

# Bootstrap 4 for the Developer

---



**Mario Macari**

PROFESSOR, DEVELOPER & ARTIST

[www.mariomacari.com](http://www.mariomacari.com)



# Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

[Get started](#)[Download](#)

Currently v4.1.1





## Installation

Include Bootstrap's source Sass and JavaScript files via npm, Composer or Meteor. Package managed installs don't include documentation, but do include our build system and readme.

```
$ npm install bootstrap
```

```
$ gem install bootstrap -v 4.1.1
```

[Read installation docs](#)

## BootstrapCDN

When you only need to include Bootstrap's compiled CSS or JS, you can use [BootstrapCDN](#).

### CSS only

```
<link rel="stylesheet" href="https://st
```

### JS, Popper.js, and jQuery

```
<script src="https://code.jquery.com/jc  
<script src="https://cdnjs.cloudflare.c  
<script src="https://stackpath.bootstra
```

[Explore the docs](#)

## Official Themes

Take Bootstrap 4 to the next level with official premium themes—toolkits built on Bootstrap with new components and plugins, docs, and build tools.

[Browse themes](#)



Search...

## Getting started

[Introduction](#)[Download](#)[Contents](#)[Browsers & devices](#)[JavaScript](#)[Theming](#)[Build tools](#)[Webpack](#)[Accessibility](#)[Layout](#)[Content](#)[Components](#)[Utilities](#)[Extend](#)[Migration](#)

# Download

Download Bootstrap to get the compiled CSS and JavaScript, source code, or include it with your favorite package managers like npm, RubyGems, and more.



Easily scale your web apps, in seconds. Sign up with \$100 infrastructure credit.  
ads via Carbon

## Compiled CSS and JS

Download ready-to-use compiled code for **Bootstrap v4.1.1** to easily drop into your project, which includes:

- Compiled and minified CSS bundles (see [CSS files comparison](#))
- Compiled and minified JavaScript plugins

[Compiled CSS and JS](#)[Source files](#)[BootstrapCDN](#)[Package managers](#)[npm](#)[RubyGems](#)[Composer](#)[NuGet](#)



Search...

Getting started

Introduction

Download

Contents

Browsers &amp; devices

JavaScript

Theming

Build tools

Webpack

Accessibility

Layout

Content

Components

Utilities

Extend

Migration

# Package managers

Pull in Bootstrap's **source files** into nearly any project with some of the most popular package managers. No matter the package manager, Bootstrap will **require a Sass compiler and Autoprefixer** for a setup that matches our official compiled versions.

## npm

Install Bootstrap in your Node.js powered apps with [the npm package](#):

```
$ npm install bootstrap
```

Copy

`require('bootstrap')` will load all of Bootstrap's jQuery plugins onto the `jQuery` object. The `bootstrap` module itself does not export anything. You can manually load Bootstrap's jQuery plugins individually by loading the `/js/*.js` files under the package's top-level directory.

Bootstrap's `package.json` contains some additional metadata under the following keys:

- `sass` - path to Bootstrap's main [Sass](#) source file
- `style` - path to Bootstrap's non-minified CSS that's been precompiled using the default settings (no customization)

Compiled CSS and JS

Source files

BootstrapCDN

Package managers

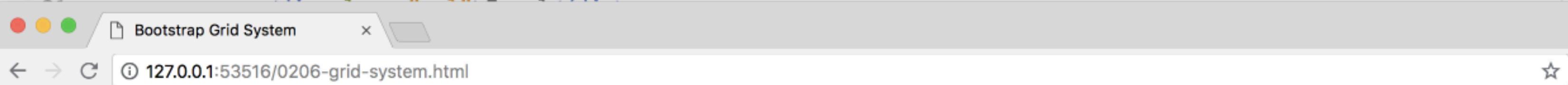
npm

RubyGems

Composer

NuGet

```
17
18      </style>
19
20    </head>
21 ▼  <body>
22 ▼    <section class="container">
23 ▼      <section class="row">
24        <div class="col">Equal</div>
25        <div class="col">Equal</div>
26        <div class="col">Equal</div>
27        <div class="col">Equal</div>
28        <div class="col">Equal</div>
29        <div class="col">Equal</div>
30        <div class="col">Equal</div>
```



