

Bootstrap 4.4.0

CSS

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.0/css/bootstrap.min.css" integrity="sha384-SI27wrMjH3ZZ89r4o+fGIJtnzkAnFs3E4qz9DIYioCQ5l9Rd/7UAa8DHcaL8jkWt" crossorigin="anonymous">
```

JS

JS is only necessary if you plan on using one or all of the following components: Alerts, Buttons, Carousel, Collapse, Dropdowns, Modals, Navbar, Tooltips and Scrollspy

```
<script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-J6qa4849b1E2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>
```

```
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.0/js/bootstrap.min.js" integrity="sha384-3qaqj0l6sV/qpzrc1N5DC6i1VRn/HyX4qdPaiEFbn54VjQBEU341pvjz7Dv3n6P" crossorigin="anonymous"></script>
```

Components

Alerts	List group
Badge	Media Object
Breadcrumb	Modal
Buttons	Navs
Button group	Navbar
Card	Pagination
Carousel	Popovers
Collapse	Progress
Dropdowns	Scrollspy
Forms	Spinners
Input group	Toasts
Jumbotron	Tooltips

Utilities

Borders	Sizing
Clearfix	Spacing
Close icon	Text
Colors	Vertical align
Display	Visibility
Embed	
Flex	
Float	
Image replacement	
Position	
Screenreaders	
Shadows	

Breakpoints

Extra small devices (portrait phones, less than 576px) do not require a breakpoint because Bootstrap 4 is mobile first.

Breakpoints | Max container width

not needed=Extra small < 576px | None (auto)

sm=Small ≥ 576px | 540px

md=Medium ≥ 768px | 720px

lg=Large ≥ 992px | 960px

xl=Extra large ≥ 1200px | 1140px

Media Queries

Change the width value to set a media query for sm, md, lg, xl.

```
/* Small devices (landscape phones, 576px and up) */
```

```
@media (min-width: 576px) { }
```

Lists

.list-unstyled Removes default list margin

.dl-horizontal Makes list items two columns

.list-inline Makes list items inline

.list-inline-item Added to each li

Example

