Bootstrap 5 : Overview Video 1
What is Bootstrap=>
Quickly design and customize responsive mobile-first sties with Bootstrap. the
world's ,most popular front-end open source toolkit. Sass variables and mixins
responsive grid system,extensive pre-built components,and powerful JavaScript
plugins.

In simple terms=>
(i). Bootstrap is a giant collection of handy, resuable bits of code written in HTML,CSS
  JavaScript
(ii). it's also a front-end development framework that enables developers & designers to quickly
  build fully responsive websites
(iii). Bootstrap is completely free to use in personal and commercial projects.
(iv). Bootstrap saves you from writing lots of CSS code.

Bootstrap : Version History=>
1. First version released: 2011 @ Twitter
2. Total numbers of releases: 20+ releases
i) include 3 major re-writes (v2,v3 and v4)
3. Current stable version:v5
4. Latest version release:v5
i) Alpha version as of date : Aug 2020
ii) Stable version as of date : May 2021

Bootstrap What's new in V5 Video 2
What's new in v5=>
1. Major re-write of the entire framework
2. Brand new look and feel
3. Brand new logo
4. New Typography
5. No jQuery required anymore
6. New CSS custom properties
7. Dropping support for Internet Explore(v5)
8. New Themes Colors
9. Enhanced Grid
i) Multiple changes including addition of xxl
10. Offcanvas
11. Bootstrap 5 has its own icon system

Bootstrap 5 Installation Video 3

Bootstrap Layouts and Grids System Video 4
Basic Terminology
1. What is Responsive Design ?
i) Responsive Web design is the approach that suggests that design and development should respond to
  the user,s behaviour and environment based on screen size. platform and orientation
ii) The practice consists of a mix of flexible grids and layouts, images and an inteligent use of CSS media
queries.

2. What is a Box Model ?
  In CSS, the term "Box Model" is used when talking about design and layout. The CSS box model is ess
entially
  box that wraps around every HTML element. it consists of: Margins, Borders, Padding, and the actual c
ontent

3. Bootstap Container Layout
i) Container are the most basic layout element in Bootstrap.
ii) Containers are used to pad the content inside of them.
iii) There are two container classes available:
iv) The .Container class provides a responsive fixed width container
v) The .Container-fluid class provides a full width container,spanning the entire
   width of the viewport

4. Container-Fluid
i) Width is always 100%

5. Container
i) Dimensions of Fixed Container

6. Container Layout

	Extra small <576px	Small >576px	Medium >768px	Large >992px	X-Large >1200px	XX-Large >1400px
.container	100%	540px	720px	960px	1140px	1320px
.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
.container-fluid	100%	100%	100%	100%	100%	100%

7. Bootstrap Grid Features
i) Bootstrap's grid system allows up to 12 column across the page.
ii) Rows
iii) Columns
iv) Supports various screen resolutions like xs,sm,md,lg,xl,xxl

8. Bootstrap : Grid
i) one col 12 grid only
ii) col-12
iii) col-4 col-8
iv) col-4 col-4 col-4
v) col-3 col-3 col-3 col-3
vi) col-6 col-6

9. Bootstrap : Grid Options
1) Bootstrap Grid Features
i) Extra small (xs)
ii) Small (sm)
iii) Medium (md)
iv) Large (lg)
v) Extra Large (xl)
vi) Extra extra large (xxl)

	xs <576px	sm >576px	md >768px	lg >992px	xl >1200px	xxl >1400px
.Container(max-width)	None(auto)	540px	720px	960px	1140px	1320px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-	.col-xxl-
# of Column	12					

Bootstrap Grids and Cols   Video 5
Bootstap : Structure

1. Container
2. Row
3. Col

```
<div class = "container">
    <div class = "row">
 <div class = "col">A</div>
    </div>
</div>
```

Bootstrap : Grid
i) one col 12 grid only
ii) col-12
iii) col-4 col-8
iv) col-4 col-4 col-4
v) col-3 col-3 col-3 col-3
vi) col-6 col-6

Bootstrap Offset Class   Video 6
Bootstap : Structure
1. Container
2. Row
3. Col

```
<div class = "container">
    <div class = "row">
 <div class = "col">A</div>
    </div>
</div>
```

Bootstap : Offset Class
```
<div class = "container">
    <div class = "row">
 <div class = "col-md-4 offset-md-3">A</div>
    </div>
</div>
```
Bootstrap : Offset Break Points
Offset Class for different Break Points
1. Extra Extra Large offset-xxl-*
2. Extra Large offset-xl-*
3. Large offset-lg-*
4. Medium offset-md-*
5. Small offset-sm-*
6. Extra Small
Note:- without responsive offset {offset-*} 1 -12

Bootstrap Order Classes   Video 7
Bootstrap : Reordering
```
<div class="container">
    <div class="row">
        <div class="col-1 order-last">Col 1</div>  // orfer-last // Last Postion
        <div class="col-2">Col 2</div>
        <div class="col-3 order-first">Col 3</div>  // order-first // First Postion
 <div class="col-4">Col 4</div>
    </div>
```

```
</div>
// Result
<div class="container">
    <div class="row">
        <div class="col-1">Col 3</div>  // First Postion
        <div class="col-2">Col 2</div>
        <div class="col-3">Col 1</div>  // Last Postion
 <div class="col-4">Col 4</div>
    </div>
</div>
```

First & Last Order Class for different Break Points
  .order-first ,   .order-last
1. Extra Extra Large .order-xxl-first, .order-xxl-last
1. Extra Large .order-xl-first, .order-xl-last
2. Large .order-lg-first, .order-lg-last
3. Medium .order-md-first, .order-md-last
4. Small .order-sm-first, .order-md-last
5. Extra Small

Reordering with Grid Numbers
```
<div class="container">
    <div class="row">
        <div class="col-1 order-1">Col 1</div>  // 2 Postion
        <div class="col-2 order-3">Col 2</div>  // 4 Postion
        <div class="col-3 order-0">Col 3</div>  // 1 Postion
 <div class="col-4 order-2">Col 4</div>  // 3 Postion
    </div>
</div>
```

```
// Result
<div class="container">
    <div class="row">
        <div class="col-1">Col 2</div>   // 2 Postion
        <div class="col-2">Col 4</div>   // 4 Postion
        <div class="col-3">Col 1</div>   // 1 Postion
 <div class="col-4">Col 3</div>  // 3 Postion
    </div>
</div>
```

Reordering Classes for different Break Points
  .order-*
1. Extra Extra Large .order-xxl-*
1. Extra Large .order-xl-*
2. Large .order-lg-*
3. Medium .order-md-*
4. Small .order-sm-*
5. Extra Small
Note :- As order takes any integer value from 0 - 5

Bootstrap Nesting Classes   Video 8
What is Nesting
```
<div class="container">
    <div class="row">
        <div class="col-md-8">
```

```html
    <div class="row">
   <div class="col-md-6">A</div>
   <div class="col-md-6">B</div>
   </div>
   </div>
          <div class="col-md-4">
   <div class="row">
   <div class="col-md-3">Hello</div>
   </div>
  </div>
      </div>
  </div>
```

Bootstrap Margin Classes   Video 9
i) .m-auto --> center
ii) .mx-auto --> left & right auto only
iii) .ms-auto --> right
iv) .me-auto --> end

Margin Auto Classes for different Break Points
1. Extra Extra Class .m-xxl-auto
2. Extra Large .m-xl-auto   Top
3. Large .m-lg-auto Left Right
4. Medium .m-md-auto Bottom
5. Small .m-sm-auto
6. Extra Small

Margin Classes for different Sides
1. Margin .m-* 0 0px
2. Margin-right .mr-* 1 0.25rem
3. Margin-left .ml-* 2 0.50rem
4. Margin-top .mt-* 3 1rem
5. Margin-bottom .mb-* 4 1.5rem
  0 - 5 5 3rem

