

Bootstrap Part 2

Review

- Bootstrap is a giant CSS file that has pre-written classes for use throughout our HTML.
- Classes include ways of adjusting text, images, forms, buttons, and some other cool utilities.
- This makes it much easier to code websites. If want a particular HTML element to appear a certain way, just add the right class attribute to the tag.

Attribute Review

attribute name value in quotes

⋮

⋮

class="text-light" <div></div>

⋮

equals symbol


```
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <!-- Required meta tags -->
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-
7     scale=1, shrink-to-fit=no">
8   <link rel="stylesheet" href="css/bootstrap.min.css">
9   <title>Hello, world!</title>
10 </head>
11 <body>
12   <h1>Hello, world!</h1>
13
14   <script src="js/jquery-3.2.1.slim.min.js"></script>
15   <script src="js/popper.min.js"></script>
16   <script src="js/bootstrap.min.js"></script>
17 </body>
18 </html>
```

Line 3, Column 9 — 18 Lines INS UTF-8 ▼ HTML ▼ ● Spaces: 2

JavaScript files are optional, but allow features like the carousel to function.

Overview of Bootstrap classes

HTML:

```
<div>  
  A simple primary alert  
</div>
```

CSS:

```
div {  
  
}
```

A simple primary alert

Overview of Bootstrap classes

HTML:

```
<div class="alert alert-primary">  
  A simple primary alert  
</div>
```

CSS:

```
div {  
  
}
```

A simple primary alert

Overview of Bootstrap classes

HTML:

```
<div class="alert alert-primary">  
  A simple primary alert  
</div>  
<div>  
  A danger alert  
</div>
```

CSS:

```
div {  
  
}
```

A simple primary alert

A danger alert

Overview of Bootstrap classes

HTML:

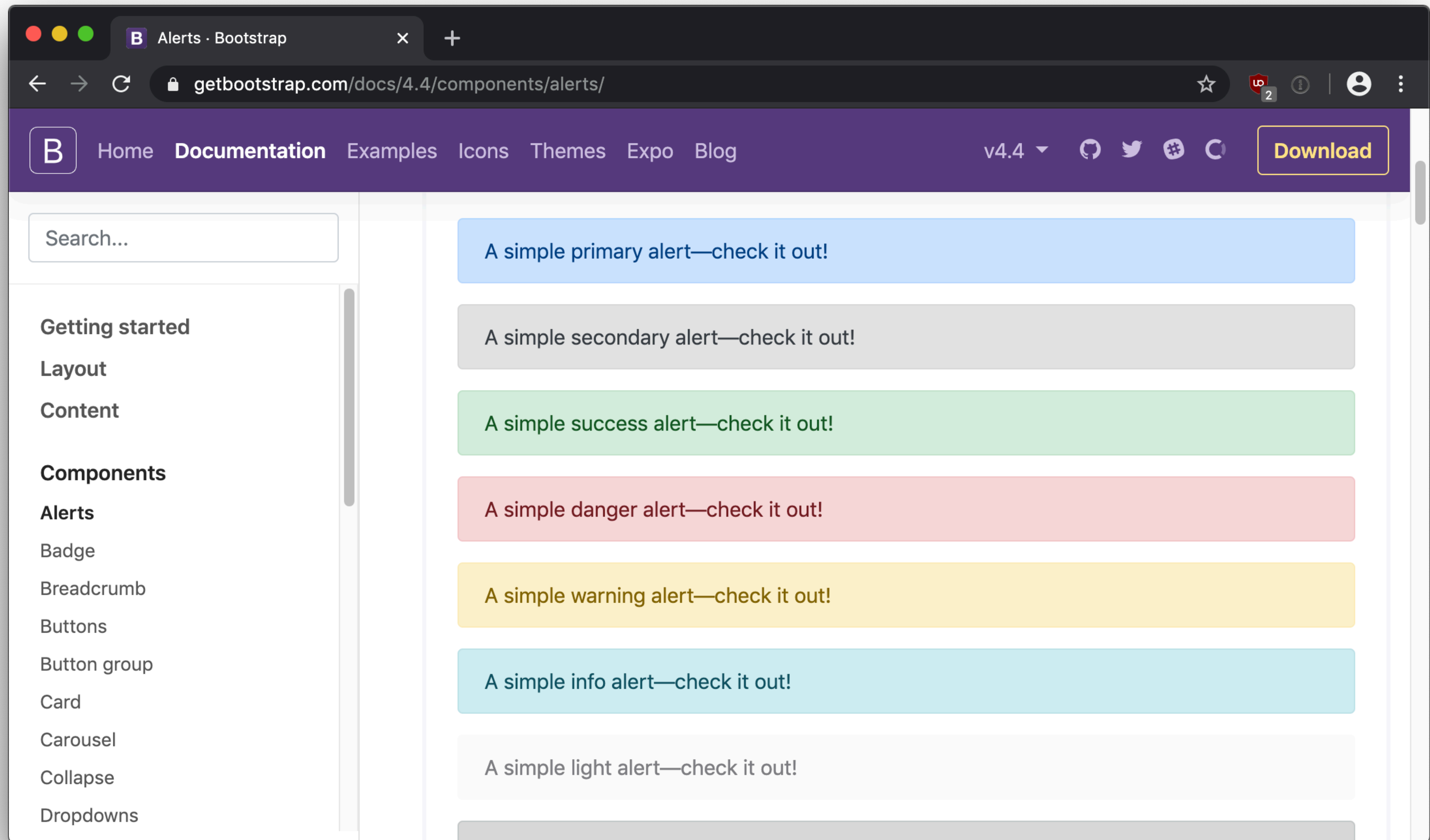
```
<div class="alert alert-primary">  
  A simple primary alert  
</div>  
<div class="alert alert-danger">  
  A danger alert  
</div>
```

