

Bootstrap CSS Components

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Buttons

- Bootstrap includes several predefined button styles, each serving its own semantic purpose
 - All buttons should have the base `.btn` class
 - `.btn-{ primary | secondary }`
 - `.btn-{ success | info | warning | danger }`
 - `.btn-{ light | dark }`
 - `.btn-link`
- Outline buttons
 - `.btn-outline-{ primary | secondary }`
 - `.btn-outline-{ success | info | warning | danger }`
 - `.btn-outline-{ light | dark }`

Buttons

- Sizes
 - Large button
 - .btn-lg
 - Small button
 - .btn-sm
 - Block level
 - .btn-block
- States
 - .active
 - .disabled
- Toggle States
 - Add data-toggle="button" to toggle a button's active state
 - If you're pre-toggling a button, you must manually add the .active class and aria-pressed="true" to the <button>

Button Group

- Wrap a series of buttons with .btn in .btn-group

```
<div class="btn-group">  
  <button type="button" class="btn btn-primary">Left</button>  
  <button type="button" class="btn btn-warning">Middle</button>  
  <button type="button" class="btn btn-danger">Right</button>  
</div>
```

- Vertical

```
<div class="btn-group-vertical">  
  <button class="btn btn-primary" type="button">Left</button>  
  <button class="btn btn-info" type="button">Middle</button>  
  <button class="btn btn-secondary" type="button">Right</button>  
</div>
```

Button Toolbar

- Button Toolbar

```
<div class="btn-toolbar">
  <div class="btn-group mr-2">
    <button type="button" class="btn btn-info">1</button>
    <button type="button" class="btn btn-warning">2</button>
    <button type="button" class="btn btn-danger">3</button>
  </div>
  <div class="btn-group mr-2">
    <button type="button" class="btn btn-primary">4</button>
    <button type="button" class="btn btn-secondary">5</button>
  </div>
  <div class="btn-group">
    <button type="button" class="btn btn-light">6</button>
    <button type="button" class="btn btn-dark">6</button>
  </div>
</div>
```

Button Dropdown

- Any single .btn can be turned into a dropdown toggle with some markup changes

```
<div class="dropdown">
  <button type="button" class="btn btn-primary dropdown-toggle"
    data-toggle="dropdown">
    My Dropdown
  </button>
  <div class="dropdown-menu">
    <a class="dropdown-item" href="#">Link One</a>
    <a class="dropdown-item" href="#">Link Two</a>
    <a class="dropdown-item" href="#">Link Three</a>
  </div>
</div>
```

Button Split Dropdown

- Create split button dropdowns with virtually the same markup as single button dropdowns, but with the addition of `.dropdown-toggle-split` for proper spacing around the dropdown caret

```
<div class="btn-group">
  <button type="button" class="btn btn-danger">Action</button>
  <button type="button"
    class="btn btn-danger dropdown-toggle dropdown-toggle-split"
    data-toggle="dropdown">
    <span class="sr-only">Toggle Dropdown</span>
  </button>
  <div class="dropdown-menu">
    <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 class="dropdown-divider"></div>
    <a class="dropdown-item" href="#">Separated link</a>
  </div>
</div>
```

Navbar

- Simple Navbar

```
<nav class="navbar navbar-expand-sm navbar-light bg-light">
  <div class="container">
    <a class="navbar-brand" href="#">My Company</a>
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a class="nav-link" href="#">Home</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">About</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Services</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Contact</a>
      </li>
    </ul>
  </div>
</nav>
```


Navbar – Responsive Toggle

```
<nav class="navbar navbar-expand-sm navbar-light bg-light mb-3">
  <div class="container">
    <a class="navbar-brand" href="#">My Company</a>
    <button class="navbar-toggler">
      <span class="navbar-toggler-icon"
        data-toggle="collapse" data-target="#appNav"></span>
    </button>
    <div class="collapse navbar-collapse" id="appNav">
      <ul class="navbar-nav ml-auto">
        <li class="nav-item">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Services</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contact</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

Navbar – Form

```
<nav class="navbar navbar-expand-sm navbar-light bg-light mb-3">
  <div class="container">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" data-toggle="collapse" data-target="#navbarNav">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav mr-auto">
        <li class="nav-item">
          <a class="nav-link" href="#">Home</a>
        </li>
        <li class="nav-item">...</li>
        <li class="nav-item">...</li>
      </ul>

