

# **WHAT IS RESPONSIVE WEB DESIGN?**

# THE HELPER.

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# BOOTSTRAP 5

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# WHAT IS BOOTSTRAP?

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- 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

# THE MAIN FEATURES OF BOOTSTRAP

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- Bootstrap is a free front-end framework, with the purpose to make web development faster and easier.
- It also includes HTML and CSS-based design templates for forms, typography, buttons, navigation, tables, modals, image carousels, and many other components along with other optional JavaScript plugins.
- Bootstrap also provides the users with the ability to easily create responsive designs.
- The responsive CSS of Bootstrap also adjusts to phones, tablets, and desktops easily.
- It is compatible with all modern browsers like Chrome, Firefox, Internet Explorer, Edge, Safari, and Opera.

# BOOTSTRAP 5

## CONTAINERS

Bootstrap comes with three different containers:

`.container` : which sets a max-width at each responsive breakpoint

`.container-{breakpoint}` : which is width: 100% until the specified breakpoint

`.container-fluid` : which is width: 100% at all breakpoints

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_containers.php](https://www.w3schools.com/bootstrap5/bootstrap_containers.php)

Containers

Additional classes added in Bootstrap v4.4 allow containers that are 100% wide until a particular breakpoint. v5 adds a new `xxl` breakpoint.

