and content as it scales down or up with the browser or device

MEDIA QUERIES

```
@media screen and (max-width: 600px) {
  .box {
    width: 100%;
  }
}
```

****See a full list of features here*

MEDIA QUERIES — SYNTAX

LOGICAL OPERATORS

- **and**: can be used to combine multiple media features together, as well as combining media features with media types.

```
@media (min-width: 700px) and (orientation: landscape) { ... }
```

- **comma-separated lists**: behave like the logical operator *or*

```
@media (min-width: 700px), handheld and (orientation: landscape) { ... }
```

- **not:** applies to the whole media query and returns true if the media query would otherwise return false

```
@media not print { ... }
```

- **only:** prevents older browsers that do not support media queries with media features from applying the given styles

```
@media only screen and (min-width: 400px) { ... }
```

VIEWPORT META TAG — AN IMPORTANT NOTE!!

- The viewport meta tag controls how a webpage is displayed on a mobile device.
- Without the tag, mobile devices will assume you want the full desktop experience and will set the viewport width at 980px (iOS)

DEVICE-WIDTH

- This tells the browser “My Website adapts to your width”

INITIAL-SCALE

- Sets the initial zoom level and prevents default zooming

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

PIXELS AND EMS AND REMS, OH MY!!

PIXELS, EMS AND REMS

- Both **em** and **rem** are relative units. Their counterpart, the px, is not.

EMS

- Sized based on the width of the letter “m”
- Same as percentages* 1em=100% font-size
- Based on *parent*
- Parent{ font-size:16px;} Child{font-size:2em;} Child’s font size is 32px

REMS

- "Root" em
- Same as em **except** based on the font-size of the *html element*

THE BENEFIT OF USING RELATIVE UNITS

```
html { font-size: 1em; }
h1 { font-size: 2.074em; }
h2 { font-size: 1.728em; }
h3 { font-size: 1.44em; }
h4 { font-size: 1.2em; }
small { font-size: 0.833em; }
.box { padding: 1.25em; }

@media screen and (min-width: 1400px) {
  html { font-size: 1.25em; }
}
```

```
html { font-size: 16px; }
h1 { font-size: 33px; }
h2 { font-size: 28px; }
h3 { font-size: 23px; }
h4 { font-size: 19px; }
small { font-size: 13px; }
.box { padding: 20px; }

@media screen and (min-width: 1400px) {
  html { font-size: 20px; }
  h1 { font-size: 41px; }
  h2 { font-size: 35px; }
  h3 { font-size: 29px; }
  h4 { font-size: 24px; }
  small { font-size: 17px; }
  .box { padding: 25px; }
}
```

GENERAL ASSEMBLY

RESPONSIVE LAB

Sarah Holden

LEARNING OBJECTIVES

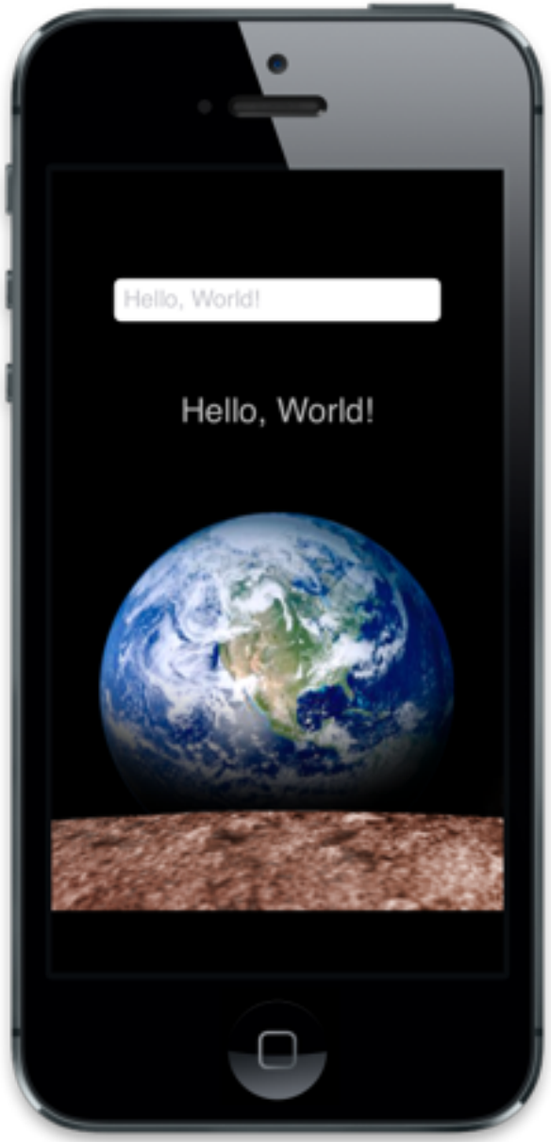
- Learn how to analyze a web page in order to be able to redesign it responsively.
- Practice using media queries to achieve a responsive design.

