Bootstrap Image Related Classes:

img-thumbnail: is used to display an image with <u>rounded border</u>.

rounded: is used to display an image with <u>rounded corners.</u>

rounded-circle: is used to display an image in <u>circular / oval shape.</u>

Floating images in Bootstrap:

<p class="border clearfix">

ABC Tech Tutorials offers best Animation, VFX, Multimedia, Gaming, Computer Science and Information
Technology Tutorials. ABC Tech Tutorials offers best Animation, VFX, Multimedia, Gaming, Computer Science
and Information Technology Tutorials.
</p>

Complete Code:

```
<!doctype html>
<html lang="en">
    <head>
            <meta charset="utf-8">
            <title>Bootstrap demo</title>
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
            <link href="bootstrap/css/bootstrap.min.css" type="text/css" rel="stylesheet">
    </head>
    <body>

            <img src="images/koala.jpg" width="20%"/>
            <img src="images/koala.jpg" width="20%" class="img-thumbnail"/>
            <img src="images/koala.jpg" width="20%" class="img-thumbnail"/> <br/>

            <img src="images/koala.jpg" width="20%"/>
            <img src="images/koala.jpg" width="20%" class="rounded"/>
            <img src="images/koala.jpg" width="20%" class="rounded"/> <br/>

            <img src="images/koala.jpg" width="20%"/>
            <img src="images/koala.jpg" width="20%" class="rounded-circle"/>
            <img src="images/koala.jpg" width="100" height="100" class="rounded-circle"/> <br/>

            <p class="border border-primary clearfix">
            <img src="images/koala.jpg" width="20%" class="float-start"/>
```

Giri's TechHub Pvt.Ltd. Pune.

ABC Tech Tutorials offers best Animation, VFX, Multimedia, Gaming, Computer Science and Information Technology Tutorials. ABC Tech Tutorials offers best Animation, VFX, Multimedia, Gaming, Computer Science and Information Technology Tutorials.
            </p>

            <script src="jquery/jquery.min.js" type="text/javascript"></script>
            <script src="popper/popper.min.js" type="text/javascript"></script>
            <script src="bootstrap/js/bootstrap.min.js" type="text/javascript"></script>

        </body>
</html>

Bootstrap List Related Classes:

list-unstyled: used to un-style the list i.e. used to remove bullets, left-padding etc.

```
<ul class="list-unstyled">
        <li>Item</li>
        <li>Item</li>
        <li>Item</li>
        <li>Item</li>
</ul>
```

list-group: used to un-style the list.
list-group-item: used to add some border, padding etc. to list items.

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

list-group-item-action: used to add some mouse over styles on entire anchor element
```
<ul class="list-group">
        <a href="#" class="list-group-item list-group-item-action">Item</a>
        <a href="#" class="list-group-item list-group-item-action">Item</a>
        <a href="#" class="list-group-item list-group-item-action">Item</a>
        <a href="#" class="list-group-item list-group-item-action">Item</a>
</ul>
```

list-inline: used to un-style the list.
list-inline-item: used to convert list items to inline-block
```
<ul class="list-inline">
        <li class="list-inline-item">Item</li>
        <li class="list-inline-item">Item</li>
        <li class="list-inline-item">Item</li>
        <li class="list-inline-item">Item</li>
</ul>
```

```
<ul class="list-inline">
        <a href="#" class="list-inline-item">Item</a>
        <a href="#" class="list-inline-item">Item</a>
        <a href="#" class="list-inline-item">Item</a>
</ul>
```

Giri's TechHub Pvt.Ltd. Pune.

List group item colors:
- used to set background color to list items

list-group-item-primary
list-group-item-secondary
list-group-item-success
list-group-item-info
list-group-item-warning
list-group-item-danger
list-group-item-light
list-group-item-dark

```html
<ul class="list-group">
        <li class="list-group-item list-group-item-primary">Item</li>
        <li class="list-group-item list-group-item-secondary">Item</li>
        <li class="list-group-item list-group-item-success">Item</li>
        <li class="list-group-item list-group-item-warning">Item</li>
        <li class="list-group-item list-group-item-info">Item</li>
        <li class="list-group-item list-group-item-danger">Item</li>
        <li class="list-group-item list-group-item-dark">Item</li>
        <li class="list-group-item list-group-item-light">Item</li>
</ul>
```

Complete Code:
```html
<!doctype html>
<html lang="en">
        <head>
                <meta charset="utf-8">
                <title>Bootstrap demo</title>
                <meta name="viewport" content="width=device-width, initial-scale=1.0">
                <link href="bootstrap/css/bootstrap.min.css" type="text/css" rel="stylesheet">
        </head>
        <body>

                <ul>
                        <li>Item</li>
                        <li>Item</li>
                        <li>Item</li>
                        <li>Item</li>
                </ul>
                <br/>
                <ul class="list-unstyled">
                        <li>Item</li>
                        <li>Item</li>
                        <li>Item</li>
                        <li>Item</li>
                </ul>
                <br/>
```