`.container`

`.container-sm`

`.container-md`

`.container-lg`

`.container-xl`

`.container-xxl`

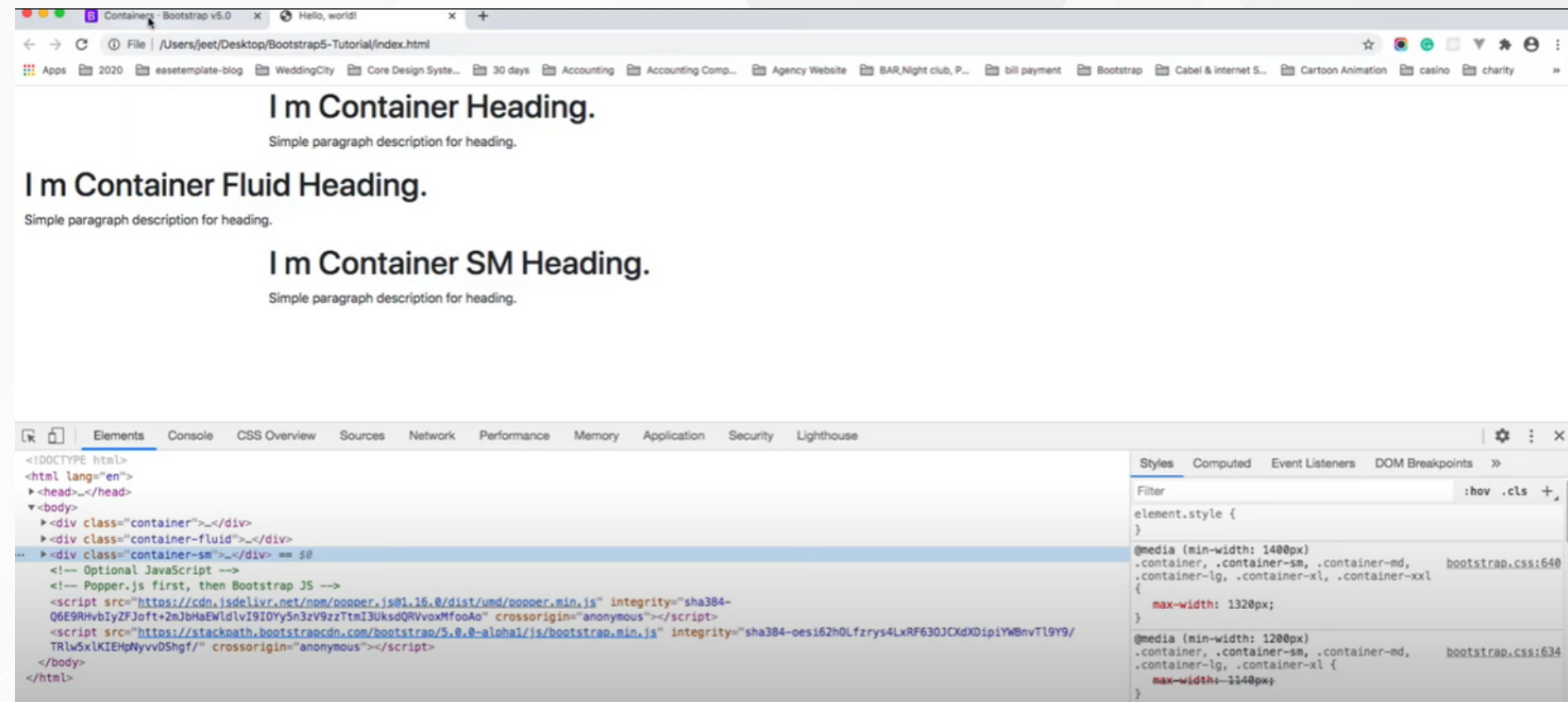
`.container-fluid`

Class	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px	XXL ≥1400px
<code>.container-sm</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-md</code>	100%	100%	720px	960px	1140px	1320px
<code>.container-lg</code>	100%	100%	100%	960px	1140px	1320px
<code>.container-xl</code>	100%	100%	100%	100%	1140px	1320px
<code>.container-xxl</code>	100%	100%	100%	100%	100%	1320px



# EXAMPLE

```
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-scale=1" />
7
8     <!-- Bootstrap CSS -->
9     <link rel="stylesheet" href="css/bootstrap.css" />
10    <!-- Custom CSS-->
11    <link rel="stylesheet" href="css/custom.css" />
12
13    <title>Hello, world!</title>
14  </head>
15  <body>
16
17    <div class="container">
18      <!-- Content here -->
19      <h1>I m Container Heading.</h1>
20      <p>Simple paragpg description for heading.</p>
21    </div>
22
23    <div class="container-fluid">
24      <h1>I m Container Fluid Heading.</h1>
25      <p>Simple paragraph description for heading.</p>
26    </div>
27
28    <div class="container-sm">
29      <h1>I m Container SM Heading.</h1>
30      <p>Simple paragraph description for heading.</p>
31    </div>
32
33
34    <!-- Optional JavaScript -->
35    <!-- Popper.js first, then Bootstrap JS -->
```





# BOOTSTRAP 5

## GRIDS

The Bootstrap 5 grid system has six 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)
- **.col-xxl-** (xxlarge devices - screen width equal to or greater than 1400px)

	<b>xs</b> <576px	<b>sm</b> ≥576px	<b>md</b> ≥768px	<b>lg</b> ≥992px	<b>xl</b> ≥1200px	<b>xxl</b> ≥1400px
<b>Container</b> <small>max-width</small>	None (auto)	540px	720px	960px	1140px	1320px
<b>Class prefix</b>	<small>.col-</small>	<small>.col-sm-</small>	<small>.col-md-</small>	<small>.col-lg-</small>	<small>.col-xl-</small>	<small>.col-xxl-</small>
<b># of columns</b>	12					
<b>Gutter width</b>	1.5rem (.75rem on left and right)					
<b>Custom gutters</b>	<a href="#">Yes</a>					
<b>Nestable</b>	<a href="#">Yes</a>					
<b>Column ordering</b>	<a href="#">Yes</a>					