AGENDA

- iOS Simulator
- Startup Matchmaker - Plan
- Startup Matchmaker - Lab time
- Startup Matchmaker - Solution/Review

IOS SIMULATOR

IOS SIMULATOR!



ACCESSING THE IOS SIMULATOR

LAUNCHING THE SIMULATOR

1. Download Xcode from the App Store
2. Launch Xcode
3. Control-click the Xcode icon in the Dock, and choose Open Developer Tool > iOS Simulator from the shortcut menu

CHANGING DEVICES

1. Choose a device from the Hardware > Device menu.

DEBUGGING IN SAFARI

1. Launch Safari
2. Go to Develop > iOS Simulator > (select your page) to open Safari's elements panel

Read the documentation for more tips and techniques.

STARTUP MATCHMAKER — FIXED TO RESPONSIVE

FIXED TO RESPONSIVE — PLANNING

1. **Determine what content is extra**
   - Does that h1 need an h2 under it?
   - Will that one-liner get the visitor to understand my site or is it extra?
2. **Determine what content needs to be visible**
   - Is it necessary to show my entire nav if there are other ways of getting to navigation?
3. **Identify Extra Styling**
   - Do my columns need a border if they're stacked?

**Stuck? Refer to the examples from mediaqueri.es*

LAB

ACTIVITY

EXERCISE

KEY OBJECTIVE

- Learn how to analyze a web page in order to be able to redesign it responsively.

TYPE OF EXERCISE

- Groups of 2-3

TIMING

15 min Create a sketch of Startup Matchmaker for a mobile devices.

STARTUP MATCHMAKER — LAB TIME

FIXED TO RESPONSIVE — EXECUTION

1. Convert widths to percentages
2. Size fonts in ems
3. Make layout/styling updates for different screen sizes using media queries

LAB

ACTIVITY

KEY OBJECTIVE

- Practice using media queries to achieve a responsive design.

TYPE OF EXERCISE

- Individual/partner

TIMING

75 min	1. Use CSS and media queries to make Startup Matchmaker responsive.
40 min	2. Write JS that makes the mobile nav open and close when clicked.

STARTUP MATCHMAKER — REVIEW/WRAP-UP

UPCOMING EVENTS

UPCOMING EVENTS

GENERAL ASSEMBLY On Campus Online Corporate Training Sign In

INTRODUCTION TO GOOGLE ANALYTICS

Benedict Wong
Digital Strategy Director, Astek Consulting

About This Class

Google Analytics is an incredibly robust, free tool for measuring web traffic data. In this class, you'll get to know the basics of using Google Analytics to track and evaluate performance and draw insights to improve your business. Starting with basic terminology and key metrics, you'll build a foundation of knowledge before diving deeper into more complex analytics techniques, including advertising tracking and custom segments. You'll walk away with a fundamental understanding of Google Analytics' role in running and operating your business.

19 Thursday, 19 March
6 – 8 pm

GA Chicago @ SPACE
444 N Wabash Ave, 5th Floor
Chicago , IL 60611

Regular Ticket $30 USD

LEARNING OBJECTIVES

- Learn how to analyze a web page in order to be able to redesign it responsively.
- Practice using media queries to achieve a responsive design.

HOMEWORK

HOMEWORK

FINAL PROJECT MILESTONES:

- Milestone 2 Pseudo Code: Due March 7th
- Milestone 3 First Draft: Build The First Draft Of Your Final Project. Due March 14th

OPTIONAL BUT HIGHLY ENCOURAGED READING:

- Want extra practice? Build out a 'boxed' version of the Sweet Hat Club
- Javascript & jQuery by John Ducket — Chapter 13: Form Enhancement & Validation
- HTML & CSS by Jon Duckett — Chapter 7: Forms

EXIT TICKETS