Margin Classes for different Break Points
  Margin Margin-right Margin-left Margin-top Margin-bottom
1. Extra Extra Large .m-xxl-n* .m-xxl-n*   .me-xxl-n*   .mt-xxl-n* .mb-xxl-n*
1. Extra Large .m-xl-n* .ms-xl-n*   .me-xl-n*   .mt-xl-n* .mb-xl-n*
2. Large .m-lg-n* .ms-lg-n*   .me-lg-n*   .mt-lg-n* .mb-lg-n*
3. Medium .m-md-n* .ms-md-n*   .me-md-n*   .mt-md-n* .mb-md-n*
4. Small .m-sm-n* .ms-sm-n*   .me-sm-n*   .mt-sm-n* .mb-sm-n*
5. Extra Small
  0 - 5

Margin Negative Margin for different Break Points
  Margin Margin-right Margin-left Margin-top Margin-bottom
1. Extra Extra Large .m-xxl-* .ms-xxl-*   .me-xxl-*   .mt-xxl-* .mb-xxl-*
1. Extra Large .m-xl-* .ms-xl-*   .me-xl-*   .mt-xl-* .mb-xl-*
2. Large .m-lg-* .ms-lg-*   .me-lg-*   .mt-lg-* .mb-lg-*
3. Medium .m-md-* .ms-md-*   .me-md-*   .mt-md-* .mb-md*-
4. Small .m-sm-* .ms-sm-*   .me-sm-*   .mt-sm-* .mb-sm-*
5. Extra Small
  0 - 5

Note :- in CSS, margin properties can utilize negative values (padding cannot)
 These negative margins are disabled by default but can be enabled in
 Sass by setting Senable-nagative-margins:true.

Bootstrap CSS Padding Classes   Video 10
Padding Classes
```
<div class="container">
    <div class="row">
<div class="col-md-4"></div>
   </div>
</div>
```
padding-left : 15px; by default
padding-right: 15px; by default

Padding Classes for different Sides
1. Padding .p-* 0 0px
2. Padding-right .ps-* 1 0.25rem
3. Padding-left .pe-* 2 0.50rem
4. Padding-top .pt-* 3 1rem
5. Padding-bottom .pb-* 4 1.5rem
  0 - 5 5 3rem

Margin Classes for different Break Points
  Padding Padding-right Padding-left Padding-top Padding-bottom
1. Extra Extra Large .p-xxl-* ps.xxl-*   .pe-xxl-*   .pt-xxl-* .pt-xxl-*
2. Extra Large .p-xl-* .ps-xl-*   .pe-xl-*   .pt-xl-* .pb-xl-*
3. Large .p-lg-* .ps-lg-*   .pe-lg-*   .pt-lg-* .pb-lg-*
4. Medium .p-md-* .ps-md-*   .pe-md-*   .pt-md-* .pb-md-*
5. Small .p-sm-* .ps-sm-*   .pe-sm- *   .pt-sm-* .pb-sm-*
6. Extra Small
  0 - 5

Bootstrap CSS Horizontal Alignment Video 11
1- .justify-content-start
2- .justify-content-end
3- .justify-content-center
4- .justify-content-between
5- .justify-content-around
6- .justify-content-evenly

```
<div class="container">
    <div class="row justify-content-center">
<div class="col-md-3">A</div>
<div class="col-md-3">B</div>
<div class="col-md-3">C</div>
   </div>
</div>
```

```
// Result
<div class="container">
    <div class="row justify-content-end">
<div class="col-md-3">A</div>
<div class="col-md-3">B</div>
<div class="col-md-3">C</div>
```

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

Justify-Content Classes for different Break Points
   Justify-Content-Start Justify-Content-End Justify-Content-Center Justify-Content-Between Justify-Content-Around Justify-Content-Evenly
1. Extra Extra Large .justify-content-xxl-start .justify-content-xxl-end .justify-content-xxl-center .justify-content-xxl-between .justify-content-xxl-around .justify-content-xxl-evenly
2. Extra Large .justify-content-xl-start .justify-content-xl-end .justify-content-xl-center .justify-content-xl-between .justify-content-xl-around .justify-content-xl-evenly
3. Large .justify-content-lg-start .justify-content-lg-end .justify-content-lg-center .justify-content-lg-between .justify-content-lg-around .justify-content-lg-evenly
4. Medium .justify-content-md-start .justify-content-md-end .justify-content-md-center .justify-content-md-between .justify-content-md-around .justify-content-md-evenly
5. Small .justify-content-sm-start .justify-content-sm-end .justify-content-sm-center .justify-content-sm-between .justify-content-sm-around .justify-content-sm-evenly
6. Extra Small

Bootstrap CSS VerticalAlignment Video 12
1- .align-items-start
2- .align-items-end
3- .align-items-center
4- .align-items-baseline
5- .align-items-stretch

```
<div class="container">
      <div class="row align-items-center">
 <div class="col-md-3">A</div>
 <div class="col-md-3">B</div>
 <div class="col-md-3">C</div>
 <div class="col-md-3">D</div>
 <div class="col-md-3">E</div>
      </div>
</div>
```

Align-items Classes for different Break Points
   Start End Center Baseline Stretch
1. Extra Extra Large .align-items-xxl-start .align-items-xxl-end .align-items-xxl-center .align-items-xxl-baseline .align-items-xxl-stretch
2. Extra Large .align-items-xl-start .align-items-xl-end .align-items-xl-center .align-items-xl-baseline .align-items-xl-stretch
3. Large .align-items-lg-start .align-items-lg-end .align-items-lg-center .align-items-lg-baseline .align-items-lg-stretch
4. Medium .align-items-md-start .align-items-md-end .align-items-md-center .align-items-md-baseline .align-items-md-stretch
5. Small .align-items-sm-start .align-items-sm-end .align-items-sm-center .align-items-sm-baseline .align-items-sm-stretch
6. Extra Small

Bootstrap CSS Align-Content Classes   video 13
1- . align-content-start
2- align-content-end
3- align-content-center
4- align-content-between
5- align-content-around

6- align-content-stretch

```
<div class="container">
     <div class="row align-content-start">
 <div class="col-md-3">A</div>
 <div class="col-md-7">B</div>
 <div class="col-md-5">C</div>
 <div class="col-md-3">D</div>
 <div class="col-md-2">E</div>
    </div>
</div>
```

Align-Content Classes for different Break Points
  Start End Center Between Around Stretch
1. Extra Extra Large .align-content-xxl-start .align-content-xxl-end .align-content-xxl-center .align-content-xxl-between .align-content-xxl-around .align-content-xxl-stretch
2. Extra Large .align-content-xl-start .align-content-xl-end .align-content-xl-center .align-content-xl-between .align-content-xl-around .align-content-xl-stretch
3. Large .align-content-lg-star t .align-content-lg-end .align-content-lg-center .align-content-lg-between .align-content-lg-around .align-content-lg-stretch
4. Medium .align-content-md-start .align-content-md-end .align-content-md-center .align-content-md-between .align-content-md-around .align-content-md-stretch
5. Small .align-content-sm-start .align-content-sm-end .align-content-sm-center .align-content-sm-between .align-content-sm-around .align-content-sm-stretch
6. Extra Small

Bootstrap CSS Align-Self Classes video 14
1- .align-self-start
2- .align-self-end
3- .align-self-center
4- .align-self-baseline
5- .align-self-stretch
6. .align-self-auto

```
<div class="container">
     <div class="row align-items-start">
 <div class="col-md-2  align-self-start">A</div>
 <div class="col-md-2 align-self-center">B</div>
 <div class="col-md-2  align-self-end">C</div>
    </div>
</div>
```

Align-Self Classes for different Break Points
  Start End Center Baseline Stretch   Auto
1. Extra Extra Large .align-self-xxl-start .align-self-xxl-end .align-self-xxl-center .align-self-xxl-baseline .align-self-xxl-stretch .align-self-xxl-auto
2. Extra Large .align-self-xl-start .align-self-xl-end .align-self-xl-center .align-self-xl-baseline .align-self-xl-stretch .align-self-xl-auto
3. Large .align-self-lg-start .align-self-lg-end .align-self-lg-center .align-self-lg-baseline .align-self-lg-stretch .align-self-lg-auto
4. Medium .align-self-md-start .align-self-md-end .align-self-md-center .align-self-md-baseline .align-self-md-stretch .align-self-md-auto
5. Small .align-self-sm-start .align-self-sm-end .align-self-sm-center .align-self-sm-baseline .align-self-sm-stretch .align-self-sm-auto