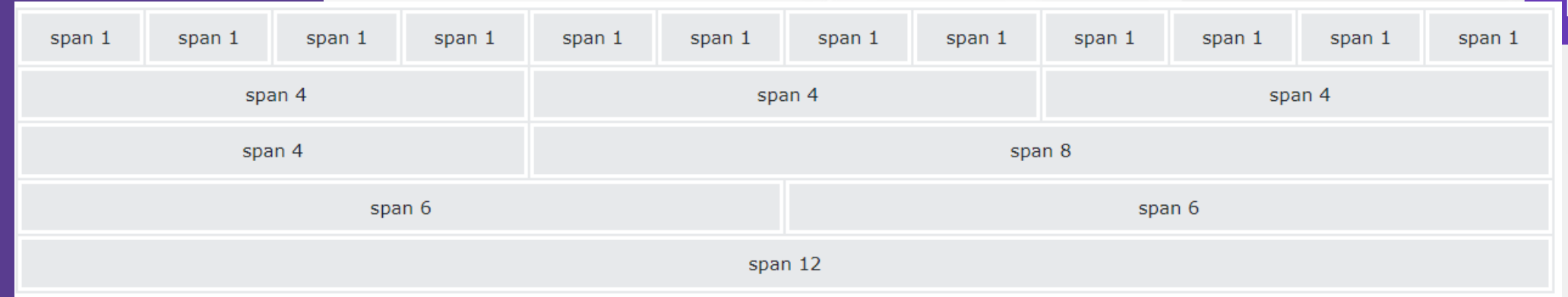
# BOOTSTRAP 5

## GRIDS

	<b>xs</b> <576px	<b>sm</b> ≥576px	<b>md</b> ≥768px	<b>lg</b> ≥992px	<b>xl</b> ≥1200px	<b>xxl</b> ≥1400px
<b>Container</b> <i>max-width</i>	None (auto)	540px	720px	960px	1140px	1320px
<b>Class prefix</b>	<i>.col-</i>	<i>.col-sm-</i>	<i>.col-md-</i>	<i>.col-lg-</i>	<i>.col-xl-</i>	<i>.col-xxl-</i>
<b># of columns</b>	12					
<b>Gutter width</b>	1.5rem (.75rem on left and right)					
<b>Custom gutters</b>	<a href="#">Yes</a>					
<b>Nestable</b>	<a href="#">Yes</a>					
<b>Column ordering</b>	<a href="#">Yes</a>					

# BOOTSTRAP 5

## GRIDS



The Bootstrap 5 grid system has six 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)
- **.col-xxl-** (xxlarge devices - screen width equal to or greater than 1400px)

```
<!-- 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 5

## Flex

To create a flexbox container and to transform direct children into flex items, use the **d-flex** class:

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_flex.php](https://www.w3schools.com/bootstrap5/bootstrap_flex.php)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Flex</h2>
  <p>To create a flexbox container and transform direct children into flex items, use the d-flex class:</p>
  <div class="d-flex p-3 bg-secondary text-white">
    <div class="p-2 bg-info">Flex item 1</div>
    <div class="p-2 bg-warning">Flex item 2</div>
    <div class="p-2 bg-primary">Flex item 3</div>
  </div>
</div>

</body>
</html>
```

## Flex

To create a flexbox container and transform direct children into flex items, use the d-flex class:

Flex item 1 Flex item 2 Flex item 3

example [https://www.w3schools.com/bootstrap5/bootstrap\\_typography.php](https://www.w3schools.com/bootstrap5/bootstrap_typography.php)

# EXAMPLE

Use the `.justify-content-*` classes to change the alignment of flex items. Valid classes are `start` (default), `end`, `center`, `between` or `around`:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Justify content</h2>
  <p>Use the .justify-content-* classes to change the alignment of flex items. Choose from start (default),
between or around:</p>
  <div class="d-flex justify-content-start bg-secondary mb-3">
    <div class="p-2 bg-info">Flex item 1</div>
    <div class="p-2 bg-warning">Flex item 2</div>
    <div class="p-2 bg-primary">Flex item 3</div>
  </div>
  <div class="d-flex justify-content-end bg-secondary mb-3">
    <div class="p-2 bg-info">Flex item 1</div>
    <div class="p-2 bg-warning">Flex item 2</div>
    <div class="p-2 bg-primary">Flex item 3</div>
  </div>
  <div class="d-flex justify-content-center bg-secondary mb-3">
    <div class="p-2 bg-info">Flex item 1</div>
    <div class="p-2 bg-warning">Flex item 2</div>
    <div class="p-2 bg-primary">Flex item 3</div>
  </div>
  <div class="d-flex justify-content-between bg-secondary mb-3">
    <div class="p-2 bg-info">Flex item 1</div>
    <div class="p-2 bg-warning">Flex item 2</div>
    <div class="p-2 bg-primary">Flex item 3</div>
  </div>
  <div class="d-flex justify-content-around bg-secondary mb-3">
    <div class="p-2 bg-info">Flex item 1</div>
    <div class="p-2 bg-warning">Flex item 2</div>
    <div class="p-2 bg-primary">Flex item 3</div>
  </div>
</div>

</body>
</html>
```

## Justify content

Use the `.justify-content-*` classes to change the alignment of flex items. Choose from `start` (default), `end`, `center`, `between` or `around`:



example

[https://www.w3schools.com/bootstrap5/bootstrap\\_typography.php](https://www.w3schools.com/bootstrap5/bootstrap_typography.php)

# BOOTSTRAP 5

## Navs

If you want to create a simple horizontal menu, add the `.nav` class to a `<ul>` element, followed by `.nav-item` for each `<li>` and add the `.nav-link` class to their links:

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_typography.php](https://www.w3schools.com/bootstrap5/bootstrap_typography.php)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Nav</h2>
  <p>Basic horizontal menu:</p>
  <ul class="nav">
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled" href="#">Disabled</a>
    </li>
  </ul>
</div>

</body>
</html>
```

## Nav

Basic horizontal menu:

Link Link Link Disabled

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_nav&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_nav&stacked=h)



# EXAMPLE

Add the `.justify-content-center` class to center the nav, and the `.justify-content-end` class to right-align the nav.