CSS:

```
div {  
  
}
```

A simple primary alert

A danger alert



Alerts · Bootstrap

getbootstrap.com/docs/4.4/components/alerts/

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Components

Alerts

Badge

Breadcrumb

Buttons

Button group

Card

Carousel

Collapse

Dropdowns

Copy

```
<div class="alert alert-primary" role="alert">
  A simple primary alert with <a href="#" class="alert-link">an example link</a>. (
</div>
<div class="alert alert-secondary" role="alert">
  A simple secondary alert with <a href="#" class="alert-link">an example link</a>.
</div>
<div class="alert alert-success" role="alert">
  A simple success alert with <a href="#" class="alert-link">an example link</a>. (
</div>
<div class="alert alert-danger" role="alert">
  A simple danger alert with <a href="#" class="alert-link">an example link</a>. G:
</div>
<div class="alert alert-warning" role="alert">
  A simple warning alert with <a href="#" class="alert-link">an example link</a>. (
</div>
<div class="alert alert-info" role="alert">
  A simple info alert with <a href="#" class="alert-link">an example link</a>. Give
</div>
<div class="alert alert-light" role="alert">
  A simple light alert with <a href="#" class="alert-link">an example link</a>. Gi
</div>
```


Badges · Bootstrap

getbootstrap.com/docs/4.4/components/badge/

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Pill badges

Use the `.badge-pill` modifier class to make badges more rounded (with a larger `border-radius` and additional horizontal `padding`). Useful if you miss the badges from v3.

PrimarySecondarySuccessDangerWarningInfoLightDark

```
<span class="badge badge-pill badge-primary">Primary</span>
<span class="badge badge-pill badge-secondary">Secondary</span>
<span class="badge badge-pill badge-success">Success</span>
<span class="badge badge-pill badge-danger">Danger</span>
<span class="badge badge-pill badge-warning">Warning</span>
<span class="badge badge-pill badge-info">Info</span>
<span class="badge badge-pill badge-light">Light</span>
<span class="badge badge-pill badge-dark">Dark</span>
```

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Outline buttons

In need of a button, but not the hefty background colors they bring? Replace the default modifier classes with the `.btn-outline-*` ones to remove all background images and colors on any button.

