# BootStrap



#### **Media Queries**

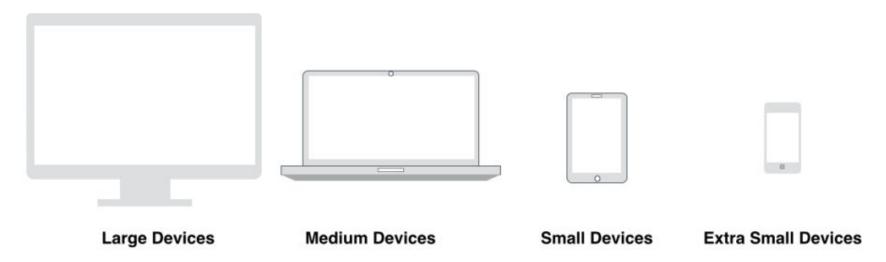
CSS syntax to set styles based on conditions such as browser width

Most useful: max-width, min-width

```
15
     @media (max-width: 700px) {
16
         /* this CSS only runs
17
         if the screen size is
18
         under 700px*/
19
         h1{
20
              font-size: 20pt;
21
22
23
         imq{
24
              display: none;
25
26
```

Using media queries, you can adjust the page based on the screen size

After learning about bootstrap, we will see how we can use this





Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

# **Bootstrap Library**

- A large set of CSS classes with default behavior.
  - Basically a large pre-written CSS file

- Why use it?
  - Modern styling
  - Mobile optimization

See the non-compressed css file here: http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.css

```
/*!
 * Bootstrap v3.3.6 (http://getbootstrap.com)
 * Copyright 2011-2015 Twitter, Inc.
 * Licensed under MIT
(https://github.com/twbs/bootstrap/blob/master/LICENSE)
 *//*! normalize.css v3.0.3 | MIT License
qithub.com/necolas/normalize.css */html{font-family:sans-serif;-
webkit-text-size-adjust:100%;-ms-text-size-
adjust:100%}body{margin:0}article,aside,details,figcaption,figure,foo
ter, header, hgroup, main, menu, nav, section, summary {display:block} audio, c
anvas, progress, video { display: inline-block; vertical-
align:baseline}audio:not([controls]){display:none;height:0}
[hidden],template{display:none}a{background-
color:transparent}a:active,a:hover{outline:0}abbr[title]{border-
bottom:1px dotted}b,strong{font-weight:700}dfn{font-
style:italic}h1{margin:.67em 0;font-
size:2em}mark{color:#000;background:#ff0}small{font-
size:80%}sub, sup{position:relative; font-size:75%; line-
height:0; vertical-
align:baseline}sup{top:-.5em}sub{bottom:-.25em}img{border:0}svg:not(:
root) {overflow: hidden} figure {margin: 1em 40px} hr{height: 0; -webkit-box-
sizing:content-box;-moz-box-sizing:content-box;box-sizing:content-
box}pre{overflow:auto}code,kbd,pre,samp{font-
family:monospace, monospace; font-
size:lem}button,input,optgroup,select,textarea{margin:0;font:inherit;
color:inherit}button{overflow:visible}button,select{text-
transform: none } button, html
input[type=button],input[type=reset],input[type=submit]{-webkit-
appearance:button;cursor:pointer}button[disabled],html
input[disabled]{cursor:default}button::-moz-focus-inner,input::-moz-
focus-inner{padding:0;border:0}input{line-
height:normal}input[type=checkbox],input[type=radio]{-webkit-box-
sizing:border-box;-moz-box-sizing:border-box;box-sizing:border-
box;padding:0}input[type=number]::-webkit-inner-spin-
button, input[type=number]::-webkit-outer-spin-
button{height:auto}input[type=search]{-webkit-box-sizing:content-
box;-moz-box-sizing:content-box;box-sizing:content-box;-webkit-
annoarango.toytfioldlinnut[tumo-goargh].. wobbit goargh gango]
```

#### Just adding the link to the bootstrap file will start improving the page

Page without bootstrap

#### **Test**

- Dog 1
- Dog 2
- Cat

submit

With the link to bootstrap added

#### Test

- Dog 1
- Dog 2
- Cat

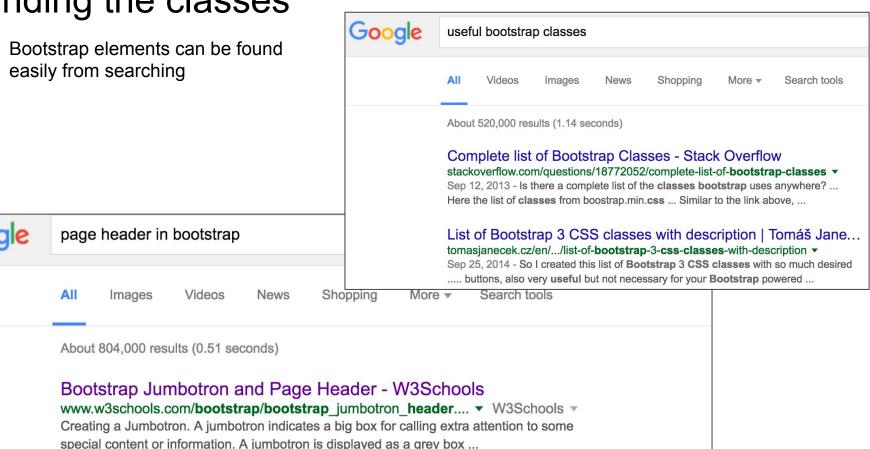
submit

# Using bootstrap classes

If the css file is linked, then you can apply any of the bootstrap classes

Button with the Button without any bootstrap class "btn" classes added submit submit <button type="button" class="btn">submit</button>

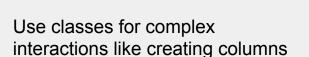
# Finding the classes



Create elements that automatically change with screen size



**Bootstrap** 



#### **Heading**

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

View details »

#### **Heading**

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

View details »

#### **Heading**

Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum id ligula porta felis euismod semper. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa.