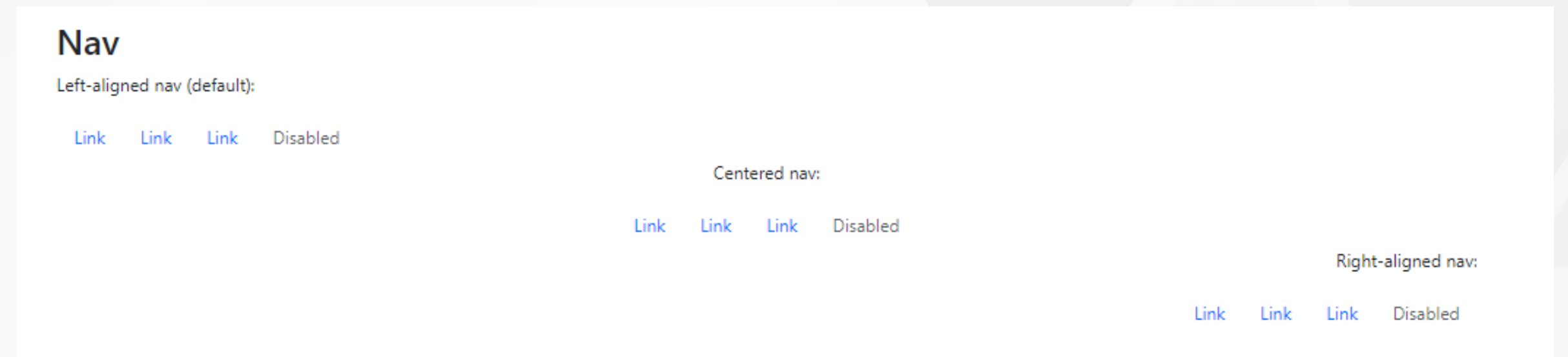
```
<body>

<div class="container mt-3">
  <h2>Nav</h2>
  <p>Left-aligned nav (default):</p>
  <ul class="nav">
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled" href="#">Disabled</a>
    </li>
  </ul>

  <p class="text-center">Centered nav:</p>
  <ul class="nav justify-content-center">
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled" href="#">Disabled</a>
    </li>
  </ul>

  <p class="text-end">Right-aligned nav:</p>
  <ul class="nav justify-content-end">
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled" href="#">Disabled</a>
    </li>
  </ul>
</div>

</body>
```



## example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_nav\\_align&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_nav_align&stacked=h)



# BOOTSTRAP 5

## Navbars

With Bootstrap, a navigation bar can extend or collapse, depending on the screen size.

A standard navigation bar is created with the `.navbar` class, followed by a responsive collapsing class: `.navbar-expand-xxl | xl | lg | md | sm` (stacks the navbar vertically on xxlarge, extra large, large, medium or small screens).

To add links inside the navbar, use either an `<ul>` element (or a `<div>`) with `class="navbar-nav"`. Then add `<li>` elements with a `.nav-item` class followed by an `<a>` element with a `.nav-link` class:

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_navbar.phpd](https://www.w3schools.com/bootstrap5/bootstrap_navbar.phpd)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js">
</script>
</head>
<body>

<nav class="navbar navbar-expand-sm bg-light justify-content-center">
  <ul class="navbar-nav">
    <li class="nav-item">
      <a class="nav-link" href="#">Link 1</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link 2</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link 3</a>
    </li>
  </ul>
</nav>

<div class="container-fluid mt-3">
  <h3>Centered Navbar</h3>
  <p>Use the .justify-content-center class to center the navigation bar.</p>
  <p>In this example, the navbar will be centered on medium, large and extra large screens. On small
screens it will be displayed vertically and left-aligned (because of the .navbar-expand-sm class).
</p>
</div>