6. Extra Small

Bootstrap CSS Flex Direction Classes video 15
Flex Direction Classes
```
<div class="container">
      <div class="row">
 <div class="col-md-3">A</div>
 <div class="col-md-3">B</div>
 <div class="col-md-3">C</div>
 <div class="col-md-3">D</div>
 </div>
</div>
// Result
<div class="container">
      <div class="row">
 <div class="col-md-3">D</div>
 <div class="col-md-3">C</div>
 <div class="col-md-3">B</div>
 <div class="col-md-3">A</div>
 </div>
</div>
```
1- .flex-row
2- .flex-row-reverse
3- .flex-column
4- .flex-column-reverse

1- .flex-wrap
2- .flex-nowrap
3- .flex-wrap-reverse

Flex Fill Class=>
1- .flex-fill // only col properties

Flex Direction Classes for different Break Points
   flex-row   flex-row-reverse   flex-column flex-column-reverse   flex-wrap   flex-nowrap flex-fill
1. Extra Extra Large .flex-xxl-row .flex-xxl-row-reverse .flex-xxl-column .flex-xxl-column-reverse .flex-xxl-wrap .flex-xxl-nowrap .flex-xxl-fill
1. Extra Large .flex-xl-row .flex-xl-row-reverse .flex-xl-column .flex-xl-column-reverse .flex-xl-wrap .flex-xl-nowrap .flex-xl-fill
2. Large .flex-lg-row .flex-lg-row-reverse .flex-lg-column .flex-lg-column-reverse .flex-lg-wrap .flex-lg-nowrap .flex-lg-fill
3. Medium .flex-md-row .flex-md-row-reverse .flex-md-column .flex-md-column-reverse .flex-md-wrap .flex-md-nowrap .flex-md-fill
4. Small .flex-sm-row .flex-sm-row-reverse .flex-sm-column .flex-sm-column-reverse .flex-sm-wrap .flex-sm-nowrap .flex-sm-fill
5. Extra Small

Bootstrap Display Utilities Classes Video 16
1. display : none; .d-none
2. display : inline; .d-inline
3. display : inline-block; .d-inline-block
4. display : block; .d-block
5. display : table; .d-table
6. display : table-cell; .d-table-cell
7. display : table-row; .d-table-row

8. display : flex; .d-flex
9. display : inline-flex; .d-inline-flex
10. display : grid; .d-grid
11. display : print-none; .d-print-none
12. display : print-inline; .d-print-inline
13. display : print-inline-block; .d-print-inline-block
14. display : print-block; .d-print-block
15. display : print-table; .d-print-table
16. display : print-table-cell; .d-print-table-cell
17. display : print-flex; .d-print-flex
18. display : print-inline-flex; .d-print-inline-flex

Display Classes for different Break Points

	Display : none	Display : flex	Display : inline-block	Display : Inline	Display : Block	Display : Inline-flex
1. Extra Extra Large	.d-xxl-none	.d-xxl-flex	.d-xxl-inline-block	.d-xxl-inline	.d-xxl-block	.d-xxl-inline-flex
1. Extra Large	.d-xl-none	.d-xl-flex	.d-xl-inline-block	.d-xl-inline	.d-xl-block	.d-xl-inline-flex
2. Large	.d-lg-none	.d-lg-flex	.d-lg-inline-block	.d-lg-inline	.d-lg-block	.d-lg-inline-flex
3. Medium	.d-md-none	.d-md-flex	.d-md-inline-block	.d-md-inline	.d-md-block	.d-md-inline-flex
4. Small	.d-sm-none	.d-sm-flex	.d-sm-inline-block	.d-sm-inline	.d-sm-block	.d-sm-inline-flex
5. Extra Small	.d-none	.d-flex				

Bootstrap CSS Float & Clearfix Class Video 17
Float Classes
1- .float-start Left
2- .float-end Right
3- .clearfix

Float Classes for different Break Points

	Float : end	Float : start	Float : none
1. Extra Extra Large	.float-xxl-end	.float-xxl-start	.float-xxl-none
2. Extra Large	.float-xl-end	.float-xl-start	.float-xl-none
3. Large	.float-lg-end	.float-lg-start	.float-lg-none
4. Medium	.float-md-end	.float-md-start	.float-md-none
5. Small	.float-sm-end	.float-sm-start	.float-sm-none
6. Extra Small	.float-end	.float-start	.float-none

Width Classes
1. w-25 width 25%
2. w-50 width 50%
3. w-75 width 75%
4. w-100 mw-100 width 100%
5. w-auto width auto

Height Classes
1. h-25 height 25%
2. h-50 height 50%
3. h-75 height 75%
4. h-100 mh-100 height 100%
5. h-auto height auto

Viewport Height & Width Classes
Width=>
1. vw-100
2. min-vw-100
Height=>

1. vh-100
2. min-vh-100

```
<div class="container clearfix">
    <div class="green w-25 h-100 float-start">
        <h2>Div A</h2>
        <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Animi, maiores!</p>
    </div>
    <div class="pink w-25 float-end">
        <h2>Div A</h2>
        <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Animi, maiores!</p>
    </div>
</div>
```

Bootstrap CSS Position & Overflow Video 18
1. position : relative; .positon-relative
2. position : absolute; .positon-absolute
3. position : static; .positon-static
4. position : fixed; .positon-fixed
5. position : sticky; .positon-sticky

I Bootstrap : Arrange Element Classes
i.   top For the vertical top position
ii. start For the horizontal left position
iii. bottom   For the vertical bottom position
iv. end For the horizontal end position

Where position is one of:
i. 0 - for 0 edge position
ii. 50 - for 50% edge position
iii. 100 - for 100% edge position

Position Classes
1- .fixed-top
2- .fixed-bottom
3- .sticky-top

Overflow Classes=>
1- .overflow-auto
2- .overflow-hidden
3- .overflow-visible
4- .overflow-scroll

Bootstrap Margin & Padding video 19
Padding Classes
1. Padding .p-
2. Padding-right .pr-
3. Padding-left .pl-
4. Padding-top .pt-
5. Paddding-bottom .pb-
  0 - 5
1. Y-axis
2. X-asix

Top & Bottom Y-axis

Left & Right X-axix
padding-left : 15; // by default
padding-right : 15; // by default

Margin Classes
1. Margin   .m-
2. Margin right .mr-
3. Margin left .ml-
4. Margin top .mt-
5. Margin bottom .mb-
  0 - 5

Padding & Margin Classes for Y-Axis & X-Axix
Top & Bottom Y-axis
Left & Right X-axix
1. Y-Axis Padding .py- 0 0px
2. X-Axis Padding -px- 1 0.25rem
  0 - 5 2 0.50rem
1. Y-Axis Margin .my- 3 1rem
2. X-Axis Margin -mx- 4 1.5rem
  0 - 5 5 3rem

No Padding & Margin Class
1-.col padding-left : 15; padding-right : 15;
2-.row margin-left : 15; margin-right : 15;
3- .no-gutters padding & margin --> 0

Padding & Margin for different Break Points
  Padding Y Padding X   Margin Y   Margin X
1. Extra Large .py-xl- .px-xl-   .my-xl-   .mx-xl-
2. Large .py-lg- .px-lg-   .my-lg-   .mx-lg-
3. Medium .py-md- .px-md-   .my-md-   .mx-md-
4. Small .py-sm- .px-sm-   .my-sm-   .mx-sm-
5. Extra Small
  0 - 5

Negative Margin for different Break Points
  Margin Y   Margin X
1. Extra Large .my-xl-n   .mx-xl-n
2. Large .my-lg-n   .mx-lg-n
3. Medium .my-md-n   .mx-md-n
4. Small .my-sm-n   .mx-sm-n
5. Extra Small .my-n   .mx-n
  0 - 5

Bootstrap Color & Background Color Video 19
(I). Background-Color Classes
1- .bg-primary
2- .bg-secondary
3- .bg-success
4- .bg-danger
5- .bg-warning
6- .bg-info
7- .bg-light

