Bootstrap
A front-end framework

Bootstrap Responsive Utilities Classes

- There are few helper classes available in Bootstrap for showing and hiding content by device

- If you want to enable the visibility of elements based on the devices when screen size is within a specific range, then you can use the below classes:

    .visible-xs-* .visible-sm-*.visible-md-* .visible-lg-*

- Makes the element visible only on devices having screen width less than the limit for that particular device.(<768px,<992px,<1200, >=1200)

- Similarly you have hidden utility classes to hide the elements on certain devices.

    .hidden-xs .hidden-sm .hidden-md   .hidden-lg

- Makes the element hidden only on the appr. devices having the screen width appr. for that device.

Visibility Demo

```html
<!DOCTYPE html>

<html>

<head>

<title>Example of Bootstrap 3 Visible Responsive Classes</title>

<link rel="stylesheet" href="css/bootstrap.min.css">

<link rel="stylesheet" href="css/bootstrap-theme.min.css">

<script src="js/jquery-2.1.4.min.js"></script>

<script src="js/bootstrap.min.js"></script>

</head>
```

Copy the necessary files from the Bootstrap downloaded folder to your project folder
**Note: All javascript plugins require jQuery to be included
Download the jquery jar file and copy it to the js folder

Visibility Demo

```
<div class="bs-example">

<p class="visible-xs">This paragraph is visible only on <strong>Extra Small
Devices</strong> that has screen width less than <code>768px</code></p>

<p class="visible-lg">This paragraph is visible only on <strong>Large
Devices</strong> that has screen width greater than or equal to
<code>1200px</code>.</p>

<p class="visible-lg visible-md visible-sm visible-xs">This paragraph is visible
on all screen sizes <strong>Large,Medium,Small,Xtra Small Devices</strong> that
has screen of any width </p>

</div>

</body>

</html>
```
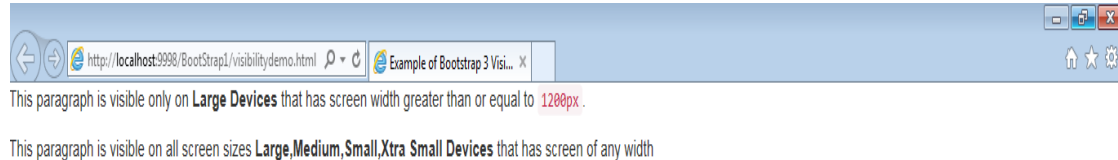

This paragraph is visible only on **Large Devices** that has screen width greater than or equal to 1200px .

This paragraph is visible on all screen sizes **Large,Medium,Small,Xtra Small Devices** that has screen of any width

Note the first paragraph is not visible
Reduce the browser and check the output

Bootstrap Typography

- Bootstrap Typography provides styling and formatting of text contents like headings, paragraphs etc.

- Classes for headings: Similar to <h1> to <h6> tags, we have classes like .h1 to .h6

- Classes for secondary text of any heading: Similar to <small> , we have class called .small

- Classes for text alignment: text-left, text-center, text-right,text-justify, text-nowrap

- Classes for text transformation: text-lowercase, text-uppercase, text-capitalize.

Bootstrap Typography -Demo

```html
<body>
<h1>H1 heading</h1>
<p class="h1">H1..H6 font size(36 px,30 px,24 px,18 px,14 px,12 px)</p>
Normal font<br>
<p class="small">Small font</p>
<p class="text-lowercase">LOWERCASE</p>
<p class="text-uppercase">uppercase</p>
<p class="text-capitalize">this will be displayed in capitalized font</p>
</body>
```
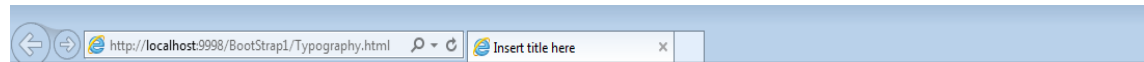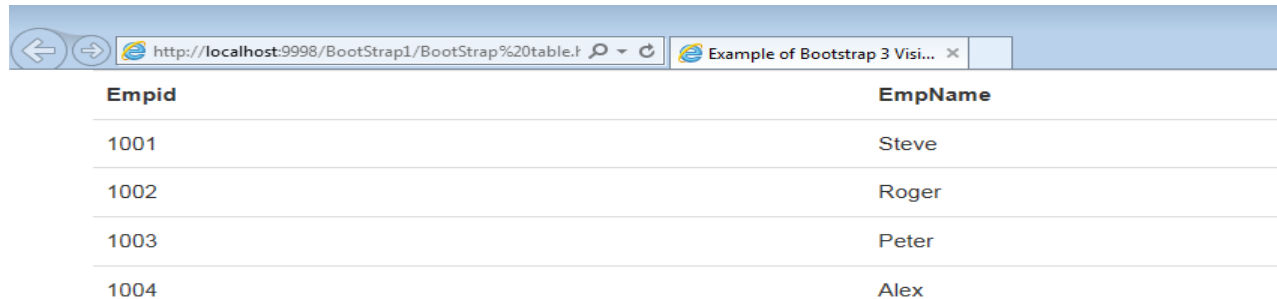
Bootstrap Tables

- Bootstrap provides you several classes using which you can create stylish tables.

- Classes:
    - .table : for basic table with horizontal dividers
    - .table-bordered (used with .table class) : for a table border
    - .table-striped (used with .table class) : for a zebra striped table
    - .active, .info , .success, .warning, .danger etc : for emphasizing the row/cell through appropriate colouring.