</body>
</html>
```

Link 1 Link 2 Link 3

### Centered Navbar

Use the `.justify-content-center` class to center the navigation bar.

In this example, the navbar will be centered on medium, large and extra large screens. On small screens it will be displayed vertically and left-aligned (because of the `.navbar-expand-sm` class).

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_navbar\\_centered&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_navbar_centered&stacked=h)

# EXAMPLE

## Navbar Forms and Buttons

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<nav class="navbar navbar-expand-sm navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="javascript:void(0)">Logo</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#mynavbar">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="mynavbar">
      <ul class="navbar-nav me-auto">
        <li class="nav-item">
          <a class="nav-link" href="javascript:void(0)">Link</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="javascript:void(0)">Link</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="javascript:void(0)">Link</a>
        </li>
      </ul>
      <form class="d-flex">
        <input class="form-control me-2" type="text" placeholder="Search">
        <button class="btn btn-primary" type="button">Search</button>
      </form>
    </div>
  </div>
</nav>

<div class="container-fluid mt-3">
  <h3>Navbar Forms</h3>
  <p>You can also include forms inside the navigation bar.</p>
</div>

</body>
</html>
```

Logo Link Link Link

Search

### Navbar Forms

You can also include forms inside the navigation bar.

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_navbar\\_form&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_navbar_form&stacked=h)

# EXAMPLE

## Fixed Navigation Bar

### .fixed-top

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body style="height:1500px">

<nav class="navbar navbar-expand-sm bg-dark navbar-dark fixed-top">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Fixed top</a>
  </div>
</nav>

<div class="container-fluid" style="margin-top:80px">
  <h3>Top Fixed Navbar</h3>
  <p>A fixed navigation bar stays visible in a fixed position (top or bottom) independent of the page scroll.</p>
  <h1>Scroll this page to see the effect</h1>
</div>

</body>
</html>
```

Fixed top

### Top Fixed Navbar

A fixed navigation bar stays visible in a fixed position (top or bottom) independent of the page scroll.

Scroll this page to see the effect

example

[https://www.w3schools.com/bootstrap5/bootstrap\\_typography.php](https://www.w3schools.com/bootstrap5/bootstrap_typography.php)

### .fixed-bottom

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body style="height:1500px">

<nav class="navbar navbar-expand-sm bg-dark navbar-dark fixed-bottom">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Fixed bottom</a>
  </div>
</nav>

<div class="container-fluid"><br>
  <h3>Bottom Fixed Navbar</h3>
  <p>A fixed navigation bar stays visible in a fixed position (top or bottom) independent of the page scroll.</p>
  <h1>Scroll this page to see the effect</h1>
</div>

</body>
</html>
```

### Bottom Fixed Navbar

A fixed navigation bar stays visible in a fixed position (top or bottom) independent of the page scroll.

Scroll this page to see the effect

Fixed bottom

example

[https://www.w3schools.com/bootstrap5/bootstrap\\_typography.php](https://www.w3schools.com/bootstrap5/bootstrap_typography.php)



# BOOTSTRAP 5

## Tables

### Basic Table

A basic Bootstrap 5 table has a light padding and horizontal dividers.

The `.table` class adds basic styling to a table:

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_tables.php](https://www.w3schools.com/bootstrap5/bootstrap_tables.php)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Basic Table</h2>
  <p>The .table class adds basic styling (light padding and horizontal dividers) to a table:</p>

  <table class="table">
    <thead>
      <tr>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Email</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>John</td>
        <td>Doe</td>
        <td>john@example.com</td>
      </tr>
      <tr>
        <td>Mary</td>
        <td>Moe</td>
        <td>mary@example.com</td>
      </tr>
      <tr>
        <td>July</td>
        <td>Dooley</td>
        <td>july@example.com</td>
      </tr>
    </tbody>
  </table>
</div>

</body>
</html>
```

### Basic Table

The `.table` class adds basic styling (light padding and horizontal dividers) to a table:

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

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_table\\_basic&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_table_basic&stacked=h)



# EXAMPLE

## Striped Rows

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

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Striped Rows</h2>
  <p>The .table-striped class adds zebra-stripes to a table:</p>
  <table class="table table-striped">
    <thead>
      <tr>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Email</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>John</td>
        <td>Doe</td>
        <td>john@example.com</td>
      </tr>
      <tr>
        <td>Mary</td>
        <td>Moe</td>
        <td>mary@example.com</td>
      </tr>
      <tr>
        <td>July</td>
        <td>Dooley</td>
        <td>july@example.com</td>
      </tr>
    </tbody>
  </table>
</div>

</body>
</html>
```