8- .bg-dark
9- .bg-body
10- .bg-white
11- .bg-transparent

(II). Background-Color Classes
1- .bg-primary .bg-gradient
2- .bg-secondary .bg-gradient
3- .bg-success .bg-gradient
4- .bg-danger .bg-gradient
5- .bg-warning .bg-gradient
6- .bg-info .bg-gradient
7- .bg-light .bg-gradient
8- .bg-dark .bg-gradient
9- .bg-body .bg-gradient
10- .bg-white .bg-gradient
11- .bg-transparent .bg-gradient

(III). Background-Opacity Classes
i. This is default success background
ii. This is 75% opacity success background
iii. This is 50% opacity success background
iv. This is 25% opacity success background
v. This is 10% opacity success background

(IV). Color Classes
1- .text-primary
2- .text-secondary
3- .text-success
4- .text-danger
5- .text-warning
6- .text-info
7- .text-light
8- .text-dark
9- .text-body
10- .text-muted
11- .text-white
12- .text-black-50
13. .text-white-50
11- .text-transparent

(V). Colors-Opacity Classes
i. This is default primary text
ii. This is 75% opacity primary text
iii. This is 50% opacity primary text
iv. This is 25% opacity primary text
v. This is 10% opacity primary text

Bootstrap Text Alignment Classes Video 20
i. Text Alignment
1. text-align : left .text-start
2. text-align : center .text-center
3. text-align : right .text-end

Text Align Classes Break Points

Text Start   Text Left Text Center
1. Extra Extra Large .text-xxl-start .text-xxl-end .text-xxl-center
2. Extra Large .text-xl-start .text-xl-end .text-xl-center
3. Large .text-lg-start .text-lg-end .text-lg-center
4. Medium .text-md-start .text-md-end .text-md-center
5. Small .text-sm-start .text-sm-end .text-sm-center
6. Extra Small .text-start   .text-end   .text-center

ii. Text Transform Classes
1. text-transform : lowercase; .text-lowercase
2. text-transform : uppercase; .text-uppercase
3. text-transform : capitalize; .text-capitalize

iii. Text Wrapping & Overflow Classes
1- .white-space : normal; .text-wrap
2- .white-space : nowrap; .text-nowrap
3- .word-wrap-wrap : break-word; .text-break
4- .word-break : break-word; .text-break

iv. FontSize Classes
1. font-size : 2.5rem .fs-1 2.5rem 40px
2. font-size : 2rem .fs-2 2rem 32px
3. font-size : 1.75rem .fs-3 1.75rem 28px
4. font-size : 1.50rem .fs-4 1.50rem 24px
5. font-size : 1.25rem .fs-5 1.25rem 20px
6. font-size : 1rem .fs-6 1rem 16px

v. Font Weight Classes
1. font-weight : 700; .fw-bold
2. font-weight : bolder; .fw-bolder
3. font-weight : 400; .fw-normal
4. font-weight : 300; .fw-light
5. font-style : italic; .fst-italic
6. font-style : normal; .fst-normal

vi. Line Height Classes
1. line-height : 1; .lh-1;
2. line-height : 1.25; .lh-sm;
3. line-height : 1.5; .lh-base;
4. line-height : 2; .lh-1g;

vii. Text Decoration Classes
1. text-decoration : underline; .text-decoration-underline
2. text-decoration : line-through; .text-decoration-line-through
3. text-decoration : none; .text-decoration-none

Bootstrap Typography Classes   Video 21
i) Text Headings Classes
1. h1 Bootstrap heading .display-1
2. h2 Bootstrap heading .display-2
3. h3 Bootstrap heading .display-3
4. h4 Bootstrap heading .display-4
5. h5 Bootstrap heading .display-5
6. h6 Bootstrap heading .display-6
7. Paragraph

```
<div class = "lead"> This is para </div>
```

ii) List Style Classes
1. List-1 List-1
2. List-2 List-2
3. List-3 List-3
4. List-4 List-4

Bullet remove .list-unstyled
1. List-1 2. List-2 3. List-3 4. List-4
```
<ul> .list-inline
<li> .list-inline-item  // Inline
<li> .list-inline-item  // Inline
```

iii) Block Quote Classes
" A well-known quote, contained
    in a block quote element."

```
<blockquote class = "blockquote">
" A well-known quote, contained in a block quote element"
<footer class= "blockquote-footer"> Ansari </footer>
</blockquote>
```

(iv) User Select Classes
1- .user-select-all
2- .user-select-auto
3- .user-select-none

Bootstrap Button Classes video 22
1. Button Classes
i.   Primary .btn-primary
ii.   Secondry .btn-secondary
iii. Success .btn-success
iv.   Danger .btn-danger
v.   Warning .btn-warning
vi.   Info .btn-info
vii. Light .btn-light
viii. Dark .btn-dark
ix.   Link .btn-link
class = "btn"
```
<button type="button"> Button </button>
```

2. Button Tags
```
<a class = "btn btn-primary" href="#" role="button">Button</a>
<button class = "btn btn-primary" type="submit">Button</button>
<input class = "btn btn-primary" type="button" value="input">
<input class = "btn btn-primary" type="submit" value="Submit">
<input class = "btn btn-primary" type="reset" value="Reset">
```

3. Outline Button Class
1- .btn-outline-primary
2- .btn-outline-secondary
3- .btn-outline-success
4- .btn-outline-danger

5- .btn-outline-warning
6- .btn-outline-info
7- .btn-outline-light
8- .btn-outline-dark
9- class="btn"

4. Button Size Classes
1. Button .btn-lg Class="btn"
2. Button   normal
3. Button .btn-sm
<div class ="d-grid gap-2">
 Button
 Button
</div>

5. Button Active & Disabled Classes
1. Button
2. Button .disabled
3. Button .active

Bootstrap Button Group Classes   Video 23
1. Button Group Classes
(i) Left (ii) Middle (iii) Right
<div class="btn-group">
<button class="btn btn-primary" type="submit">Left</button>
<button class="btn btn-primary" type="submit">Middle</button>
<button class="btn btn-primary" type="submit">Right</button>
</div>

2. Button Group Size Classes
(i) .btn-group-lg (ii) .btn-group (iii) .btn-group-sm
<div class="btn-group">
<button class="btn btn-primary btn-group-lg" type="submit">Left</button>
<button class="btn btn-primary btn-group" type="submit">Middle</button>
<button class="btn btn-primary btn-group-sm" type="submit">Right</button>
</div>

3. Button Group Toolbar Classes
horizontal Button -> ex. 1 2 3 4
class : btn-toolbar;
<div class="btn-toolbar">
<div class="btn-group">
<button class="btn btn-primary" type="submit">1</button>
</div>
<div class="btn-group">
<button class="btn btn-primary" type="submit">2</button>
</div>
</div>

4. Button Group Vertical Classes
ex. button
 button
 button
class : btn-group-vertical;
<div class="btn-group-vertical">

```
<button class="btn btn-primary" type="submit">1</button>
<button class="btn btn-primary" type="submit">2</button>
</div>
```

5. Button Group Nesting Classes
```
<div class="btn-group">
<button  type="button" class="btn btn-primary dropdown-toggle" data-bs-toggle="dropdown" aria-expande
d="false">Dropdown</button>
<ul class="dropdown-menu" aria-labelledbdy="btnGroupDrop1">
<li><a class="dropdown-item" href="#">Dropdown link </a></li>
<li><a class="dropdown-item" href="#">Dropdown link </a></li>
<ul>
</div>
```

Bootstrap List Group Classes   Video 24
1. List Group Classes
i) An item
ii) A second item
iii) A third item
iv) A fouth item
v) And a fifth one
class : list-group-item;

```
<ul class-"list-group"
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
</ul>
```

II. List Group Border Remove
class : list-group-flush;
```
<ul class-"list-group list-group-flush"
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
</ul>
```

III. List Active item Class
class : active;
```
<ul class-"list-group"
<li class="list-group-item active">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
</ul>
```

IV. List Disabled item Class

```
class : disabled;
<ul class-"list-group"
<li class="list-group-item disabled">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
</ul>
```

IV. List Link & Button Classes
(i)- .list-group-item-action;
```
<ul class-"list-group"
<a href ="#" class="list-group-item list-group-item-action active">List 1</a>
<a href ="#" class="list-group-item list-group-item-action">List 2</a>
</ul>
```