      <form class="form-inline ml-auto">
        <input type="text" class="form-control mr-2" placeholder="Search">
        <button class="btn btn-outline-success">Search</button>
      </form>
    </div>
  </div>
</nav>
```

Navbar – Dropdown

```
<nav class="navbar navbar-expand-sm navbar-light bg-light mb-3">
  <div class="container">
    <a class="navbar-brand" href="#">Navbar</a>
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a class="nav-link" href="#">Home</a>
      </li>
      <li class="nav-item dropdown">
        <a href="#" class="nav-link dropdown-toggle"
          data-toggle="dropdown">Dropdown</a>
        <div class="dropdown-menu">
          <a href="#" class="dropdown-item">Link 1</a>
          <a href="#" class="dropdown-item">Link 2</a>
          <a href="#" class="dropdown-item">Link 3</a>
        </div>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Contact</a>
      </li>
    </ul>
  </div>
</nav>
```

Navbar – Colors

```
<nav class="navbar navbar-expand-sm navbar-dark bg-primary mb-3">  
  <a class="navbar-brand" href="#">Navbar</a>  
  ...  
</nav>
```

```
<nav class="navbar navbar-expand-sm navbar-dark bg-success mb-3">  
  <a class="navbar-brand" href="#">Navbar</a>  
  ...  
</nav>
```

```
<nav class="navbar navbar-expand-sm navbar-dark bg-info mb-3">  
  <a class="navbar-brand" href="#">Navbar</a>  
  ...  
</nav>
```

```
<nav class="navbar navbar-expand-sm navbar-dark bg-warning mb-3">  
  <a class="navbar-brand" href="#">Navbar</a>  
  ...  
</nav>
```

```
<nav class="navbar navbar-expand-sm navbar-dark bg-danger mb-3">  
  <a class="navbar-brand" href="#">Navbar</a>  
  ...  
</nav>
```

Navbar – Fixed Top / Bottom

```
<nav class="navbar fixed-top navbar-dark bg-secondary">  
  <a href="#" class="navbar-brand">Navbar Fixed Top</a>  
</nav>
```

```
<nav class="navbar fixed-bottom navbar-dark bg-secondary">  
  <a href="#" class="navbar-brand">Navbar Fixed Bottom</a>  
</nav>
```

Navs

- Pills

```
<ul class="nav nav-pills">  
  <li class="nav-item">  
    <a class="nav-link active" 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 disabled" href="#">Disabled</a>  
  </li>  
</ul>
```

- Tabs

```
<ul class="nav nav-tabs">  
  <li class="nav-item">  
    <a class="nav-link active" 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 disabled" href="#">Disabled</a>  
  </li>  
</ul>
```

Navs

- Fill & Justify
 - To proportionately fill all available space with your .nav-items, use .nav-fill
 - For equal-width elements, use .nav-justified

```
<ul class="nav nav-pills nav-fill">  
  <li class="nav-item">  
    <a class="nav-link active" 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 disabled" href="#">Disabled</a>  
  </li>  
</ul>
```

Navs

- Horizontal Align
 - .justify-content-center
 - .justify-content-end

```
<ul class="nav nav-pills justify-content-center">  
  ...  
</ul>
```

```
<ul class="nav nav-pills justify-content-end">  
  ...  
</ul>
```

- Vertical

```
<ul class="nav nav-pills flex-column">  
  ...  
</ul>
```


List Group

- A flexible and powerful component for displaying a series of content

- Basic

```
<ul class="list-group">  
  <li class="list-group-item">My List Item One</li>  
  <li class="list-group-item">My List Item Two</li>  
  <li class="list-group-item">My List Item Three</li>  
</ul>
```

- Links

```
<ul class="list-group">  
  <a class="list-group-item list-group-item-action" href="#">Item 1</a>  
  <a class="list-group-item list-group-item-action" href="#">Item 2</a>  
  <a class="list-group-item list-group-item-action" href="#">Item 3</a>  
</ul>
```

- Add

- .active to a .list-group-item to indicate the current active selection
 - .disabled to a .list-group-item to make it appear disabled
 - .list-group-flush to remove some borders and rounded corners to render list group items edge-to-edge in a parent container

List Group

- Contextual classes