## 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

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_table\\_stripped&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_table_stripped&stacked=h)

# EXAMPLE

## Bordered Table

The `.table-bordered` class adds borders on all sides of the table and cells:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Bordered Table</h2>
  <p>The .table-bordered class adds borders on all sides of the table and the cells:</p>
  <table class="table table-bordered">
    <thead>
      <tr>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Email</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>John</td>
        <td>Doe</td>
        <td>john@example.com</td>
      </tr>
      <tr>
        <td>Mary</td>
        <td>Moe</td>
        <td>mary@example.com</td>
      </tr>
      <tr>
        <td>July</td>
        <td>Dooley</td>
        <td>july@example.com</td>
      </tr>
    </tbody>
  </table>
</div>
```

## Bordered Table

The `.table-bordered` class adds borders on all sides of the table and the cells:

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

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_table\\_bordered&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_table_bordered&stacked=h)

# BOOTSTRAP 5

## Modals

The Modal component is a dialog box/popup window that is displayed on top of the current page.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h3>Fading Modal Example</h3>
  <p>Click on the button to open the modal.</p>

  <button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#myModal">
    Open modal
  </button>
</div>

<!-- The Modal -->
<div class="modal fade" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content">

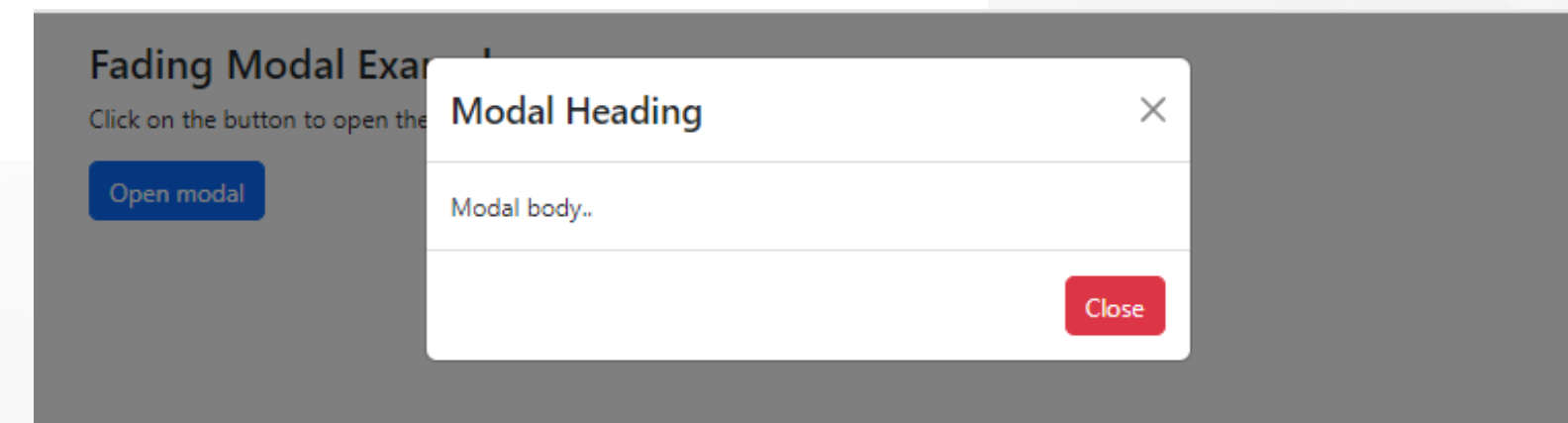
      <!-- Modal Header -->
      <div class="modal-header">
        <h4 class="modal-title">Modal Heading</h4>
        <button type="button" class="btn-close" data-bs-dismiss="modal"></button>
      </div>

      <!-- Modal body -->
      <div class="modal-body">
        Modal body..
      </div>

      <!-- Modal footer -->
      <div class="modal-footer">
        <button type="button" class="btn btn-danger" data-bs-dismiss="modal">Close</button>
      </div>

    </div>
  </div>
</div>

</body>
</html>
```



example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_modal\\_fade&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_modal_fade&stacked=h)