```
<ul class="social-icons list-inline">
<li class="list-inline-item">item 1</li>
</ul>
```

Typography



.text-left Left aligned text

.text-*-left Left aligned by breakpoint

.text-center Center aligned text

.text-right Right aligned text

.text-justify Justified text

.text-nowrap No wrap text

.text-(lowercase, uppercase, capitalize) Changes the text capitalization style

.text-decoration-none Removes decoration

.text-truncate Truncate text with ellipsis

.lead Good for first paragraph of article

.text-monospace Changes to monospace font

.font-weight-(bold, bolder, normal, light, lighter, italic) Changes the font weight

.blockquote Slightly increases font-size and sets a bottom margin for blockquotes

.(h1, h2, h3, h4, h5, h6) Used to make an element match the heading styles

.display-(1, 2, 3, 4) Large display text. 1=96px, 2=88px, 3=72px, 4=56px

Colors

.text-primary

.bg-primary

.text-secondary

.bg-secondary

.text-success

.bg-success

.text-danger

.bg-danger

.text-warning

.bg-warning

.text-info

.bg-info

.text-light

.bg-light

.text-dark

.bg-dark

.text-body

.bg-white

.text-muted

.bg-transparent

.text-white

.text-black-50

.text-white-50

Images

`.img-fluid` Make an image responsive
`.rounded` Adds rounded corners to image
`.rounded-circle` Crops image to be circle
`.img-thumbnail` Adds rounded corner and img border

Floats

`.float-left` Floats item left
`.float-right` Floats item right
`.float-none` Removes float
`.float-*-*` Add breakpoints if needed

Borders

Add border

`.border` Add border to all sides
`.border-*` (top, right, bottom, left) Add border on a certain edge

Remove Border

`.border-0` Remove border to all sides
`.border-*-0` (top, right, bottom, left) Remove border on a certain edge

Border Radius

`.rounded` Adds border radius on all edges
`.rounded-*` (top, right, bottom, left, circle) Adds a border radius
`.rounded-0` Removes border radius

Display

Value can equal one of the following:
`none`, `inline`, `inline-block`, `block`,
`table`, `table-cell`, `table-row`, `flex`,
`inline-flex`

`.d-(value)` for xs
`.d-(sm, md, lg, and xl)-(value)` sets display value for breakpoint and up

Position

`.position-(static, relative, absolute, fixed, sticky)` Sets CSS position values but not responsive
`.fixed-(top, bottom)` Position an element to the top of the viewport.
`.sticky-top` Position an element at the top of the viewport, but only after you scroll past it. Not fully supported in IE.

Shadows

`.shadow` The regular sized box drop shadow
`.shadow-(none, sm, lg)` Remove box drop shadow or change its size.

Sizing

Make an element as wide or as tall (relative to its parent)

`.w-(5%, 50%, 75%, 100%, auto)` Sets width
`.h-(5%, 50%, 75%, 100%, auto)` Sets height
`.mw-(5%, 50%, 75%, 100%, auto)` Sets max-width
`.mh-(5%, 50%, 75%, 100%, auto)` Sets max-height

Spacing

Sides

t= top, **b**=bottom, **l**=left, **r**=right,
x=x axis, **y**=y-axis

Size

The values for each level of spacing are calculation of the base font size which is 16px or 1rem.

Here the pixel equivalents. **0**=0px, **1**=4px, **2**=2px, **3**=16px, **4**=24px, **5**=48px, **auto**

.m(t, b, l, r, x, y)-(sm, md, lg, and xl)-(0, 1, 2, 3, 4, 5, auto) Sets margin value, remove breakpoint for xs

.p(t, b, l, r, x, y)-(sm, md, lg, and xl)-(0, 1, 2, 3, 4, 5, auto) Sets padding value, remove breakpoint for xs

.mx-auto Used to horizontally center an element relative to parent container

Negative Margin

Add the letter n in from of the margin size value to apply a negative margin.

For example: **.mt-n1** would apply a size 1 negative top margin.

Vertical Align

.align-(baseline, top, middle, bottom, text-top, text-bottom) Changes the vertical alignment of inline, inline-block, inline-table, and table cell elements.

Visibility

These classes do not modify the display property and do not affect layout.

.visible Takes up space and visible

.invisible Takes up space and invisible

Overflow

Set how content overflows a parent element.

.overflow-auto Container will have a scroll if the content overflows

.overflow-hidden The container will not scroll and the content will be cut off.

Screenreaders

.sr-only Only show on screen readers

.sr-only-focusable Show element when it has a focused state

Starter Template

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.0/css/bootstrap.min.css" integrity="sha384-SI27wrMjH3ZZ89r4o+fGIJtnzkAnFs3E4qz9DIYioCQ5l9Rd/7UAa8DHcaL8jkWt" crossorigin="anonymous">
    <!-- Main CSS -->
    <link rel="stylesheet" href="css/main.css">
  </head>
  <body>
    <div class="container">
      <h1>Hello, world!</h1>
      <div class="row">
        <div class="col-sm-6">Left Column</div>
        <div class="col-sm-6">Right Column</div>
      </div>
    </div>
    <!-- jQuery first, then Popper, then Bootstrap JS. -->
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js" integrity="sha384-J6qa4849bIE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0wwj1yYfoRSJoZ+n" crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js" integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.0/js/bootstrap.min.js" integrity="sha384-3qaqj0lc6sV/qpzrc1N5DC6i1VRn/HyX4qdPaiEFbn54VjQBEU341pvjz7Dv3n6P" crossorigin="anonymous"></script>
    <!-- Main JS -->
    <script src="js/main.js"></script>
  </body>
</html>
```

One Column Centered Grid

```
<div class="container">
  <div class="row justify-content-center">
    <div class="col-md-6"></div>
  </div>
</div>
```

