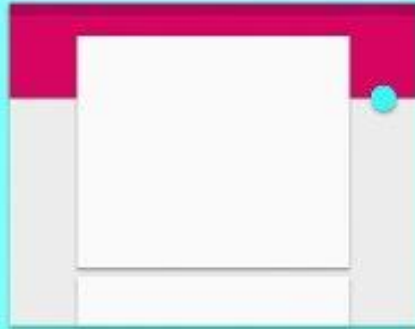


Materialize / Bootstrap CSS Frameworks

Devpoint Labs - Jake Sorce /
Dave Jungst

Materialize - Intro Video



What is Materialize / Bootstrap

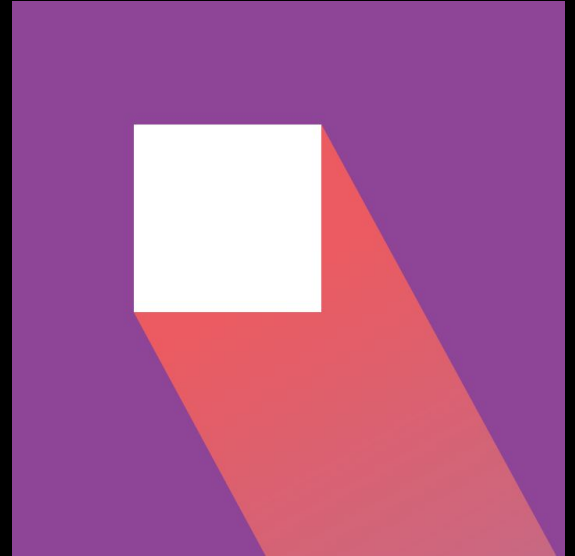
Materialize / Bootstrap are front end CSS / JS frameworks.

Materialize / Bootstrap adds a bunch of helper CSS / JS that we can take advantage of to speed up the development of our front end look and feel.

Material Design

Link:

<https://www.google.com/design/spec/material-design/introduction.html>



Materialize

- Speeds up development
- User Experience Focused
- Easy to work with

Materialize CSS - Basic

- Color
- Grid
- Helpers
- Media
- Table

Materialize CSS - Color

Colors are classes that are added onto elements. Each of these colors is defined with a base color class and an optional lighten or darken class.

`<div class="teal">` = Background color of the div will be base teal color

`<div class="blue-text">` = Text inside of this div will be base blue color

`<div class="yellow darken-3">` = Background color of the div will be base yellow darkened 3 shades

Materialize CSS - Grid

- Container
 - Documentation Example
- The Grid is how we create responsive layouts (*Think mobile first!*)
- The Materialize grid system is a 12 column grid
- Columns live inside rows
- Columns can be offset

Materialize CSS - Grid Basic Cont...

```
<div class="row">  
  <div class="col s12 blue"></div>  
  <div class="col s2 green"></div>  
</div>
```



Columns will flow into the next row if
you overflow the 12 column layout

Materialize CSS - Grid Basic Cont...

The examples we've seen so far have all been using the 's' after the col class. This 's' stands for small and unless specified will always take up that much room. Here is how to specify for different screen sizes.

	Mobile Devices <= 600px	Tablet Devices <= 992px	Desktop Devices > 992px
Class Prefix	<code>.s</code>	<code>.m</code>	<code>.l</code>
Container Width	85%	85%	70%
Number of Columns	12	12	12

Materialize CSS - Grid Offset

To offset, simply add offset-s2 to the class where s signifies the screen class-prefix (s = small, m = medium, l = large) and the number after is the number of columns you want to offset by.

```
<div class="row">  
  <div class="col s6 offset-s6 center-align purple-text">Offset By 6</div>  
</div>
```

Offset By 6

Materialize CSS - Helpers

- Alignment
 - Vertical Align
 - Text Align
 - Quick Floats
- Hiding Content
- Formatting
 - Truncation
 - Hover

Materialize Helpers - Alignment

Vertical Align

```
<div class="valign-wrapper">  
  <h5 class="valign">This should be vertically aligned</h5>  
</div>
```

This should be vertically aligned

Text Align

- left-align
 - `<h5 class="left-align">This should be left aligned</h5>`
- right-align
 - `<h5 class="right-align">This should be right aligned</h5>`
- center-align
 - `<h5 class="center-align">This should be center aligned</h5>`

This should be left aligned

This should be right aligned

This should be center aligned

Quick Floats

```
<div class="left">...</div>
```

```
<div class="right">...</div>
```

Materialize Helpers - Hiding Content

	Screen Range
<code>.hide</code>	Hidden for all Devices
<code>.hide-on-small-only</code>	Hidden for Mobile Only
<code>.hide-on-med-only</code>	Hidden for Tablet Only
<code>.hide-on-med-and-down</code>	Hidden for Tablet and Below
<code>.hide-on-med-and-up</code>	Hidden for Tablet and Above
<code>.hide-on-large-only</code>	Hidden for Desktop Only

Materialize Helpers - Formatting

- Truncation
 - To truncate long lines of text in an ellipsis, add the class truncate to the tag which contains the text.
- Hover
 - The hoverable is a hover class that adds an animation for box shadow as seen below. It can be used on most elements, but meant for use on cards

Materialize CSS - Media

- Images
 - Responsive Images
 - Circular images
- Videos
 - Responsive Embeds
 - Responsive Videos

Materialize CSS - Media Cont...

