Bootstrap 4.1

Web Design Just Got Easier!

A toolkit for building responsive, mobile-first projects on the web



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.

Mobile-first approach

- Mobile-first approach: In Bootstrap 4, mobile-first styles are part of the core framework Bootstrap 4 is mobile-first Bootstrap 4 is designed to be responsive to mobile devices.
- Mobile-first styles are part of the core framework.
- The mobile first approach allows you to focus on the critical information users are looking for on your site.



Why Use Bootstrap?

• It's easy to use:

Anybody with just basic knowledge of HTML and CSS can start using Bootstrap 4

• Responsive features:

Bootstrap's responsive CSS adjusts to phones, tablets, and desktops

• Browser compatibility: Bootstrap 4 is compatible with all modern browsers (Chrome, Firefox, Internet Explorer 10+, 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 (Content Delivery Network)

OR

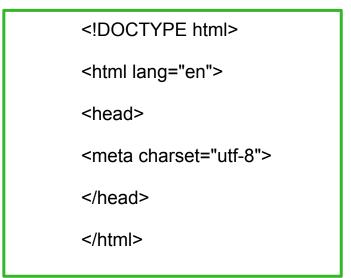
Download Bootstrap 4 from

CREATE FIRST WEB PAGE WITH BOOTSTRAP 4

1. Add the HTML5 doctype

Bootstrap 4 uses HTML elements and CSS properties that require the HTML5 doctype.

Always include the HTML5 doctype at the beginning of the page, along with the lang attribute and the correct character set:





2. Bootstrap is mobile-first

Bootstrap 4 is designed to be responsive to mobile devices.

Mobile-first styles are part of the core framework.

The mobile first approach allows you to focus on the critical information users are looking for on your site.

To ensure proper rendering and touch zooming,

add the following <meta> tag inside the <head> element:

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

• The width=device-width part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

The initial-scale=1 part sets the initial zoom level when the page is first loaded by the browser.

BOOTSTRAP 4 BOILERPLATE TEMPLATE

OCATIONAL

```
<!DOCTYPE html>
             <html lang="en">
             <head>
             <meta charset="UTF-8">
             <meta name="viewport" content="width=device-width, initial-scale=1.0">
             <meta http-equiv="X-UA-Compatible" content="ie=edge">
             <!-- Latest compiled and minified CSS -->
             k rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
             <title>Document</title>
             </head>
             <body>
             <h1>Lorem ipsum dolor sit amet, consectetur adipisicing elit.</h1>
             <!-- jQuery library -->
             <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.slim.js"></script>
             <!-- Popper JS -->
             <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
             <!-- Latest compiled JavaScript -->
             <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
codetalk
             </html>
```

TEXT TAGS

H Tags

<h1><h2><h3>

Displaytags(1,2,3,4...)

<h1 class="display-4">Lorem ipsum dolor sit amet, consectetur adipisicing elit.</h1>

MarkTag

<mark>

List Items

and

Lead Paragraph

Lorem ipsum dolor sit amet.

HANDLING IMAGES

Adding an image.

```
<img src="images/jeans.jpg" alt="">
```

Adding an image with a class assignment.

```
<img class="img-fluid" src="images/jeans.jpg" alt="">
```


Positioning class

Positioning WHEN treating the image as a block element

<div class="text-center">

 </div>



CONTAINER AND FLUID CONTAINER requires a containing element to wrap the site's content

There are two container classes to choose from:

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

.container-fluid

<div class="container-fluid">CONTENT GOES HERE </div>

BOOTSTRAP 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:

Make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns).

| span 1 | span l | span l | span 1 | span l | span 1 | span 1 | span l | span 1 | span 1 | span 1 | span l |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| span 4 | | | | span 4 | | | | span 4 | | | |
| span 4 | | | | span 8 | | | | | | | |
| span 6 | | | | span 6 | | | | | | | |
| span | 12 | | | | | | | | | | |

BOOTSTRAP 4 GRIDS

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)



The classes above can be combined to create a more dynamic and flexible layouts.

