

# **Bootstrap**

## The Complete Web Developer in 2018

The Complete Web Developer in 2018  
Zero to Mastery  
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## Bootstrap

- Bootstrap consists of CSS and JavaScript that we build on top of (and it's responsive!)
- Alternative: Foundation (not as popular)

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Navbar

- Here we can copy and paste the code to create a quick navbar. It references the CSS styles we downloaded from Bootstrap

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Card

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Dropdown

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Modal (Live Demo)

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Buttons

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Jumbotron

[getbootstrap.com](http://getbootstrap.com) > Getting Started > Components > Navbar

See how “Dropdown” and “Modal” use JavaScript to perform actions.

We add our own custom CSS on top of the Bootstrap to make a very unique, customized website.

Bootstrap: people love it so much because it's fully responsive!!!

## How to Get Bootstrap

If we go >> “Download” >> “Compiled CSS and JS”, we get a download... includes a bunch of stuff, including the .min files, which are “minified” into one long line of CSS

We can take these downloaded files and add them to our project to use them OR....

ANOTHER WAY that’s probably better...

If we go >> “Get Started” >> “Quick Start”

CDN - content delivery network

They are hosting the Bootstrap CSS files and JS files for us!

Copy these lines into our HTML file.

- CSS to beginning of <head>
  - JS to end of <body> so our website loaded first and then the scripts get downloaded
- >> If we put these at the top you'll have to wait for all of JavaScript to load before a user can see your website.

## Add Custom Styles on top of Bootstrap

Example: from now on I want 'btn btn-danger' to be orange...

Create a new 'style.css' file.

In HTML file, add link to our own stylesheet below link to Bootstrap CSS which means that

according to cascading style sheets, our styles will override anything that might match the Bootstrap styles.

Our HTML file:

```
<head>
  <title>Joe Rogan Interviews Elon Musk</title>
  <!-- from Bootstrap website -->
  <link rel="stylesheet" href="https://
stackpath.bootstrapcdn.com/bootstrap/4.2.1/css/
bootstrap.min.css" integrity="sha384-
GJzZqFGwb1QTTN6wy59ffF1BuGJpLSa9DkKMP0DgiMDm4iYMj
70gZWKYbl706tWS" crossorigin="anonymous">
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
```

Our style.css CSS file:

```
.btn-danger {
  background-color: orange;
}
```

## Bootstrap 4 Grid

[getbootstrap.com](https://getbootstrap.com) > Getting Started > Layout

[getbootstrap.com](https://getbootstrap.com) > Getting Started > Layout > Grid

[getbootstrap.com](https://getbootstrap.com) > Getting Started > Layout > Grid > Auto-layout columns > Equal-width

Bootstrap used to create very responsive websites using the ideas of **columns**

```
<div class="container">
  <div class="row">
    <div class="col">
      1 of 2
    </div>
    <div class="col">
      2 of 2
    </div>
  </div>
</div>
```

It is a twelve column system! Numbers add up to 12 to span the full width of the screen

## Index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Joe Rogan interviews Elon Musk</title>

  <!-- from Bootstrap website -->
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.2.1/css/bootstrap.min.css" integrity="sha384-
GJzZqFGwb1QTTN6wy59ffF1BuGJpLSa9DkKMP0DgiMDm4iYmJ70gZWKYbI706tWS"
crossorigin="anonymous">

  <!-- my style sheet -->
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>

<!-- Bootstrap Layout Grid (Column) -->

<div class="container">
  <div class="row">
    <div class="col">
      1 of 2
    </div>
    <div class="col">
      2 of 2
    </div>
    <div class="col">
      Extra
    </div>
  </div>
</div>