Primary

Secondary

Success

Danger

Warning

Info

Light

Dark

```
<button type="button" class="btn btn-outline-primary">Primary</button>
<button type="button" class="btn btn-outline-secondary">Secondary</button>
<button type="button" class="btn btn-outline-success">Success</button>
<button type="button" class="btn btn-outline-danger">Danger</button>
<button type="button" class="btn btn-outline-warning">Warning</button>
<button type="button" class="btn btn-outline-info">Info</button>
<button type="button" class="btn btn-outline-light">Light</button>
<button type="button" class="btn btn-outline-dark">Dark</button>
```

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Active

Radio

Radio

```
<div class="btn-group btn-group-toggle" data-toggle="buttons">
  <label class="btn btn-secondary active">
    <input type="radio" name="options" id="option1" checked> Active
  </label>
  <label class="btn btn-secondary">
    <input type="radio" name="options" id="option2"> Radio
  </label>
  <label class="btn btn-secondary">
    <input type="radio" name="options" id="option3"> Radio
  </label>
</div>
```

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Methods

Method	Description
--------	-------------

Colors · Bootstrap

←

→

↺

getbootstrap.com/docs/4.4/utilities/colors/

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Float

Image replacement

Overflow

Position

Screen readers

.text-danger

.text-warning

.text-info

.text-light

.text-dark

.text-body

.text-muted

.text-white

.text-black-50

.text-white-50

<p class="text-primary">.text-primary</p>

<p class="text-secondary">.text-secondary</p>

<p class="text-success">.text-success</p>

<p class="text-danger">.text-danger</p>

<p class="text-warning">.text-warning</p>

<p class="text-info">.text-info</p>

<p class="text-light bg-dark">.text-light</p>

Copy

Text · Bootstrap

×

+

←

→

↺

getbootstrap.com/docs/4.4/utilities/text/

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Font weight and italics

Quickly change the weight (boldness) of text or italicize text.

Bold text.

Bolder weight text (relative to the parent element).

Normal weight text.

Light weight text.

Lighter weight text (relative to the parent element).

Italic text.

```
<p class="font-weight-bold">Bold text.</p>
<p class="font-weight-bolder">Bolder weight text (relative to the parent element).
<p class="font-weight-normal">Normal weight text.</p>
<p class="font-weight-light">Light weight text.</p>
<p class="font-weight-lighter">Lighter weight text (relative to the parent element)
<p class="font-italic">Italic text.</p>
```

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 REO Speedwagon - Can't Fight This Feeling (Official...

Watch later

Share



```
<div class="embed-responsive embed-responsive-16by9">
  <iframe class="embed-responsive-item" src="https://www.youtube.com/embed/zp
</div>
```

Copy

Advanced Bootstrap

Bootstrap collapse utility

Link with href

Button with data-target

Copy

```
<p>
  <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample" role="button">
    Link with href
  </a>
  <button class="btn btn-primary" type="button" data-toggle="collapse" data-target="#collapseExample">
    Button with data-target
  </button>
</p>
<div class="collapse" id="collapseExample">
  <div class="card card-body">
    Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson,
    squid mollit velit id occididunt tempor incididunt amet.
  </div>
</div>
```

Link with href

Button with data-target

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident.

```
<p>  
  <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample" role="button"  
  aria-expanded="false" aria-controls="collapseExample">  
    Link with href  
  </a>  
  <button class="btn btn-primary" type="button" data-toggle="collapse" data-  
  target="#collapseExample" aria-expanded="false" aria-controls="collapseExample">  
    Button with data-target  
  </button>  
</p>
```

```
<div class="collapse" id="collapseExample">  
  <div class="card card-body">  
    Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson  
    ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt  
    sapiente ea proident.  
  </div>  
</div>
```