Two Column Grid

```
<div class="container">
  <div class="row">
    <div class="col-sm-6"></div>
    <div class="col-sm-6"></div>
  </div>
</div>
```

Three Column Grid

```
<div class="container">
  <div class="row">
    <div class="col-sm-4"></div>
    <div class="col-sm-4"></div>
    <div class="col-sm-4"></div>
  </div>
</div>
```

Responsive Container & Row

```
<div class="container-md">
  <div class="row row-cols-1 row-cols-md-3">
    <div class="col"></div>
    <div class="col"></div>
    <div class="col"></div>
  </div>
</div>
```

Figures

```
<figure class="figure">
  
  <figcaption class="figure-caption">A
  caption for the above image.</figcaption>
</figure>
```

Media Object

```
<div class="media">
  
  <div class="media-body">
    <h5 class="mt-0">Media heading</h5>
    Media object description text
  </div>
</div>
```

Code

<code>

Used to display inline code in a paragraph

<pre class="pre-scrollable">

Display multiple lines of code. Use **.pre-scrollable** class to set a max-height of 340px and provide a y-axis scrollbar

<var>

Used to display math variables

<kbd>

Used to display keyboard input

<samp>

Used to display sample output

Navbar

```
<nav class="navbar navbar-toggleable-md navbar-dark bg-primary">
  <button class="navbar-toggler navbar-toggler-right" type="button" data-
toggle="collapse" data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown"
aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <a class="navbar-brand" href="#">Navbar</a>
  <div class="collapse navbar-collapse" id="navbarNavDropdown">
    <ul class="navbar-nav">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Features</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Pricing</a>
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="http://example.com"
id="navbarDropdownMenuLink" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">
          Dropdown link
        </a>
        <div class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
          <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>
      </li>
    </ul>
  </div>
</nav>
```

Modal

```

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

<!-- Modal -->
<div class="modal fade" id="myModal" 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">
        <h2>Modal body heading</h2>
        <p>Modal body text description</p>
      </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>

```


Forms

```
<form>
  <div class="form-group">
    <label for="exampleInputEmail1">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" aria-
describedby="emailHelp" placeholder="Enter email">
    <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"
placeholder="Password">
  </div>
  <div class="checkbox">
    <label>
      <input type="checkbox"> Check me out
    </label>
  </div>
  <button type="submit" class="btn btn-primary">Submit</button>
</form>
```

Buttons

.btn Needs to be added to all buttons because it adds padding and margin

.btn-* primary, secondary, success, danger, warning, info, light, dark, link

.btn-outline-* primary, secondary, success, danger, warning, info, light, dark, link

.btn-lg Large button

.btn-sm Smaller than default button

Example

```
<a class="btn btn-primary" href="#" role="button">Link</a>
<button class="btn btn-secondary" type="submit">Button</button>
```

Carousel

```
<div id="carousel-name" class="carousel slide" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#carousel-name" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-name" data-slide-to="1"></li>
    <li data-target="#carousel-name" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner" role="listbox">
    <div class="carousel-item active">
      
      <div class="carousel-caption d-none d-md-block">
        <h3>Carousel Slider Title</h3>
        <p>Description text to further describe the content of the slide image</p>
        <a href="" class="btn btn-primary">Call to Action</a>
      </div>
    </div>
    <div class="carousel-item">
      
      <div class="carousel-caption d-none d-md-block">
        <a href="" class="btn btn-primary">Call to Action</a>
      </div>
    </div>
  </div>
  <a class="carousel-control-prev" href="#carousel-name" 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="#carousel-name" role="button" data-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```

Jumbotron

```
<div class="jumbotron jumbotron-fluid">
  <div class="container">
    <h1 class="display-3">Fluid jumbotron</h1>
    <p class="lead">This is a modified jumbotron that occupies the entire horizontal
space of its parent.</p>
  </div>
</div>
```

Card

