



Front-end Essentials Bootstrap 4 – Common Components

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Lesson Objectives





- Able to use Components of Bootstrap 4 to create complex web app
- Some utilities of Bootstrap 4





Section 1

Common Components

Common Components





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- Breadcrumb
- Table
- Forms
- Buttons
- Images
- Icons

- Dropdown
- Pagination
- Label
- Badges
- Alert
- Progress bar
- List Group

Alerts





 Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

<div class="alert alert-primary" role="alert"> A simple primary alert—check it out! </div> <div class="alert alert-secondary" role="alert"> A simple secondary alert—check it out! </div> <div class="alert alert-success" role="alert"> A simple success alert—check it out! </div> <div class="alert alert-danger" role="alert"> A simple danger alert—check it out! </div> <div class="alert alert-warning" role="alert"> A simple warning alert—check it out! </div> <div class="alert alert-info" role="alert"> A simple info alert—check it out! </div> <div class="alert alert-light" role="alert"> A simple light alert—check it out! </div> <div class="alert alert-dark" role="alert"> A simple dark alert—check it out! </div>
09/09/2023
OFTWARE – Fresher Academy - Internal Use

A simple primary alert—check it out!
A simple secondary alert—check it out!
A simple success alert—check it out!
A simple danger alert—check it out!
A simple warning alert—check it out!
A simple info alert—check it out!
A simple light alert—check it out!
A simple dark alert—check it out!

Alerts - Additional content





 Alerts can also contain additional HTML elements like headings, paragraphs and dividers.

Well done!

Aww yeah, you successfully read this important alert message. This example text is going to run a bit longer so that you can see how spacing within an alert works with this kind of content.

Whenever you need to, be sure to use margin utilities to keep things nice and tidy.

```
<div class="alert alert-success" role="alert">
<h4 class="alert-heading">Well done!</h4>
Aww yeah, you successfully read this important alert message. This example text is going to run a bit longer so that you can see how spacing within an alert works with this kind of content.
<hr>
<hr>
chr>
class="mb-0">Whenever you need to, be sure to use margin utilities to keep things nice and tidy. </div>
```

Badges 1 - 2





 Documentation and examples for badges, our small count and labeling component.

<h1>Example heading <span class="badge
badge-secondary">New</h1> <h2>Example heading New</h2> <h3>Example
heading New</h3>
<h4>Example heading <span class="badge
badge-secondary">New</h4> <h5>Example heading New</h6>
Example
heading New</h6>



Badges 2 - 2





 Badges can be used as part of links or buttons to provide a counter.

Notifications 4

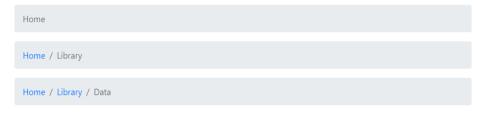
<button type="button" class="btn btn-primary"> Notifications 4 </button>

Breadcrumb





 Indicate the current page's location within a navigational hierarchy that automatically adds separators via CSS.



Buttons





 Use Bootstrap's custom button styles for actions in forms, dialogs, and more with support for multiple sizes, states, and more.



Button group





 Group a series of buttons together on a single line with the button group, and super-power them with JavaScript.



```
<div class="btn-group" role="group" aria-label="Basic example">
  <button type="button" class="btn btn-secondary">Left</button>
  <button type="button" class="btn btn-secondary">Middle</button>
  <button type="button" class="btn btn-secondary">Right</button>
  </div>
```

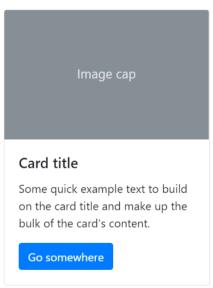
Cards





 Bootstrap's cards provide a flexible and extensible content container with multiple variants and options.

```
<div class="card" style="width: 18rem;">
<img src="..." class="card-img-top" alt="...">
<div class="card-body">
<h5 class="card-title">Card title</h5>
Some quick example text to build on the card title
and make up the bulk of the card's content.
<a href="#" class="btn btn-primary">Go somewhere</a>
</div>
</div>
```



Carousel





 A slideshow component for cycling through elements images or slides of text—like a carousel.