<p>
 <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample" role="button"
 aria-expanded="false" aria-controls="collapseExample">
 Link with href

 <button class="btn btn-primary" type="button" data-toggle="collapse" data-
 target="#collapseExample" aria-expanded="false" aria-controls="collapseExample">
 Button with data-target
 </button>
</p>

```
<div class="collapse" id="collapseExample">  
  <div class="card card-body">  
    Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson  
    ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt  
    sapiente ea proident.  
  </div>  
</div>
```


Link with href

Button with data-target

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident.

```
<p>  
  <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample" role="button"  
  aria-expanded="false" aria-controls="collapseExample">  
    Link with href  
  </a>  
  <button class="btn btn-primary" type="button" data-toggle="collapse" data-  
  target="#collapseExample" aria-expanded="false" aria-controls="collapseExample">  
    Button with data-target  
  </button>  
</p>
```

```
<div class="collapse" id="collapseExample">  
  <div class="card card-body">  
    Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson  
    ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt  
    sapiente ea proident.  
  </div>  
</div>
```


Link with href

Button with data-target

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident.

```
<p>
  <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample" role="button"
aria-expanded="false" aria-controls="collapseExample">
    Link with href
  </a>
  <button class="btn btn-primary" type="button" data-toggle="collapse" data-
target="#collapseExample" aria-expanded="false" aria-controls="collapseExample">
    Button with data-target
  </button>
</p>
```

```
<div class="collapse" id="collapseExample">
  <div class="card card-body">
    Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson
ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt
sapiente ea proident.
  </div>
</div>
```

Attributes

<button

`class="btn btn-primary"` **Class name, which make it appear like a button.**

`data-toggle="collapse"` **data- is a generic prefix. This is what makes it work.**

`data-target="#collapseExample"` **This identifies which tag will collapse and open.**
(data-target only is used on tags other than <a>)

`aria-expanded="false"`

`aria-controls="collapseExample"`

Accessibility functions.

Anything that starts with aria or role is used for accessibility.

>

Link with href

Button with data-target

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident.

```
<p>
  <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample" role="button"
aria-expanded="false" aria-controls="collapseExample">
    Link with href
  </a>
  <button class="btn btn-primary" data-toggle="collapse" data-target="#collapseExample"
aria-expanded="false" aria-controls="collapseExample">
    Button with data-target
  </button>
</p>
```

data-target="#collapseExample"

```
<div class="collapse" id="collapseExample">
```

```
  <div class="card card-body">
```

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident.