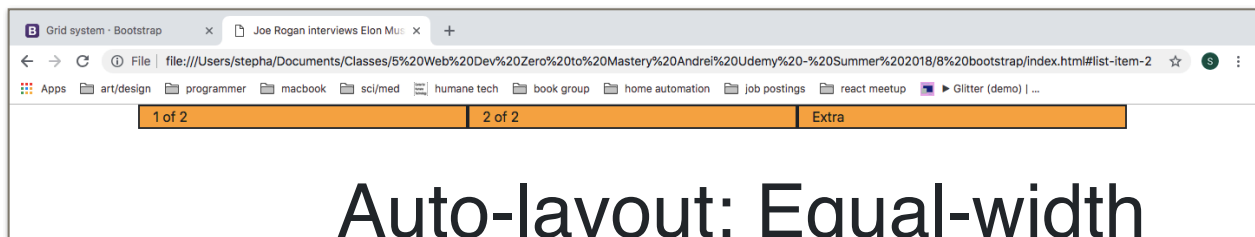
<!-- end of Bootstrap Layout Grid (Column) -->

<!-- from Bootstrap website for end of <body> -->
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/
X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js/1.14.6/umd/popper.min.js"
integrity="sha384-wHAiFfRIMFy6i5SRaxvfOCifBUQy1xHdJ/
yoi7FRNXMRBu5WHdZYu1hA6ZOblgut" crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/js/bootstrap.min.js"
integrity="sha384-B0UglyR+jN6CkvvICOB2joaf5I4l3gm9GU6Hc1og6Ls7i6U/
mkkaduKaBhlAXv9k" crossorigin="anonymous"></script>
</body>

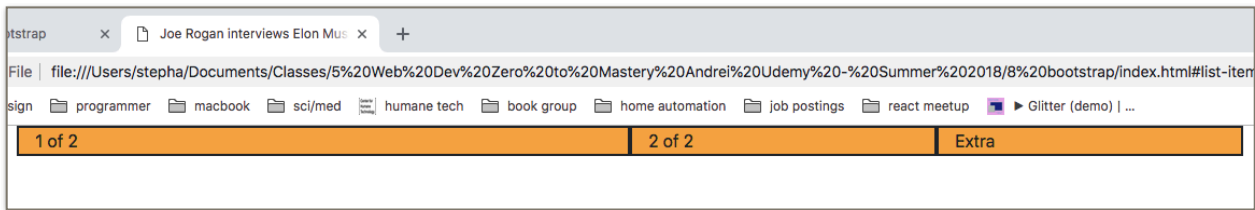
</html>
```

## style.css

```
.col {
  background-color: orange;
  border: 2px solid;
}
```

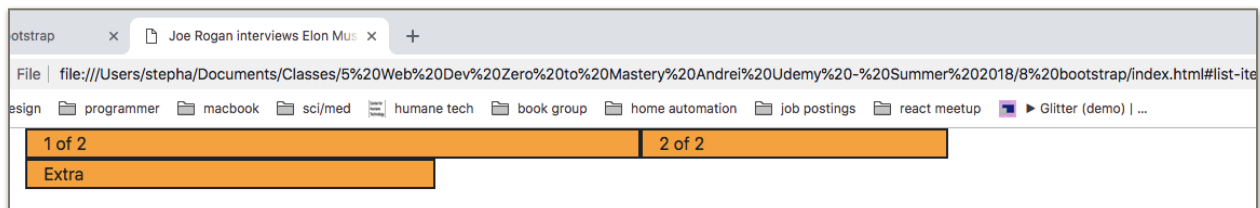


# Auto-layout: Equal-width



```
<div class="container">
  <div class="row">
    <div class="col col-sm-6">
      1 of 2
    </div>
    <div class="col col-sm-3">
      2 of 2
    </div>
    <div class="col col-sm-3">
      Extra
    </div>
  </div>
</div>
```

Adds up to 12, so spans the full width