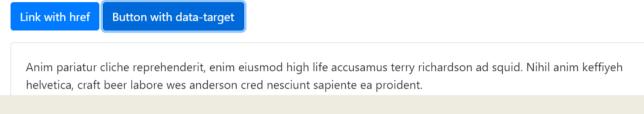
• More detail: https://getbootstrap.com/docs/4.5/components/carousel/

Collapse





 Toggle the visibility of content across your project with a few classes and our JavaScript plugins.



```
<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><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>
```

Dropdowns





 Toggle contextual overlays for displaying lists of links and more with the Bootstrap dropdown plugin.

Dropdown button ▼

```
<div class="dropdown">
  <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButton"
  data-toggle="dropdown" aria-haspopup="true" aria-expanded="false"> Dropdown button </button>
  <div class="dropdown-menu" aria-labelledby="dropdownMenuButton">
  <a class="dropdown-item" href="#">Action</a>
  <a class="dropdown-item" href="#">Another action</a>  <a class="dropdown-item"
  href="#">Something else here</a>
  </div>
  </div>
```

Forms 1 - 2





 Examples and usage guidelines for form control styles, layout options, and custom components for creating a wide variety of forms.

```
<form>
<div class="form-group">
<label for="exampleInputEmail1">Email address</label>
<input type="email" class="form-control" id="exampleInputEmail1" aria-</pre>
describedby="emailHelp"> <small id="emailHelp" class="form-text text-muted">We'll
never share your email with anyone else.</small>
</div>
<div class="form-group">
<label for="exampleInputPassword1">Password</label>
<input type="password" class="form-control" id="exampleInputPassword1"> </div>
<div class="form-group form-check">
<input type="checkbox" class="form-check-input" id="exampleCheck1">
<label class="form-check-label" for="exampleCheck1">Check me out</label>
</div>
<button type="submit" class="btn btn-primary">Submit</button>
</form>
```

Forms 2 - 2





Demonstrate Bootstrap's form styles

Email address		
We'll never share your email with anyone else.		
Password		
☐ Check me out		
Submit		

Input group





Easily extend form controls by adding text, buttons, or button groups on either side of textual inputs, custom selects, and custom file inputs.

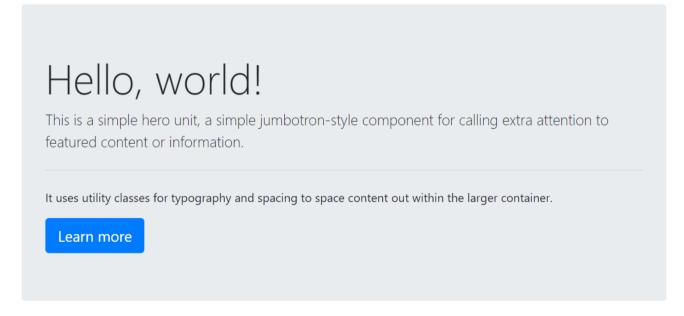


Jumbotron 1 - 2





 Lightweight, flexible component for showcasing hero unit style content.



Jumbotron 2 - 2





 A lightweight, flexible component that can optionally extend the entire viewport to showcase key marketing messages on your site.

```
<div class="jumbotron">
  <h1 class="display-4">Hello, world!</h1>
  This is a simple hero unit, a simple jumbotron-style component
for calling extra attention to featured content or information.
  <hr class="my-4"> It uses utility classes for typography and spacing to space
  content out within the larger container.
  <a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a>
  </div>
```

List group





 List groups are a flexible and powerful component for displaying a series of content. Modify and extend them to support just about any content within.