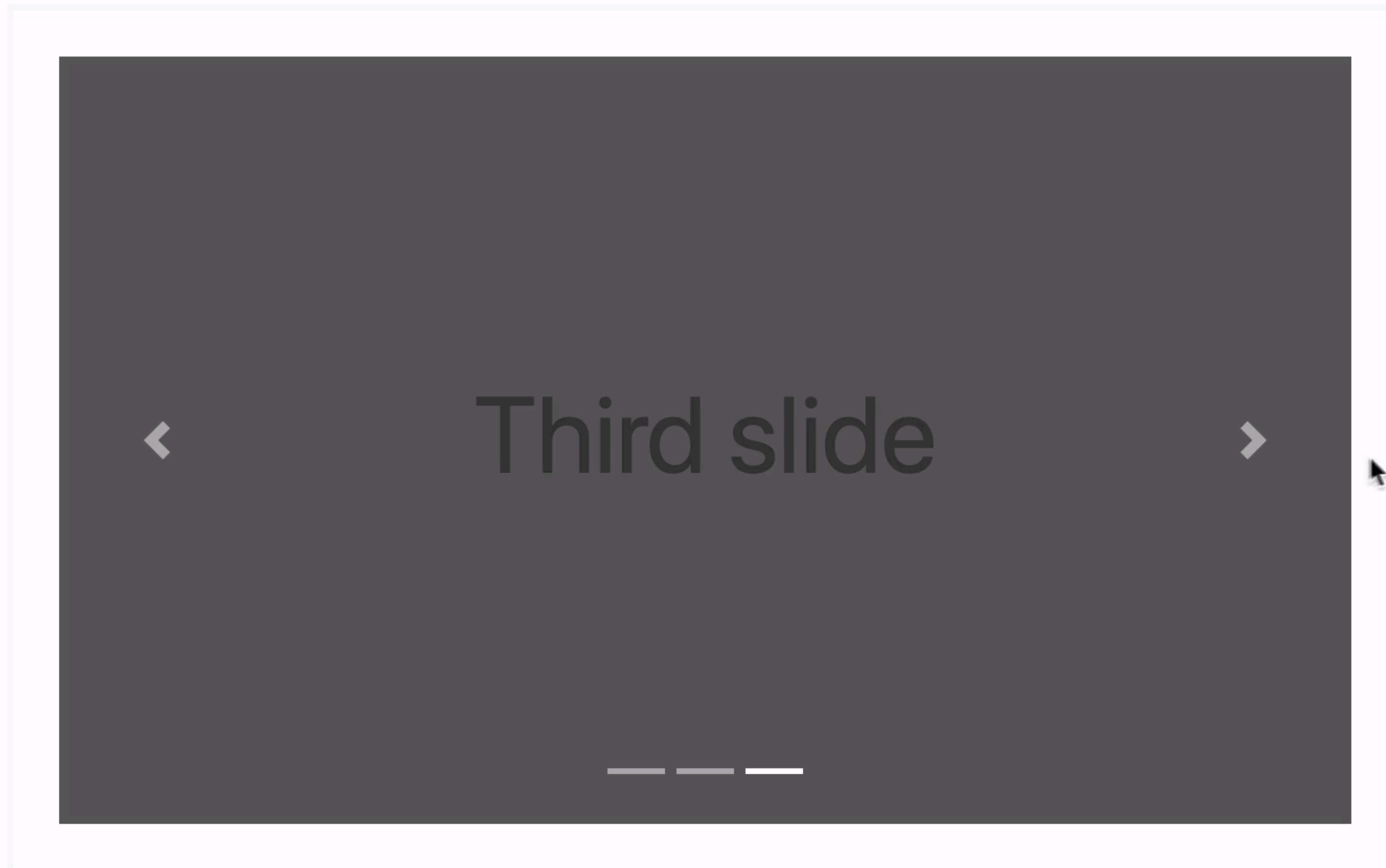
```
  </div>
```

```
</div>
```


Bootstrap Carousel

With indicators

You can also add the indicators to the carousel, alongside the controls, too.




```
<div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```

```
<div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```

```
<div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
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  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
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  </a>
</div>
```



```
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    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```



```
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    <div class="carousel-item active">
      
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    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
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    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="3"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
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  </a>
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  <div class="carousel-inner">
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    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
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    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```


Modal · Bootstrap

getbootstrap.com/docs/4.4/components/modal/

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dismiss actions whenever possible, or provide another explicit dismiss action.

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Jumbotron

List group

Modal title

Modal body text goes here.

CloseSave changes

```
<div class="modal" tabindex="-1" role="dialog">
  <div class="modal-dialog" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title">Modal title</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <p>Modal body text goes here.</p>
      </div>
    </div>
  </div>
</div>
```

Copy

How it works

Examples

Modal components

Live demo

Static backdrop

Scrolling long content

Vertically centered

Tooltips and popovers

Using the grid

Varying modal content

Change animation

Remove animation

Dynamic heights

Accessibility


```
<!-- Button trigger modal -->
<button type="button" class="btn btn-primary" data-toggle="modal" data-target="#exampleModal">
  Launch demo modal
</button>
```

```
<!-- Modal -->
<div class="modal fade" id="exampleModal" tabindex="-1" role="dialog" aria-labelledby="exampleModalLabel"
aria-hidden="true">
  <div class="modal-dialog" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="exampleModalLabel">Modal title</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        ...
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary">Save changes</button>
      </div>
    </div>
  </div>
</div>
```



