

BOOTSTRAP

VERSION 4

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BOOTSTRAP

- *Bootstrap 4 is the newest version of <u>Bootstrap</u>, which is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites.
- ❖ Bootstrap 4 is completely free to download and use!





WHAT IS BOOTSTRAP?

- *Bootstrap is a free front-end framework for faster and easier web development
- *Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- *Bootstrap also gives you the ability to easily create responsive designs.

What is Responsive Web Design?

 Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

Bootstrap 3 vs. Bootstrap 4

- Bootstrap 4 is the newest version of Bootstrap; with new components, faster stylesheet and more responsiveness.
- Bootstrap 4 supports the latest, stable releases of all major browsers and platforms. However, Internet Explorer 9
 and down is not supported.

WHY USE BOOTSTRAP?

- *Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- *Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- *Mobile-first approach: In Bootstrap, mobile-first styles are part of the core framework
- ❖ Browser compatibility: Bootstrap 4 is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera)



WHERE TO GET BOOTSTRAP 4?

- *There are two ways to start using Bootstrap 4 on your own web site.
- ♦ You can:
- Include Bootstrap 4 from a CDN
- Download Bootstrap 4 from getbootstrap.com

MaxCDN:



BOOTSTRAP 4 IS MOBILE-FIRST!

*Bootstrap 4 is designed to be responsive to mobile devices. Mobile-first styles are part of the core framework.

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

Containers

- Bootstrap 4 also requires a containing element to wrap site contents.
- The .container class provides a responsive fixed width container.
- The .container-fluid class provides a full width container, spanning the entire width of the viewport.





BOOTSTRAP 4 GRIDS

- *Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.
- If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
	span 6				span 6						
span 12											



GRID CLASSES

- The Bootstrap 4 grid system has five classes:
- .col- (extra small devices screen width less than 576px)
- col-sm- (small devices screen width equal to or greater than 576px)
- .col-md- (medium devices screen width equal to or greater than 768px)
- .col-lg- (large devices screen width equal to or greater than 992px)
- .col-xl- (xlarge devices screen width equal to or greater than 1200px)

```
<!-- Control the column width, and how they should appear on different devices -->
<div class="row">
 <div class="col-*-*"></div>
 <div class="col-*-*"></div>
</div>
<div class="row">
 <div class="col-*-*"></div>
  <div class="col-*-*"></div>
 <div class="col-*-*"></div>
</div>
<!-- Or let Bootstrap automatically handle the layout -->
<div class="row">
 <div class="col"></div>
  <div class="col"></div>
  <div class="col"></div>
</div>
```



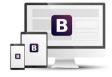
BOOTSTRAP 4 TEXT/TYPOGRAPHY

- Bootstrap 4 Default Settings
- Bootstrap 4 uses a default font-size of 16px, and its line-height is 1.5.
- The default font-family is "Helvetica Neue", Helvetica, Arial, sans-serif.
- In addition, all elements have margin-top: 0 and margin-bottom: 1 rem (16px by default).

More Typography Classes

The Bootstrap 4 classes below can be added to style HTML elements further:

Class	Description
.font-weight-bold	Bold text
.font-weight-bolder	Bolder text
.font-italic	Italic text
.font-weight-light	Light weight text
.font-weight-lighter	Lighter weight text
.font-weight-normal	Normal text
.lead	Makes a paragraph stand out
.small	Indicates smaller text (set to 80% of the size of the parent)
.text-left	Indicates left-aligned text



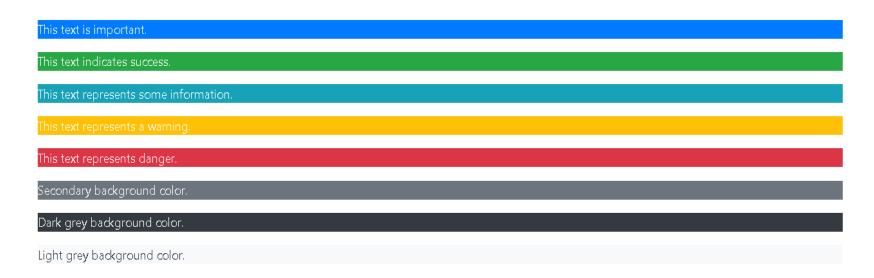
BOOTSTRAP 4 COLORS

Text Colors

- Bootstrap 4 has some contextual classes that can be used to provide "meaning through colors".
- The classes for text colors are: .text-muted, .text-primary, .text-success, .text-info, .text-warning, .text-danger, .text-secondary, .text-white, .text-dark, .text-body (default body color/often black) and .text-light.

❖ Background Colors

• The classes for background colors are: .bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light.





BOOTSTRAP 4 TABLES

- *A basic Bootstrap 4 table has a light padding and horizontal dividers.
- The .table class adds basic styling to a table.

Firstname	Lastname	Email	
John	Doe	john@example.com	
Mary	Moe	mary@example.com	
July	Dooley	july@example.com	

Striped Rows

• The .table-striped class adds zebra-stripes to a table:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com



BOOTSTRAP 4 IMAGES

Rounded Corners:



Circle:



Thumbnail:



-
-
-



BOOTSTRAP 4 ALERTS

Bootstrap 4 provides an easy way to create predefined alert messages:

Success! This alert box indicates a successful or positive action.	×
Info! This alert box indicates a neutral informative change or action.	×
Warning! This alert box indicates a warning that might need attention.	×
Danger! This alert box indicates a dangerous or potentially negative action.	×
Primary! This alert box indicates an important action.	×
Secondary! This alert box indicates a less important action.	×
Dark! Dark grey alert box.	×



BOOTSTRAP 4 BUTTONS

Bootstrap 4 provides different styles of buttons:



- **❖ Button Sizes**
- .btn-lg , .btn-sm



Block Level Buttons

Add class .btn-block to create a block level button that spans the entire width of the parent element.

