Bootstrap Cheatsheet

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Boot strap provide css template for responsive web UI design.

**Part 1**

**1.1 Include the lib**

CDN from MaxCDN.

<!-- Latest compiled and minified CSS -->  
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">  
  
<!-- jQuery library -->  
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>  
  
<!-- Latest compiled JavaScript -->  
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>

Another way to use bootstrap is to download it and host it yourself, the advantage of using cdn inclusion is that other website that uses bootstrap will be cached thus, the speed of loading your site is faster.

**1.2 Use html 5**

It requireshtml5.

<!DOCTYPE html>

**1.3 Mobile support**

To ensure proper rendering and touch zooming, need to add the following <meta> tag in the <head> tag.

<meta name="viewport" content="width=device-width, initial-scale=1">

**1.4 Container**

It requires a container to wrap around the site contents, and container is not nestable.

1. .container class provides a responsive fixed width container.
2. .container-fluid class provides a full width container, spanning the entire width of the viewport.

Eg:

<!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/3.3.7/css/bootstrap.min.css">  
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.0/jquery.min.js"></script>  
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>  
</head>  
<body>  
  
<div class="container-fluid">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>   
</div>  
  
</body>  
</html>

Change the container and try.

Part 2 Components

* 1. Grid system

It can support up to 12 columns in a row.

Basic structure is like,

<div class="row">  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  ...  
</div>

And the middle part is the following,

* xs (for phones)
* sm (for tablets)
* md (for desktops)
* lg (for larger desktops)

The last part is the number meaning the width, from 1 to 12, and if you define it as 12, then it will span the whole row.

If we use sm-1, the smallest, one row can only contain 12 columns, like the following,

<div class="container-fluid">

<h1>Hello World!</h1>

<p>Resize the browser window to see the effect.</p>

<div class="row">

<div class="col-sm-1" style="background-color:lavender;">.col-sm-4</div>

<div class="col-sm-1" style="background-color:lavenderblush;">.col-sm-4</div>

<div class="col-sm-1" style="background-color:lavender;">.col-sm-4</div>

<div class="col-sm-1" style="background-color:lavender;">.col-sm-4</div>

<div class="col-sm-1" style="background-color:lavenderblush;">.col-sm-4</div>

<div class="col-sm-1" style="background-color:lavender;">.col-sm-4</div>

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<div class="col-sm-1" style="background-color:lavenderblush;">.col-sm-4</div>

<div class="col-sm-1" style="background-color:lavender;">.col-sm-4</div>

</div>

</div>

* 1. Typography

Bootstrap's Default Settings. Bootstrap's global default font-size is 14px, with a line-height of 1.428. This is applied to the <body> element and all paragraphs (<p>). In addition, all <p> elements have a bottom margin that equals half their computed line-height (10px by default).

<h1> -<h6> pixel is changed to the following,

# h1 Bootstrap heading (36px)

## h2 Bootstrap heading (30px)

### h3 Bootstrap heading (24px)

#### h4 Bootstrap heading (18px)

##### h5 Bootstrap heading (14px)

###### h6 Bootstrap heading (12px)

<small>, tag used in <h?> tag will create a lighter, secondary text in any heading.

<mark>, will highlight the background with light yellow of text. Try it in <p>.

<abbr>, will be used to provide a tool tip for a shorter text(abbreviation). The tooltip will provide a longer text in the ‘title’ attribute.

## <blockquote>, will quote a block just like a <p> but there is a grey vertical bar in the left or right.

## For default < blockquote>, it will left justify the text, and the class of .blockquote-reverse will be right justified.

## <code>, tag will highlight the keywords you quote in grey block in the background.

## <kbd>, will highlight the keywords you quote in black block in the background.

## <pre>, will quote the whole block in grep block and preserve what it is.

## Text colors,

## .text-muted, .text-primary, .text-success, .text-info, .text-warning, and .text-danger, they are in the different color.

## The classes for background colors are:.bg-primary, .bg-success, .bg-info, .bg-warning, and .bg-danger.

## Ref:

## More Typography Classes:

## <https://www.w3schools.com/bootstrap/bootstrap_typography.asp>

## BS tables

## <table class=”className”>

## classNames are:

## The .table class adds basic styling to a table

## The .table-striped class adds zebra-stripes to a table

## The .table-bordered class adds borders on all sides of the table and cells:

## The .table-hover class adds a hover effect (grey background color) on table rows:

## The .table-condensed class makes a table more compact by cutting cell padding in half:

## <tr class=”className”>, the className can be the following,

## Success(green), danger(pink), info(light blue), warning(yellow), active(grey),

## BS images shapes

## <img src=".. " class="className”…/>

## .img-rounded:

## This class adds rounded corners to an image (IE8 does not support rounded corners)

## .img-circle.:

## This  class shapes the image to a circle (IE8 does not support rounded corners)

## .img-thumbnail:

## This  class shapes the image to a thumbnail.

## Responsive Images

Images come in all sizes. So do screens. Responsive images automatically adjust to fit the size of the screen.