Images - Responsive

- To make images resize responsively to page width, you can add the class `responsive-img` to your image tag. It will now have a `max-width: 100%` and `height:auto`.

Images - Circular

- To make images appear circular, simply add `class="circle"` to them



This is a square image. Add the "circle" class to it to make it appear circular.

Materialize CSS - Media Cont...

Videos

- Responsive Embeds
 - To make your embeds responsive, merely wrap them with a containing div which has the class video-container
- Responsive Videos
 - To make your HTML5 Videos responsive just add the class responsive-video to the video tag.

Materialize CSS - Table

- Borderless Table
 - Tables are borderless by default.
- Bordered Table
 - Add `class="bordered"` to the table tag for a bordered table
- Striped Table
 - Add `class="striped"` to the table tag for a striped table
- Highlight Table
 - Add `class="highlight"` to the table tag for a highlight table
- Centered Table
 - Add `class="centered"` to the table tag to center align all the text in the table
- Responsive Table
 - Add `class="responsive-table"` to the table tag to make the table horizontally scrollable on smaller screen widths.

Materialize Components - Basic

- Buttons
- Breadcrumbs
- Cards
- Forms
- Icons
- Navbar

Materialize Components - Buttons

```
<a class="waves-effect waves-light btn">Stuff</a>
```

```
<a class="waves-effect waves-light btn"><i class="material-icons left">cloud</i>button</a>
```

```
<a class="waves-effect waves-light btn"><i class="material-icons right">cloud</i>button</a>
```

BUTTON



BUTTON

BUTTON



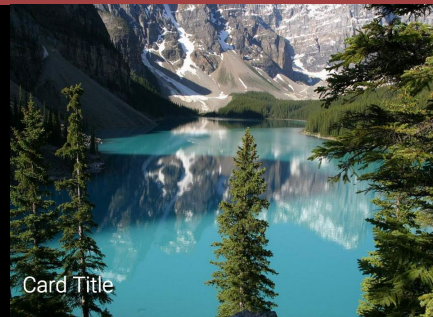
Materialize Components - Breadcrumbs

```
<nav>
  <div class="nav-wrapper">
    <div class="col s12">
      <a href="#" class="breadcrumb">First</a>
      <a href="#" class="breadcrumb">Second</a>
      <a href="#" class="breadcrumb">Third</a>
    </div>
  </div>
</nav>
```

First > Second > Third

Materialize Components - Cards

```
<div class="row">
  <div class="col s12 m6">
    <div class="card blue-grey darken-1">
      <div class="card-content white-text">
        <span class="card-title">Card Title</span>
        <p>I am a very simple card. I am good at containing small bits of information.
        I am convenient because I require little markup to use effectively.</p>
      </div>
      <div class="card-action">
        <a href="#">This is a link</a>
        <a href="#">This is a link</a>
      </div>
    </div>
  </div>
</div>
```



Card Title

I am a very simple card. I am good at containing small bits of information. I am convenient because I require little markup to use effectively.

THIS IS A LINK

Card Title

I am a very simple card. I am good at containing small bits of information. I am convenient because I require little markup to use effectively.

THIS IS A LINK THIS IS A LINK

Materialize Components - Forms

Live examples

Materialize Components - Icons

Live examples

Materialize Components - Navbar

Logo

Sass

Components

JavaScript

```
<nav>
  <div class="nav-wrapper">
    <a href="#" class="brand-logo">Logo</a>
    <ul id="nav-mobile" class="right hide-on-med-and-down">
      <li><a href="sass.html">Sass</a></li>
      <li><a href="badges.html">Components</a></li>
      <li><a href="collapsible.html">JavaScript</a></li>
    </ul>
  </div>
</nav>
```

*Sidenote

We will cover the JavaScript section of Materialize and Bootstrap after Week 5 when you know more about how JavaScript works, and the correct places to put the JavaScript code.

Materialize - Gotchas

Always to remember to:

```
<!--Import Google Icon Font-->
```

```
<link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
```

```
<!--Let browser know website is optimized for mobile-->
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0"/>
```

When using a select add the class “browser-default” because we don’t know JavaScript yet

Materialize - References

- Materialize Introduction
 - <https://www.google.com/design/spec/material-design/introduction.html#>
- Materialize Documentation
 - <http://materializecss.com/>
- Materialize Gem Documentation
 - <https://github.com/mkhairi/materialize-sass>

Bootstrap 3 - References

- Bootstrap Documentation
 - <http://getbootstrap.com/>
- Bootstrap Gem Documentation
 - <https://github.com/seyhunak/twitter-bootstrap-rails>