```
<ul class="list-group">
  <li class="list-group-item list-group-item-primary">Primary List Item</li>
  <li class="list-group-item list-group-item-secondary">Secondary List Item</li>
  <li class="list-group-item list-group-item-success">Success List Item</li>
  <li class="list-group-item list-group-item-info">Info List Item</li>
  <li class="list-group-item list-group-item-warning">Warning List Item</li>
  <li class="list-group-item list-group-item-danger">Danger List Item</li>
  <li class="list-group-item list-group-item-light">Light List Item</li>
  <li class="list-group-item list-group-item-dark">Dark List Item</li>
</ul>
```

Badge

- Small count and labeling component

```
<!-- Part of a heading -->  
<h1>Example heading <span class="badge badge-secondary">New</span></h1>
```

```
<!-- Part of a button -->  
<button type="button" class="btn btn-primary">  
  Notifications <span class="badge badge-light">4</span>  
</button>
```

```
<!-- Contextual variations -->  
<span class="badge badge-success">Success</span>  
<span class="badge badge-danger">Danger</span>  
<span class="badge badge-warning">Warning</span>  
<span class="badge badge-info">Info</span>
```

```
<!-- Pill badges -->  
<span class="badge badge-pill badge-primary">Primary</span>  
<span class="badge badge-pill badge-secondary">Secondary</span>
```

```
<!-- Links -->  
<a href="#" class="badge badge-light">Light</a>  
<a href="#" class="badge badge-dark">Dark</a>
```

Breadcrumb

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

```
<ol class="breadcrumb">
  <li class="breadcrumb-item active">Home</li>
</ol>

<ol class="breadcrumb">
  <li class="breadcrumb-item"><a href="#">Home</a></li>
  <li class="breadcrumb-item active">Users</li>
</ol>

<ol class="breadcrumb">
  <li class="breadcrumb-item"><a href="#">Home</a></li>
  <li class="breadcrumb-item"><a href="#">Users</a></li>
  <li class="breadcrumb-item active">Hari</li>
</ol>
```

Forms

- Form groups
 - The `.form-group` class
 - is used to add some structure to forms
 - encourages proper grouping of labels, controls, optional help text, and form validation messaging
- Form controls
 - Textual form controls—like `<input>`s, `<select>`s, and `<textarea>`s—are styled with the `.form-control` class
 - For file inputs, use `.form-control-file`
 - Set heights using classes like `.form-control-lg` and `.form-control-sm`
- Custom file input
 - `.custom-file`
 - `.custom-file-input`
 - `.custom-file-label`

```
<div class="custom-file">  
  <input type="file" class="custom-file-input" id="customFile">  
  <label class="custom-file-label" for="customFile">  
    Choose file  
  </label>  
</div>
```

Forms

- Range input
 - Use `.form-control-range` or `.custom-range` class for horizontally scrollable range input control
- Inline forms
 - Use the `.form-inline` class to display a series of labels, form controls, and buttons on a single horizontal row

```
<form class="form-inline">
  <input type="text" class="form-control mr-2" id="username"
    placeholder="Enter username">
  <input type="text" class="form-control mr-2" id="password"
    placeholder="Password">
  <div class="form-check">
    <label class="form-check-label mr-2">
      <input type="checkbox" class="form-check-input"> Remember me
    </label>
  </div>
  <button type="submit" class="btn btn-secondary">Submit</button>
</form>
```

Forms

- Form grid
 - More complex forms can be built using grid classes
 - Use these for form layouts that require multiple columns, varied widths, and additional alignment options

```
<form>
  <div class="form-row">
    <div class="form-group col-md-6">
      <label for="inputEmail4">Email</label>
      <input type="email" class="form-control" id="inputEmail4"
        placeholder="Email">
    </div>
    <div class="form-group col-md-6">
      <label for="inputPassword4">Password</label>
      <input type="password" class="form-control" id="inputPassword4"
        placeholder="Password">
    </div>
  </div>
  <button type="submit" class="btn btn-primary">Sign in</button>
</form>
```

Forms

- Form Validation

- You can indicate invalid and valid form fields with `.is-invalid` and `.is-valid`.
- `.valid-feedback` and `.invalid-feedback` can be used to display messages