View details »

## Link to the Bootstrap library

Bootstrap online link

```
<link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.
6/css/bootstrap.css">
<link rel="stylesheet" type="text/css" href="main.css">
```

Put your own CSS link after, so you can overwrite styles if necessary

## Creating a Header

Bootstrap offers classes for easily improving the styles of single items

"jumbotron" and "page-header" are two useful classes for headers

# The Dawg Coffee



### Bootstrap containers

Wrapping things in divs with the class "container" will give some nice default padding/margin to the element

## Creating a NavBar

- Create a <nav> element
- Create a list of <a> tags to represent the buttons
- Apply classes like so:

- navbar-default: light background
- navbar-inverse: dark background

#### The Dawg Coffee

Cat

Dog 2

Dog 1

## Bootstrap 12 Column System

- -Bootstrap interprets the page as divided into 12 sections
- -When creating a column, you need to know how many of the 12 sections you want it to take up

.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1	.col- md- 1
.col-md-8								.col-md-4			
.col-md-4 .col-md-4								.col-md-4			
.col-md-6						.col-mo	d-6				

# Bootstrap 12 Column System

In order to divide the page into 3 columns, we need to make each divide take up 4 of the 12 sections

4 columns

4 columns

4 columns

#### **Heading**

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

View details »

#### **Heading**

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

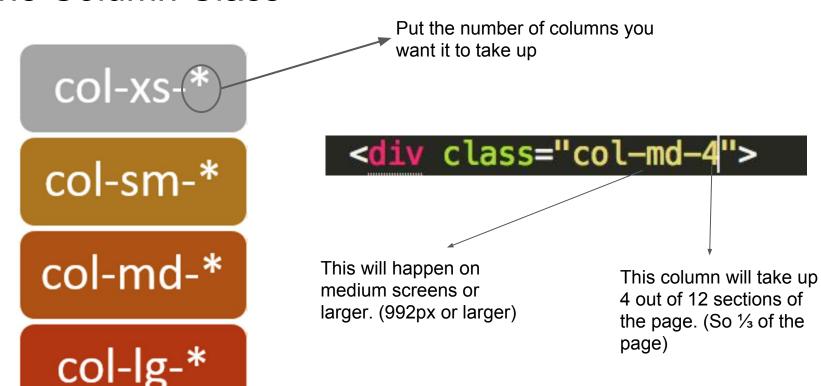
View details »

#### Heading

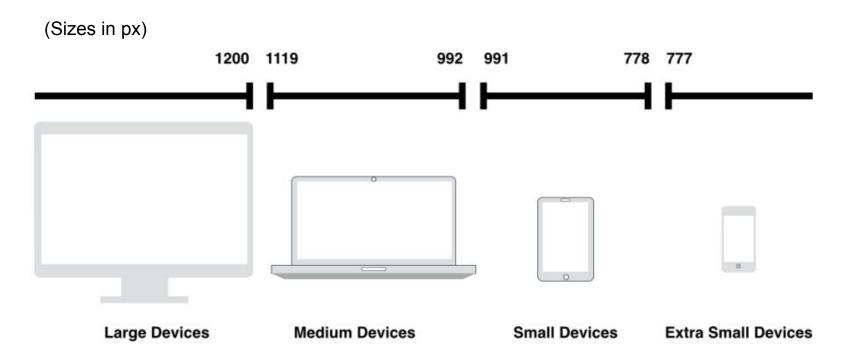
Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum id ligula porta felis euismod semper. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa.

View details »

#### The Column Class



## Bootstrap screen sizes: Ig, md, sm, xs



#### Have divs show in 3 columns

Place columns inside of a div with the class "row"

```
<div class="row">
    <div class="col-md-4">
        <img id="dog_1" src="img/dog1.jpg" alt="dog" />
    </div>
    <div class="col-md-4">
        <img id="dog_2" src="img/dog2.jpg" alt="dog" />
    </div>
    <div class="col-md-4">
        <img id="cat" src="img/cat.jpg" alt="cat" />
    </div>
```

## Responsive widths for different screen sizes

#### <div class="col-md-4 col-sm-6 col-xs-12">

This will take up the whole browser width on extra small devices, half the screen on small devices, and  $\frac{1}{3}$  the screen on medium devices or larger

# Responsive widths in context

```
<div class="container">
    <div class="row">
        <div class="col-md-4 col-sm-6 col-xs-12">
            <imq id="dog_1" src="img/dog1.jpg" alt="dog" />
        </div>
        <div class="col-md-4 col-sm-6 col-xs-12">
            <img id="dog_2" src="img/dog2.jpg" alt="dog" />
        </div>
        <div class="col-md-4 col-sm-6 col-xs-12">
            <img id="cat" src="img/cat.jpg" alt="cat" />
        </div>
    </div>
```

# Why did we talk about media queries?

Since Bootstrap classes can change based on screen sizes, it is helpful to know how to write our own styles based on screen size.

```
15  @media (max-width: 992px) {
16     /* this CSS only runs
17     if the screen size is
18     under 992px*/
19     h1{
20        font-size: 20pt;
21     }
22
23 }
```