

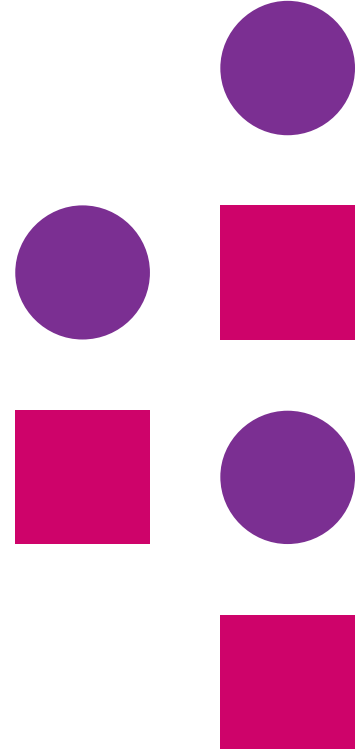
Components

Bootstrap



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Bootstrap

(Components dropped)

- Following components are dropped in Bootstrap 4
 - Panels
 - Thumbnails
 - Wells

Carousel

(Bootstrap)

Bootstrap

(Carousel)

- The carousel is a slideshow for cycling through a series of content
- It is built with CSS 3D transforms and JavaScript
- It works with a series of images, text, or custom markup
- It also has previous/next controls and indicators

Bootstrap

(Carousel)

- Carousel will avoid sliding when the webpage is not visible to the user
 - When the browser tab is inactive
 - The browser window is minimized
- Nested carousels are not supported
- Carousels don't automatically normalize slide dimensions
- Previous/Next controls and indicators are optional

Bootstrap

(Carousel - Classes)

Class	Description
.carousel	The base class for carousel
.carousel-inner	Container for slide-show items
.carousel-item	Slide items
.carousel-control-prev	The previous control
.carousel-control-next	The next control
.carousel-control-prev-icon	To display previous control icon
.carousel-control-next-icon	To display next control icon
.carousel-indicators	To display indicators
.carousel-caption	To display caption

Bootstrap

(Carousel – Attributes used)

Attribute	Value	Description
data-ride	“carousel”	Activate the carouse
data-slide	“prev” / “next”	Which slide to go
data-slide-to	Slide number	Index number of slide
data-interval	In ms	data-interval= “3000” for 3s
data-pause	“hover”	To pause the carousel going through the next slide
data-wrap	true/false	<ul style="list-style-type: none">• true - cycle continuously• false - stop at the last item

Bootstrap

(Carousel - Creation)

- Add `.carousel` and `.slide` classes to an outer container
- To build scrollable content, wrap all items in a `.carousel-inner` and assign `.carousel-item` class to each item
- Apply `.active` to one of the slides in the carousel, otherwise the carousel won't be visible; this class allows to set one slide as the initial slide (starting slide)

Bootstrap

(Carousel – Adding indicators)

- Add `.carousel-indicators` to ordered list
- Specify `data-target="#id"` list items
- Set `data-slide-to="index-number"`
 - Index-number shall be 0~N
- Make one of the list items "active"

Bootstrap

(Carousel – Adding controls)

- Add `.carousel` and `.slide` classes to an outer container
- To build scrollable content, wrap all items in a `.carousel-inner` and assign `.carousel-item` class to each item
- Apply `.active` to one of the slides in the carousel, otherwise the carousel won't be visible; this class allows to set one slide as the initial slide (starting slide)

Bootstrap

(Carousel – Sizing)

- Add w-75 (for 75% width), ml-auto (margin left) and mr-auto (margin right) along with base class .carousel
- Sometimes, the controls may fall outside the image and become invisible due to the width of the image being narrower than the carousel itself, and the controls and the background both being white
- So, if you find that you can't see the controls on your carousel, check that they're not falling outside of the image

Cards

(Bootstrap)