Equal Equal

Working File

```
43 ▼      #mainNav .navbar-nav .nav-item .nav-link{  
44          padding: 1.1em 1em !important;  
45      }  
46 ▼      #mainNav .navbar-shrink{  
47          padding-top:0;  
48          padding-bottom: 0;  
49          background-color: black;  
50      }  
51 ▼      #mainNav .navbar-shrink .navbar-brand{  
52          font-size: 1.25em;  
53          padding: 12px 0;  
54      }  
55      }  
56      </style>  
57  </head>  
58 ▼  <body id="top">  
59 ▼  <nav class="navbar navbar-expand-lg navbar-dark fixed-top" id="mainNav">  
60      <a href="#" class="navbar-brand" data-bbox="100 100 150 150">
```

Line 56, Column 13 — 103 Lines

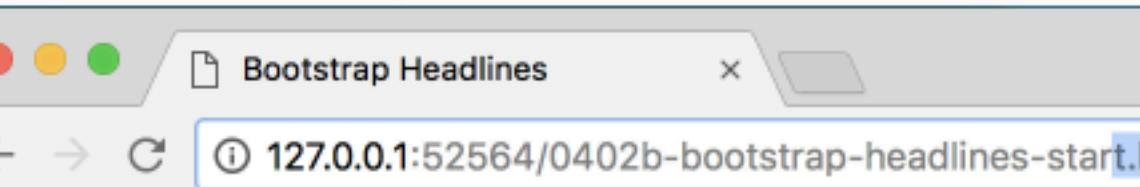
INS UTF-8 ▾ HTML ▾ Spaces: 4

## Navbar

DROPDOWN ▾ LINK1 LINK2 LINK3 LINK4 LINK5



```
0402b-bootstrap-headlines-start.html
8 <!-- Bootstrap CSS -->
9 <link rel="stylesheet"
10 href="https://stackpath.bootstrapcdn.com/bootstrap/min.css" integrity="WskhaSGFgHYWDcbwN70/dfYBj47jktB" crossorigin="anonymous"
11
12 <title>Bootstrap Headlines</title>
13 </head>
14 <body>
15 <div class="container">
16
17 <h1 class="display-1">Man Bites Dog</h1>
18 <h1 class="display-2">Man Bites Dog</h1>
19 <h1 class="display-3">Man Bites Dog</h1>
20 <h1 class="display-4">Man Bites Dog</h1>
21
22 </div>
23 <!-- Optional JavaScript -->
24 <!-- jQuery first, then Popper.js, then Bootstrap JS -->
25 <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="q8i/X+965Dz00rT7abK41JStQIAqizo" crossorigin="anonymous"></script>
26 <script src="https://cdn.jsdelivr.net/npm/popper.min.js" integrity="ZMP7rVo3mIykV+2+9J3UJ46jBk0Wm49" crossorigin="anonymous"></script>
```