```
<div class="card" style="width: 20rem;">
  
  <div class="card-body">
    <h4 class="card-title">Card title</h4>
    <p class="card-text">Some quick example text to build on the card title and make up
the bulk of the card's content.</p>
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```

Breadcrumbs

```
<ol class="breadcrumb">
  <li><a href="#">Home</a></li>
  <li><a href="#">Library</a></li>
  <li class="active">Data</li>
</ol>
```

Responsive embed

```
<div class="embed-responsive embed-responsive-16by9">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```

Tabs

```
<ul class="nav nav-tabs" id="myTab">
  <li class="nav-item">
    <a class="nav-link active" data-toggle="tab" href="#tabOne">Tab 1</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" data-toggle="tab" href="#tabTwo">Tab 2</a>
  </li>
</ul>
<div class="tab-content pt-3" id="myTabContent">
  <div class="tab-pane fade active show" id="tabOne">Tab One Content</div>
  <div class="tab-pane fade" id="tabTwo">Tab Two Content</div>
</div>
```

Alerts

```
<div class="alert alert-warning alert-dismissible fade show" role="alert">
  <strong>Note</strong> This alert is dismissable.
  <button type="button" class="close" data-dismiss="alert" aria-label="Close">
    <span aria-hidden="true">&times;</span>
  </button>
</div>
```

Collapse

```
<a class="btn btn-primary mb-3 collapsed" data-toggle="collapse"
href="#collapseContent" role="button" aria-expanded="false" aria-
controls="collapseContent"><span class="if-collapsed"><b>+</b> Show Content</span>
  <span class="if-not-collapsed"><b>-</b> Hide Content</span></a>
<div class="collapse" id="collapseContent">
  <div class="card card-body">Collapse Content</div>
</div>
<style> /* this custom CSS is used to toggle the button text */
[data-toggle="collapse"].collapsed .if-not-collapsed,
[data-toggle="collapse"]:not(.collapsed) .if-collapsed {display: none;}
</style>
```

Tables

```
<table class="table">
  <thead class="thead-dark">
    <tr>
      <th>#</th>
      <th>thead-dark</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Nina</td>
    </tr>
  </tbody>
</table>
```

Dropdowns

```
<div class="dropdown">
  <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdown" data-
toggle="dropdown" aria-haspopup="true"
aria-expanded="false">Dropdown Actions</button>
  <div class="dropdown-menu" aria-labelledby="dropdown">
    <a class="dropdown-item" href="#">Action One</a>
    <a class="dropdown-item" href="#">Action Two</a>
    <a class="dropdown-item" href="#">Action Three</a>
  </div>
</div>
```



Component CSS Format and Media Queries

```
/*
 * Component section heading
 *
 * Component description and use
 */

/* base - shared styles */
.component { width: 220px; }

/* Sub-component with component name as a prefix to isolate styles and
break the cascade. */

.component-heading {
  display: block;
  width: 100px;
  font-size: 1rem;
}

/* variant - alert color */
.component-alert {
  color: #ff0000;
}

/* variant - success color */
.component-success {
  color: #00ff00;
}

/* Add media queries below components instead of a separate stylesheet
or section to make updating easier */