Giri's TechHub Pvt.Ltd. Pune.

```html
<ul class="list-group">
        <li class="list-group-item">Item</li>
        <li class="list-group-item">Item</li>
        <li class="list-group-item">Item</li>
        <li class="list-group-item">Item</li>
</ul>
<br/>
<ul class="list-group">
        <a href="#" class="list-group-item list-group-item-action">Item</a>
        <a href="#" class="list-group-item list-group-item-action">Item</a>
        <a href="#" class="list-group-item list-group-item-action">Item</a>
        <a href="#" class="list-group-item list-group-item-action">Item</a>
</ul>
<br/>
<ul class="list-inline">
        <li class="list-inline-item">Item</li>
        <li class="list-inline-item">Item</li>
        <li class="list-inline-item">Item</li>
        <li class="list-inline-item">Item</li>
</ul>
<br/>
<ul class="list-inline">
        <a href="#" class="list-inline-item">Item</a>
        <a href="#" class="list-inline-item">Item</a>
        <a href="#" class="list-inline-item">Item</a>
</ul>
<br/>
<ul class="list-group">
        <li class="list-group-item list-group-item-primary">Item</li>
        <li class="list-group-item list-group-item-secondary">Item</li>
        <li class="list-group-item list-group-item-success">Item</li>
        <li class="list-group-item list-group-item-warning">Item</li>
        <li class="list-group-item list-group-item-info">Item</li>
        <li class="list-group-item list-group-item-dark">Item</li>
        <li class="list-group-item list-group-item-light">Item</li>
        <li class="list-group-item list-group-item-danger">Item</li>
</ul>


        <script src="jquery/jquery.min.js" type="text/javascript"></script>
        <script src="popper/popper.min.js" type="text/javascript"></script>
        <script src="bootstrap/js/bootstrap.min.js" type="text/javascript"></script>

    </body>
</html>
```

Bootstrap Table Related Classes:

table: sets the table width to <u>100%</u> and adds <u>bottom border</u> to all table rows

```
<table  class="table">
<thead>
        <tr>
                <th>Some Text</th><th>Some Text</th>
        </tr>
</thead>
<tbody>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tbody>
<tfoot>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tfoot>
</table>
```

table & **table-striped** : sets <u>light gray background color</u> to <u>alternative rows</u> of the <u>table body tag</u>

```html
<table  class="table table-striped">
<thead>
        <tr>
                <th>Some Text</th><th>Some Text</th>
        </tr>
</thead>
<tbody>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tbody>
<tfoot>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tfoot>
</table>
```

table & **table-bordered**: creates a table <u>with border</u>

```
<table  class="table table-bordered">
<thead>
        <tr>
                <th>Some Text</th><th>Some Text</th>
        </tr>
</thead>
<tbody>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tbody>
<tfoot>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tfoot>
</table>
```

table & **table-borderless** : creates a table <u>without border</u>

```html
<table  class="table table-borderless">
<thead>
        <tr>
                <th>Some Text</th><th>Some Text</th>
        </tr>
</thead>
<tbody>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tbody>
<tfoot>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tfoot>
</table>
```

table & **table-hover** : adds <u>hover effect</u> to <u>rows</u> of the <u>table body tag</u>

```html
<table  class="table table-hover">
<thead>
        <tr>
                <th>Some Text</th><th>Some Text</th>
        </tr>
</thead>
<tbody>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tbody>
<tfoot>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tfoot>
</table>
```

Table Color Related Classes:
- allow us to create <u>colored tables</u>

table-primary
table-secondary
table-success
table-info
table-warning
table-danger
table-dark
table-light

```
<table  class="table table-primary table-hover">
<thead>
	<tr>
		<th>Some Text</th><th>Some Text</th>
	</tr>
</thead>
<tbody>
	<tr>
		<td>Some Text</td><td>Some Text</td>
	</tr>
	<tr>
		<td>Some Text</td><td>Some Text</td>
	</tr>
	<tr>
		<td>Some Text</td><td>Some Text</td>
	</tr>
	<tr>
		<td>Some Text</td><td>Some Text</td>
	</tr>
</tbody>
<tfoot>
	<tr>
		<td>Some Text</td><td>Some Text</td>
	</tr>
</tfoot>
</table>
```

Table Heading Row Color Related Classes:
- allow us to set dark or light gray background color to table heading row

table-dark
table-light

```
<table  class="table table-primary table-hover">
<thead class="table-dark">
        <tr>
                <th>Some Text</th><th>Some Text</th>
        </tr>
</thead>
<tbody>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tbody>
<tfoot>
        <tr>
                <td>Some Text</td><td>Some Text</td>
        </tr>
</tfoot>
</table>
```

Bootstrap - Button Related Classes:

btn:
- sets button text color to dark gray,
- removes background color, border
- adds some padding, border radius
etc.