Media object





 Documentation and examples for Bootstrap's media object to construct highly repetitive components like blog comments, tweets, and the like.



Media heading

Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.

```
<div class="media">
  <img src="..." class="mr-3" alt="...">
  <div class="media-body">
  <h5 class="mt-0">Media heading</h5> Cras sit amet nibh libero, in gravida nulla. Nulla vel metus scelerisque ante sollicitudin. Cras purus odio, vestibulum in vulputate at, tempus viverra turpis. Fusce condimentum nunc ac nisi vulputate fringilla. Donec lacinia congue felis in faucibus.
  </div>
  </div>
```

Modal





 Use Bootstrap's JavaScript modal plugin to add dialogs to your site for lightboxes, user notifications, or completely custom content

Modal title	×
Modal body text goes here.	
	Close Save changes

https://getbootstrap.com/docs/4.5/components/modal/

Navs





 Documentation and examples for how to use Bootstrap's included navigation components.

Active Link Link Disabled

```
    class="nav-item"> <a class="nav-link active" href="#">Active</a> 
    cli class="nav-item"> <a class="nav-link" href="#">Link</a> 
    cli class="nav-item"> <a class="nav-link" href="#">Link</a> 
    cli class="nav-item"> <a class="nav-link" href="#">Link</a> 
    cli class="nav-item"> <a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a>
```

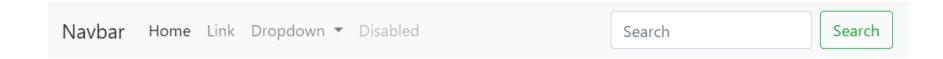
https://getbootstrap.com/docs/4.5/components/navs/

Navbar





- Documentation and examples for Bootstrap's powerful, responsive navigation header, the navbar. Includes support for branding, navigation, and more, including support for our collapse plugin.
- https://getbootstrap.com/docs/4.5/components/navbar/



Pagination





 Documentation and examples for showing pagination to indicate a series of related content exists across multiple pages.



```
<nav aria-label="Page navigation example">

<a class="page-link" href="#">Previous</a>
<a class="page-link" href="#">1</a>
<a class="page-link" href="#">2</a>
<a class="page-link" href="#">3</a>
<a class="page-link" href="#">Next</a>
<a class="page-link" href="#">Next</a>

</pa>
```

Popovers¹





 Documentation and examples for adding Bootstrap popovers, like those found in iOS, to any element on your site.

Click to toggle popover

And here's some amazing content. It's very engaging. Right?

<button type="button" class="btn btn-lg btn-danger" data-toggle="popover"
title="Popover title" data-content="And here's some amazing content. It's very
engaging. Right?">Click to toggle popover</button>

Progress





 Documentation and examples for using Bootstrap custom progress bars featuring support for stacked bars, animated backgrounds, and text labels.

```
<div class="progress"> <div class="progress-bar bg-success" role="progressbar" style="width: 25%" aria-valuenow="25"
aria-valuemin="0" aria-valuemax="100"> </div> </div>
<div class="progress"> <div class="progress-bar bg-info" role="progressbar" style="width: 50%" aria-valuenow="50"
aria-valuemin="0" aria-valuemax="100"> </div> </div>
<div class="progress"> <div class="progress-bar bg-warning" role="progressbar" style="width: 75%" aria-valuenow="75"
aria-valuemin="0" aria-valuemax="100"> </div> </div>
<div class="progress"> <div class="progress-bar bg-danger" role="progressbar" style="width: 100%" aria-valuenow="100" aria-valuemin="0" aria-valuemax="100"> </div> </div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>
```

Scrollspy





- Automatically update Bootstrap navigation or list group components based on scroll position to indicate which link is currently active in the viewport.
- https://getbootstrap.com/docs/4.5/components/scrollspy/



Spinners





 Indicate the loading state of a component or page with Bootstrap spinners, built entirely with HTML, CSS, and no JavaScript.