@media (min-width: 480px) {
  .component-heading { width:auto; }
}
```

Learn Bootstrap 4 and Responsive Design Basics.. Fast!



Learn More
BootstrapQuickStart.com

Alphabetical Index of CSS Classes

.active
.accordion
.alert
.alert-(primary, secondary, success, danger, warning, info, light, dark)
.alert-dismissible
.alert-heading
.alert-link
.align-(baseline, top, middle, bottom, text-top, text-bottom)
.align-content-(sm, md, lg, xl)-(around, between, center, end, start, stretch)
.align-items-(sm, md, lg, xl)-(baseline, center, end, start, stretch)
.align-self-(sm, md, lg, xl)-(auto, baseline, center, end, start, stretch)
.arrow
.badge
.badge-(primary, secondary, success, danger, warning, info, light, dark)
.badge-pill
.bg-(primary, secondary, success, danger, warning, info, light, dark, transparent, white)
.blockquote
.blockquote-footer
.border-(light, dark primary, secondary, transparent, white, warning, success, info, danger, 0, top-0, right-0, bottom-0, left-0)
.border-(bottom, left, right, top)
.breadcrumb
.breadcrumb-item
.bs-popover-(auto, bottom, left, right, top)
.bs-tooltip-(auto, bottom, left, right, top)
.btn
.btn-block
.btn-group
.btn-group-(sm, lg)
.btn-group-toggle
.btn-group-vertical
.btn-(sm, lg)
.btn-link
.btn-outline-(primary, secondary, success, danger, warning, info, light, dark)
.btn-(primary, secondary, success, danger, warning, info, light, dark)
.btn-toolbar
.card
.card-body
.card-columns
.card-deck
.card-footer
.card-group
.card-header
.card-header-pills
.card-header-tabs
.card-img
.card-img-bottom
.card-img-overlay
.card-img-top
.card-link
.card-subtitle
.card-text
.card-title
.carousel

Bootstrap 4

.carousel-caption
.carousel-control-(next, prev)
.carousel-control-(next, prev)-icon
.carousel-fade
.carousel-indicators
.carousel-inner
.carousel-item
.carousel-item-(left, right)
.carousel-item-(next, prev)
.clearfix
.close
.col
.col-(sm, md, lg, xl)-(1-12)
.col-auto
.col-form-label
.col-form-label-(sm, lg)
.collapse
.collapsing
.container
.container-fluid
.container-(sm, md, lg, xl)
.custom-checkbox
.custom-control
.custom-control-inline
.custom-control-input
.custom-control-label
.custom-file
.custom-file-control
.custom-file-input
.custom-file-label
.custom-radio
.custom-range
.custom-select
.custom-select-(sm, lg)
.custom-switch
.d-(sm, md, lg, xl)-(none, inline, inline-block, block, table, table-cell, table-row, flex, inline-flex)
.d-print-(block, inline, inline-block, none, flex, inline-flex, table, table-cell, print-table-row)
.disabled
.display-(1, 2, 3, 4)
.dropdown
.dropdown-divider
.dropdown-header
.dropdown-item
.dropdown-item-text
.dropdown-menu
.dropdown-menu-right
.dropdown-menu-(sm, md, lg, xl)-(right, left)
.dropdown-toggle
.dropdown-toggle-split
.dropleft
.dropright
.dropup
.embed-responsive
.embed-responsive-(16by9, 1by1, 21by9, 4by3)
.embed-responsive-item
.fade
.figure
.figure-caption
.figure-img
.fixed-bottom
.fixed-top
.flex-(sm, md, lg, xl)-(row, row-reverse, column)
.flex-(sm, md, lg, xl)-(nowrap, wrap, wrap-reverse)
.flex-column