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_modal.php](https://www.w3schools.com/bootstrap5/bootstrap_modal.php)



# BOOTSTRAP 5

## Carousel / Slideshow

The following example shows how to create a basic carousel with indicators and controls:

learn  
[https://www.w3schools.com/bootstrap5/bootstrap\\_carousel.php](https://www.w3schools.com/bootstrap5/bootstrap_carousel.php)



# EXAMPLE

## How To Create a Carousel

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<!-- Carousel -->
<div id="demo" class="carousel slide" data-bs-ride="carousel">

  <!-- Indicators/dots -->
  <div class="carousel-indicators">
    <button type="button" data-bs-target="#demo" data-bs-slide-to="0" class="active"></button>
    <button type="button" data-bs-target="#demo" data-bs-slide-to="1"></button>
    <button type="button" data-bs-target="#demo" data-bs-slide-to="2"></button>
  </div>

  <!-- The slideshow/carousel -->
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>

  <!-- Left and right controls/icons -->
  <button class="carousel-control-prev" type="button" data-bs-target="#demo" data-bs-slide="prev">
    <span class="carousel-control-prev-icon"></span>
  </button>
  <button class="carousel-control-next" type="button" data-bs-target="#demo" data-bs-slide="next">
    <span class="carousel-control-next-icon"></span>
  </button>
</div>

<div class="container-fluid mt-3">
  <h3>Carousel Example</h3>
  <p>The following example shows how to create a basic carousel with indicators and controls.</p>
</div>

</body>
</html>
```



### Carousel Example

The following example shows how to create a basic carousel with indicators and controls.

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_carousel](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_carousel)

# BOOTSTRAP 5

## Cards

### Basic Card

A basic card is created with the `.card` class, and content inside the card has a `.card-body` class:

### learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_cards.php](https://www.w3schools.com/bootstrap5/bootstrap_cards.php)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Basic Card</h2>
  <div class="card">
    <div class="card-body">Basic card</div>
  </div>
</div>

</body>
</html>
```

### Basic Card

Basic card

### example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_card&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_card&stacked=h)

# EXAMPLE

## How To Create a Carousel

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Card Header and Footer</h2>
  <div class="card">
    <div class="card-header">Header</div>
    <div class="card-body">Content</div>
    <div class="card-footer">Footer</div>
  </div>
</div>

</body>
</html>
```

### Card Header and Footer

Header
Content
Footer

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_card\\_header&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_card_header&stacked=h)

# EXAMPLE

## Titles, text, and links

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Card titles, text, and links</h2>
  <p>Use .card-title to add card titles to any heading element. The .card-text
class is used to remove bottom margins for a p element if it is the last child
(or the only one) in card-body. The .card-link class adds a blue color to any
link, and a hover effect.</p>
  <div class="card">
    <div class="card-body">
      <h4 class="card-title">Card title</h4>
      <p class="card-text">Some example text. Some example text.</p>
      <a href="#" class="card-link">Card link</a>
      <a href="#" class="card-link">Another link</a>
    </div>
  </div>
</div>

</body>
</html>
```

### Card titles, text, and links

Use .card-title to add card titles to any heading element. The .card-text class is used to remove bottom margins for a p element if it is the last child (or the only one) in card-body. The .card-link class adds a blue color to any link, and a hover effect.

#### Card title

Some example text. Some example text.

[Card link](#) [Another link](#)

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_card\\_title&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_card_title&stacked=h)

# BOOTSTRAP 5

## Forms

### Stacked Form

All textual `<input>` and `<textarea>` elements with class `.form-control` get proper form styling:

learn

[https://www.w3schools.com/bootstrap5/bootstrap\\_forms.php](https://www.w3schools.com/bootstrap5/bootstrap_forms.php)

Email:

Password:

☐ Remember me

Submit

# EXAMPLE

## Form

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Stacked form</h2>
  <form action="/action_page.php">
    <div class="mb-3 mt-3">
      <label for="email">Email:</label>
      <input type="email" class="form-control" id="email" placeholder="Enter
email" name="email">
    </div>
    <div class="mb-3">
      <label for="pwd">Password:</label>
      <input type="password" class="form-control" id="pwd" placeholder="Enter
password" name="pswd">
    </div>
    <div class="form-check mb-3">
      <label class="form-check-label">
        <input class="form-check-input" type="checkbox" name="remember">
Remember me
      </label>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</div>