C

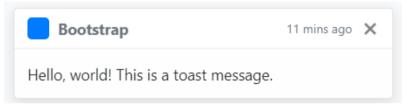
```
<div class="spinner-border" role="status">
<span class="sr-only">Loading...</span>
</div>
```

Toasts





 Push notifications to your visitors with a toast, a lightweight and easily customizable alert message.



Tooltips





 Documentation and examples for adding custom Bootstrap tooltips with CSS and JavaScript using CSS3 for animations and data-attributes for local title storage.

```
Tooltip on top

Tooltip on top

Tooltip on right

Tooltip on bottom

Tooltip on left

Tooltip with HTML

<br/>

**button type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="top" title="Tooltip on top"> Tooltip on top </button>

**cbutton type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="right" title="Tooltip on right"> Tooltip on right"> Tooltip on right"> Tooltip on right </button>

**cbutton type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="bottom" title="Tooltip on bottom"> Tooltip on bottom </br/>
**button type="button" class="btn btn-secondary" data-toggle="tooltip" data-placement="left" title="Tooltip on left"> Tooltip on left</br/>
**button>
```





Section 2

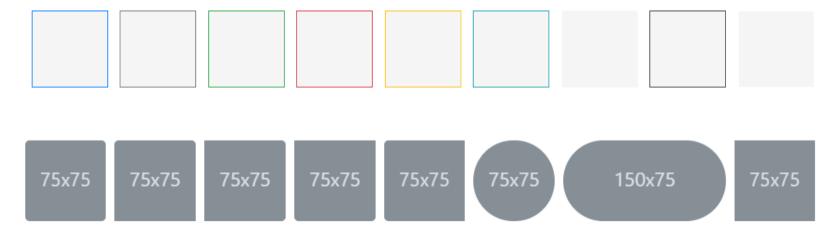
Utilities

Borders





 Use border utilities to quickly style the border and borderradius of an element. Great for images, buttons, or any other element.



Clearfix





- Quickly and easily clear floated content within a container by adding a clearfix utility.
- Easily clear floats by adding .clearfix to the parent element.
 Can also be used as a mixin.

```
<div class="clearfix">...</div>
// Mixin itself
@mixin clearfix() {
    &::after { display: block; content: ""; clear: both; }
} // Usage as a mixin .element {
    @include clearfix; }
```

Colors





 Convey meaning through color with a handful of color utility classes. Includes support for styling links with hover states, too.

.text-secondary
.text-success
.text-danger
.text-warning
.text-info
.text-light
.text-dark
.text-body
.text-muted
.text-white
.text-black-50
.text-white-50

Display property





• Quickly and responsively toggle the display value of components and more with our display utilities. Includes support for some of the more common values, as well as some extras for controlling display when printing.



Embeds





 Create responsive video or slideshow embeds based on the width of the parent by creating an intrinsic ratio that scales on any device.

Flex





• Quickly manage the layout, alignment, and sizing of grid columns, navigation, components, and more with a full suite of responsive flexbox utilities. For more complex implementations, custom CSS may be necessary.

```
I'm a flexbox container!
```

```
<div class="d-flex p-2 bd-highlight">I'm a flexbox container!
</div>
```

I'm an inline flexbox container!

```
<div class="d-inline-flex p-2 bd-highlight">I'm an inline flexbox
container!</div>
```

Position





 Use these shorthand utilities for quickly configuring the position of an element.

```
<div class="position-static">...</div>
<div class="position-relative">...</div>
<div class="position-absolute">...</div>
<div class="position-fixed">...</div>
<div class="position-sticky">...</div>
```

Summary





- Bootstrap provides many UI Components that help you to developer faster and easier
- To use a component you must specify correct Bootstrap syntax with corresponding class
- Most Components only need HTML and CSS
- For Dropdown you must add JavaScript





Thank you