

## **Bootstrap Utilities**

- Bootstrap provides pre-defined classes for handling
  - Text
  - Border
  - Margin
  - Spacing
  - Padding etc.

## **Borders in Bootstrap**

- The border classes are
  - .border
  - .border-top
  - .border-right
  - .border-bottom
  - .border-left
  - .border-0 [remove border]
  - .border-primary, secondary, danger, warning etc.
  - .rounded [radius]
  - .rounded-top
  - .rounded-bottom
  - .rounded-left

- .rounded-right
- .rounded-circle
- .rounded-pill
- .rounded-lg, sm

Ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet"
href="../node_modules/bootstrap/dist/css/bootst
rap.css">
```

```
    <script
src="../node_modules/jquery/dist/jquery.js"></sc
ript>
```

```
    <script
src="../node_modules/bootstrap/dist/js/bootstra
p.bundle.js"></script>
```

```
  <style>
```

```
    img {
      width: 200px;
      height: 200px;
```

```
        border-width: 5px;
    }

</style>
</head>
<body class="container-fluid">
    <h2>Borders</h2>
    
</body>
</html>
```

## **Bootstrap Display**

- It provides classes to control the display style of any element.
- Display styles are defined by using “d-effectName”
- The effects can be various
  - .d-inline
  - .d-block

- .d-none
- .d-flex
- .d-table
- .d-sm-inline, block
- .d-md-{}  
○ .d-lg-{}  
○ .d-xl-{}

Ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet"
href="../node_modules/bootstrap/dist/css/bootst
rap.css">
```

```
    <script
src="../node_modules/jquery/dist/jquery.js"></sc
ript>
```

```
    <script
src="../node_modules/bootstrap/dist/js/bootstra
p.bundle.js"></script>
```

```
</head>
<body class="container-fluid">
  <h2>Inline Display</h2>
  <div class="d-inline">
    Para-1
  </div>
  <div class="d-inline">
    Para-2
  </div>
  <h2>Flex Display</h2>
  <ul class="d-flex">
    <li>Item-1</li>
    <li class="ml-5">Item-2</li>
    <li class="ml-5">Item-3</li>
  </ul>
</body>
</html>
```

## **Bootstrap Float**

- It allows the element to float left or right.

- The classes are
  - .float-left
  - .float-right
  - .float-none

Ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet"
href="../node_modules/bootstrap/dist/css/bootst
rap.css">
```

```
    <script
src="../node_modules/jquery/dist/jquery.js"></sc
ript>
```

```
    <script
src="../node_modules/bootstrap/dist/js/bootstra
p.bundle.js"></script>
```

```
  <style>
```

```
    img {
      width: 100px;
      height: 100px;
```

```
    }  
  </style>  
</head>  
<body class="container-fluid">  
  <div class="float-left">  
      
  </div>  
  <div class="float-right">  
      
  </div>  
</body>  
</html>
```

## Bootstrap Overflow

- It controls the over flow of contents in a container
- The classes
  - .overflow-auto
  - .overflow-hidden

Ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet"
href="../node_modules/bootstrap/dist/css/bootst
rap.css">
```

```
    <script
src="../node_modules/jquery/dist/jquery.js"></sc
ript>
```

```
    <script
src="../node_modules/bootstrap/dist/js/bootstra
p.bundle.js"></script>
```

```
    <style>
```

```
      ul {
        width: 100px;
        height: 100px;
        border:2px solid;
      }
```

```
    </style>
```

```
  </head>
```



```
<body class="container-fluid">
  <ul class="overflow-auto">
    <li>Item-1</li>
    <li>Item-2</li>
    <li>Item-3</li>
    <li>Item-4</li>
    <li>Item-5</li>
    <li>Item-6</li>
    <li>Item-7</li>
  </ul>
</body>
</html>
```

## **Bootstrap Positions**

- It is related to positioning of items with regard to other elements in page.
- The classes are
  - .position-static
  - .position-relative
  - .position-absolute

- .position-fixed
- .position-stickey
- .fixed-top
- .fixed-bottom
- .sticky-top

Ex:

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet"
href="../node_modules/bootstrap/dist/css/bootst
rap.css">
```

```
    <script
src="../node_modules/jquery/dist/jquery.js"></sc
ript>
```

```
    <script
src="../node_modules/bootstrap/dist/js/bootstra
p.bundle.js"></script>
```

```
    <style>
```

```
      ul {
```

```
        width: 100px;
```

```
        height: 100px;
        border:2px solid;
    }
</style>
</head>
<body class="container-fluid">
    <p>Para-1</p>
    <p>Para-2</p>
    <p>Para-3</p>
    <h2 style="background-color: yellow;"
class="position-sticky sticky-top">Navigation
Bar</h2>
    <ul class="overflow-auto">
        <li>Item-1</li>
        <li>Item-2</li>
        <li>Item-3</li>
        <li>Item-4</li>
        <li>Item-5</li>
        <li>Item-6</li>
```

```
        <li>Item-7</li>
    </ul>
    <p>Para-1</p>
    <p>Para-2</p>
    <p>Para-3</p>
    <p>Para-1</p>
    <p>Para-2</p>
    <p>Para-3</p>
    <p>Para-1</p>
    <p>Para-2</p>
    <p>Para-3</p>
</body>
</html>
```

## Bootstrap Sizing

- Bootstrap classes for configuring height and width.

Class	Description
.w-25	Width 25%
.w-50	Width 50%
.w-75	Width 75%

.w-100	Width 100%
.h-25	Height
.h-50	
.h-75	
.h-100	
.mw-100	Max width 100
.mh-100	Max height 100
.vw-100	View port -width
.vh-100	View Port height

Ex:

```

```

## Margin and Padding

- Classes required for margin and padding

<b>m</b>	<b>Margin</b>
<b>p</b>	<b>Padding</b>
t	Top
b	Bottom
l	Left
r	Right
<b>Size</b>	
<b>0</b>	No padding, no

	margin
<b>1</b>	.25
<b>2</b>	.5
<b>3</b>	1
<b>4</b>	1.5
<b>5</b>	2
<b>auto</b>	auto

Syntax:

ml-2          Margin left .5

mx-3          Margin left and right

pl-2          Padding left .5

mx-auto      Margin auto

Ex:

```
<div class="border border-danger py-4 px-4 mt-4">
```

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</div>

## Text Formatting

<b>Alignments</b>	
.text-center	<b>Center</b>
.text-justify	<b>Justify</b>
.text-left	<b>Left</b>
.text-right	<b>Right</b>
<b>Wrapping</b>	
.text-wrap	Wrap text to next line.
.text-truncate	Overflow:ellipse  Ex:

	<pre>&lt;div class=" text-truncate border border-danger" style="max-width: 100px;"&gt;     Welcome to Bootstrap &lt;/div&gt;</pre>
<b>Transforms</b>	
.text-lowercase	
.text-uppercase	
.text-capitalize	Title case
<b>Font</b>	
.font-weight-bold	Bold
.font-weight-light	Normal
.font-italic	Italic
<b>Text Decoration</b>	
.text-decoration-none	Remove effects like underline, strike etc.
<b>Text Color</b>	
.text-contextual	Primary, danger, warning
.text-white	White color