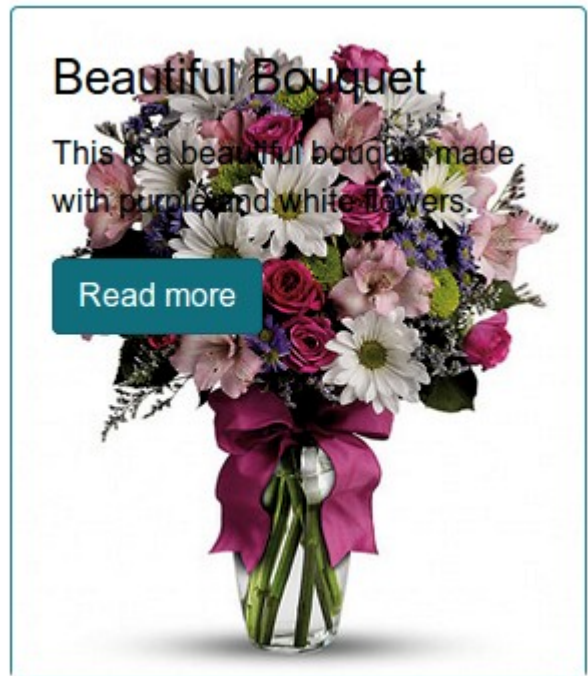
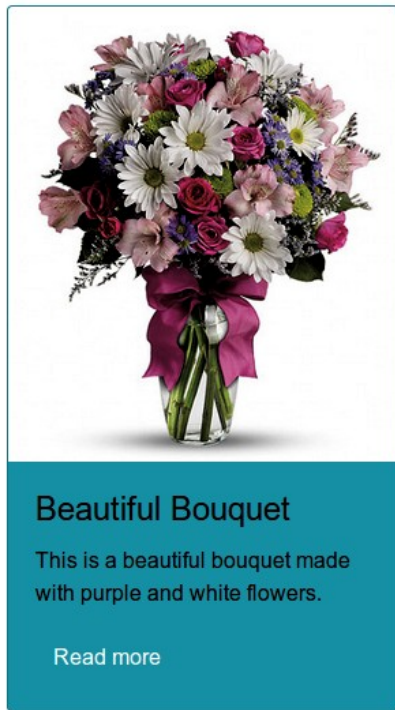
Bootstrap

(Cards)

- A card is a flexible and extensible content container
- It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options
- Cards are built with flexbox, they offer easy alignment and mix well with other Bootstrap components

Bootstrap

(Cards)



Bootstrap

(Cards)

- They have no margin by default, use spacing utilities as needed
- By default, cards have no fixed width, hence, they naturally fill the full width of its parent element
- Use sizing options to customize the cards
- Use utility classes to add colors to cards
 - `.bg-{ primary | success | info | warning | danger | secondary | dark | light }`

Bootstrap

(Cards - classes)

Class/Attribute	Description
.card	Base class
.card-body	To wrap the content inside the card
.card-header	To add a heading to the card
.card-footer	To add footer to the card
.card-title	To add card titles to any heading element
.card-text	To remove bottom margins for a <p> element if it is the last child in the card-block

Bootstrap

(Cards - classes)

Class/Attribute	Description
.card-link	To add blue color to any link, and a hover effect
.card-img-top	For the image placed at top
.card-img-bottom	For the image placed at bottom
.card-img-overlay	To add text on top of the image

Bootstrap

(Cards - basic)

```
<div class="container">
```

```
<div class="card">
```

```
<div class="card-body">
```

The basic card

```
</div>
```

```
</div>
```

```
</div>
```

Bootstrap

(Cards – header and footer)

```
<div class="container">  
  <div class="card">  
    <div class="card-header"> Header </div>  
    <div class="card-body"> The basic card </div>  
    <div class="card-footer"> Footer </div>  
  </div>  
</div>
```

Bootstrap

(Alerts)

- Alerts provide feedback messages for user actions
- Alerts are available for any length of text
- An optional dismissal button can also be provided in alerts

Message Alert

You have received a mail from your friend

Bootstrap

(Alerts - classes)

Class/Attribute	Description
<code>.alert</code>	Base class for alert
<code>.alert-{ctx}</code>	Ctx : primary warning danger success info . . .
<code>.alert-heading</code>	For heading text of alert
<code>.close</code>	To style close button
<code>.alert-dismissible</code>	Adds extra padding to the right of the alert and positions the close button
<code>data-dismiss="alert"</code>	To enable JavaScript function for dismissal
<code>.alert-link</code>	To apply color theme on links
<code>.fade</code>	Fade animation effect on closing alert

Bootstrap

(Alerts - dismissal)

- You need JavaScript alert plugin, make sure it is loaded
- Add a dismiss button and the `.alert-dismissible` class, which adds extra padding to the right of the alert and positions the `.close` button
- Add `data-dismiss="alert"` attribute to button, which triggers JavaScript functionality
- Use `<button>` element for proper behavior across all devices
- Use `.fade` and `.show` classes to animate alerts on dismissal

Bootstrap

(Alerts - dismissal)

```
<div class="alert alert-warning alert-dismissible fade show" role="alert">  
  <button type="button" class="close" data-dismiss="alert" aria-label="Close">  
    <span aria-hidden="true">&times;</span>  
  </button>  
  <h3 class="alert-heading">Message Alert</h3>  
  <p>Hey! you have received mail from your friend.</p>  
  <a href="#" class="alert-link" >Read more...</a>  
</div>
```


Bootstrap

(Alerts - dismissal)

- Closing an alert will remove it from the DOM
- HTML entity × (×) is the preferred icon for close buttons (do not use letter "x")

Bootstrap

(Badges)

- Badges are used to add additional information to any content
- `.badge` class and contextual class `.badge-{ctx}` are used within `` elements to create rectangular badges
 - `.badge-{ primary | danger | warning | . . . }`
- badges scale to match the size of the parent element

Bootstrap

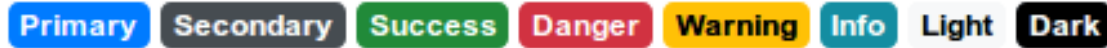
(Badges - classes)

Class/Attribute	Description
.badge	Base class
.badge-{ctx}	To add contextual badge
.pill-badge	To make the badge more round

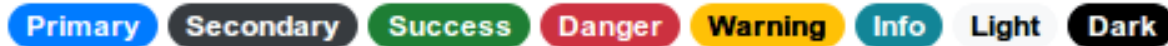
Bootstrap

(Badges)

Contextual Badges



Pill Badges



Bootstrap

(Progress Bar)

- A progress bar is used to show progress of completion of an activity
- To create a default progress bar, add a `.progress` class to a container element
- Add the `.progress-bar` class to its child element
- Add text inside the progress bar to show the visible percentage

Bootstrap

(Progress Bar)

- Use CSS width and height properties to set the width and height of progress bar
- By default, height of the progress bar is 16px
- Please note, set the same height for progress container and progress bar
- By default, the progress bar is blue (primary)
- Use contextual background classes to add color

Bootstrap

(Progress Bar - classes)

Class/Attribute	Description
.progress	Base class, add to parent element
.progress-bar	Add the class to child element
.progress-bar-striped	To add stripes to the progress bars (child)
.progress-bar-animated	To animate the progress bar

Bootstrap

(Jumbotron)

- A jumbotron indicates a big grey box for calling extra attention to some special content or information
- Inside a jumbotron any valid HTML can be used, including other Bootstrap elements/classes

Bootstrap

(Jumbotron - classes)

Class/Attribute	Description
.jumbotron	Partial width jumbotron
.jumbotron-fluid	For full-width jumbotron without rounded borders

Bootstrap

(Pagination)

- Pagination is used to indicate number of web pages
- Creating a basic pagination
 - Add `.pagination` class to an `` element
 - Add `.page-item` to each `` element
 - Add `.page-link` class to each link inside ``



Bootstrap

(Pagination - classes)

Class/Attribute	Description
.pagination	Base pagination class
.page-item	To add page item
.page-link	To add page link
.pagination-lg	For large pagination block
.pagination-sm	For small pagination block
.breadcrumb	Breadcrumb form of pagination
.breadcrumb-item	Item in breadcrumb form of pagination

Bootstrap

(Pagination – states)

- Active link is highlighted with `.active` class
- Disabled link (un-clickable) is indicated with `.disabled` class

Bootstrap

(Modal)

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

Bootstrap

(Model - classes)

Class/Attribute	Description
.modal-dialog	To define dialog
.modal-content	Container for content
.modal-header	Model header
.modal-title	Model Title
.modal-body	Model body
.modal-footer	Model footer
data-dismiss="modal"	To run javascript to dismiss model
data-toggle="modal"	To run javascript function to display modal

Bootstrap

(Modal – classes)

Class/Attribute	Description
.modal-sm	Small modal; used with .modal-dialog
.modal-lg	Large modal; used with .modal-dialog
.modal-dialog-centered	Centre the modal vertically and horizontally within the page

Bootstrap

(Tooltip)

- It is a small pop-up box that appears when user moves the mouse pointer over an element
- Tooltips must be initialized with jQuery - call the tooltip() method for initialization
- By default, the tooltip will appear on top of the element

Bootstrap

(Tooltip)

```
<script>  
    $(document).ready(function() {  
        $('[data-toggle="tooltip"]').tooltip();  
    });  
</script>
```

Bootstrap

(Tooltip – Attributes used)

Attributes	Value	Description
data-toggle	"tooltip"	Shall be assigned "tooltip" to call JavaScript function
title	"text"	The text to be displayed inside the tooltip
data-placement	"position"	To set the position (top right bottom left) of the tooltip

Bootstrap

(Popover)

- The Popover is a pop-up box that appears when user clicks on an element
- Popover is similar to tooltip but can contain more text
- Popovers are dependant on 3rd party library Popper.js for positioning

Bootstrap

(Popover)

- You must include [popper.js](#) (or `popper.min.js`) before `bootstrap.js` in order for popovers to work properly
- Alternatively, you can include `bootstrap.bundle.js` (or `bootstrap.bundle.min.js`) which contains `popper.js`
- Popovers must be initialized with jQuery; call `popover()` method for initialization.

Bootstrap

(Popover)

```
<script>  
  $(document).ready(function() {  
    $('[data-toggle="popover"]').popover();  
  });  
</script>
```

Bootstrap

(Popover)

- Zero-length **title** and **content** values will never show a popover
- Triggering popovers on hidden elements will not work
- Popovers must be hidden before their corresponding elements have been removed from the DOM

Bootstrap

(Popover – Attributes used)

Attribute	Value	Description
data-toggle	“popover”	Shall be assigned "popover" to call JavaScript function
title	“title text”	To specify the header text of the popover
data-content	“content text”	To specify the text that should be displayed in popover
data-placement	“position”	To set the position (top right bottom left) of the popover
data-trigger	“focus hover”	To close the popover when clicking outside the element

Bootstrap

(Scrollspy)

- Scrollspy is used to automatically update links in a navigation list based on scroll position
- It must be used on a Bootstrap nav component or list group
- Scrollspy requires “**position: relative;**” on the element you’re spying on, usually the `<body>`
- When spying on elements other than the `<body>`, be sure to have a height set and “`overflow-y: scroll;`” applied
- Anchors (`<a>`) are required and must match with element id

Bootstrap

(Scrollspy – Attributes used)

Attributes	Value	Description
data-spy	"scroll"	Assign to scrollable area (often body) of the webpage
data-target	id or class	Assign to id or the class name of the navigation bar
data-offset	In pixels	To specifies the number of pixels to offset from top when calculating the position of scroll

Bootstrap

(Scrollspy – Attributes used)

- The element with data-spy="scroll" requires the CSS position property, with a value of "relative" to work properly

```
<style>
  body {
    position: relative;
  }
</style>
```

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*Thank
you*