V. List Link & Button Classes
```
<ul class-"list-group"
<button type="button" class="list-group-item list-group-item-action active">List 1</button>
<button type="button" class="list-group-item list-group-item-action">List 2</button>
</ul>
```

VI. List Number Classes
class : .list-group-numbered;
```
<ol class-"list-group list-group-numbered">
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
<li class="list-group-item">List 1</li>
</ol>
```

Bootstrap Table Classes   Video 25
I. Table Classes
```
 <table class="table">
</table>
```

II. Table Variants Classes
i- .table-primary
ii- .table-secondary
iii- .table-success
iv- .table-danget
v- .table-warning
vi- .table-info
v- .table-light
vi- .table-dark

```
<table class="table-primary"> </table>
<tr class="table-success">A</tr>
<tr>
<td class="table-dark">B</td>
</tr>
```

III. Accented Table Classes
```
<table class="table table-striped">
</table>
```

IV. Hoverable Row Classes
```
<table class="table table-hover">
</table>
```

V. Active Table Classes
```
<table class="table">
<tr>
   <td class="table-active"> </td>
 </tr>
</table>
```

VI. Table Borders Classes
```
<table class="table table-bordered">
</table>
```

VII. Table Without Borders Classes
```
<table class="table table-borderless">

</table>
```

VIII. Small Table Classes
```
<table class="table table-sm">

</table>
```

IX. Nesting Table Classes
```
<table class="table table-striped">
</table>
```

X. Table Head Classes
(i) .table-light (ii) .table-dark
```
<table class="table table-light">
<thead class=" table-light">
</thead>
</table>
```

XI. Table Foot Classes
```
<table class="table">
<tfoot> </tfoot>
</table>
```

XII. Table Caption Classes
```
<table class="table">
<caption> List of users </caption>
<thead> </thead>
</table>
```

XIII. Table Captions Classes
```
<table class="table caption-top">
<caption> List of users </caption>
<thead> </thead>
</table>
```

XIV. Responsive Table Captions Classes
(i) .table-responsive
(ii) .table-responsive-sm
(iii) .table-responsive-md
(iv) .table-responsive-lg
(v) .table-responsive-xl
(vi) .table-responsive-xxl

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

Bootstrap Pagination & Breadcrumb Classes Video 26
I. Pagination Classes
exam. Previous 1 2 3 Next
```
<nav>
<ul class="pagination">
<li class="page-item"><a href="#" class="page-link">Previous</a></li>
<li class="page-item"><a href="#" class="page-link">1</a></li>
<li class="page-item"><a href="#" class="page-link">2</a></li>
<li class="page-item"><a href="#" class="page-link">Next</a></li>
</ul>
</nav>
```

II. Pagination Active & Disabled Classes
Previous 1 2 3 Next
```
<nav>
<ul class="pagination">
<li class="page-item disabled"><a href="#" class="page-link">Previous</a></li>
<li class="page-item"><a href="#" class="page-link">1</a></li>
<li class="page-item active"><a href="#" class="page-link">2</a></li>
<li class="page-item"><a href="#" class="page-link">Next</a></li>
</ul>
</nav>
```

III. Pagination Sizes Classes
Previous 1 2 3 Next
(i)- .pagination-lg
(ii)- .pagination-sm
(iii)- .justify-content-center
(iv)- .justify-content-end

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

```
<nav>
<ul class="pagination pagination-sm">
<li class="page-item active"><a href="#" class="page-link">1</a></li>
```

```html
<li class="page-item"><a href="#" class="page-link">2</a></li>
<li class="page-item"><a href="#" class="page-link">3</a></li>
</ul>
</nav>

<nav>
<ul class="pagination justify-content-center">
<li class="page-item active"><a href="#" class="page-link">1</a></li>
<li class="page-item"><a href="#" class="page-link">2</a></li>
<li class="page-item"><a href="#" class="page-link">3</a></li>
</ul>
</nav>

<nav>
<ul class="pagination justify-content-end">
<li class="page-item active"><a href="#" class="page-link">1</a></li>
<li class="page-item"><a href="#" class="page-link">2</a></li>
<li class="page-item"><a href="#" class="page-link">3</a></li>
</ul>
</nav>
```

2. Breadcrumbs Classes
```html
<nav>
<ol class="breadcrumb">
<li class="breadcrumb-item"><a href="#" class="#">Home</a></li>
<li class="breadcrumb-item"><a href="#" class="#">About</a></li>
<li class="breadcrumb-item active"><a href="#" class="#">Contact us</a></li>
</ol>
</nav>
```

Bootstrap Form Classes video 27
1. From Classes
(i). Email Address
```html
<form>
<div class="mb-3">
<label for="email" class="form-level"> Email Address</label>
<input type="email" class="form-control" placeholder=" " value=" ">
</div>
</form>
```

2. Form Input Size Classes
(i)- .form-control-lg
(ii)- .form-control
(iii)- .form-control-sm

3. Form Disabled Classes
(i)- .disabled
(ii)- .readonly

(i). Form Readonly Classes
```html
<input type="text class="form-control-paintext"readonly/>
```

4. Form File Input Classes

5. Form Color Classes

```
<label for="exampleColorinput" class="form-input">Color picker</label>
<input type="color" calss="form-control form-control-color"
 id="exampleColorinput" value="#563d7c" title="Choose your color">
```

6. Form DataList Classes
```
<input class="form-control" list="datalistoptions" id="exampleDataList"/>
<datalist id="datalistoptions">
<option value="New Delhi">
<option value="Mumbai">
</datalist>
```

7. Form Select Classes
```
<select class="select-form">
<option selected> Open this select menu </option>
<option value="1"> </option>
<option value="2"> </option>
</select>
```

Bootstrap Checks, Radios & Range Classes Video 28
1. Form Checks Classes
(i). Default Checkbox
(ii). Checked checkbox

```
<form
<div class="form-check">

<input type="checkbox" class="form-check-input" id="flexCheckDefault"
placeholder=" " value=" " checked>

<label for="flexCheckDefault" class="form-check-label"> Checked checkbox </box>
</div>
</form>
```

2. Indeterminate Classes
(i). Indeterminate checkbox
```
<form
<div class="form-check">
<input type="checkbox" class="form-check-input" id="flexCheckdeterminate"
placeholder=" " value=" " checked>
<label for="flexCheckdeterminate" class="form-check-label">Indeterminate checkbox </box>
</div>
</form>
```

3. Checks Disabled Classes
(i). Disabled checkbox
(ii). Disabled checked checkbox
```
<form
<div class="form-check">
<input type="checkbox" class="form-check-input" id="flexCheckDefault"
placeholder=" " value=" " disabled>

<label for="flexCheckDefault" class="form-check-label">Disabled checked checkbox </box>
</div>
</form>
```

4. Form Radios Classes
(i). Default radio
(ii). Default checked radio
```
<form
<div class="form-check">
<input type="radio" class="form-check-input" id="flexCheckDefault1"
placeholder=" " value=" " checked>

<label for="flexCheckDefault1" class="form-check-label">Default checked radio </box>
</div>
</form>
```

5. Form Radios Disabled Classes
(i). Default radio
(ii). Default checked radio
```
<form
<div class="form-check">
<input type="radio" class="form-check-input" id="flexCheckDefault"
placeholder=" " value=" " disabled>

<label for="flexCheckDefault" class="form-check-label">Disabled checked radio </box>
</div>
</form>
```

6. Form Switches Classes
(i). Default switch checkbox input
(ii). Checked switch checkbox input
(iii). Disabled switch checkbox input
(iv). Disabled checked switch checkbox input

```
<form
<div class="form-switch">
<input type="checkbox" class="form-check-input" id="flexSwitchCheckDefault"
placeholder=" " value=" " disabled>

<label for="flexSwitchCheckDefault" class="form-check-label">Default Switch </box>
</div>
</form>
```

7. Form Range Classes
```
<label for="customRange1" class="form-label">Example range </label>
<input type="range" class="form-range" id="customRange1">
```

8. Form Disabled Range Classes
```
<label for="customRange1" class="form-label">Example range </label>
<input type="range" class="form-range" id="customRange1" disabled>
```