Bootstrap Tables - Demo

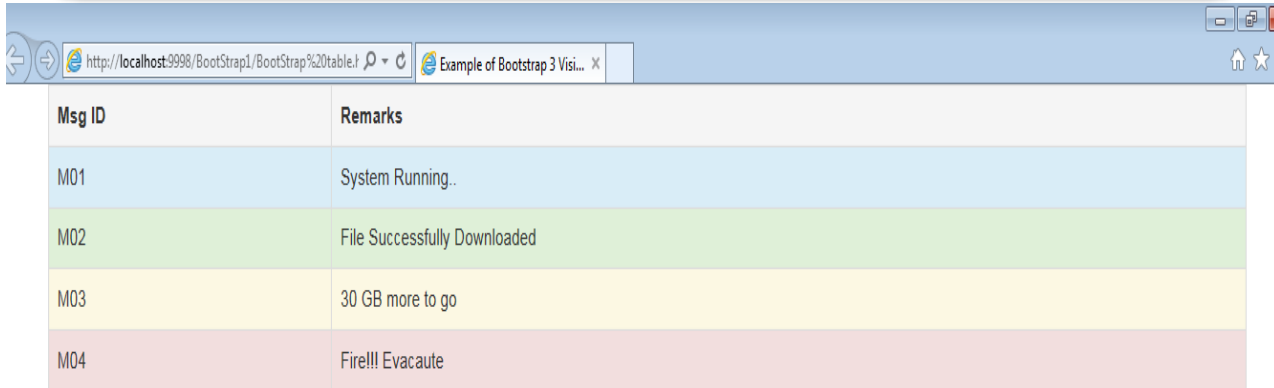```
<div class="container">
<table class="table">
<tr><th>Empid</th><th>EmpName</th></tr>
<tr><td>1001</td><td>Steve</td></tr>
<tr><td>1002</td><td>Roger</td></tr>
<tr><td>1003</td><td>Peter</td></tr>
<tr><td>1004</td><td>Alex</td></tr>
</table>
</div>
```

http://localhost:9998/BootStrap1/BootStrap%20table.h | Example of Bootstrap 3 Visi... ×

| Empid | EmpName |
| --- | --- |
| 1001 | Steve |
| 1002 | Roger |
| 1003 | Peter |
| 1004 | Alex |

# Bootstrap Tables - Demo

```
<div class="container">
<table class="table table-striped table-bordered">
<tr class="active"><th>Msg ID</th><th>Remarks</th></tr>
<tr class="info"><td>M01</td><td>System Running..</td></tr>
<tr class="success"><td>M02</td><td>File Successfully
Downloaded</td></tr>
<tr class="warning"><td>M03</td><td>30 GB more to
go</td></tr>
<tr class="danger"><td>M04</td><td>Fire!!! Evacaute</td></tr>
</table>
</div>
```

http://localhost:9998/BootStrap1/BootStrap%20table.h | Example of Bootstrap 3 Visi... X

Msg ID	Remarks
M01	System Running..
M02	File Successfully Downloaded
M03	30 GB more to go
M04	Fire!!! Evacaute

Bootstrap Images

- Images play a very important role in web design.

- Styling images and placing them properly on the pages enhances the look and feel of the web pages

- Bootstrap classes for image related styling:
    - img-rounded, img-circle, img-thumbnail

Bootstrap Images - Demo

```
<img src="images/Penguins.jpg" class="img-rounded" height="150" width="150">
<img src="images/Penguins.jpg" class="img-circle"  height="150" width="150">
<img src="images/Penguins.jpg" class="img-thumbnail" height="150" width="150">
```

Bootstrap Glyphicons

- Bootstrap 3.3.2 allows around 259 glyphicons.

- Few icon classes

    - glyphicon
    - glyphicon-heart
    - glyphicon-asterisk
    - glyphicon-search
    - glyphicon-home
    - glyphicon-envelope

- You can use the bootstrap icons along with the <span> tag with the base class "glyphicon" and individual icon class glyphicon-*

Bootstrap Icons - Demo

```html
<!DOCTYPE html>

<html lang="en">

<head>

<title>Example of Bootstrap 3 Visible Responsive Classes</title>

<link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>

<script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/js/bootstrap.min.js"></script>

</head>

<body>

<button><span class="glyphicon glyphicon-search"></span>Search</button>

<button><span class="glyphicon glyphicon-envelope"></span>Mail</button>

<button><span class="glyphicon glyphicon-heart"></span>Compassion</button>

<button><span class="glyphicon glyphicon-asterisk"></span>Miscellaneous</button>

</body>

</html>
```
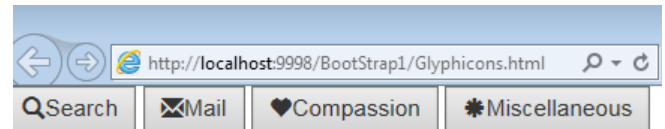
Bootstrap Alert

- Bootstrap provides 4 different types of alerts
- Alert related bootstrap classes:
  - alert-success
  - alert-warning
  - alert-info
  - alert-danger

Example :

```
<div class="alert alert-success">
    <strong>Success!</strong>
</div>
```


Alerts

Success!

Info!

Warning!

Danger!

Bootstrap Buttons

- Using Bootstrap we can enhance the views of normal HTML Butttons
- The following are some of the button styles available
- Button Styles
  - .btn-default
  - .btn-primary
  - .btn-success
  - .btn-info
  - .btn-warning
  - .btn-danger
  - .btn-link
- Button Sizes
  - .btn-lg
  - .btn-md
  - .btn-sm
  - .btn-xs

Example :

`<button type="button" class="btn btn-default">Default</button>`

Quiz

1. Which of the following is used to add images to text,buttons etc?
   a. icons
   b. glyphicons
   c. emoticons
   d. None of the above

2. Which of the following bootstrap class should we use to display an image in a circular format?
   a. img-rounded
   b. img-circle
   c. img-thumbnail
   d. None of the above

<u>Thank You</u>