Responsive Embed Utility

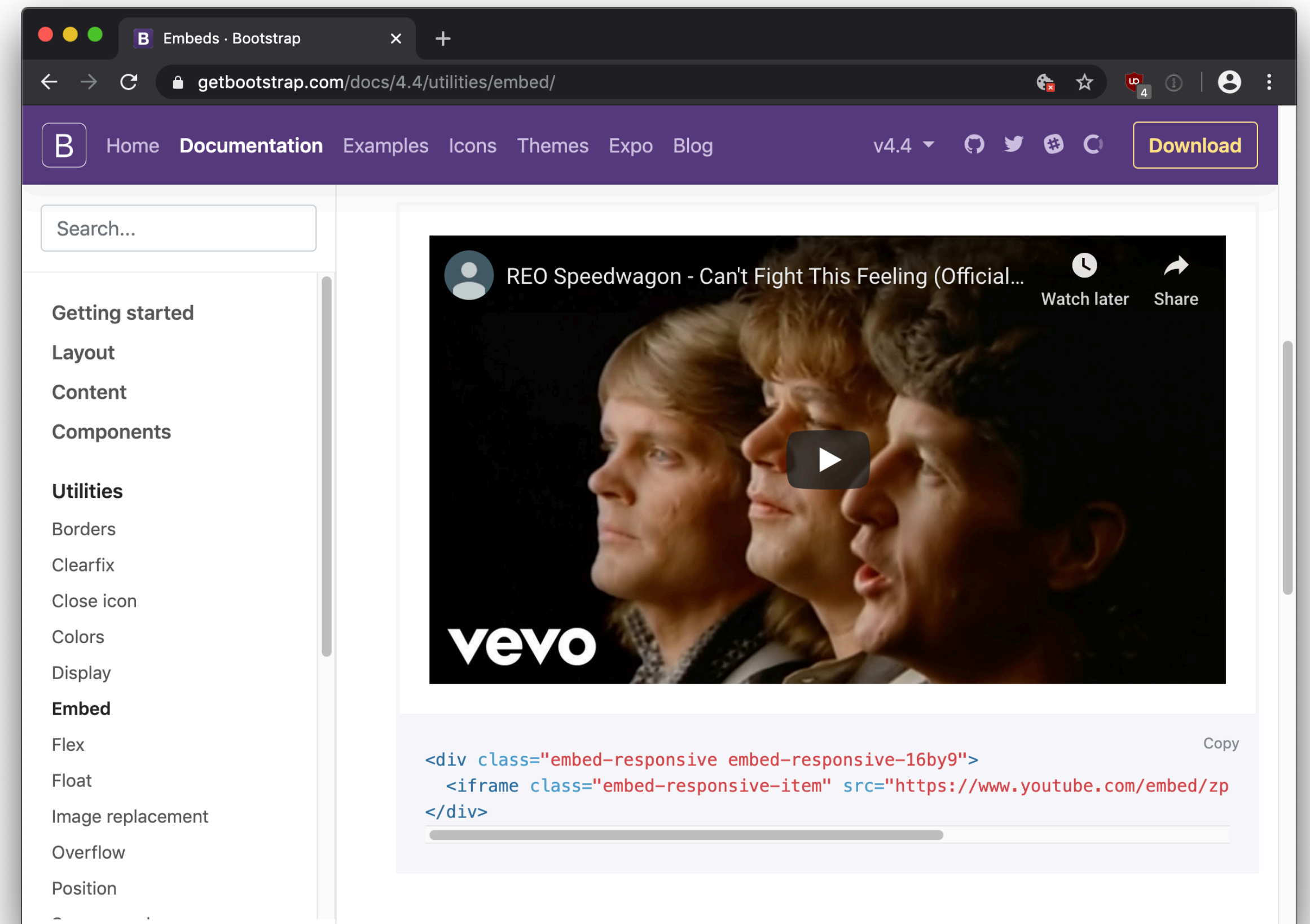
Search for "embed" on bootstrap website

```
<!-- 21:9 aspect ratio -->
<div class="embed-responsive embed-responsive-21by9">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```