9. Form Min & Max Range Classes
```
<label for="customRange1" class="form-label">Example range </label>
<input type="range" class="form-range" id="customRange1" min="0" max="5">
```

10. Form Steps Range Classes
```
<label for="customRange1" class="form-label">Example range </label>
<input type="range" class="form-range" id="customRange1" min="0" max="5" step="0.5">
```

Bootstrap Input Group & Floating Labels Classes video 29
1. Input Group Classes
```
<form
<div class="form-group mb-3">
<span id="basic-addon1 class="input-group-text"> @ </span>
<input type="text" class="form-control" placeholder="Username" value=" ">
</div>
</form>
```

2. Input Size Classes
(i)- .input-group-sm (small)
(ii)- .input-group-lg (Large)

3. Checkboxes and Radios
```
<form
<div class="form-group mb-3">
<span class="input-group-text">
<input type="text" class="form-check-input mt-0" value=" ">
 </span>
<input type="text" class="form-control" placeholder="Username" value=" ">
</div>
</form>
```

4. Multiple Input Classes
```
<form
<div class="form-group">
<span class="input-group-text"> First and last name </span>
<input type="text" class="form-control" placeholder="First name" value=" ">
<input type="text" class="form-control" placeholder="Last name" value=" ">
</div>
</form>
```

5. Multiple Addons Classes
```
<form
<div class="form-group mb-3">

<span class="input-group-text">$</span>
<span class="input-group-text">0.00</span>
<input type="text" class="form-control" value=" ">
</div>
</form>
```

6. Button Addons Classes
```
<form
<div class="form-group mb-3">
<button class="btn btn-outline-secondary" type="button" id="button-addon1">$</button>
<input type="text" class="form-control" value=" ">
</div>
</form>
```

7. Button Addons Classes
```
<form
<div class="form-group mb-3">
<button class="btn btn-outline-secondary dropdown-toggle" type="button" id="button-addon1" data-bs-toggle="dropdown">$</button>
```

```
<ul>
<li><a href="#" class="dropdown-item">Action</a></li>
</ul>
<input type="text" class="form-control" value=" ">
</div>
</form>
```

8. Floating Lables Classes
```
<form
<div class="form-floating mb-3">
<input type="email" class="form-control" id="floatinginpt">
<lable for="floatinginput">Email address</label>
</div>
<div class="form-floating">
<input type="password" class="form-control" id="floatinginpt">
<lable for="floatinginput">Password</label>
</div>
</form>
```

Bootstrap Inline & Horizontal Form Video 30
1. Form Grid Classes
```
<div class="row">
<div class="col">
<input type="text" class="form-control" placeholder="First Name" value=" ">
</div>
<div class="col">
<input type="text" class="form-control" placeholder="Last Name" value=" ">
</div>
</div>
```

2. Form Gutters Classes
```
<div class="row g-3">
<div class="col">
<input type="text" class="form-control" placeholder="First Name" value=" ">
</div>
<div class="col">
<input type="text" class="form-control" placeholder="Last Name" value=" ">
</div>
</div>
```

3. Horizontal Form Classes
```
<form>
<div class="row mb-3">
<label for="inputEmail3" class="col-sm-2 col-form-label">Email </label>
<div class="col-sm-10">
<input type="email" class="form-control" id=inputEmail3>
</div>
</div>
</form>
```

4. Horizontal Form Label Classes
(i)- .col-form-label-sm
(ii)- .col-form-label-lg

5.Column Sizing Classes

```
<form>
<div class="row g-3>
<div class="col-sm-7"
<input type="text" class="from-control" placeholder="city">
</div>
<div class="col-sm"
<input type="text" class="from-control" placeholder="city">
</div>
<div class="col-sm"
<input type="text" class="from-control" placeholder="city">
</div>
</div>
</form>
```

6. Auto Sizing Classes
```
<div class="row gx-3 align-items-center>
<div class="col-auto"
<input type="text" class="from-control" placeholder="Jane Doe">
</div>

<div class="col-auto"
<input type="text" class="from-control" placeholder="Username">
</div>
</div>
</form>
```

7. Inline Forms Classes
```
<div class="row-cols-lg-auto g-3 align-items-center>
<div class="col-12"
<input type="text" class="from-control" placeholder="Jane Doe">
</div>

<div class="col-auto"
<input type="text" class="from-control" placeholder="Username">
</div>
</div>
</form>
```

Bootstrap Form Validation Classes video 31
1. Form Vaildation Classes
xampp server this php file practicle

Bootstrap Navs & Tabs Classes   video 32
1. Bootstrap : Base Nav Classes
```
<ul class="nav">
<li class="nav-item">
<a href="#" class="nav-link active">Active</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">Link</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link disabled">Disabled</a>
</li>
</ul>
```

2. Bootstrap : Base Nav Classes
```
<nav class="nav">
<a href="#" class="nav-link active" >Active</a>
<a href="#" class="nav-link" >Link</a>
<a href="#" class="nav-link"> Link</a>
<a href="#" class="nav-link disabled">Disabled</a>
</nav>
```

3. Bootstrap : Horizontal Alignment Nav
```
<nav class="nav justify-content-center">
<a href="#" class="nav-link active" >Active</a>
<a href="#" class="nav-link">Link</a>
<a href="#" class="nav-link"> Link</a>
<a href="#" class="nav-link disabled">Disabled</a>
</nav>
```

4. Bootstrap : Horizontal Alignment Nav
```
<nav class="nav justify-content-end">
<a href="#" class="nav-link active" >Active</a>
<a href="#" class="nav-link">Link</a>
<a href="#" class="nav-link"> Link</a>
<a href="#" class="nav-link disabled">Disabled</a>
</nav>
```

5. Bootstrap : Vertical Alignment Nav
```
<nav class="nav flex-column">
<a href="#" class="nav-link active" >Active</a>
<a href="#" class="nav-link">Link</a>
<a href="#" class="nav-link"> Link</a>
<a href="#" class="nav-link disabled">Disabled</a>
</nav>
```

6. Bootstrap : Tab Classes
```
<ul class="nav nav-tabs">
<li class="nav-item">
<a href="#" class="nav-link active">Active</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">Link</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">Link</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link disabled">Disabled</a>
</li>
</ul>
```

7. Bootstrap : Pills Classes
```
<ul class="nav nav-pills">
<li class="nav-item">
<a href="#" class="nav-link active">Active</a>
</li>
<li class="nav-item">
```

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

8. Bootstrap : Fill & Justify Classes
```
<ul class="nav nav-pills nav-fill">
<li class="nav-item">
<a href="#" class="nav-link active">Active</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">Mush longer nav link</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">Link</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link disabled">Disabled</a>
</li>
</ul>
```

9. Bootstrap : Tabs & Dropdown Classes

Bootstrap Navbar Classes   Video 33
1. Bootstrap : Navbar Classes
(i) bootstrap.bundle.min.js
(ii) popper.min.js
(iii) bootstrap.min.js

Navbar Fixed
(i)- .fixed-top
(ii)- .fixed-bottom
(iii)- .sticky-top
(iv)- .sticky-bottom

```
<nav class="navbar navbar-expand-lg navbar-dark bg-light" data-bs-theme="dark">
<div class="container-fluid">
<a class="navbar-brand">Navbar</a>
<button class="navbar-toggle-brand" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarContent"></button>
<div class="collapse navbar-collapse" id="navbarContent">
<ul class="navbar-nav"></a>
</div>
</div>
</nav>
```

Bootstrap Image & Iframe Classes   Video 34
1. Bootstrap : Responsive Images
(i)- .img-fluid
```
<img src="..."class="img-fluid" alt="">
```

2. Bootstrap : Images Thumbnails
(i)- .img-thumbnail
<img src="..."class="img-thumbnail" alt="">

2. Bootstrap : Aligning Images Classes
(i)- .float-start
(ii)- .float-end
(iii)- .mx-auto
(iv)- .text-center
<img src="..."class="float-start" alt="">
<img src="..."class="float-end" alt="">
<img src="..."class="mx-auto d-block" alt=" ">

<div class="text-center">
<img src="..." class=" " alt="...">
</div>

3. Bootstrap : Ratio Iframe Classes
(i)- .ratio-1x1
(ii)- .ratio-4x3
(iii)- .ratio-16x9
(i)- .ratio-21x9
<div class="ratio ratio-16x9">
<iframe src=" " title="Your Title" allowfullscreen></iframe>
</div>