# Man Bites Dog

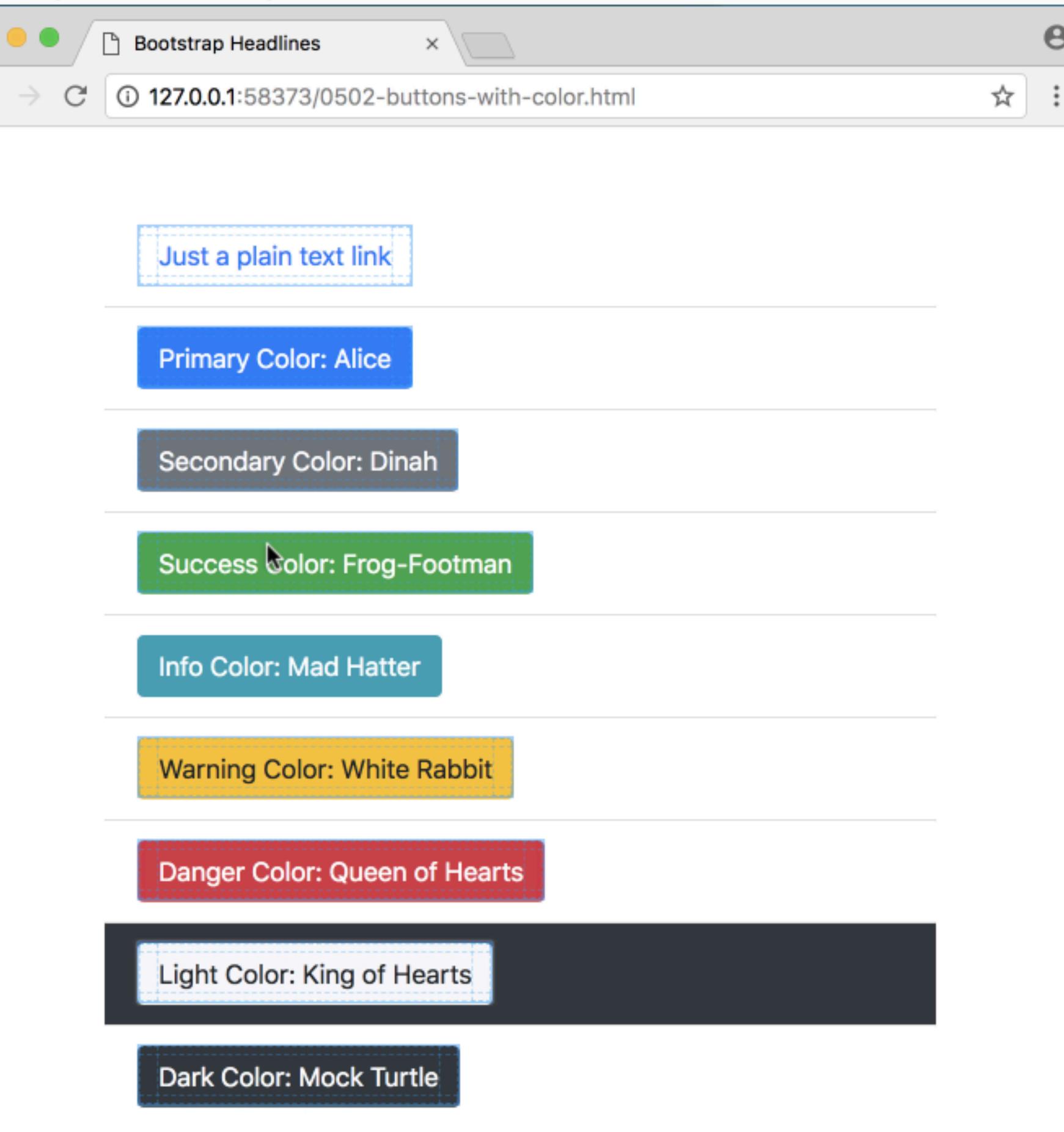
# Man Bites Dog

---

# Man Bites Dog

# Man Bites Dog

```
0502-buttons-with-color.html
crossorigin="anonymous">
10      <title>Bootstrap Headline</title>
11      <head>
12      </head>
13  <body>
14
15  <div class="container">
16  <div class="mt-5">
17
18  <ul class="list-group">
19
20 <li class="list-group-item">
21  <button type="button" class="btn btn-link">Just a plain text link</button>
22 </li>
23 <li class="list-group-item">
24  <button type="button" class="btn btn-primary">Primary Color: Alice</button>
25 </li>
26 <li class="list-group-item">
27  <button type="button" class="btn btn-secondary">Secondary Color: Dinah</button>
28 </li>
29 <li class="list-group-item">
30  <button type="button" class="btn btn-success">Success Color: Frog-Footman</button>
31 </li>
32 <li class="list-group-item">
33  <button type="button" class="btn btn-info">Info Color: Mad Hatter</button>
34 </li>
35 <li class="list-group-item">
```





## The White Rabbit

"The Duchess! The Duchess! Oh my dear paws! Oh my fur and whiskers! She'll get executed, as sure as ferrets are ferrets!"

[Read Chapter IV](#)



## The Gryphon

"That's enough about lessons," the Gryphon interrupted in a very decided tone: 'tell her something about the games now.'

[Read Chapter IX](#)

"My dear, here we must run as fast as we can, just to stay in place. And if you wish to go anywhere you must run twice as fast as that."

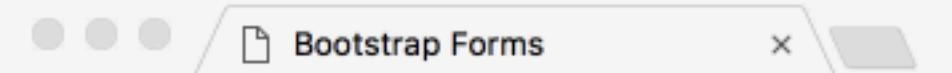
— The Red Queen in *Through the Looking-Glass*

## The King of Hearts

"Begin at the beginning," the King said, very gravely, "and go on till you come to the end: then stop."

from Chapter XI in *Alice in Wonderland*





Bootstrap Forms

127.0.0.1:64635/0706-bootstrap-forms.html



# Validation Classes

The Queen of Hearts

The King of Hearts

Off with your head.



• 0706-bootstrap-forms.html (0707-start) — Brackets

```
25          </div>
26
27      <div class="form-group">
28          <label for="username">The King of Hearts</label>
29          <input type="text" id="king" class="form-control is-invalid">
30          <div class="invalid-feedback">
31              Off with your head.
32          </div>
33      </div>
34
35  </form>
36
37
38
39
```



Working Files



25

&lt;/div&gt;

26

27

&lt;div class="form-group"&gt;

28

&lt;label for="username"&gt;The King of Hearts&lt;/label&gt;

29

&lt;input type="text" id="king" class="form-control is-invalid"&gt;

30

&lt;div class="invalid-feedback"&gt;

Off with your head.