```
<div class="container">
  <div class="row">
    <div class="col col-sm-6">
      1 of 2
    </div>
    <div class="col col-sm-3">
      2 of 2
    </div>
    <div class="col col-sm-4">
      Extra
    </div>
  </div>
</div>
```

Adds up to 13, so breaks  
(It's a 12 column system!)

# Responsive Bootstrap

See how aspects of the Bootstrap grid system work across multiple devices with a handy table.

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

Using these size prefixes, we can choose how columns are rendered on small screens vs medium vs large

To test, resize browser window to smaller and larger sizes to see how it renders.

Make sure you include this in html file for mobile responsiveness:

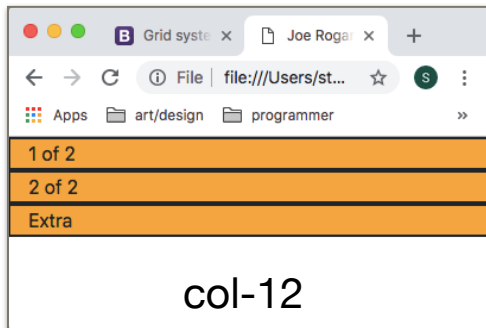
```
<head>
```

```
<!-- for Bootstrap responsive features -->
```

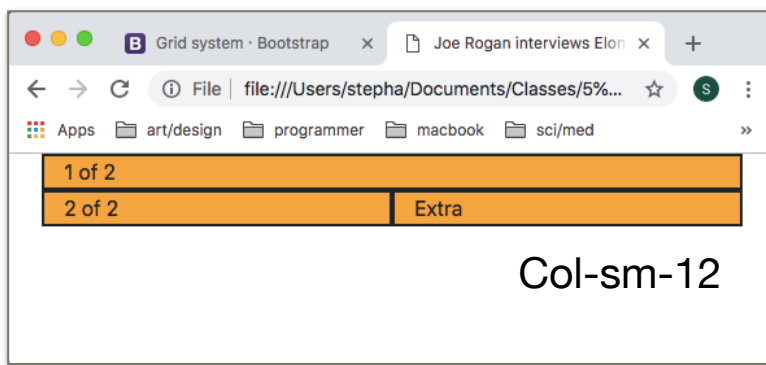
```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
</head>
```



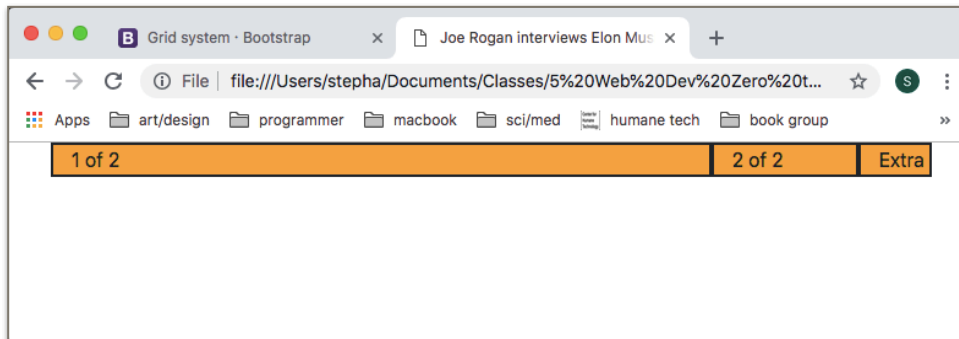


```
<div class="container">
  <div class="row">
    <div class="col col-12 col-sm-12 col-md-9 col-lg-4">
      1 of 2
    </div>
    <div class="col col-12 col-sm-6 col-md-2 col-lg-4">
      2 of 2
    </div>
    <div class="col col-12 col-sm-6 col-md-1 col-lg-4">
      Extra
    </div>
  </div>
</div>
```



col-sm-6

col-sm-6



col-lg-4

col-lg-4

Note:

Lectures completed:

63. Bootstrap Introduction	03:59
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64. Bootstrap 4	08:51
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65. Bootstrap 4 Grid	05:18
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