4. Bootstrap : Custom Ratio Classes
<div class="ratio" style="--bs-aspect-ratio:50%;">
<iframe src=" " title="Your Title" allowfullscreen></iframe>
</div>

Bootstrap Border & Shadow Classes Video 35
1. Bootstrap : Additive Border Classes
(i)- .border
(ii)- .border-top
(iii)- .border-end
(iv)- .border-bottom
(v)- .border-start
(vi)- .border-end

2. Bootstrap : Subtractive Border Classes
(i)- .border-0
(ii)- .border-top-0
(iii)- .border-end-0
(iv)- .border-bottom-0
(v)- .border-start-0
(vi)- .border-end-0

3. Bootstrap : Border Color Classes

(i)- .border-primary
(ii)- .border-secondary

(iii)- .border-success
(iv)- .border-danger
(v)- .border-warning
(vi)- .border-info
(vii)- .border-light
(viii)- .border-dark
(ix)- .border-white

4. Bootstrap : Border Width Classes
(i)- .border-1
(ii)- .border-2
(iii)- .border-3
(iv)- .border-4
(v)- .border-5
```html
<span class="border border-1"></span>
```

5. Bootstrap : Border Radius Classes
(i)- .rounded
(ii)- .rounded-top
(iii)- .rounded-end
(iv)- .rounded-bottom
(v)- .rounded-start
(vi)- .rounded-circle
(vii)- .rounded-pill
```html
<img src="" class="rounded" alt="">
```

6. Bootstrap : Border Radius Size Classes
(i)- .rounded-0
(ii)- .rounded-1
(iii)- .rounded-2
(iv)- .rounded-3
```html
<img src="" class="rounded-0" alt="">
```

7. Bootstrap : Shadow Classes
(i)- .shadow
(ii)- .shadow-none
(iii)- .shadow-sm
(iv)- .shadow-lg

```html
<div class="shadow-none p-3 mb-5 bg-light rounded">No Shadow</div>
```

Bootstrap Card Classes video 36
1. Bootstrap : Card Images Classes
(i)- .card
(ii)- .card-img-top
(iii)- .card-img-bottom
(iv)- .card-body
(v)- .card-title
(vi)- .card-text
(vii)- .btn .btn-primary

2. Bootstrap : Card Without Image Classes
(i)- .card
(ii)- .card-body
(iii)- .card-title

(vi)- .card-subtitle
(v)- .card-link

3. Bootstrap : Image Classes
(i)- .card
(ii)- .card-img-top
(iii)- .card-img-bottom
(iv)- .card-body
(v)- .card-text

4. Bootstrap : Card Header List Classes
(i)- .card
(ii)- .card-header
(iii)- .list-group
(iv)- .list-group-item
(v)- .list-group-flush

5. Bootstrap : Card Footer List Classes
(i)- .card
(ii)- .list-group
(iii)- .list-group-flush
(iv)- .list-group-item
(v)- .card-footer
(vi)- .card

Bootstrap Card Group Classes video 37
1. Bootstrap Card Group Classes
(i)- .card-group

2. Bootstrap Card-Footer Group Classes
(i)- .card-footer

3. Bootstrap Card Column
(i)- .row-cols-auto
(ii)- .row-cols-1
(iii)- .row-cols-sm-2
(iv)- .row-cols-md-3
        1 to 6

3. Bootstrap Card Height Classes
(i). h-100

Bootstrap Media Object Classes video 38
1. Bootstrap Media Object Classes
<div class="d-flex">
<div class="flex-shrink-0">
<img src="..." alt="...">
</div>

```
<div class="flex-grow-1 ms-3">

</div>
</div>
```

Bootstrap Badges Classes video 39
1. Bootstrap : Heading Badges Classes

```
<h1 Example heading <span class="badge bg-secondary"> New </span></h1>
```

2. Bootstrap : Button Badges Classes

```
<button type="button" class="btn btn-primary">
Notification <span class="badge bg-secondary"> 4 </span>
</button>
```

3. Bootstrap : Positioned Badges Classes

```
<button type="button" class="btn btn-primary position-relative">
Notifications
<span class="badge bg-danger position-absolute top-0 start-100 translate-middle rounded-pill"> 99 + </span>
</button>
```

4. Bootstrap : Background Badges Classes
(i)- .bg-primary
(ii)- .bg-success
(iii)- .bg-danger
(iv)- .bg-warning
(v)- .bg-info
(vi)- .bg-light
(vii)- .bg-dark

```
<span class="badge bg-primary"> Primary </span>
```

5. Bootstrap : Pill Badges Classes
(i)- .bg-primary
(ii)- .bg-success
(iii)- .bg-danger
(iv)- .bg-warning
(v)- .bg-info
(vi)- .bg-light
(vii)- .bg-dark

```
<span class="badge rounded-pill bg-primary"> Primary </span>
```

Bootstrap Progress Bar Classes video 40
1. Bootstrap : Progress Classes

```
<div class="progress">
</div class="progress-bar" style="width:25%"></div>
</div>
```

2. Bootstrap : Labels Progress Classes

```
<div class="progress">
</div class="progress-bar" style="width:25%">25%</div>
</div>
```

3. Bootstrap : Height Progress Classes

```
<div class="progress" style="height:20%;">
</div class="progress-bar" style="width:25%">25%</div>
```

</div>

4. Bootstrap : Background Progress
<div class="progress">
</div class="progress-bar bg-success" style="width:25%"></div>
</div>

5. Bootstrap : Multiple Bars Progress
<div class="progress">
<div class="progress-bar" style="width:15%"> </div>
</div class="progress-bar bg-success" style="width:30%"></div>
</div class="progress-bar bg-info" style="width:20%"></div>
</div>

6. Bootstrap : Striped Progress Classes
<div class="progress">
<div class="progress-bar progess-bar-striped" style="width:10%"> </div>
</div>

7. Bootstrap : Animated Stripes Progress
<div class="progress">
<div class="progress-bar progess-bar-striped progress-bar-animated" style="width:10%"> </div>
</div>

Bootstrap Spinners Classes video 41
1. Bootstrap : Spinner Classes
<div class="spinner-border">

</div>

2. Bootstrap : Spinner Color Classes
(i)- .text-primary
(ii)- .text-success
(iii)- .text-danger
(iv)- .text-warning
(v)- .text-info
(vi)- .text-light
(vii)- .text-dark
<div class="spinner-border text-primary">
 Loading...
</div>

3. Bootstrap : Growing Spinner Classes
<div class="spinner-grow">
 Loading...
</div>

4. Bootstrap : Growing Spinner Color
(i)- .text-primary
(ii)- .text-success
(iii)- .text-danger
(iv)- .text-warning
(v)- .text-info
(vi)- .text-light

(vii)- .text-dark
```
<div class="spinner-grow text-primary">
<span class="visually-hidden"> Loading... </span>
</div>
```

5. Bootstrap : Alignment Spinner Class
```
<div class="spinner-border m-5">
<span class="visually-hidden"> Loading... </span>
</div>
```

6. Bootstrap : Placement Spinner Class
(i)- . justify-content-center
(ii)- . justify-content-end

```
<div class="d-flex justify-content">
<div class="spinner-border">
<span class="visually-hidden"> Loading... </span>
</div>
</div>
```

7. Bootstrap : Spinner Size Classes
(i). Inline CSS : style="width:3rem; height:3rem;"
```
<div class="spinner-grow snipper-border-sm">
<span class="visually-hidden"> Loading... </span>
</div>
```

8. Bootstrap : Button Spinner Classes
```
<button class="btn btn-primary">
<span class="spinner-border snipper-border-sm"> </span>
<span class="visually-hidden"> Loading... </span>
</button>
```

Bootstrap Placeholder Classes video 42
1. Bootstrap : Placeholders Classes
```
<div class="card">
<span class="placeholder"> </span>
</div>
```

2. Bootstrap : Placeholders Width Classes
```
<span class="placeholder col-6"> </span>
<span class="placeholder w-75"> </span>
<span class="placeholder" style="width:25%;"> </span>
```