31

&lt;/div&gt;

32

&lt;/div&gt;

33

&lt;/div&gt;

34

&lt;/form&gt;

35

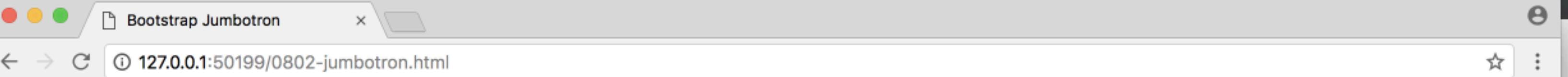
36

37

38

39





# See Jumbo the Elephant!

P. T. Barnum presents the largest living quadruped on Earth.

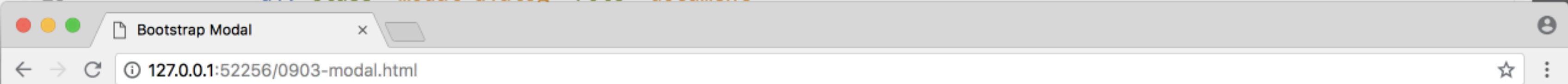
# See Jumbo the Elephant!

P. T. Barnum presents the largest living quadruped on Earth. The mighty king of all the beasts.

This towering monster among all the hugest elephants is really a historic mammoth. A theme of absorbing interest to many hundred millions at Phineas Taylor Barnum's greatest show on earth.

[Buy Tickets Here](#)

```
14 <body>
15
16
17 <div class="container py-5">
18
19 <button type="button fade" class="btn btn-primary" data-toggle="modal" data-target="#myModal">
20     How Long Is Forever?
21 </button>
22
23 <div class="modal" id="myModal" tabindex="-1" role="dialog" aria-labelledby="myLabel" aria-
24     hidden="true">
25     <div class="modal-dialog" role="document">
```



How Long Is Forever?

The answer is...

"Sometimes just one second."