CHANGING LAYOUTS ON DIFFERENT SCREENS

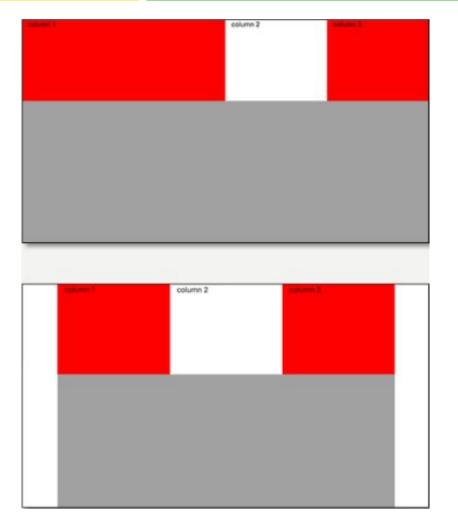


WHAT IF YOU WANT A SPECIFIC GRID LAYOUT FOR ONE SCREEN SIZE, AND DIFFERENT GRID LAYOUT FOR A DIFFERENT SCREEN SIZE?

<div class="row">
 <div class="col-lg-6 col-sm-4 red">column 1</div>
 <div class="col-lg-6 col-sm-4 white">column 2</div>
 <div class="col-lg-6 col-sm-4 yellow">column 3</div>
 </div>

- Define each column via media breaking point classes
- Apply more than one for varied layouts





MEDIA BREAKPOINTS

We use media query to add a breakpoint What are media queries?

Media queries are a CSS rule that only takes place when certain conditions are met When writing a media query in CSS it is like writing an IF statement meaning:

If this happens, then do this.

It is best practice to set your media queries for larger versions of your website



```
.bgcolor {
background-color: green; height:
100vh;
/*sm*/
@media (min-width: 576px) and
(max- width: 767px){
. bgcolor{ background-color: blue;
height: 100vh;
```

BUTTONS

Buttons use the class btn followed by an additional class for coloring or outline or both

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

BUTTONS

Make buttons different sizes by applying these rules:



The classes that define the different sizes are:

- .btn-lg
- .btn-md
- .btn-sm
- .btn-xs

```
CODETAL COLUMN TO THE PARTY OF THE PARTY OF
```

```
<button type="button" class="btn btn-primary btn-lg">Large</button>
  <button type="button" class="btn btn-primary btn-md">Medium</button>
  <button type="button" class="btn btn-primary btn-sm">Small</button>
  <button type="button" class="btn btn-primary btn-xs">XSmall</button>
```

HREF BUTTON You may apply the previously mentioned classes to your href links

BUY NOW

<div class="container">BUY NOW</div>



What is Jumbotron?

A jumbotron indicates a big box for calling extra attention to some special content or information.

A jumbotron is displayed as a grey box with rounded corners. It also enlarges the font sizes of the text inside it.

HERE IS AN EXAMPLE OF HOW THE JUMBOTRON IS WRITTEN AND DISPLAYED



Lorem ipsum dolor sit mollit anim id est laborum.

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consectetur adipisicing elit.

OVERWRITE JUMBOTRON BOOTSTRAP CSS

You can overwrite bootstrap in the css

 In this case, we can overwrite the gray background associated with the jumbotron.

Apply the class to your external stylesheet

.jumbotron { background-color: #ff519a; }



Lorem ipsum dolor sit mollit anim id est laborum.

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consected dipisicing elit.

BEFORE

AFTER

Lorem ipsum dolor sit mollit anim id est laborum.

Lorent josum dolor sit amet, consectetur adioisicing elit, sed do esusmod tempor incididunt ut labore et dolore magna aliqua

Lorem (psum dolor sit amet, consectetur adipisicing elit.

NAVBAR AND CUSTOMIZATION

Navbar Home Link Dropdown ▼ Disabled

Search

Search

Visit: https://getbootstrap.com/docs/4.0/components/navbar/

Copy the code located under:

"Here's an example of all the sub-components included in a responsive light-themed navbar that automatically collapses at the lg (large) breakpoint."

Paste into your page.

Now modify the following to customize it further.

~Change the background color of the bar by modifying the first line to read:

<nav class="navbar navbar-expand-lg navbar-light"

style="background-color: #fff">

~ Change the button to black by modifying the button class for the search to read:

<button class="btn btn-dark my-2 my-sm-0" type="submit">Search</button>

~Add custom Company Name to

Custom Company Name

ADDITIONAL RESOURCES

ALL THINGS BOOTSTRAP

https://getbootstrap.com/

W3SCHOOLS

https://www.w3schools.com/bootstrap4/default.asp

Build 3 Projects in Bootstrap 4!

https://www.udemy.com/bootstrap-4-tutorials/