```
<div class="col-md-4 mb-3">
  <label for="validationServer01">First name</label>
  <input type="text" class="form-control is-valid" id="validationServer01"
    placeholder="First name" value="Mark" required>
  <div class="valid-feedback">
    Looks good!
  </div>
</div>

<div class="col-md-6 mb-3">
  <label for="validationServer03">City</label>
  <input type="text" class="form-control is-invalid" id="validationServer03"
    placeholder="City" required>
  <div class="invalid-feedback">
    Please provide a valid city.
  </div>
</div>
```


Input Group

- Easily extend form controls by adding text, buttons, or button groups on either side of textual inputs.
- Basic Input Groups
 - .input-group, .input-group-prepend, .input-group-text

```
<div class="input-group mb-3">  
  <div class="input-group-prepend">  
    <span class="input-group-text">@</span>  
  </div>  
  <input class="form-control" type="text" placeholder="Username">  
</div>
```

- .input-group-append

```
<div class="input-group mb-3">  
  <input type="text" class="form-control" placeholder="Username">  
  <div class="input-group-append">  
    <span class="input-group-text">@something.com</span>  
  </div>  
</div>
```

Input Group

- Basic Input Groups (Continued)
 - Remember to place `<label>`s outside the input group

```
<label for="basic-url">Custom URL</label>
<div class="input-group mb-3">
  <div class="input-group-prepend">
    <span class="input-group-text">https://something.com/member/</span>
  </div>
  <input type="text" class="form-control" id="basic-url">
</div>
```

- Both sides

```
<div class="input-group mb-3">
  <div class="input-group-prepend">
    <span class="input-group-text">$</span>
  </div>
  <input class="form-control" type="text">
  <div class="input-group-append">
    <span class="input-group-text">$.00</span>
  </div>
</div>
```

Input Group

- Checkbox and Radio

```
<div class="input-group mb-3">
  <div class="input-group-prepend">
    <div class="input-group-text">
      <input type="checkbox">
    </div>
  </div>
  <input type="text" class="form-control">
</div>
```

```
<div class="input-group mb-3">
  <div class="input-group-prepend">
    <div class="input-group-text">
      <input type="radio">
    </div>
  </div>
  <input type="text" class="form-control">
</div>
```

Input Group

- Multiple Inputs

```
<div class="input-group">
  <div class="input-group-prepend">
    <span class="input-group-text" id="">Name & Email</span>
  </div>
  <input class="form-control" type="text" placeholder="Full Name">
  <input class="form-control" type="email" placeholder="Email">
</div>
```

- Button Addons

```
<div class="input-group mb-3">
  <input class="form-control" type="text" placeholder="Find By Name...">
  <div class="input-group-append">
    <button class="btn btn-outline-secondary" type="button">
      Search
    </button>
  </div>
</div>
```

Alerts

- Provide contextual feedback messages for typical user actions

```
<div class="alert alert-primary">
  <strong>Primary</strong> Blog post added
</div>

<div class="alert alert-secondary">
  <strong>Secondary</strong> Blog post added
</div>

<div class="alert alert-success">
  <strong>Success</strong> Blog post added
</div>

<div class="alert alert-danger">
  <strong>Danger</strong> Please check the log files
</div>

<div class="alert alert-info">
  <strong>Info</strong> You have a new message
</div>

<div class="alert alert-warning">
  <strong>Warning</strong> Please check the log files
</div>
```

Alerts

- Dismissible Alert

- Using the alert JavaScript plugin, it's possible to dismiss any alert inline

```
<div class="alert alert-success alert-dismissible">
  <button class="close" type="button" data-dismiss="alert">
    <span>&times;</span>
  </button>
  <strong>Dismissable</strong> Blog post added
</div>
```

- Be sure you've loaded the alert plugin, or the compiled Bootstrap JavaScript
- Add a dismiss button and the .alert-dismissible class, which adds extra padding to the right of the alert and positions the .close button
- On the dismiss button, add the data-dismiss="alert" attribute, which triggers the JavaScript functionality
- Be sure to use the <button> element with it for proper behavior across all devices

Alerts

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