```
.flex-column-reverse
.flex-fill
.flex-grow-*
.flex-shrink-*
.float-(sm, md, lg, xl)-(none, left, right)
.focus
.font-italic
.font-weight-(bold, bolder, light, lighter, normal)
.form-check
.form-check-inline
.form-check-input
.form-check-label
.form-control
.form-control-file
.form-control-(sm, lg)
.form-control-plaintext
.form-control-range
.form-group
.form-inline
.form-row
.form-text
.h-(100, 75, 50, 25, auto)
.(h1-h6)
.hide
.img-fluid
.img-thumbnail
.initialism
.input-group
.input-group-append
.input-group-(sm, lg)
.input-group-prepend
.input-group-text
.invalid-feedback
.invalid-tooltip
.invisible
.is-invalid
.is-valid
.jumbotron
.jumbotron-fluid
.justify-content-(sm, md, lg, xl)-(start, end, center, between, around)
.lead
.list-group
.list-group-flush
.list-group-horizontal-(sm, md, lg, xl)
.list-group-item
.list-group-item-action
.list-group-item-(primary, secondary, success, danger, warning, info, light, dark)
.list-(inline, inline-item, unstyled)
.m(t,b,r,l,x,y)-(sm, md, lg, xl)-(0, 1, 2, 3, 4, 5, n1, n2, n3, n4, n5)
.mark
.media
.media-body
.mh-100
.modal
.modal-backdrop
.modal-body
.modal-content
.modal-dialog
.modal-dialog-(centered, scrollable)
.modal-footer
.modal-header
.modal-(sm, lg)
.modal-open
.modal-scrollbar-measure
.modal-title
```

Bootstrap 4

.nav
.nav-fill
.nav-item
.nav-justified
.nav-link
.nav-pills
.nav-tabs
.navbar
.navbar-brand
.navbar-collapse
.navbar-(dark, light)
.navbar-expand-(sm, md, lg, xl)
.navbar-nav
.navbar-text
.navbar-toggler
.navbar-toggler-icon
.no-gutters
.offset-(sm, md, lg, xl)-(1-12)
.order-(sm, md, lg, xl)-first
.order-(sm, md, lg, xl)-last
.order-(sm, md, lg, xl)-(0-12)
.p(t,b,r,l,x,y)-(sm, md, lg, xl)-(0, 1, 2, 3, 4, 5, n1, n2, n3, n4, n5)
.overflow-(auto, hidden)
.page-item
.page-link
.pagination
.pagination-(sm, lg)
.popover
.popover-body
.popover-header
.position-(absolute, fixed, relative, static, sticky)
.pre-scrollable
.progress
.progress-bar
.progress-bar-animated
.progress-bar-striped
.rounded
.rounded-(top, right, bottom, left, circle, pill, 0, lg, sm)
.rounded-circle
.row
.row-cols-(sm, md, lg, xl)-(1, 2, 3, 4, 5, 6)
.shadow-(none, sm, lg)
.show
.showing
.small
.spinner-(border, border-sm, grow, grow-sm)
.sr-only
.sr-only-focusable
.stretched-link
.tab-content
.tab-pane
.table
.table-active
.table-bordered
.table-borderless
.table-hover
.table-(primary, secondary, success, danger, warning, info, light, dark)
.table-responsive-(sm, md, lg, xl)
.table-sm
.table-striped
.text-(primary, secondary, success, danger, warning, info, light, dark, muted, white, decoration-none, reset)
.text-hide
.text-justify