3. Bootstrap : Placeholders Color Classes
```
<span class="placeholder col-12 bg-primary"> </span>
<span class="placeholder col-12 bg-primary"> </span>
<span class="placeholder col-12 bg-primary"> </span>
```

4. Bootstrap : Placeholders Sizing Classes
```
<span class="placeholder col-12 placeholder-lg"> </span>
<span class="placeholder col-12"> </span>
<span class="placeholder col-12  placeholder-lg"> </span>
<span class="placeholder col-12  placeholder-lg"> </span>
```

5. Bootstrap : Placeholders Animation Classes

```
<p class="placeholder-glow">
<span class="placeholder col-12">
</p>
```

Bootstrap Tooltips Classes video 43
1. Bootstrap : Tooltips Classes
```
<button type="button" class="btn btn-secondary" data-bs-target="tooltip" data-bs-placement="top" title="Tooltip on top">
Tooltip on top
</button>
```

Bootstrap Popovers Classes video 44
1. Bootstrap : Popovers Classes
```
<button type="button"
class="btn btn-danger btn-lg"
data-bs-toggle="popover"
data-bs-placement="top"
data-bs-content="and here's"
title="Popovers title">
Click to toggle popover
</button>
```

2. Bootstrap : Popovers Four Directions
```
<button type="button"
class="btn btn-primary"
data-bs-container="body"
data-bs-toggle="popover"
data-bs-placement="top"
data-bs-content="Right popover">
Popover on top
</button>
```

3. Bootstrap : Dismissible Popovers
```
<a tabindex="0"
class="btn btn-primary btn-lg"
data-bs-toggle="popover"
data-bs-placement="top"
data-bs-content="Right popover">
Dismissible popover
</a>
```

Bootstrap Alerts Classes video 45
1. Bootstrap : Alerts Classes
(i)- .alert-primary
(ii)- .alert-success
(iii)- .alert-danger
(iv)- .alert-warning
(v)- .alert-info
(vi)- .alert-light
(vii)- .alert-dark
(viii)- .alert-secondary
```
<div class="alert alert-primary" role="alert"?
A simple primary alert--check it out!
</div>
```

2. Bootstrap : Alert Box Classes
<div id="liveAlertPlaceholder"> </div>
<button type="button" class="btn btn-primary" id="liveAlertBtn">
A simple primary alert--check it out
</button>

3. Bootstrap : Alert Link Color Classes
<div class="alert alert-primary" role="alert">
A simple primary alert with an example link
Give it a click if you like.
</div>

4. Bootstrap : Alert Additional Classes
<div class="alert alert-success" role="alert">
<h4 class="alert-heading"> Well done! </h4>
<p> A simple primary alert with Example </p>
<hr>
<p> Whenever you need to. be sure to sure to use margin </p>
</div>

5. Bootstrap : Alert Icon Box Classes
<div class="alert alert-success d-flex align-items-center" role="alert">
<svg> <path/> </svg>
<div> An example alert with an icon </div>
</div>

6. Bootstrap : Dismissing Alert Classes
<div class="alert alert-warning alert-dismissible fade show" role="alert">
 Holy guacamole! you should check in on some.
<button type="button" class="btn-close" data-bs-dismiss="alert"> </div>
</div>

Bootstrap Modal Classes video 46
1. Bootstrap : Modal Classes
(i)- .modal
(ii)- .modal-dialog
(iii)- .modal-content
(iv)- .modal-header
(v)- .modal-title
(vi)- .modal-body
(vii)- .btn-close
(viii)- .modal-footer

2. Bootstrap : Static Backdrop Classes
ex. When backdrop is set to static, the modal will not close when clicking outside it.

3. Bootstrap : Scrolling long Content Modal
<div class="modal-dialog modal-dialog-scrollable">
</div>

4. Bootstrap : Vertically Centered Modal
<div class="modal-dialog modal-dialog-centeted">
</div>

5. Bootstrap :Using The Grid Modal
<div class="modal-body">
</div>

Bootstrap Accordion Classes video 47
1. Bootstrap : Accordion Classes
(i)- .accordion
(ii)- .accordion-item
(iii)- .accordion-header
(iv)- .accordion-button
(v)- .accordion-collapse
(vi)- .collapse
(vii)- .accordion-body

2. Bootstrap : Accordion Flush Classes
(i)- .accordion
(ii)- .accordion-item
(iii)- .accordion-header
(iv)- .accordion-button
(v)- .accordion-collapse
(vi)- .collapse
(vii)- .accordion-body
(viii)- .accordion-flush

3. Bootstrap : Accordion Always Open
(i)- .accordion
(ii)- .accordion-item
(iii)- .accordion-header
(iv)- .accordion-button
(v)- .accordion-collapse
(vi)- .collapse
(vii)- .accordion-body
(viii)- .show

Bootstrap Collapse Classes video 48
1. Bootstrap : Collapse Classes
<p>
<a href="#collapseExample" role="button" data-bs-toggle="collapse" aria-expanded="false" aria-controls=
"collapseExample">
Link with href

</p>
<div class="collapse" id="collapseExample">
<div class="card card-body">
</div>
</div>

2. Bootstrap : Horizontal Collapse Classes
(i)- .collapse-horizontal
(ii)- .inline-style : min-height:120px; (parent div)

3. Bootstrap : Multiple Targets Collapse Classes
(i)- .multi-collapse

Bootstrap Carousel Classes video 49
1. Bootstrap : Carousel Classes
(i)- #carouselExampleSlidesOnly
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active

2. Bootstrap : Carousel With Controls
(i)- #carouselExampleControls
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon

3. Bootstrap : Carousel With Indicators
(i)- #carouselExampleindicators
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon
(xi)- .carousel-indicators

3. Bootstrap : Carousel With Captions
(i)- #carouselExampleCaptions
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon
(xi)- .carousel-indicators
(xii)- .carousel-caption

4. Bootstrap : Carousel With Crossfade
(i)- #carouselExampleFade
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item

(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon
(xi)- .carousel-indicators
(xii)- .carousel-caption
(xiii)- .carousel-fade

5. Bootstrap : Carousel With Interval
(i)- #carouselExampleInterval
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon
(xi)- .carousel-indicators
(xii)- .data-bs-interval="10000"

6. Bootstrap : Disable Touch Swiping
(i)- #carouselExampleControlsNoTouching
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon
(xi)- .carousel-indicators
(xii)- .data-bs-interval="false"
(xii)- .data-bs-touch="false"

7. Bootstrap : Carousel Dark Varient
(i)- #carouselExampleDark
(ii)- .carousel
(iii)- .slide
(iv)- .carousel-inner
(v)- .carousel-item
(vi)- .active
(vii)- .carousel-control-prev
(viii)- .carousel-control-prev-icon
(ix)- .carousel-control-next
(x)- .carousel-control-next-icon
(xi)- .carousel-indicators
(xii)- .data-bs-interval="false"
(xii)- .data-bs-touch="false"

Bootstrap Scroll SPY Classes video 50

1. Bootstrap : Scroll SPY Claases
(i)- #navbar-example
(ii)- .data-bs-spy="scroll"
(iii)- .data-bs-target="#navbar-example"
(vi)- .data-bs-offset="0"
(v)- .scrollspy-example
(vi)- .tabindex="0"

2. Bootstrap : Scroll With Nested Nav
(i)- #navbar-example
(ii)- .data-bs-spy="scroll"
(iii)- .data-bs-target="#navbar-example"
(vi)- .data-bs-offset="0"
(v)- .scrollspy-example
(vi)- .tabindex="0"

3. Bootstrap : Scroll With List Group
(i)- #navbar-example
(ii)- .data-bs-spy="scroll"
(iii)- .data-bs-target="#navbar-example"
(vi)- .data-bs-offset="0"
(v)- .scrollspy-example
(vi)- .tabindex="0"

Bootstrap 5.3 : New Features video 51
1. What's New?
(i). Dark mode support
(ii). Custom color modes support for themes beyond light and dark
(iii). Extended color palette for theme color that adapt to color modes
(iv). New link helper, link utilities, and focus,right helper
(v). New nav underline variant
(vi). Several new utilities, bug fixes, and much more!