```
<div class="alert alert-success">
  <h4 class="alert-heading">Congrats!</h4>
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Velit dignissimos eius,
    sit quo assumenda totam commodi ipsum saepe molestias eligendi exercitationem
    repudiandae qui facilis deserunt non, harum ab quam? Cumque</p>
  <hr>
  <p class="mb-0">
    Lorem ipsum dolor sit amet, consectetur adipisicing elit. Iure, odio?
  </p>
</div>
```

Progress Bar

- Featuring support for stacked bars, animated backgrounds, and text labels

```
<div class="progress">
  <div class="progress-bar" style="width:35%;"></div>
</div>

<div class="progress">
  <div class="progress-bar bg-success" style="width:55%;"></div>
</div>

<div class="progress">
  <div class="progress-bar bg-info" style="width:75%;"></div>
</div>

<div class="progress">
  <div class="progress-bar bg-warning" style="width:35%;"></div>
</div>
```

- Labels

```
<div class="progress">
  <div class="progress-bar" style="width:35%;">35%</div>
</div>
```


Progress Bar

- Height

```
<div class="progress" style="height:1px;">  
  <div class="progress-bar bg-success" style="width:75%;"></div>  
</div>
```

- Striped

```
<div class="progress">  
  <div class="progress-bar bg-danger progress-bar-striped"  
    style="width:35%;"></div>  
</div>
```

- Animated

```
<div class="progress">  
  <div class="progress-bar bg-info progress-bar-striped progress-bar-animated"  
    style="width:35%;"></div>  
</div>
```

Progress Bar

- Multiple bars

```
<div class="progress">  
  <div class="progress-bar bg-warning" style="width:25%;"></div>  
  <div class="progress-bar bg-success" style="width:25%;"></div>  
  <div class="progress-bar bg-primary" style="width:25%;"></div>  
</div>
```

Tables

- Simple Table

```
<table class="table">
  <thead>
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
    <tr>
      <th scope="row">2</th>
      <td>Will</td>
      <td>Johnson</td>
      <td>will@yahoo.com</td>
    </tr>
  </tbody>
</table>
```

Tables

- Inverse Table

```
<table class="table table-dark">
  <thead>
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>John</td>
      <td>Doe</td>
      <td>jdoe@gmail.com</td>
    </tr>
    <tr>
      <th scope="row">2</th>
      <td>Will</td>
      <td>Johnson</td>
      <td>will@yahoo.com</td>
    </tr>
  </tbody>
</table>
```

Tables

- Table Head Options
 - Use the modifier classes `.thead-light` or `.thead-dark` to make `<thead>`s appear light or dark gray

```
<table class="table">
  <thead class="thead-dark">
    <tr>
      <th>#</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>...</tr>
    <tr>...</tr>
  </tbody>
</table>
```

Tables

- Striped table

```
<table class="table table-striped">
  <thead>
    <tr>...</tr>
  </thead>
  <tbody>
    <tr>...</tr>
    <tr>...</tr>
  </tbody>
</table>
```

- Bordered table

```
<table class="table table-bordered">
  <thead>
    <tr>...</tr>
  </thead>
  <tbody>
    <tr>...</tr>
    <tr>...</tr>
  </tbody>
</table>
```

Tables

- **Borderless table**

```
<table class="table table-borderless">
  <thead>
    <tr>...</tr>
  </thead>
  <tbody>
    <tr>...</tr>
    <tr>...</tr>
  </tbody>
</table>
```

- **Hoverable table**

```
<table class="table table-hover">
  <thead>
    <tr>...</tr>
  </thead>
  <tbody>
    <tr>...</tr>
    <tr>...</tr>
  </tbody>
</table>
```

Tables

- Contextual classes

```
<tr class="table-active">...</tr>

<tr class="table-primary">...</tr>
<tr class="table-secondary">...</tr>
<tr class="table-success">...</tr>
<tr class="table-danger">...</tr>
<tr class="table-warning">...</tr>
<tr class="table-info">...</tr>
<tr class="table-light">...</tr>
<tr class="table-dark">...</tr>
```

- Small table

```
<table class="table table-sm">
  <thead>
    <tr>...</tr>
  </thead>
  <tbody>
    <tr>...</tr>
    <tr>...</tr>
  </tbody>
</table>
```


Tables

- Responsive table
 - Always responsive

