

#### WEEK 2

Let's review Project A progress. Continue refining page layout design pattern and navigation design pattern as discussed in class.



## MEDIA QUERIES

Breakpoints for a full range of viewports and syntax to style each individually

#### Breakpoints for Media Queries

- Bootstrap v 3.x
- <=768px
- 768px to 979px
- 980px to 1199px
- >=1200

- Bootstrap v 4.x
- <=575px
- 576px to 767px
- 768px to 991px
- >=1200
  - These are mobile-first min-width, see all media breakpoints

#### Foundation

- \$small-only: max-width: 40em
  - · max-width 640px
- \$medium: min-width: 40.063em
  - min-width 641px
- \$large: min-width: 64.063em
  - in-width 1025px
- \$xlarge: min-width: 90.063em
  - min-width 1441px
- \$xx-large: min-width:120.063em
  - min-width 1921px

# Market data on viewports

http://viewportsizes.com/

This is why you will see variations on these breakpoints!

#### Features of Media Queries

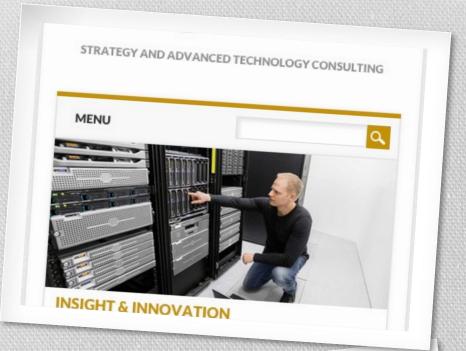
- Allows you to set the CSS based on the size and orientation of the viewport.
- Features on Table 4-1 of RWD include...
  - Width, height, device-width, device-height, orientation, aspectratio, color, etc



## Media Query Developer Tool

A good feature in Chrome.

Notice it is spoofing the query parameters that would have come from the client.





#### Menus

Collapse the menu to an icon on mobile with a responsive menu widget

Create a media query for smaller screens that manages the menu without wraps in the wrong place

See RWD figure 4.21

Consider the usability of Off Canvas menu

## Exercise 2 - Responsive Menu

- Start with the most basic example
- This is basic JavaScript, no jQuery needed

```
<script>
function myFunction() {
    document.getElementsByClassName("topnav")[0].classList.toggle("responsive");
}</script>
```

• To void(o) or not...

#### **Dinner in Kobe**



**Appetizers** 



#### CSS For Responsive Menu

```
h1-{-
      --font-size: 170%; -
      ..padding:..5em.0..5em.0;-
      ·-margin:0;
      · · font-weight: · normal: -
      ··color: · · #555; ¬
      ..}-
      h1.brand - {-
      ··width: -50%; -
      · · float: ·left; -
10
      --padding-top:-0;-
11
      -- padding-bottom: -0; -
      ··line-height: ·1.5em; -
13
      ···/*·Remove·margins·and·padding·from·the·list,·and·add·a·
15
      background-color.*/-
      ul.topnav-{-
16 *
      ····list-style-type: none; -
17
18
      · · · · margin: · 0; ¬
      · · · · padding: · 0; ¬
19
      ····overflow: hidden; -
      · · · · background-color: · #f8f8f8; ¬
21
22
      ----width: -20em; -
      ····float: right; -
23
24 -
25
      /*·Float·the·list·items·side·by·side·*/-
26
      ul.topnav·li·{float:·left;}-
27
28
      /*·Style·the·links·inside·the·list·items·*/-
      ul.topnav·li·a·{-
30
      · · · · display: ·inline-block; -
31
      ····color:-#333;¬
32
33
      ····text-align: center;
      ····padding: ·14px ·16px; ¬
34
      ····text-decoration: ·none;
35
      ····transition: ·0.3s;
37
      ····font-size: 17px;
38
39
      /*-Change-background-color-of-links-on-hover-*/-
49
      ul.topnav·li·a:hover·{background-color: *#eee;}-
41
```

```
42
      /*·Hide·the·list·item·that·contains·the·link·that·should·open·
      and close the topnav on small screens */-
      ul.topnav-li.icon-{display:-none;}-
44
     /*-When-the-screen-is-less-than-680-pixels-wide,-hide-all-list-
45
      items, except for the first one ("Home"). Show the list item-
      that · contains · the · link · to · open · and · close · the · topnav · (li.icon) · */-
      @media-screen-and-(max-width:768px)-{-
      --ul.topnav-li:not(:first-child)-{display:-none;}-
47
     --ul.topnav-li.icon-{-
      ····float: right; -
49
      ····display: inline-block;
51 -
      ++}-
52 ₺ }-
53
      /*-The-"responsive"-class-is-added-to-the-topnav-with-JavaScript
54
      when the user clicks on the icon. This class makes the topnav
54
      look-good-on-small-screens-*/-
      @media-screen-and-(max-width:768px)-{-
      --ul.topnav.responsive-{position:-relative;}-
56
     --ul.topnav.responsive-li.icon-{-
      ····position: absolute;
58
      · · · · right: · 0; ¬
      ····top: 0: ¬
61 -
      --ul.topnav.responsive-li-{-
      ····float: none; -
63
      · · · · display: · inline; ¬
64
     --ul.topnav.responsive-li-a-{-
      · · · · display: · block; ¬
      ····text-align: left; -
69 - ..}-
70 - }-
```



## TYPOGRAPHY SCALE AND RHYTHM

Moving from px to em, a great explanation...

http://typecast.com/blog/a-more-modern-scale-for-web-typography

#### Maintain typographical hierarchy

- You have font-size: 100%; at the body element
- Target 24 px in a standard browser where 100% is 16px
- 24 / 16 = 1.5 em
- Target / context = result

We start here because it should be a top down design approach

that supports the Cascade

Review Bootstrap CSS



# Typography Advice From Inclusive Design Patterns Book

- Serving fonts does present a small risk
  - FLOUT (Flash of Unstyled Text) or FOIT (Flash of Invisible Text)
- To mitigate this undesired effect, your best strategy is to choose fallback system fonts with intrinsic dimensions (metrics) which are similar to the web font.
- In Robert Bringhurst's book The Elements of Typographic Style, he recommends a measure between 45 and 75 characters. In CSS, 1rem roughly corresponds to the width of the typeface's lowercase m, so a paragraph which is 60rem wide could be said to have a measure of 60 nicely within range for comfort.

#### Responsive Implementations

- Twitter Bootstrap
- Zurb Foundation 5
- SemanticUI
- Materialize
- Or your custom build
  - Consider <a href="https://html5bones.com/">http://www.initializr.com/</a>
- ETC....
- A nice comparison of the top choices...
  - http://responsive.vermilion.com/compare.php
- A nice discussion on Frameworks
  - http://www.technig.com/top-7-best-css-frameworks-2016/

### Assignment

- Finish styling class exercise and post in Assignments
- Change fonts from percent to em
- Read these key sections of the Bootstrap documentation
  - https://getbootstrap.com/getting-started/
  - http://bootstrapdocs.com/v3.o.3/docs/css/
  - http://michaelsoriano.com/exploring-the-bootstrap-3-o-grid-system/
- If you have any prior art that is suitable for a logo bring it
- Find 3 images for slider exercise next week
  - Images should be compatible height, 1440px width or 1920px
  - Pick a subject, any subject
  - Copyright and Attribution of images is critical!