Grids, Bootstrap, & Wireframes

CS 160, Week 1: Topic B

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Link to Slides: https://tinyurl.com/cs160-w1tB-su22

Welcome!



I'm Rachel :)

Pronouns:

she/her

Major:

Computer Science (4th year)

Experience:

LOVE front-end development & React! (startups, past internships)

Hobbies:

Travelling, poker, tennis, movies:

Agenda

Bootstrap Overview (25 mins)

Introduction to Bootstrap fundamentals & how to use Grids

2. Wireframes & Why (10 mins)

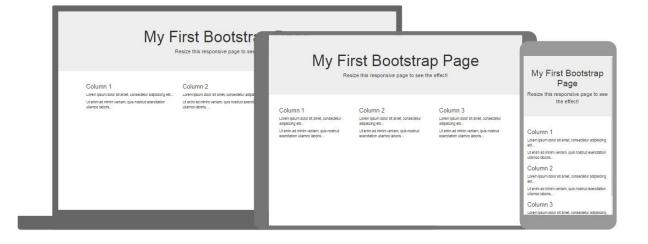
Reinforce importance of wireframes in the design process and this class (especially projects!)

3. Bootstrap Practice! (15 mins)

Practice creating a basic layout on Codepen

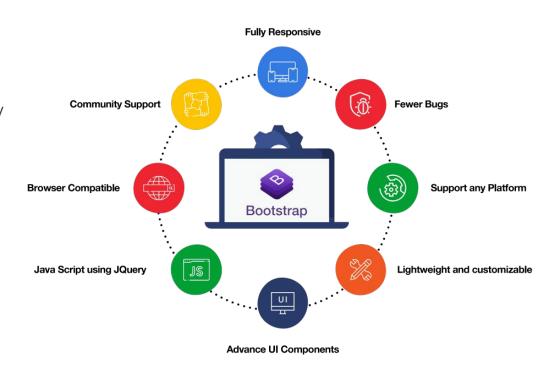
What is Bootstrap?

- CSS Framework for developing responsive mobile-first websites
- contains HTML, CSS,
 & JavaScript based templates for typography, forms, buttons, etc.



Advantages of Bootstrap

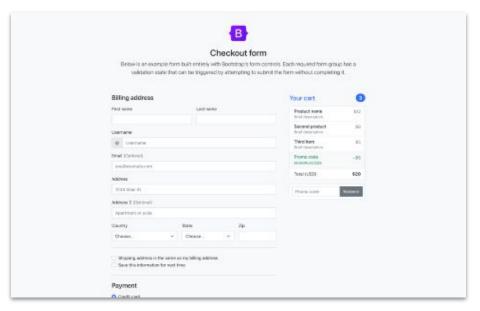
- Incredibly easy to use / thorough <u>documentation</u>
- Magically responsive!
- Many customizable components



Examples







12,000,000

Websites use Bootstrap today!







(intel®) Bloomberg

Why Grids

Organization

bring order to a layout allowing users to quickly view information

Consistency

provides consistent and aesthetic visuals for the user



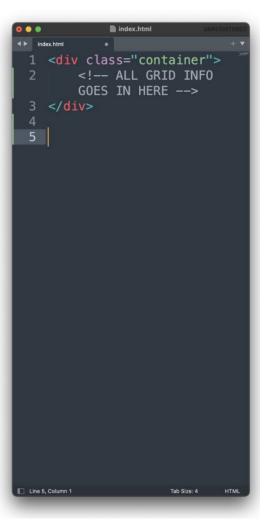
Bootstrap Grids

```
→ Container (fluid or fixed) <div class="container">
```

```
→ Rows <div class="row">
```

→ Columns (12 col system)

Container



Container

| Row | | | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Col Col | Col |
| 1 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Row

= 12

= 12

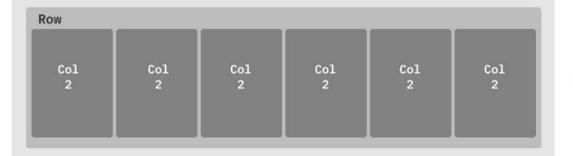
```
index.html
. .

♦ ► Index.html

  1 <div class="container">
         <!-- ALL GRID INFO GOES
         IN HERE -->
         <div class="row">
             <div class="col-1">
             <div class="col-1">
         <div class="row">
Line 23, Column 11
                          Tab Size: 4
```

Container





```
= 12
```

= 12

. . .

♦ ▶ index.html

```
<div class="col-1" />
            <div class="col-1" />
        <div class="row">
            <div class="col-2" />
            <div class="col-2" />
28
Line 28, Column 1
                          Tab Size: 4
```

index.html

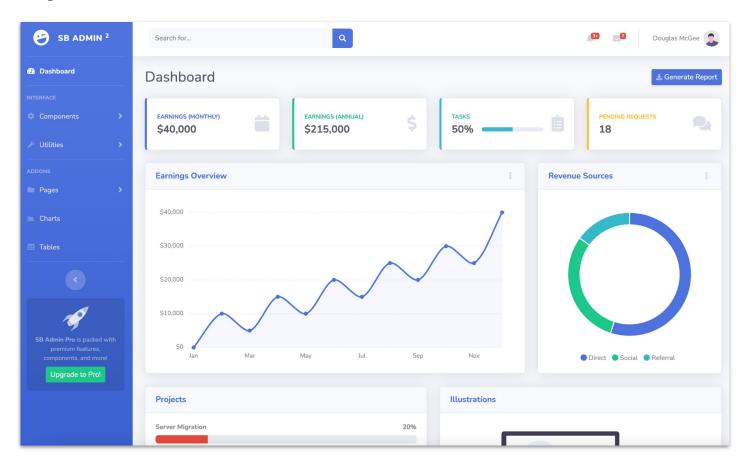
<div class="row">

<!-- ALL GRID INFO GOES IN

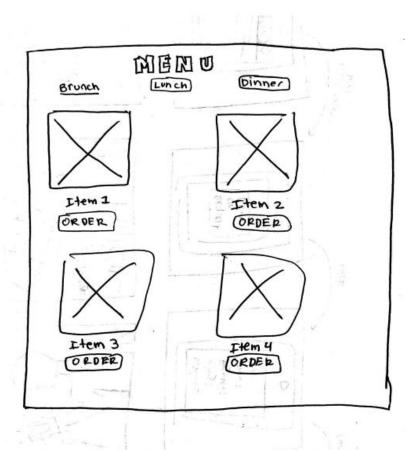
1 <div class="container">

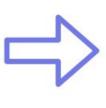
| col-4 | col-8 | | |
|-------|-------|-------|--|
| col-9 | | col-3 | |
| col-5 | col-7 | | |

Let's Explore!



Wireframes













Brunch

Pancakes





Avocado Toast Order Nov



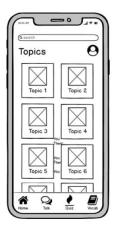
Potatoes

Go from this...

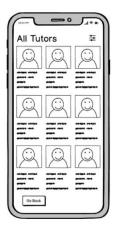
....to this!

Wireframe Features

- usually includes logos, search fields, titles & headers
- can use shading to represent selected items
- 2D depictions avoid complex interactions like drop-downs or hover states

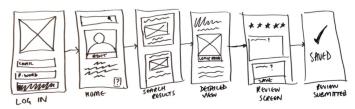














starting point of design, useful for mapping user flow and app navigation (pen & paper)



High-fidelity

includes relevant components and
pixel-specific layouts
(figma, adobe illustrator, etc.)

Practice! https://tinyurl.com/y7bd7dfh





Drop Your Submissions Here!

<Link>

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