Welcome & FAQs

Syllabus

- · course: intro to the theory & practice of creating responsive websites
 - 3 common approaches: using fluid measurements & media queries

using an existing framework (eg. Bootstrap) that does all the responsive design 4 you

hybrid - use a framework in combination w/ your own responsive code

Introduction to Responsive Design

basics: what is responsive design?

why you need to know responsive design?

customizing your site

using frameworks

- week 1: focus on theory
 - what does responsive design mean?
 - what makes for good responsive design?
 - role of fluid measurements
- week 2: media queries
 - what are they?
 - how to plan first (best practice)?
 - what's the relationship w/ break points?
 - how to make a navigation bar
- week 3: frameworks
 - benefits
 - pitfalls
 - Bootstrap 3
 - getting started
 - grid system
 - navigation
- week 4: more Bootstrap
 - -images
 - tables
 - advanced navigation
 - case studies

Lecture Materials - Week I

What is Responsive Desian?

- responsive web design = designing site w/ multiple screen sizes/resolutions in mind
- site should: give user power

work under any platform

" any browser size

" any orientation

- · small screen + less content
- · never assume user won't need access to a functionality
- concepts to consider : media queries

- detects viewport size flexible grid based layout

-for relative sizing

flexible images

check out examples of great design: http://mediagueri.es/

Testing Existing Sites

test site for responsiveness: resize your window

use an online tool

chrome/firefox tools

resize your window = resize then refresh site

doesn't work on mobile devices

- · use an online tool: http://ami.responsivedesign.is/
- · chrome or firefox tools = many browsers have tools to view code on different viewports
 - (eg. Chrome): inspect element > toggle device mode
- survey existing sites to see: what to do

what not to do

Benefits of Responsive Design

· responsive options: responsive web design

adaptive design

separate mobile site - very popular

responsive web design (RWD) = server is sending back the same code regardless of the device detectable via: meta name = "viewport"

(ie. fluid measurements, flexible grids, 年 varying CSS rules)

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adaptive design (aka dynamic serving) = server returns different code (HTML & CSS) based on type of
                                               device requesting the page
                                             same url is used
                                             con → server detects wrong device type
  separate mobile site (.m) = server returns different code to desktop & mobile devices on different urls
                              relate urls via: <link rel="canonical"/"relative">
              easier to share data wl a single url
   why RWD:
               easier for search engines to index page
               fewer files → less maintenance
               less redirection -> shorter load time
                                      I vw = 1% of viewport width
Fluid Measurements
  your content should fit size constraints of the viewport
  vertical scrolling for content
  horizontal scrolling = bad design
  absolute measurements:
                           pixel (px)
                                                   one device pixel (dot) of the display
                           millimeter (mm)
                           centimeter (cm)
                                                                                          to hardcode values
                           inch (in)
                                                   | pt = 1/72 in
                           point (pt)
                                                   | pc = 12 pts
                           pica (pc)
  fluid/relative measurements:
                                 7.
                                 em
                                             will respond to viewport size
                                 rem
                                 VW
                                 νh
  percentage (1.) value = always relative to another value (eq. length)
· em = font size of the element
  rem = font size of the root element
  vw = viewport's width
         I vw = 17. of viewport width
  wh = viewport's height
        I vh = 17. of viewport height
  lem = 12 pt = 16 px = 100\%
  lin = 2.54 cm = 25.4 mm = 72 pt = 12 pc
```