</body>
</html>
```

### Stacked form

Email:

Password:

☐ Remember me

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_form&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_form&stacked=h)



# EXAMPLE

## Textarea

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.
js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Textarea</h2>
  <p>Use the .form-control class to style textareas as well:</p>
  <form action="/action_page.php">
    <div class="mb-3 mt-3">
      <label for="comment">Comments:</label>
      <textarea class="form-control" rows="5" id="comment" name="text">
</textarea>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</div>

</body>
</html>
```

## Textarea

Use the .form-control class to style textareas as well:

Comments:

Submit

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_form\\_textarea&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_form_textarea&stacked=h)

# EXAMPLE

## Form Row/Grid (Inline Forms)

If you want your form elements to appear side by side, use `.row` and `.col`:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.
js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Inline Forms</h2>
  <p>If you want your form elements to appear side by side, use .row and .col:
</p>
  <form>
    <div class="row">
      <div class="col">
        <input type="text" class="form-control" placeholder="Enter email"
name="email">
      </div>
      <div class="col">
        <input type="password" class="form-control" placeholder="Enter
password" name="pswd">
      </div>
    </div>
  </form>
</div>

</body>
</html>
```

## Inline Forms

If you want your form elements to appear side by side, use `.row` and `.col`:

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_form\\_grid&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_form_grid&stacked=h)

# EXAMPLE

## Form Control Size

You can change the size of `.form-control` inputs with `.form-control-lg` or `.form-control-sm`:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.
js"></script>
</head>
<body>

<div class="container mt-3">
  <h2>Form Control Size</h2>
  <p>You can change the size of .form-control inputs with .form-control-lg or
.form-control-sm:</p>
  <form>
    <input type="text" class="form-control form-control-lg" placeholder="Large
input">
    <input type="text" class="form-control mt-3" placeholder="Normal input">
    <input type="text" class="form-control form-control-sm mt-3"
placeholder="Small input">
  </form>
</div>

</body>
</html>
```

## Form Control Size

You can change the size of `.form-control` inputs with `.form-control-lg` or `.form-control-sm`:

Large input

Normal input

Small input

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_form\\_size&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_form_size&stacked=h)

# BOOTSTRAP 5

## Form Validation

You can use different validation classes to provide valuable feedback to users. Add either `.was-validated` or `.needs-validation` to the `<form>` element, depending on whether you want to provide validation feedback before or after submitting the form. The input fields will have a green (valid) or red (invalid) border to indicate what's missing in the form. You can also add a `.valid-feedback` or `.invalid-feedback` message to tell the user explicitly what's missing, or needs to be done before submitting the form.

Username:

Please fill out this field.

Password:

Please fill out this field.

☐ I agree on blabla.  
Check this checkbox to continue.

# EXAMPLE

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css
" rel="stylesheet">
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.mi
n.js"></script>
</head>
<body>

<div class="container mt-3">
  <h3>Form Validation</h3>
  <p>Try to submit the form.</p>

  <form action="/action_page.php" class="was-validated">
    <div class="mb-3 mt-3">
      <label for="uname" class="form-label">Username:</label>
      <input type="text" class="form-control" id="uname" placeholder="Enter
username" name="uname" required>
      <div class="valid-feedback">Valid.</div>
      <div class="invalid-feedback">Please fill out this field.</div>
    </div>
    <div class="mb-3">
      <label for="pwd" class="form-label">Password:</label>
      <input type="password" class="form-control" id="pwd" placeholder="Enter
password" name="pswd" required>
      <div class="valid-feedback">Valid.</div>
      <div class="invalid-feedback">Please fill out this field.</div>
    </div>
    <div class="form-check mb-3">
      <input class="form-check-input" type="checkbox" id="myCheck"
name="remember" required>
      <label class="form-check-label" for="myCheck">I agree on blabla.
</label>
      <div class="valid-feedback">Valid.</div>
      <div class="invalid-feedback">Check this checkbox to continue.</div>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</div>

</body>
</html>
```

## Form Validation

Try to submit the form.

Username:



Please fill out this field.

Password:



Please fill out this field.

☐ I agree on blabla.

Check this checkbox to continue.

Submit

example

[https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs\\_form\\_validation&stacked=h](https://www.w3schools.com/bootstrap5/tryit.asp?filename=trybs_form_validation&stacked=h)