Full-Width Button

- **❖Spinner Buttons**
 - Add class .spinner-border





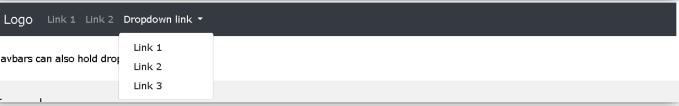
BOOTSTRAP OTHER COMPONENTS

- **❖Button Groups**
- Badges
- Progress Bars
- Spinners
- Pagination
- **♦** Cards
- Dropdowns
- Collapse
- **♦ Navs**
- ❖Navigation Bar
- **❖** Forms
- **❖Inputs**



NAVBAR WITH DROPDOWN

```
<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
 <!-- Brand -->
                                                                  Link 1
 <a class="navbar-brand" href="#">Logo</a>
                                                  Navbars can also hold drop
                                                                  Link 2
                                                                  Link 3
 <!-- Links -->
 <a class="nav-link" href="#">Link 1</a>
   <a class="nav-link" href="#">Link 2</a>
   <!-- Dropdown -->
   <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-toggle="dropdown">
      Dropdown link
    </a>
     <div class="dropdown-menu">
      <a class="dropdown-item" href="#">Link 1</a>
      <a class="dropdown-item" href="#">Link 2</a>
      <a class="dropdown-item" href="#">Link 3</a>
    </div>
   </nav>
```





BOOTSTRAP 4 FORMS

- Bootstrap provides two types of form layouts:
- Stacked (full-width) form
- Inline form
- Form Validation
- HTML5 Controls required, pattern,...
- *Bootstrap supports the following form controls:
- input,textarea,checkbox,radio,select
- **♦Inputs Group**
- The .input-group class is a container to enhance an input by adding an icon, text or a button in front or behind the input field as a "help text".

BOOTSTRAP 4 CAROUSEL

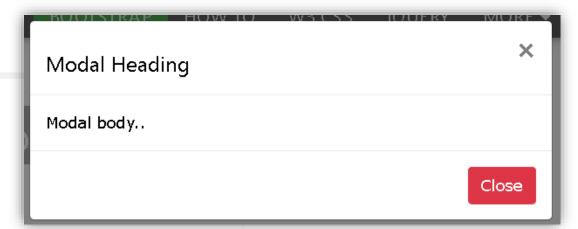
```
<div id="demo" class="carousel slide" data-ride="carousel">
 <!-- Indicators -->
 data-target="#demo" data-slide-to="0" class="active">
   data-target="#demo" data-slide-to="2">
 <!-- The slideshow -->
 <div class="carousel-inner">
   <div class="carousel-item active">
    <img src="la.jpg" alt="Los Angeles">
   </div>
   <div class="carousel-item">
    <img src="chicago.jpg" alt="Chicago">
   </div>
   <div class="carousel-item">
    <img src="ny.jpg" alt="New York">
   </div>
 </div>
 <!-- Left and right controls -->
 <a class="carousel-control-prev" href="#demo" data-slide="prev">
   ⟨span class="carousel-control-prev-icon"⟩⟨/span⟩
 </a>
 <a class="carousel-control-next" href="#demo" data-slide="next">
   ⟨span class="carousel-control-next-icon"⟩⟨/span⟩
 </a>
</div>
```





BOOTSTRAP 4 MODAL

```
<!-- Button to Open the Modal -->
<button type="button" class="btn btn-primary" data-toggle="modal" data-target="#myModal">
 Open modal
</button>
<!-- The Modal -->
<div class="modal" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content">
      <!-- Modal Header -->
      <div class="modal-header">
       <h4 class="modal-title">Modal Heading</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>
      <!-- Modal body -->
      <div class="modal-body">
       Modal body..
      </div>
      <!-- Modal footer -->
      <div class="modal-footer">
        <button type="button" class="btn btn-danger" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>
```





BOOTSTRAP TOOLTIP & 4 POPOVER

The Tooltip component is small pop-up box that appears when the user moves the mouse pointer over an element:

```
<a href="#" data-toggle="tooltip" title="Hooray!">Hover over me</a>
<script>
$(document).ready(function(){
   $('[data-toggle="tooltip"]').tooltip();
});
</script>
```



BOOTSTRAP 4 ICONS

- *Bootstrap 4 does not have its own icon library (<u>Glyphicons from Bootstrap 3</u> are not supported in BS4).
- *However, there are many free icon libraries to choose from, such as Font Awesome and Google Material Design Icons.

```
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css" integrity="sha384-
lZN37f5QGtY3VHgisS14W3ExzMWZxybE1SJSEsQp9S+oqd12jhcu+A56Ebc1zFSJ" crossorigin="anonymous">
```

Example

```
<i class="fas fa-cloud"></i>
<i class="fas fa-coffee"></i>
<i class="fas fa-car"></i>
<i class="fas fa-file"></i>
<i class="fas fa-bars"></i>
<i class="fas fa-bars"></i>
```



REFERENCES

*https://getbootstrap.com/

http://w3schools.com/