-The White Rabbit

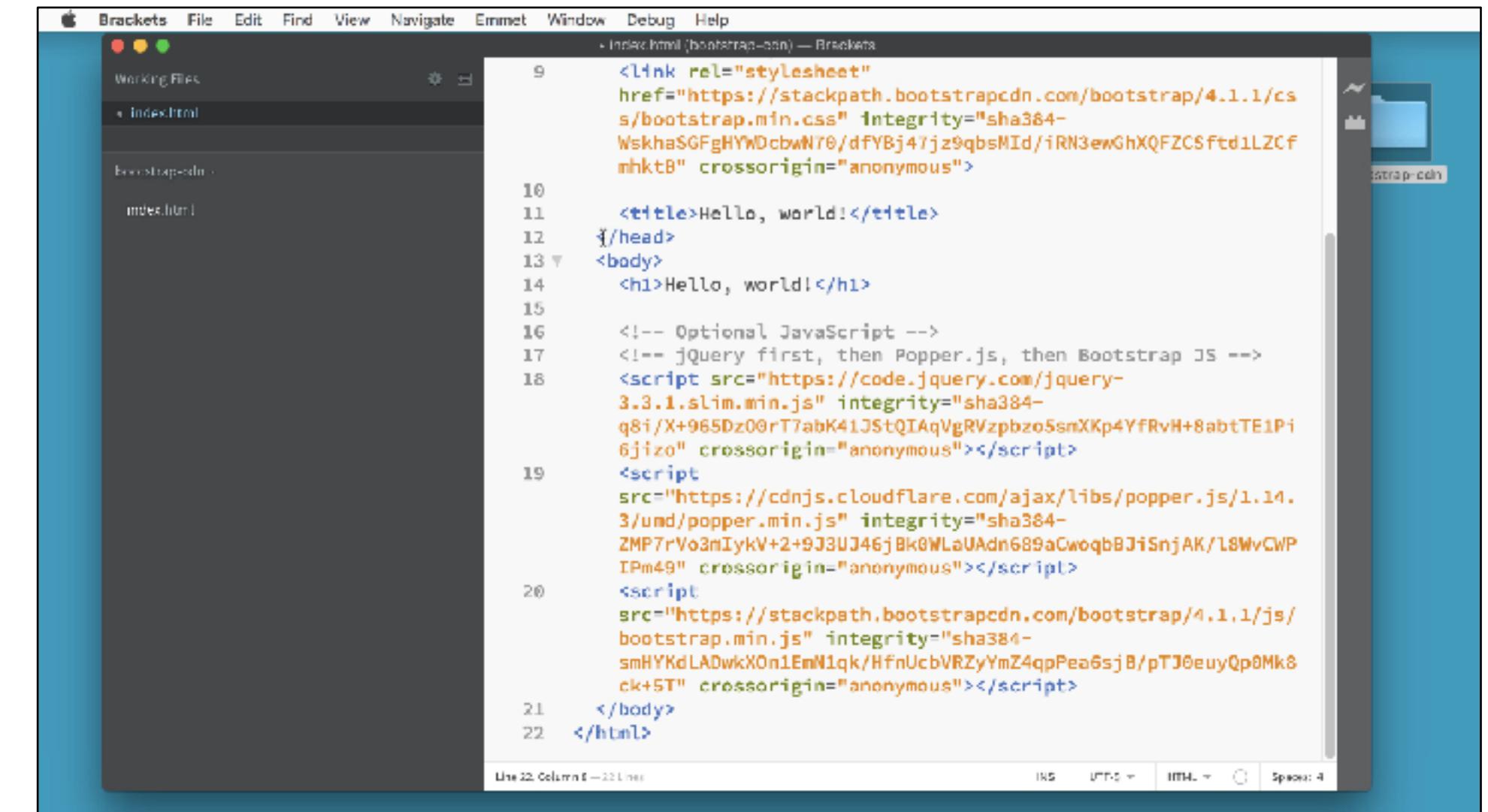
Close

Let's get started.

[popper.js.org](https://popper.js.org)

# Summary

# Summary



The screenshot shows the Brackets IDE interface with an open file named "index.html". The code editor displays the following HTML content:

```
Working Files
  - index.html
  bootstrap-cdn/
    index.html

<link rel="stylesheet"
      href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css" integrity="sha384-WskhaSGFgHYDcbwN70/dFYBj47jz9qbsMId/iRN3ewGhXQFZCSftd1LZCFmhktB" crossorigin="anonymous">

<title>Hello, world!</title>
</head>
<body>
  <h1>Hello, world!</h1>

  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965Dz00rT7abK41JStQIAqVgRVzbz05smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
  <script
    src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvQWPiIPm49" crossorigin="anonymous"></script>
  <script
    src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js" integrity="sha384-smHYKdLADwkXOn1EmN1qk/HfnUcbVRZyVmZ4qpPea6sj8/pTJOeuuyQp0Mk8ck+ST" crossorigin="anonymous"></script>

</body>
</html>
```

The code editor includes line numbers, syntax highlighting for HTML and JavaScript, and a status bar at the bottom showing "Line 22, Column 6 — 22 Lines".

# Summary

The screenshot shows a web browser displaying the Bootstrap website ([getbootstrap.com](https://getbootstrap.com)). The page is version 4.1. The navigation bar includes links for Home, Documentation, Examples, Themes, Jobs, Expo, and Blog. The main content area is divided into three columns:

- Installation**: Includes instructions for installing Bootstrap via npm or Composer, and package manager installs. It also provides command-line installation examples for npm and gem.
- BootstrapCDN**: Describes how to include Bootstrap's compiled CSS or JS via CDN. It includes code snippets for linking to Bootstrap's CSS and JS files.
- Official Themes**: Promotes official premium themes built on Bootstrap, featuring a preview image of a theme.

At the bottom of each column are blue buttons labeled "Read installation docs", "Explore the docs", and "Browse themes".

# Summary

Popular  
Top-sellers in the past week!

Beagle - Responsive Admin Template  
Admin & Dashboard

\$49.00 ★★★★☆

https://themes.getbootstrap.com/product/beagle-responsive-admin-template/

Wingman Landing Page & App Template  
Landing & Corporate

\$49.00 ★★★★☆

https://themes.getbootstrap.com/product/wingman-landing-page-app-template/

```
10
11      <title>Bootstrap Alignments and Offsets</title>
12      <style>
13      </style>
14      </head>
15 ▼  <body>
16 ▼  <div class="container bg-warning" style="margin-top:30px;">
17
18 ▼  <section class="row bg-warning justify-content-center" style="height:200px;">
19      <div class="col-4 bg-secondary ">Column 1</div>
20      <div class="col-4 bg-info ">Column 2</div>
21  </section>
22
23
24
25
26
```

Line 18, Column 65 – 35 Lines

INS UTF-8 ▾ HTML ▾ Spaces: 4

← → C ① 127.0.0.1:56420/0207-alignment-and%20-offsets.html