```
<div class="table-responsive">  
  <table class="table">  
    ...  
  </table>  
</div>
```

- Breakpoint specific
 - Use `.table-responsive{-sm|-md|-lg|-xl}` as needed to create responsive tables up to a particular breakpoint

```
<div class="table-responsive-md">  
  <table class="table">  
    ...  
  </table>  
</div>
```

Pagination

- Is built with list HTML elements
- Use a wrapping `<nav>` element to identify it as a navigation section to screen readers and other assistive technologies

```
<nav>
  <ul class="pagination">
    <li class="page-item disabled">
      <a class="page-link" href="#">Previous</a>
    </li>
    <li class="page-item active">
      <a class="page-link" href="#">1</a>
    </li>
    <li class="page-item">
      <a class="page-link" href="#">2</a>
    </li>
    <li class="page-item">
      <a class="page-link" href="#">3</a>
    </li>
    <li class="page-item">
      <a class="page-link" href="#">Next</a>
    </li>
  </ul>
</nav>
```

Pagination

- Centered

```
<nav>
  <ul class="pagination justify-content-center">
    <li class="page-item">...</li>
    <li class="page-item">...</li>
    <li class="page-item">...</li>
  </ul>
</nav>
```

- Right

```
<nav>
  <ul class="pagination justify-content-end">
    <li class="page-item">...</li>
    <li class="page-item">...</li>
    <li class="page-item">...</li>
  </ul>
</nav>
```

Pagination

- Large

```
<nav>
  <ul class="pagination pagination-lg">
    <li class="page-item">...</li>
    <li class="page-item">...</li>
    <li class="page-item">...</li>
  </ul>
</nav>
```

- Small

```
<nav>
  <ul class="pagination pagination-sm">
    <li class="page-item">...</li>
    <li class="page-item">...</li>
    <li class="page-item">...</li>
  </ul>
</nav>
```

Pagination

- Arrow icons

```
<nav>
  <ul class="pagination">
    <li class="page-item disabled">
      <a class="page-link" href="#">
        <span>&laquo;</span>
        <span class="sr-only">Previous</span>
      </a>
    </li>
    <li class="page-item active">
      <a class="page-link" href="#">1</a>
    </li>
    <li class="page-item">
      <a class="page-link" href="#">2</a>
    </li>
    <li class="page-item">
      <a class="page-link" href="#">3</a>
    </li>
    <li class="page-item">
      <a class="page-link" href="#">
        <span>&raquo;</span>
        <span class="sr-only">Next</span>
      </a>
    </li>
  </ul>
</nav>
```

Card

- A flexible and extensible content container with multiple variants and options
- Includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options
- Simple Card

```
<div class="card">  
  <div class="card-body">  
    Lorem ipsum dolor sit amet, consectetur adipisicing elit.  
    Delectus, voluptate.  
  </div>  
</div>
```

Card

- Simple Card

```
<div class="card" style="width: 20rem;">
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <h6 class="card-subtitle text-muted">Card subtitle</h6>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur
      adipisicing elit. Illo, quas.</p>
    <a class="btn btn-outline-primary" href="#">Read More</a>
  </div>
</div>
```

- Card with Image

```
<div class="card">
  
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit. Illo, quas.
    </p>
    <a class="btn btn-success btn-block" href="#">Read More</a>
  </div>
</div>
```

Card

- Card with Header

```
<div class="card">
  <div class="card-header">
    My Card
  </div>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit.
      Aut, perspiciatis.
    </p>
    <a class="btn btn-danger" href="#">Read More</a>
  </div>
</div>
```


Card

- Card with Header, Footer, Centered

```
<div class="card text-center">
  <div class="card-header">
    My Card
  </div>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit.
      Aut, perspiciatis.
    </p>
    <a class="btn btn-dark" href="#">Read More</a>
  </div>
  <div class="card-footer text-muted">
    2 Days Ago
  </div>
</div>
```

Card

- Card with Navigation

```
<div class="card">
  <div class="card-header">
    <ul class="nav nav-tabs card-header-tabs">
      <li class="nav-item">
        <a class="nav-link active" href="#">Active</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>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit.
      Aut, perspiciatis.
    </p>
    <a class="btn btn-primary" href="#">Read More</a>
  </div>
</div>
```

Card

- Image Overlay