```
.text-(sm, md, lg, xl)-(center, left,
right)
.text-(lowercase, uppercase, capitalize,
black-50, body, monospace, white-50,
break)
.text-(wrap, nowrap)
.text-truncate
.text-warning
.thead-dark
.thead-light
.toast
.toast-(body, header)
.tooltip
.tooltip-inner
.valid-feedback
.valid-tooltip
.vh-100
.vw-100
.visible
.w-(100, 75, 50, 25)
.was-validated
.w-auto
```

Convert Pixels to REMS

Pixels	REMS	Pixels	REMS
1 px	0.0625	26 px	1.625
2 px	0.125	27 px	1.6875
3 px	0.1875	28 px	1.75
4 px	0.25	29 px	1.8125
5 px	0.3125	30 px	1.875
6 px	0.375	31 px	1.9375
7 px	0.4375	32 px	2
8 px	0.5	33 px	2.0625
9 px	0.5625	34 px	2.125
10 px	0.625	35 px	2.1875
11 px	0.6875	36 px	2.25
12 px	0.75	37 px	2.3125
13 px	0.8125	38 px	2.375
14 px	0.875	39 px	2.4375
15 px	0.9375	40 px	2.5
Default Bootstrap 4 font size	1	41 px	2.5625
16 px		42 px	2.625
17 px	1.0625	43 px	2.6875
18 px	1.125	44 px	2.75
19 px	1.1875	45 px	2.8125
20 px	1.25	46 px	2.875
21 px	1.3125	47 px	2.9375
22 px	1.375	48 px	3
23 px	1.4375	49 px	3.0625
24 px	1.5	50 px	3.125
25 px	1.5625		

Multiples of Common Units of Measure

Multiples of 15		Multiples of 30	
15	405	30	810
30	420	60	840
45	435	90	870
60	450	120	900
75	465	150	930
90	480	180	960
105	495	210	990
120	510	240	1020
135	525	270	1050
150	540	300	1080
165	555	330	1110
180	570	360	1140
195	585	390	1170
210	600	420	1200
225	615	450	1230
240	630	480	1260
255	645	510	1290
270	660	540	1320
285	675	570	1350
300	690	600	1380
315	705	630	1410
330	720	660	1440
345	735	690	1470
360	750	720	1500
375	765	750	1530
390	780	780	1560

Default Text Sizes

Bootstrap's font sizes are calculated off of the body font size by using rem values. If you change the body font size all styles will be increased/decreased automatically. Rem stands for "root em" because it calculates the size based on the size of the root of the document or body tag.

Tag / Class	Default Font size
body	16px; line-height: 1.5; font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
p, li	1rem / 16px
h1	2.5rem / 40px
h1 small	80% / 32px
h2	2rem / 32px
h2 small	80% / 25.6px
h3	1.75rem / 28px
h3 small	80% / 22.4px
h4	1.5rem / 24px
h4 small	80% / 24px
h5	1.25rem / 20px
h5 small	80% / 16px
h6	1rem / 16px
h6 small	80% / 12.8px
.display-1	6rem / 90px
.display-2	5.5rem / 82.5px
.display-3	4.5rem / 67.5px
.display-4	3.5rem / 52.5px

CSS Code Best Practices

- Try and list properties in this order: 1. Positioning, 2. Box model (display, float, width, etc), 3. Typography (font, line-height), 4. Visuals (background, border, opacity), 5. Misc (CSS3 properties)
- Any rule set with multiple declarations should be split to separate lines because syntax errors on Line numbers would be hard to find.
- Use soft-tabs set to two spaces, set encoding to UTF-8
