

Unit – III: Bootstrap Components

Discuss different bootstrap components.

Bootstrap has many components given in below table.

S.No.	Methods & Description
1	Alerts The alert component specifies the predefined message for user actions.
2	Badges Badges are used to highlight the additional information to the content.
3	Breadcrumb It is used to show hierarchy-based information for a site.
4	Buttons Bootstrap provides clickable button to put content such as text and images.
5	Button group Button groups allow multiple buttons to be stacked together on a single line.
6	Cards Card is a content container which displays a bordered box with some padding around it.
7	Carousel Carousel is a flexible, responsive way to add a slider to your site.
8	Collapse It is used to show or hide the content.
9	Dropdowns Dropdown menus can be used for displaying links in a list format.

10	Forms The form element is used to collect input from user.
11	Input group Using input groups you can easily prepend and append text or buttons to the text-based inputs.
12	Jumbotron It increases the size of headings and adds a lot of margin for landing page content.
13	Modal Modal is a child window that is layered over its parent window.
14	Navs Bootstrap provides navigation items for your site in a horizontal menu.
15	Navbar Navbar provides navigation headers for your application or site.
16	Pagination Pagination is used to divide the related content across multiple pages.
17	Popovers Popover is similar to tooltip, offering an extended view complete with a heading.
18	Progress Progress bar shows progress of a process with stacked bars, animated backgrounds, and text labels.
19	Scrollspy Scrollspy is used to indicate currently active link in the menu based on scroll position.
20	Tooltips Tooltips are useful when you need to describe a link.

Badges

Badges are numerical indicators of how many items are associated with a link:

[News](#)
[Comments](#)
[Updates](#)

The numbers (5, 10, and 2) are the badges.

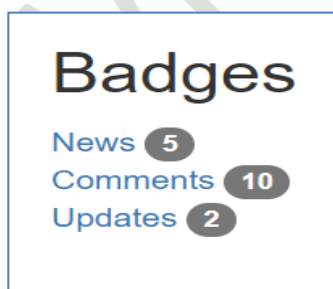
Use the `.badge` class within `` elements to create badges:

Example

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h2>Badges</h2>
  <a href="#">News <span class="badge">5</span></a><br>
  <a href="#">Comments <span class="badge">10</span></a><br>
  <a href="#">Updates <span class="badge">2</span></a>
</div>
</body>
</html>
```

Output:



Use different bootstrap components like Glyphicons, Dropdown Menu Button Groups and Button Toolbar to effective page design.

Bootstrap Glyphicons

Bootstrap provides 260 glyphs from the [Glyphicons](#) Halflings set.

Glyphicons can be used in text, buttons, toolbars, navigation, forms, etc.

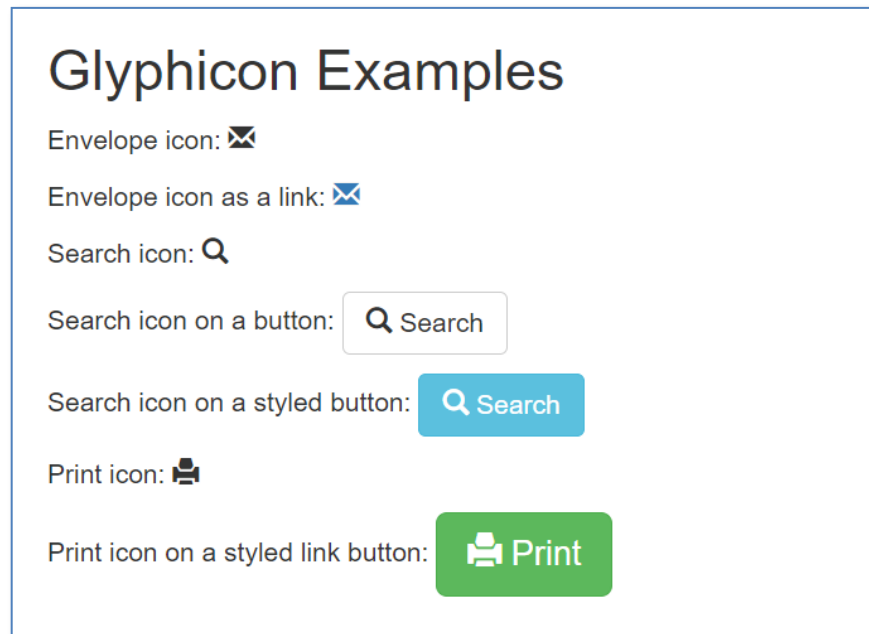
Glyphicon Syntax

A glyphicon is inserted with the following syntax:

```
<span class="glyphicon glyphicon-name"></span>
```

Example

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Glyphicon Examples</h2>
  <p>Envelope icon: <span class="glyphicon glyphicon-envelope"></span></p>
  <p>Envelope icon as a link:
    <a href="#"><span class="glyphicon glyphicon-envelope"></span></a>
  </p>
  <p>Search icon: <span class="glyphicon glyphicon-search"></span></p>
  <p>Search icon on a button:
    <button type="button" class="btn btn-default">
      <span class="glyphicon glyphicon-search"></span> Search
    </button>
  </p>
  <p>Search icon on a styled button:
    <button type="button" class="btn btn-info">
      <span class="glyphicon glyphicon-search"></span> Search
    </button>
  </p>
  <p>Print icon: <span class="glyphicon glyphicon-print"></span></p>
  <p>Print icon on a styled link button:
    <a href="#" class="btn btn-success btn-lg">
      <span class="glyphicon glyphicon-print"></span> Print
    </a>
  </p>
</div></body></html>
```

Output:**Design webpages using bootstrap card, Navigation Pills and Tab Components.****Bootstrap Tabs and Pills****Menus**

Most web pages have some kind of a menu.

In HTML, a menu is often defined in an unordered list `` (and styled afterwards), like this:

```
<ul>
  <li><a href="#">Home</a></li>
  <li><a href="#">Menu 1</a></li>
  <li><a href="#">Menu 2</a></li>
  <li><a href="#">Menu 3</a></li>
</ul>
```

If you want to create a horizontal menu of the list above, add the `.list-inline` class to ``:

```
<ul class="list-inline">
```

Tabs

Tabs are created with `<ul class="nav nav-tabs">`:

Tip: Also mark the current page with `<li class="active">`.

The following example creates navigation tabs:

Example

```
<ul class="nav nav-tabs">
  <li class="active"><a href="#">Home</a></li>
  <li><a href="#">Menu 1</a></li>
  <li><a href="#">Menu 2</a></li>
  <li><a href="#">Menu 3</a></li>
</ul>
```

Tabs With Dropdown Menu

Tabs can also hold dropdown menus.

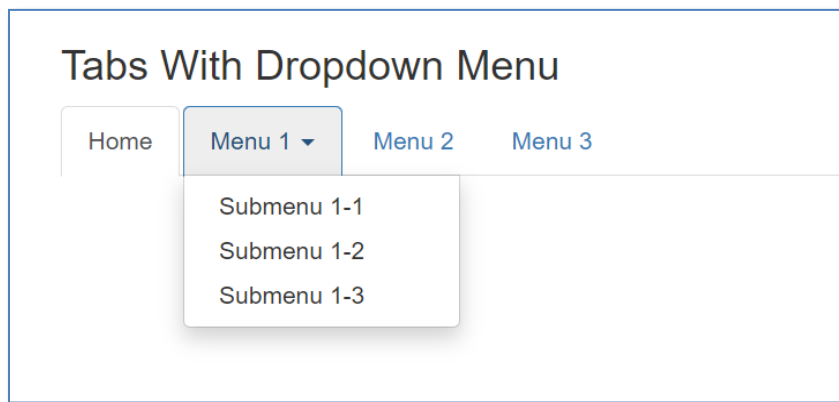
The following example adds a dropdown menu to "Menu 1":

Example

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h3>Tabs With Dropdown Menu</h3>
  <ul class="nav nav-tabs">
    <li class="active"><a href="#">Home</a></li>
    <li class="dropdown">
      <a class="dropdown-toggle" data-toggle="dropdown" href="#">Menu 1 <span class="caret"></span></a>
      <ul class="dropdown-menu">
        <li><a href="#">Submenu 1-1</a></li>
        <li><a href="#">Submenu 1-2</a></li>
        <li><a href="#">Submenu 1-3</a></li>
      </ul>
    </li>
    <li><a href="#">Menu 2</a></li>
    <li><a href="#">Menu 3</a></li>
  </ul>
</div>

</body>
</html>
```

Output:

Apply various input, navigation, progress and alerts related bootstrap components to make functionality rich web page.

Basic Progress Bar

A progress bar can be used to show a user how far along he/she is in a process.

Bootstrap provides several types of progress bars.

A default progress bar in Bootstrap looks like this:



To create a default progress bar, add a .progress class to a <div> element:

Example

```
<div class="progress">
  <div class="progress-bar" role="progressbar" aria-valuenow="70"
    aria-valuemin="0" aria-valuemax="100" style="width:70%">
    <span class="sr-only">70% Complete</span>
  </div>
</div>
```

Output:

Alerts

Bootstrap provides an easy way to create predefined alert messages:

Alerts are created with the `.alert` class, followed by one of the four contextual classes `.alert-success`, `.alert-info`, `.alert-warning` or `.alert-danger`:

Example

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Alerts</h2>
  <div class="alert alert-success">
    <strong>Success!</strong> This alert box could indicate a successful or positive action.
  </div>
  <div class="alert alert-info">
    <strong>Info!</strong> This alert box could indicate a neutral informative change or action.
  </div>
  <div class="alert alert-warning">
    <strong>Warning!</strong> This alert box could indicate a warning that might need attention.
  </div>
  <div class="alert alert-danger">
    <strong>Danger!</strong> This alert box could indicate a dangerous or potentially negative action.
  </div>
</div></body></html>
```

Output:

