BOOTSTRAP

WHAT IS BOOTSTRAP?

- ➤ Bootstrap is a free front-end framework for faster and easier web development.
- ➤ Bootstrap includes HTML and CSS based design templates for forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plug-in.
- ➤ Bootstrap also gives you the ability to easily create responsive designs.

ADVANTAGES OF BOOTSTRAP:

- Easy to use.
- > Responsive features.
- ➤ Mobile-first approach.
- > Browser compatibility.

HISTORY OF BOOTSTRAP:

- ➤ Bootstrap was developed by MARK OTTO & JACOB THORNTON at twitter and released as an open source product in August 2011 on GitHub.
- > Bootstrap originally named **Twitter Blueprint**.
- ➤ In June 2014 Bootstrap was the No.1 project on Github!
- Previous Bootstrap Version:

Version	Release date
Bootstrap 2	January 31 2012
Bootstrap 3	August 19 2013
Bootstrap 4	October 29 2014
Bootstrap 5	May 5 2021

BOOTSTRAP 5 CDN:

- ➤ If you don't want to download and host Bootstrap 5 yourself, you can include it from a CDN (Content Delivery Network).
- > jsDelivr provides CDN support for Bootstrap's CSS and JavaScript.

➤ CSS(cdn):

link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

Script(cdn):

<script

src=''https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.m
in.js''></script>

BOOTSTRAP 5:

➤ Bootstrap 5 is designed to be responsive to mobile devices. To ensure proper rendering and touch zooming, add the following **<meta>** tag inside the <head> element:

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

- The width=device-width part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).
- ➤ The **initial-scale=1** part sets the initial zoom level when the page is first loaded by the browser.

WHAT IS RESPONSIVE WEB DESIGN?

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.



RESPONSIVE CONTAINERS

- \triangleright Extra small (xs) \rightarrow Portrait phones
- ➤ Small (sm) → Landscape phones
- ➤ Medium (md) → Tablets
- ➤ Large (lg) → Laptops
- \triangleright Extra large (xl) \rightarrow Laptops and Desktops
- \triangleright Extra extra large (xxl) \rightarrow Laptops and Desktops

CONTAINERS:

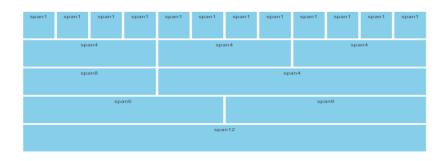
- container -fixed width container
- ➤ .container-fluid -full width container

Example-1:

Container

> Container-fluid

BOOTSTRAP GRIDS:



Example:

FIXED CONTAINER:

- ➤ Use the .container class to create a responsive, fixed-width container.
- ➤ Its width (max-width) will change on different screen sizes.

	ra small Small 76px ≥576px	Medium ≥768px	Large ≥992px	Extra Large ≥1200px	XXL ≥1400px
max-width 100	540px	720px	960px	1140px	1320px

RESPONSIVE CONTAINERS:

The max-width of the container will change on different screen sizes/viewports.

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

OFFSET:

- ➤ Move columns to the right using .offset-md-* classes.
- For example, .offset-md-4 moves .col-md-4



> Example:

</div>

MARGIN & PADDING:

- > m-margin.
- > p- padding.
- > t- margin-top or padding-top.
- **b** margin-bottom or padding-bottom.
- > s- margin-left or padding-left.
- > e- margin-right or padding-right.
- > x- both left & right.
- > y- top & bottom.
- > 0- eliminate the margin or padding by set.
- The values for margin & padding starts from 1 to 5.
- ➤ auto for classes that set the margin & padding auto.

Example:

TEXT/TYPOGRAPHY:

- ➤ Bootstrap 5 uses a default font-size of 1rem (16px by default), and its line-height is 1.5.
- ➤ In addition, all elements have margin-top: 0 and margin-bottom: 1rem (16px by default).

> <h1>-<h6>

✓ Bootstrap 5 styles HTML headings (<h1> to <h6>) with a bolder font-weight and a responsive font-size.

✓ Example:

> Display Headings:

- ✓ Display headings are used to stand out more than normal headings (larger font-size and lighter font-weight).
- ✓ There are six classes to choose from display-1 to display-6
- ✓ Example:

Font Size:

```
.fs-1 text
.fs-2 text
.fs-3 text
.fs-4 text
.fs-5 text
.fs-6 text
```

Display 1
Display 2

Display 3 Display 4

Display 5 Display 6

.fs-1 text

.fs-2 text

.fs-3 text

.fs-4 text

.fs-5 text

> Font Weight:

✓ Quickly change the font-weight or font-style of text with these utilities. font-style utilities are abbreviated as .fst-* and font-weight utilities are abbreviated as .fw-*.

✓ Example:

Bold text.

class= Iw-bold >bold text.

Bolder weight text

(relative to the parent element).

Semibold weight text.

Medium weight text.

Normal weight text.

Light weight text.

Lighter weight text

(relative to the parent element).

Italic text.

Text with normal font style

> Small:

- ✓ It is used to create a smaller, secondary text in any heading.
- ✓ Example:

<h1>h1 heading <small>secondary text</small></h1>

> Mark:

- ✓ with a yellow background color and some padding.
- ✓ Example:

Use the mark element to <mark>highlight</mark> text.

Abbrivation:

- ✓ With a dotted border bottom and a cursor with question mark on hover.
- ✓ Example:

The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.

Block Ouote:

- ✓ Add the .blockquote class to a <blockquote> when quoting blocks of content from another source. And when naming a source, like "from WWF's website", use the .blockquote-footer class.
- ✓ Example:

 blockquote class="blockquote">

Bold text.

Bolder weight text (relative to the parent element).

Semibold weight text.

Medium weight text.

Normal weight text.

Light weight text.

Lighter weight text (relative to the parent element).

Italic text.

Text with normal font style

```
For 50 years, WWF has been protecting the future of nature.
<footer class="blockquote-footer">From WWF's website</footer></body>
```

> Code:

- ✓ Inline snippets of code should be embedded in the code element.
- ✓ Example:

The following HTML elements: <code>span</code>, <code>section</code>, and <code>div</code> defines a section in a document.

> Keyboard Inputs:

- ✓ To indicate input that is typically entered via the keyboard, use the kbd element.
- ✓ Example:

Use <kbd>ctrl + p</kbd> to open the Print dialog box.

> Text alignment:

✓ Left aligned:

Left-aligned text.

✓ Right aligned:

Right-aligned text.

✓ Center aligned:

Center-aligned text.

> Text-Transform:

✓ Uppercase:

Lowercased text.

✓ Lowercase:

Uppercased text.

✓ Capitalize:

Capitalized text.

➤ Lead:

- ✓ Makes a paragraph stand out.
- ✓ Example:

This paragraph stands out.

> Text-break:

✓ Prevents long text from breaking layout.

```
✓ Example:
```

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz

List-inline:

- ✓ Places all list items on a single line.
- ✓ Example:

```
    class="list-inline-item">Coffee
    class="list-inline-item">Tea
    class="list-inline-item">Milk
```

List-unstyled:

- ✓ Removes the default list-style and left margin on list items.
- ✓ Example:

```
CoffeeTeaMilk
```

BORDER:

➤ Use border utilities to quickly style the border and border-radius of an element. Great for images, buttons, or any other element.

Example:

```
<span class="border"></span>
<span class="border-top"></span>
<span class="border-end"></span>
<span class="border-bottom"></span>
<span class="border-start"></span>
```

Subtractive:

Border color:



BORDER-WIDTH:

BORDER-RADIUS

75x75

75x75

75x75

75x75

75x75

75x75

150x75

Sizes:

TEXT COLORS:

Primary	Secondary	Success	
Danger	Warning	Info	

.text-primary

.text-primary-emphasis

.text-secondary

.text-secondary-emphasis

.text-success

.text-success-emphasis

.text-danger

.text-danger-emphasis

.text-warning

.text-warning-emphasis

.text-info

.text-info-emphasis

BACKGROUND COLOR

<div class="p-3 mb-2 bg-primary text-white">.bg-primary</div>
<div class="p-3 mb-2 bg-secondary text-white">.bg-secondary</div>
<div class="p-3 mb-2 bg-success text-white">.bg-success</div>
<div class="p-3 mb-2 bg-danger text-white">.bg-danger</div>
<div class="p-3 mb-2 bg-warning text-dark">.bg-warning</div>
<div class="p-3 mb-2 bg-info text-dark">.bg-info</div></div>

text-light.

text-light-emphasis.

.text-dark

.text-dark-emphasis

.text-body

.text-body-emphasis

.text-body-secondary

.text-body-tertiary

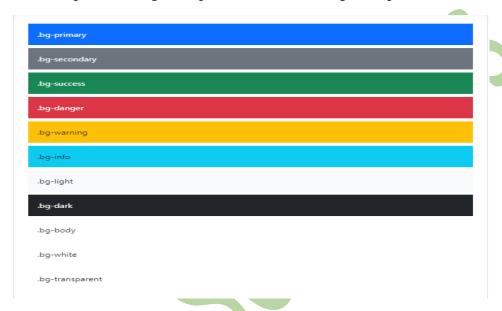
.text-black

.text-white

.text-black-50

.text-white-50

<div class="p-3 mb-2 bg-light text-dark">.bg-light</div>
<div class="p-3 mb-2 bg-dark text-white">.bg-dark</div>
<div class="p-3 mb-2 bg-body text-dark">.bg-body</div>
<div class="p-3 mb-2 bg-white text-dark">.bg-white</div>
<div class="p-3 mb-2 bg-transparent text-dark">.bg-transparent</div>



OPACITY:

<div class="bg-success p-2 text-white">This is default success </div>
<div class="bg-success p-2 text-white bg-opacity-75">75% opacity </div>
<div class="bg-success p-2 text-dark bg-opacity-50">50% opacity </div>
<div class="bg-success p-2 text-dark bg-opacity-25">25% opacity </div>
<div class="bg-success p-2 text-dark bg-opacity-10">10% opacity </div></div>

This is default success background
This is 75% opacity success background
This is 50% opacity success background
This is 25% opacity success background
This is 10% opacity success background

TABLE:

1. Basic Table:

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

Example:

```
<thead>
    Firstname
       Lastname
       Email
    </thead>
  John
       Doe
       john@example.com
    Mary
        Moe 
       mary@example.com
```

2. Striped Rows:

- ➤ The .table-striped class adds zebra-stripes to a table.
- > Example:

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

3. Bordered Table:

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

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

4. Hover Rows:

- ➤ The .table-hover class adds a hover effect (grey background color) on table rows.
- > Example:

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

5. Black/Dark table:

- The .table-dark class adds a black background to the table.
- **Example:**

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

6. Dark Striped table:

- ➤ Combine .table-dark and .table-striped to create a dark, striped table.
- > Example:

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

7. Hoverable Dark table:

- > The .table-hover class adds a hover effect (grey background color) on table rows
- > Example:

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

8. Borderless Table:

- The .table-borderless class removes borders from the table.
- > Example:

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

9. Contextual table:

- Contextual classes can be used to color the whole table (), the table rows () or table cells ().
- **Example:**

```
<div class="container mt-3">

        <thead>

            Firstname
            Lastname
            Email
            Email
```

```
</thead>
Default
     Defaultson
     def@somemail.com
  Primary
     Joe
     joe@example.com
  <tr class="table-success"
     Success
     Doe
     john@example.com
  Danger
     Moe
     mary@example.com 
  Info
     july@example.com
  Warning
     Refs
     bo@example.com
  Active
     Activeson
     act@example.com
```

```
Secondary
       Secondson
       sec@example.com
     Light
       Angie
       angie@example.com
     Dark
        Bo 
       bo@example.com
     </div>
```

Firstname	Lastname	Email
Default	Defaultson	def@somemail.com
Primary	Joe	joe@example.com
Success	Doe	john@example.com
Danger	Moe	mary@example.com
Info	Dooley	july@example.com
Warning	Refs	bo@example.com
Active	Activeson	act@example.com
Secondary	Secondson	sec@example.com
Light	Angie	angie@example.com
Dark	Во	bo@example.com

10. Table Head Colors:

- You can also use any of the contextual classes to only add a background color to the table header.
- > Example:

<thead class="table-dark">

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

11. Small Table:

- ➤ The .table-sm class makes the table smaller by cutting cell padding in half.
- > Example:

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

12. Responsive Table:

- ➤ The .table-responsive class adds a scrollbar to the table when needed (when it is too big horizontally).
- > Example:

<div class="table-responsive">

USA Female Yes Yes Yes Yes Yes	Country	Sex	Example	Example	Example	Example	Exam
	USA	Female	Yes	Yes	Yes	Yes	Yes

IMAGE:

1. Rounded image:

- The .rounded class adds rounded corners to an image.
- > Example:



2. Circled Image:

- > The .rounded-circle class shapes the image to a circle.
- > Example:



3. Bordered Image:

- ➤ The .img-thumbnail class shapes the image to a thumbnail (bordered).
- > Example:



4. Left align:

- Float an image to the left with the .float-start class.
- > Example:

5. Right Align:

- > Float an image to the right with .float-end class.
- > Example:

6. Center align:

- Center an image by adding the utility classes .mx-auto (margin:auto) and .d-block (display:block) to the image.
- > Example:

<img src="paris.jpg" class="mx-auto d-block"
style="width:50%">

7. Responsive image:

- Responsive images automatically adjust to fit the size of the screen.
- ➤ Create responsive images by adding an .img-fluid class to the tag. The image will then scale nicely to the parent element.

- ➤ The .img-fluid class applies max-width: 100%; and height: auto; to the image.
- > Example:

```
<img class="img-fluid" src="11.jpg " alt="image " width="1100"
height="500">
```

DISPLAY:

- > none
- > inline
- > inline-block
- > block
- > grid
- > inline-grid
- > table
- > table-cell
- > table-row
- > flex
- > inline-flex

Example:

<div class="d-inline p-2 text-bg-primary">d-inline</div>



d-block

d-block

d-block

GAP:

➤ When using display: grid, you can make use of gap utilities on the parent grid container.



Example:

FLEX-DIRECTION:

➤ Use .flex-row to set a horizontal direction (the browser default), or .flex-row-reverse to start the horizontal direction from the opposite side.

```
Flex item 1 Flex item 2 Flex item 3

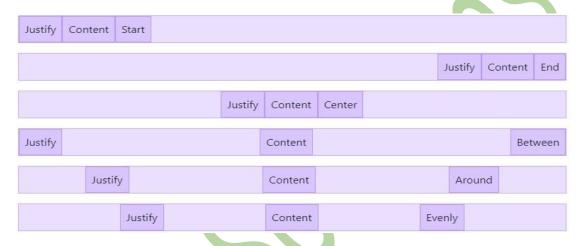
Flex item 3 Flex item 2 Flex item 1
```

Example:

```
<div class="p-2">Flex item 2</div>
<div class="p-2">Flex item 3</div>
</div>
```

JUSTIFY CONTENT:

➤ Use justify-content utilities on flexbox containers to change the alignment of flex items on the main axis (the x-axis to start, y-axis if flex-direction: column). Choose from start (browser default), end, center, between, around, or evenly.



> Example:

```
<div class="d-flex justify-content-start">...</div>
<div class="d-flex justify-content-end">...</div>
<div class="d-flex justify-content-center">...</div>
<div class="d-flex justify-content-between">...</div>
<div class="d-flex justify-content-around">...</div>
<div class="d-flex justify-content-around">...</div>
<div class="d-flex justify-content-evenly">...</div></div>
```

GROW AND SHRINK:

1. The .flex-grow-1 elements uses all available space it can, while allowing the remaining two flex items their necessary space.

```
<div class="d-flex">
        <div class="p-2 flex-grow-1">Flex item</div>
        <div class="p-2">Flex item</div>
```

```
<div class="p-2">Third flex item</div>
```

item	Flex item	Third flex item
------	-----------	-----------------

2. The second flex item with **.flex-shrink-**1 is forced to wrap its contents to a new line, "shrinking" to allow more space for the previous flex item with .w-100

Example:

Flex item	Flex item
-----------	-----------

ORDER:

- ➤ We only provide options for making an item first or last, as well as a reset to use the DOM order. As order takes any integer value from 0 to 5, add custom CSS for any additional values needed.
- > Example:

```
<div class="d-flex flex-nowrap">
        <div class="order-3 p-2">First flex item</div>
        <div class="order-2 p-2">Second flex item</div>
        <div class="order-1 p-2">Third flex item</div>
</div>
```

rst flex item	em Second flex item First flex
---------------	--------------------------------

FLOAT:

These utility classes float an element to the left or right, or disable floating.

Example:

<div class="float-start">Float start </div>

<div class="float-end">Float end </div>

<div class="float-none">Don't float on all viewport </div>

Float start on all viewport sizes

Float end on all viewport sizes

Don't float on all viewport sizes

OVERFLOW:

<div class="overflow-auto">...</div>

<div class="overflow-hidden">...</div>

This is an example of using .overflow-auto on an element with set

This is an example of using .overflow-hidden

This is an example of using .overflow-visible on an element

with set width and

This is an example of using .overflow-

<div class="overflow-visible">...</div>

<div class="overflow-scroll">...</div>

POSITION: •

<div class="position-static">...</div>

<div class="position-relative">...</div>

<div class="position-absolute">...</div>

<div class="position-fixed">...</div>

<div class="position-sticky">...</div>

ARRANGE ELEMENTS:

- Arrange elements easily with the edge positioning utilities. The format is {property}-{position}.
- ➤ Where *property* is one of:

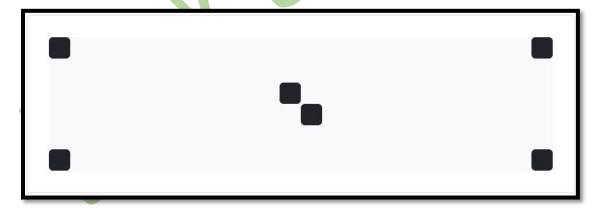
- top for the vertical top position
- start for the horizontal left position (in LTR)
- bottom for the vertical bottom position
- end for the horizontal right position (in LTR)

➤ Where *position* is one of:

- 0 for 0 edge position
- 50 for 50% edge position
- 100 for 100% edge position

> Example:

```
<div class="position-absolute top-0 start-0"></div>
<div class="position-absolute top-0 end-0"></div>
<div class="position-absolute top-50 start-50"></div>
<div class="position-absolute bottom-50 end-50"></div>
<div class="position-absolute bottom-0 start-0"></div>
<div class="position-absolute bottom-0 end-0"></div></div></ti>
```



SHADOWS:

<div class="shadow-none p-3 mb-5 bg-body-tertiary rounded">No shadow</div>
<div class="shadow-sm p-3 mb-5 bg-body-tertiary rounded">Small shadow</div>
<div class="shadow p-3 mb-5 bg-body-tertiary rounded">Regular shadow</div>

<div class="shadow-lg p-3 mb-5 bg-body-tertiary rounded">Larger shadow</div>



SIZING(WIDTH):

```
<div class="w-25 p-3">Width 25%</div>
<div class="w-50 p-3">Width 50%</div>
<div class="w-75 p-3">Width 75%</div>
<div class="w-100 p-3">Width 100%</div>
<div class="w-auto p-3">Width auto</div>
```

```
Width 25%

Width 50%

Width 75%

Width 100%

Width auto
```

SIZING(HEIGHT):

<div class="h-auto d-inline-block" style="width: 120px;">Height auto</div>

</div>

Height 25%	Height 50%	Height 75%	Height 100%	Height auto	
	3				
		3			

TEXT WRAPPING AND OVERFLOW:

- > Wrap text with a .text-wrap class.
- > Example1:

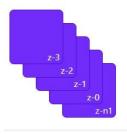
- Wrap text with a .text-nowrap class.
- > Example2:

This text should overflow the parent.

This text

Z-INDEX:

<div class="z-3 position-absolute p-5 rounded-3">z-3</div>
<div class="z-2 position-absolute p-5 rounded-3">z-2</div>
<div class="z-1 position-absolute p-5 rounded-3">z-1</div>
<div class="z-0 position-absolute p-5 rounded-3">z-0</div>
<div class="z-n1 position-absolute p-5 rounded-3">z-n1</div></div>



ALERTS:

- ➤ Bootstrap 5 provides an easy way to create predefined alert messages.
- Alerts are created with the .alert class, followed by one of the contextual classes .alert-success, .alert-info, .alert-warning, .alert-danger, .alert-primary, .alert-secondary, .alert-light or .alert-dark.

Example1:(Alert)

Example2:(Alert link)

Example3:(Closing Alerts)

```
<div class="alert alert-success alert-dismissible">
   button type="button" class="btn-close" data-bs-dismiss="alert"></button>
   <strong>Success!</strong> <This alert box could indicate a successful or positive action.
</div>
```

Success! This alert box could indicate a successful or positive X action.

Example4: (Animated Alerts)

BUTTON:

1. Button Styles:

- ➤ Bootstrap 5 provides different styles of buttons.
- The button classes can be used on <a>, <button>, or <input> elements.
- > Example:

Link Button

<input type="button" class="btn btn-success" value="Input Button">

<input type="submit" class="btn btn-success" value="Submit Button">

<input type="reset" class="btn btn-success" value="Reset Button">

Submit Button

Reset Button

2. Button Outline:

- ➤ Bootstrap 5 also provides eight outline/bordered buttons.
- Move the mouse over them to see an additional "hover" effect.

Input Button

Button

```
        Primary
        Secondary
        Success
        Info
        Warning
        Danger
        Dark
        Light
```

3. Button Sizes:

- ➤ Use the .btn-lg class for large buttons or .btn-sm class for small buttons.
- Example:

Button Sizes

Large Default Small

4. Block level buttons:

- To create a block level button that spans the entire width of the parent element, use the .d-grid "helper" class on the parent element.
- > Example:

5. Active/Disable button:

- ➤ A button can be set to an active (appear pressed) or a disabled (unclickable) state.
- The class .active makes a button appear pressed, and the disabled attribute makes a button unclickable. Note that <a> elements do not support the disabled attribute and must therefore use the .disabled class to make it visually appear disabled.
- > Example:

<button type="button" class="btn btn-primary" disabled">Disabled
Primary</button>



6. Spinner Buttons:

> Example:

7. Grouped button:

➤ Bootstrap 5 allows you to group a series of buttons together(on a single line) in a button group.



1. Example:

BADGES:

- ➤ Badges are used to add additional information to any content.
- ➤ Use the .badge class together with a contextual class (like .bg-secondary) within elements to create rectangular badges.
 - 1. Contextual Badges.

Info

2. Pill Badges.

Info

3. Badge inside an Element.

```
<button type="button" class="btn btn-info">Message<span
class="badge bg-danger">4</span></button>
```

SPINNERS:

- 1. Simple Spinners:
 - To create a spinner/loader, use the **.spinner-border** class.
 - Example:

<div class="spinner-border"></div>

- 2. Colored Spinners:
 - ➤ Use any text color utilities to add a color to the spinner.
 - > Example:

<div class="spinner-border text-primary"></div>

- 3. Growing Spinners:
 - ➤ Use the .spinner-grow class if you want the spinner/loader to grow instead of "spin".