Create responsive images by adding an .img-responsive class to the <img> tag. The image will then scale nicely to the parent element.

The .img-responsive class applies display: block; and max-width: 100%; and height: auto; to the image:

## 2.5 Creating a Jumbotron

A jumbotron indicates a big box for calling extra attention to some special content or information.

A jumbotron is displayed as a grey box with rounded corners. It also enlarges the font sizes of the text inside it.

**Tip:** Inside a jumbotron you can put nearly any valid HTML, including other Bootstrap elements/classes.

## 2.6 Bs Alert

## <div class="alert alert-success">   <strong>Success!</strong> Indicates a successful or positive action. </div> <div class="alert alert-info">   <strong>Info!</strong> Indicates a neutral informative change or action. </div> <div class="alert alert-warning">   <strong>Warning!</strong> Indicates a warning that might need attention. </div> <div class="alert alert-danger">   <strong>Danger!</strong> Indicates a dangerous or potentially negative action. </div>

## 2.7 BS buttons

## Style:

## <button type="button" class="btn">Basic</button> <button type="button" class="btn btn-default">Default</button> <button type="button" class="btn btn-primary">Primary</button> <button type="button" class="btn btn-success">Success</button> <button type="button" class="btn btn-info">Info</button> <button type="button" class="btn btn-warning">Warning</button> <button type="button" class="btn btn-danger">Danger</button> <button type="button" class="btn btn-link">Link</button>

Button size:

The classes that define the different sizes are:

* .btn-lg
* .btn-md
* .btn-sm
* .btn-xs

## Block Level Buttons

A block level button spans the entire width of the parent element.

Active/Disabled Buttons

<button type="button" class="btn btn-primary active">Active Primary</button>  
<button type="button" class="btn btn-primary disabled">Disabled Primary</button>

2.8 Button groups

Instead of applying button sizes to every button in a group, use class .btn-group-lg|sm|xs to size all buttons in the group:

Use the class .btn-group-vertical to create a vertical button group:

To span the entire width of the screen, use the .btn-group-justified class:

## Glyphicons

Bootstrap provides 260 glyphicons from the [Glyphicons](http://glyphicons.com/" \t "_blank) Halflings set.

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

For example,

<span class="glyphicon glyphicon-envelope">

<span class="glyphicon glyphicon-search">

<span class="glyphicon glyphicon-print">

<span class="glyphicon glyphicon-download">

## Badges

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

## Pagination

<ul class="pagination">  
  <li><a href="#">1</a></li>  
  <li class="active"><a href="#">2</a></li>  
  <li><a href="#">3</a></li>  
  <li><a href="#">4</a></li>  
  <li><a href="#">5</a></li>  
</ul>

The active is used in <li>

## Pager

Pager is also a form of pagination (as described in the previous chapter).

Pager provides previous and next buttons (links).

To create previous/next buttons, add the .pager class to an <ul> element:

<ul class="pager">  
  <li><a href="#">Previous</a></li>  
  <li><a href="#">Next</a></li>  
</ul>

## Panels

A panel in bootstrap is a bordered box with some padding around its content:

Panels are created with the .panel class, and content inside the panel has a .panel-body class:

<div class="panel panel-default">  
  <div class="panel-body">A Basic Panel</div>  
</div>

## Dropdown menu

<div class="dropdown">  
  <button class="btn btn-primary dropdown-toggle" type="button" data-toggle="dropdown">Dropdown Example  
  <span class="caret"></span></button>  
  <ul class="dropdown-menu">  
    <li><a href="#">HTML</a></li>  
    <li><a href="#">CSS</a></li>  
    <li><a href="#">JavaScript</a></li>  
  </ul>  
</div>

The .dropdown class indicates a dropdown menu.

To open the dropdown menu, use a button or a link with a class of .dropdown-toggle and the data-toggle="dropdown" attribute.

The .caret class creates a caret arrow icon (), which indicates that the button is a dropdown.

Add the .dropdown-menu class to a <ul> element to actually build the dropdown menu.

<li class="divider"></li>