```
<div class="card text-white">
  
  <div class="card-img-overlay">
    <h4 class="card-title">Card title</h4>
    <p class="card-text">
      This is a wider card with supporting text below as a natural
      lead-in to additional content. This content
      is a little bit longer.
    </p>
    <p class="card-text">
      <small class="text-muted">Last updated 3 mins ago</small>
    </p>
  </div>
</div>
```

Card

- Background Color

```
<div class="card bg-primary text-white mb-3">
  <div class="card-header">Header</div>
  <div class="card-body">
    <h4 class="card-title">Card Title</h4>
    <p class="card-text">Lorem ipsum dolor sit amet, consectetur adipiscing
elit, sed do eiusmod</p>
  </div>
</div>
```

- Border / Outline

```
<div class="card border-danger mb-3" style="max-width: 18rem;">
  <div class="card-header">Header</div>
  <div class="card-body text-danger">
    <h5 class="card-title">Danger card title</h5>
    <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>
  </div>
</div>
```

Card

- Card Groups

- Use card groups to render cards as a single, attached element with equal width and height columns

```
<div class="card-group">
  <div class="card">
    ...
  </div>
  <div class="card">
    ...
  </div>
  <div class="card">
    ...
  </div>
</div>
```

Card

- Card Decks

- Use card decks to render a set of cards with equal width and height that are not attached to one another

```
<div class="card-deck">  
  <div class="card">  
    ...  
  </div>  
  <div class="card">  
    ...  
  </div>  
  <div class="card">  
    ...  
  </div>  
</div>
```

Card

- Card Columns
 - Cards are ordered from top to bottom and left to right
 - Cards are built with CSS column properties instead of flexbox for easier alignment

```
<div class="card-columns">  
  <div class="card">  
    ...  
  </div>  
  <div class="card">  
    ...  
  </div>  
  <div class="card">  
    ...  
  </div>  
</div>
```

Media Object

- Helps build complex and repetitive components where some media is positioned alongside content that doesn't wrap around said media

```
<div class="media">
  
  <div class="media-body">
    <h5>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>
```


Media Object

- Nesting
 - Media objects can be infinitely nested

```
<div class="media">
  
  <div class="media-body">
    <h5>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.

    <div class="media mt-4">
      <a class="pr-3" href="#">
        
      </a>
      <div class="media-body">
        <h5>Nested Media</h5>
        Cras sit amet nibh libero, in gravida nulla. Nulla vel metus
        scelerisque ante sollicitudin.
      </div>
    </div>
  </div>
</div>
```

Media Object

- Alignment
 - .align-self- { start | center | end }

```
<div class="media">
  
  <div class="media-body">
    <h5>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>
```

Media Object

- Media List

```
<ul class="list-unstyled">
  <li class="media">
    
    <div class="media-body">
      <h5>List based media object</h5>
      Cras sit amet nibh libero, in gravida nulla.
    </div>
  </li>
  <li class="media">
    
    <div class="media-body">
      <h5>List based media object</h5>
      Cras sit amet nibh libero, in gravida nulla.
    </div>
  </li>
  <li class="media">
    
    <div class="media-body">
      <h5>List based media object</h5>
      Cras sit amet nibh libero, in gravida nulla.
    </div>
  </li>
</ul>
```

Jumbotron

- A lightweight, flexible component to showcase key marketing messages on your site

```
<div class="jumbotron">
  <h1 class="display-4">Welcome To My Website!</h1>
  <p class="lead">
    Lorem ipsum, dolor sit amet consectetur adipisicing elit.
    Nostrum necessitatibus perspiciatis cum vitae, modi hic?
  </p>
  <hr>
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Ea, quibusdam.</p>
  <a class="btn btn-primary btn-lg" href="#" role="button">Read More</a>
</div>
```

- To make the jumbotron full width, and without rounded corners, add the `.jumbotron-fluid` modifier class

```
<div class="jumbotron jumbotron-fluid">
  <div class="container">
    <h1 class="display-4">Fluid Jumbotron</h1>
    <p class="lead">Lorem ipsum dolor sit amet consectetur adipisicing elit.</p>
  </div>
</div>
```

Q & A

- Thank you!