- When using multiple CSS files, break them down by component instead of page.
- Keep media queries as close to their relevant rule sets whenever possible. Don't bundle them all in a separate stylesheet or at the end of the document.
- Do not use @import because it slows down page load.
- Place closing braces of declaration blocks on a new line.
- End all declarations with a semi-colon to prevent errors.
- Lowercase all hex values. For example, #fff instead of #FFF.
- Avoid specifying units for zero values. For example, margin: 0; instead of margin: 0px;.

Inspired by Code Guide by Mark Otto: <http://codeguide.co/>

Design Inspiration

- **Bootstrap Expo**
<https://expo.getbootstrap.com/>
- **Built With Bootstrap**
<http://builtwithbootstrap.com/>
- **Wrap Bootstrap**
<https://wrapbootstrap.com/>
- **Official Bootstrap Themes**
<https://themes.getbootstrap.com/>
- **AWWWARDS**
<https://www.awwwards.com/websites/responsive-design/>
- **Media Queries**
<https://mediaqueri.es/>
- **Pattern Tap**
<http://zurb.com/patterntap>
- **CodePen Pattern Library**
<http://codepen.io/patterns/>
- **Building Blocks**
<http://foundation.zurb.com/building-blocks/>

HTML Reference

- **Mozilla HTML Reference**
<https://developer.mozilla.org/en-US/docs/Web/HTML>
- **HTMLReference.io**
<https://htmlreference.io/>

CSS Reference

- **Mozilla CSS Reference**
<https://developer.mozilla.org/en-US/docs/Web/CSS/Reference>
- **CSS-Tricks Almanac**
<https://css-tricks.com/almanac/>
- **Can I Use?**
<https://caniuse.com/>
- **CSSreference.io**
<https://cssreference.io/>

JavaScript Reference

- **Mozilla JavaScript Reference**
<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference>
- **jQuery Documentation**
<https://api.jquery.com/>

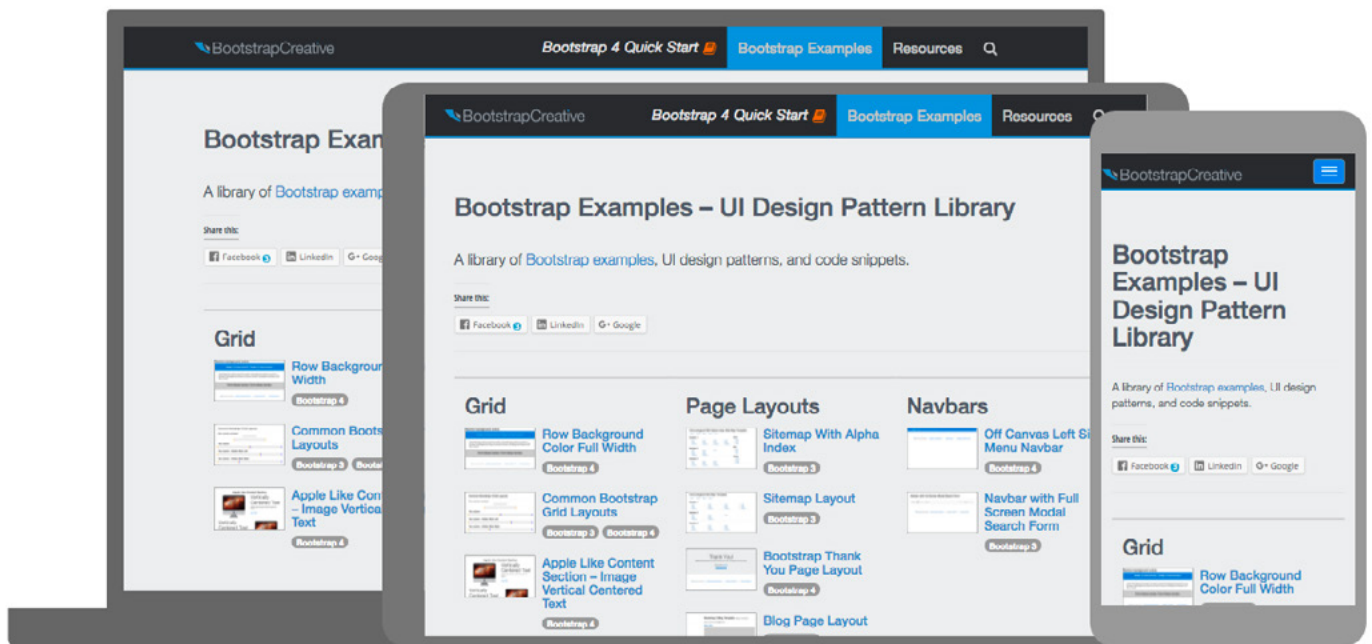
Bootstrap Reference

- **Bootstrap 4 Classes Reference**
<https://bootstrapcreative.com/resources/bootstrap-4-css-classes-index/>
- **Bootstrap 3 Classes Reference**
<https://bootstrapcreative.com/resources/bootstrap-3-css-classes-index/>
- **Official Bootstrap Documentation**
<http://getbootstrap.com/>
- **Bootsnip - Bootstrap Code Snippets**
<https://bootsnipp.com/>

Bootstrap Code Snippets and Examples Library

A collection of code snippets to help you quickly customize components. Includes the necessary HTML, CSS, and JS you need to implement in your project.

<https://bootstrapcreative.com/pattern/>



Thank you!

I hope you have found this Bootstrap reference guide helpful and informative.

Let's make a responsive web together!



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<https://bootstrapcreative.com/signup>

Find an error? Or have a suggestion on how this book could be improved?

Please contact support@bootstrapcreative.com