Example heading New

> Example:

<div class="spinner-grow text-info"></div>

- 4. Spinners Size:
 - ➤ Use .spinner-border-sm or .spinner-grow-sm to create a smaller spinner.
 - > Example:

```
<div class="spinner-border spinner-border-sm"></div>
```

- 5. Spinner Buttons:
 - You can also add spinners to a button, with or without text.
 - > Example:

CARDS:

A card in Bootstrap 5 is a bordered box with some padding around its content. It includes options for headers, footers, content, colors, etc.

1. Basic card:

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

2. Header and Footer:

- ✓ The .card-header class adds a heading to the card and the .card-footer class adds a footer to the card.
- ✓ Example:

3. Contextual cards:

- ✓ To add a background color the card, use contextual classes (.bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light).
- ✓ Example:

4. Title, 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 element if it is the last child (or the only one) inside .card-body. The .card-link class adds a blue color to any link, and a hover effect.

✓ Example:

5. Card images:

- ✓ Add .card-img-top or .card-img-bottom to an to place the image at the top or at the bottom inside the card. Note that we have added the image outside of the .card-body to span the entire width.
- ✓ Example:

6. Card image overlays:

- ✓ Turn an image into a card background and use .card-img-overlay to add text on top of the image.
- ✓ Example:

```
<div class="card" style="width:500px">
                                    class="card-img-top"
                                                             src="img_avatar1.png"
                          <img
                         alt="Card image">
                          <div class="card-img-overlay">
                                  <h4 class="card-title">John Doe</h4>
                                  Some example text.
                                                                  btn-primary">See
                                        href="#"
                                                    class="btn
                                  <a
                               Profile</a>
                          </div>
                   </div>
CAROUSEL / SLIDESHOW:
   > The Carousel is a slideshow for cycling through elements.
      <!-- 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>
                                             data-bs-target="#demo"
                   <but
                            type="button"
                                                                     data-bs-slide-
                   to="1"></button>
                            type="button"
                                             data-bs-target="#demo"
                   <button
                                                                     data-bs-slide-
                   to="2"></button>
            </div>
                                 <!-- The slideshow/carousel -->
            <div class="carousel-inner">
                   <div class="carousel-item active">
                         <img src="la.jpg" alt="Los Angeles" class="d-block w-100">
                   </div>
```

<img src="chicago.jpg" alt="Chicago" class="d-block w-

<div class="carousel-item">

<div class="carousel-item">

100">

</div>

Example:

```
<img src="ny.jpg" alt="New York" class="d-block w-100">
             </div>
      </div>
                         <!-- Left and right controls/icons -->
                  class="carousel-control-prev"
                                                    type="button"
      <but
                                                                      data-bs-
      target="#demo" data-bs-slide="prev">
             <span class="carousel-control-prev-icon"></span>
      </button>
      <but
                  class="carousel-control-next"
                                                    type="button"
                                                                      data-bs-
      target="#demo" data-bs-slide="next">
             <span class="carousel-control-next-icon"></span>
      </button>
</div>
```

Explanation:

Class	Description
.carousel	Creates a carousel
.carousel-indicators	Adds indicators for the carousel. These are the little dots at the bottom of each slide (which indicates how many slides there are in the carousel, and which slide the user are currently viewing)
.carousel-inner	Adds slides to the carousel
.carousel-item	Specifies the content of each slide
.carousel-control- prev	Adds a left (previous) button to the carousel, which allows the user to go back between the slides
.carousel-control-	Adds a right (next) button to the carousel, which allows the

next	user to go forward between the slides
.carousel-control- prev-icon	Used together with .carousel-control-prev to create a "previous" button
.carousel-control- next-icon	Used together with .carousel-control-next to create a "next" button
.slide	Adds a CSS transition and animation effect when sliding from one item to the next. Remove this class if you do not want this effect

NAVIGATION BARS:

- ➤ 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
 element (or a <div>) with class="navbar-nav". Then add elements with a .nav-item class followed by an <a> element with a .nav-link class.