```
<!-- 16:9 aspect ratio -->
<div class="embed-responsive embed-responsive-16by9">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```

```
<!-- 4:3 aspect ratio -->
<div class="embed-responsive embed-responsive-4by3">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```

```
<!-- 1:1 aspect ratio -->
<div class="embed-responsive embed-responsive-1by1">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```



Make your own embed code

Copied from Bootstrap website

```
<!-- 16:9 aspect ratio -->  
<div class="embed-responsive embed-responsive-16by9">  
  <iframe class="embed-responsive-item" src="..."></iframe>  
</div>
```

Embed code from YouTube

```
<iframe width="560" height="315" src="https://  
www.youtube.com/embed/c09m5f7Gnic" frameborder="0"  
allow="accelerometer; autoplay; encrypted-media; gyroscope;  
picture-in-picture" allowfullscreen></iframe>
```


Make your own embed code

Copied from Bootstrap website

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<!-- 16:9 aspect ratio -->  
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```

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Copied from Bootstrap website

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    <iframe class="embed-responsive-item" width="560" height="315"
src="https://www.youtube.com/embed/c09m5f7Gnic" frameborder="0"
allow="accelerometer; autoplay; encrypted-media; gyroscope; picture-in-
picture" allowfullscreen></iframe>

</div>
```

Embed code from YouTube

ARIA and Accessibility

What are ARIA attributes?

WAI-ARIA

Web Accessibility Initiative – Accessible Rich Internet Applications



Scott Jehl
@scottjehl

Write code, not too much, mostly HTML

8:51 AM · Jun 12, 2019 · [Twitter Web Client](#)

Example

```
<div role="banner">  
  <h1>The New York Times</h1>  
</div>
```

```
<div role="navigation">  
  <a>Home</a>  
  <a>Portfolio</a>  
</div>
```

```
<div role="main">  
  <h2>This just in...</h2>  
  <p>Something something</p>  
</div>
```

```
<div role="contentinfo">  
  <h2>Footer</h2>  
</div>
```

```
<header>
```

```
  <h1>The New York Times</h1>  
</header>
```

```
<nav>
```

```
  <a>Home</a>  
  <a>Portfolio</a>  
</nav>
```

```
<section role="main">
```

```
  <h2>This just in...</h2>  
  <p>Something something</p>  
</section>
```

```
<footer>
```

```
  <h2>Footer</h2>  
</footer>
```


Role attribute

ARIA attributes

HTML5 Equivalent

role="banner"

<header>

role="complementary"

<aside>

role="contentinfo"

<footer>

role="form"

<form>

role="main"

<main>

role="navigation"

<nav>

role="region"

<section>

Where ARIA is still helpful

```
<p>  
  <a class="btn btn-primary" data-toggle="collapse" href="#collapseExample"  
    role="button" aria-expanded="false" aria-controls="collapseExample">  
    Link with href  
  </a>  
  <button class="btn btn-primary" type="button" data-toggle="collapse" data-  
target="#collapseExample" aria-expanded="false" aria-controls="collapseExample">  
    Button with data-target  
  </button>  
</p>
```

```
<div class="collapse" id="collapseExample">  
  <div class="card card-body">  
    Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry  
richardson ad squid. Nihil anim keffiyeh helvetica, craft beer labore wes  
anderson cred nesciunt sapiente ea proident.  
  </div>  
</div>
```

Alt Tags for Images

```

```

Captions for Graphics

```
<figure>  
    
  <figcaption>Caption for the above photo</figcaption>  
</figure>
```


Bootstrap "sr-only" class

```
<div class="sr-only" >
```

Psst... no one will see this. But screen readers will read it. So you can leave hidden messages for your web visitors.

```
</div>
```