How to Create Filled Buttons in Bootstrap:

btn-primary : sets text color to white and background and border color to <u>blue color</u>
<input type="submit" class="btn btn-primary"/>

btn-secondary : sets text color to white and background and border color to <u>mid gray color</u>
<input type="submit" class="btn btn-secondary"/>

btn-success : sets text color to white and background and border color to <u>green color</u>
<input type="submit" class="btn btn-success"/>

btn-info : sets text color to dark gray and background and border color to <u>cyan color</u>
<input type="submit" class="btn btn-info"/>

btn-warning : sets text color to dark gray and background and border color to <u>yellow color</u>
<input type="submit" class="btn btn-warning"/>

btn-danger : sets text color to white and background and border color to <u>red color</u>
<input type="submit" class="btn btn-danger"/>

btn-light : sets text color to dark gray and background and border color to <u>light gray color</u>
<input type="submit" class="btn btn-light"/>

btn-dark : sets text color to white and background and border color to <u>dark gray color</u>
<input type="submit" class="btn btn-dark"/>

btn-link : sets text color to blue and adds the underline to the link
Submit

Giri's TechHub Pvt.Ltd. Pune.

How to Create Outlined buttons in Bootstrap:

btn-outline-primary : sets text color to blue and border color to blue color
`<input type="submit" class="btn btn-outline-primary"/>`

btn-outline-secondary : sets text color to mid gray and border color to mid gray color
`<input type="submit" class="btn btn-outline-secondary"/>`

btn-outline-success : sets text color to green and border color to green color
`<input type="submit" class="btn btn-outline-success"/>`

btn-outline-info : sets text color to cyan and border color to cyan color
`<input type="submit" class="btn btn-outline-info"/>`

btn-outline-warning : sets text color to yellow and border color to yellow color
`<input type="submit" class="btn btn-outline-warning"/>`

btn-outline-danger : sets text color to red and border color to red color
`<input type="submit" class="btn btn-outline-danger"/>`

btn-outline-light : sets text color to light gray and border color to light gray color
`<input type="submit" class="btn btn-outline-light"/>`

btn-outline-dark : sets text color to dark gray and border color to dark gray color
`<input type="submit" class="btn btn-outline-dark"/>`

Button Modifiers:

btn-lg : increase font size and padding little bit so that it gets displayed little bit larger than normal size
`<input type="submit" class="btn btn-lg btn-outline-primary"/>`

btn-sm : decreases font size and padding little bit so that it gets displayed little bit smaller than normal size
`<input type="submit" class="btn btn-sm btn-outline-primary"/>`

d-grid : converts button to block level and sets width to 100%
gap-1 : adds space between the buttons

```
<div class="d-grid   gap-1">
  <input type="submit" class="btn btn-primary" />
  <input type="reset" class="btn btn-primary" />
</div>
```

Complete Code:
```
<!doctype html>
<html lang="en">
        <head>
                <meta charset="utf-8">
```

Giri's TechHub Pvt.Ltd. Pune.

```html
        <title>Bootstrap demo</title>
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link href="bootstrap/css/bootstrap.min.css" type="text/css" rel="stylesheet">
    </head>
    <body>
        <input type="submit"/>
        <input type="submit" class="btn"/>
        <input type="submit" class="btn btn-primary"/>
        <input type="submit" class="btn btn-secondary"/>
        <input type="submit" class="btn btn-success"/>
        <input type="submit" class="btn btn-info"/>
        <input type="submit" class="btn btn-warning"/>
        <input type="submit" class="btn btn-danger"/>
        <input type="submit" class="btn btn-light"/>
        <input type="submit" class="btn btn-dark"/>
        <input type="submit"/>
        <input type="submit" class="btn"/>
        <input type="submit" class="btn btn-outline-primary"/>
        <input type="submit" class="btn btn-outline-secondary"/>
        <input type="submit" class="btn btn-outline-success"/>
        <input type="submit" class="btn btn-outline-info"/>
        <input type="submit" class="btn btn-outline-warning"/>
        <input type="submit" class="btn btn-outline-danger"/>
        <input type="submit" class="btn btn-outline-light"/>
        <input type="submit" class="btn btn-outline-dark"/>

        <script src="jquery/jquery.min.js" type="text/javascript"></script>
        <script src="popper/popper.min.js" type="text/javascript"></script>
        <script src="bootstrap/js/bootstrap.min.js" type="text/javascript"></script>

    </body>
</html>
```