Introduction to Responsive Web Design | Cheat Sheet

1. Bootstrap Grid System

Bootstrap Grid System is a collection of reusable code snippets to create responsive layouts. It is made up of containers, rows, and columns.

It uses a 12 column system for lay outing. We can create up to 12 columns across the page.

1.1 Container

The purpose of a container is to hold rows and columns.

```
<div class="container"></div>
```

Here, the container is a div element with the Bootstrap class name container.

1.2 Row

The purpose of a row is to wrap all the columns.

```
<div class="container">
  <div class="row"></div>
  </div>
```

Here, the row is a **div** element with the Bootstrap class name **row**.

1.3 Column

We should place the columns inside a row and the content inside a column.

We can specify the number of columns our content should occupy in any device. The number of columns we specify should be a number in the range of **1 to 12**.

```
<div class="container">
  <div class="row">
  <div class="col-12">
    I'm your content inside the grid!
  </div>
  </div>
</div>
```

Here, the column is a div element with the Bootstrap class name col-12.

Note

If Bootstrap class name is **col-12**, it occupies the entire width available inside the row.

The Bootstrap class names **col-*** indicates the number of columns you would like to use out of the possible **12 columns per row**. For example, **col-1**, **col-5**, **etc.**

Try out changing the number of columns in the below Code Playground and check the output.

Sample example using bootstrap

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+lbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"</p>
integrity="sha384-9/reFTGAW83EW2RDu2S0VKalzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"</pre>
integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>
</head>
 <body>
  <div class="container">
   <div class="row">
    <div class="col-12">
     <h1 class="heading">Taj Mahal</h1>
     >
      The Taj Mahal is an ivory-white marble mausoleum on the southern
      bank of the river Yamuna in the Indian city of Agra.
     </div>
   </div>
```

```
</div>
</body>
</html>

///css file
@import
url('https://fonts.googleapis.com/css2?family=Bree+Serif&family=Caveat:wght@400;700&family=Lobst
er&family=Monoton&family=Open+Sans:ital,wght@0,400;0,700;1,400;1,700&family=Playfair+Display+S
C:ital,wght@0,400;0,700;1,700&family=Playfair+Display:ital,wght@0,400;0,700;1,700&family=Roboto:it
al,wght@0,400;0,700;1,400;1,700&family=Source+Sans+Pro:ital,wght@0,400;0,700;1,700&family=Work
+Sans:ital,wght@0,400;0,700;1,700&display=swap');
.heading {
   font-size: 24px;
   font-weight: bold;
}
```

Output is like this

Taj Mahal

The Taj Mahal is an ivory-white marble mausoleum on the southern bank of the river Yamuna in the Indian city of Agra.

2. Creating Multiple Column Layouts

The Layout in the below Code Playground is a Two Column Layout. Similarly try out multiple column layouts like One Column Layout, Three Column Layout, etc. in the below Code .

Another example

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+lbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-9/reFTGAW83EW2RDu2S0VKalzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>

<style>

@import

url('https://fonts.googleapis.com/css2?family=Bree+Serif&family=Caveat:wght@400;700&family=Lobster&family=Monoton&family=Open+Sans:ital,wght@0,400;0,700;1,400;1,700&family=Playfair+Display+SC:ital,wght@0,400;0,700;1,700&family=Playfair+Display:ital,wght@0,400;0,700;1,700&family=Roboto:ital,wght@0,400;0,700;1,400;1,700&family=Source+Sans+Pro:ital,wght@0,400;0,700;1,700&family=Work+Sans:ital,wght@0,400;0,700;1,700&display=swap');

```
.heading {
	font-size: 24px;
	font-weight: bold;
}
</style>

</head>

<body>

<div class="container">

<div class="row">

<div class="row">

<h1 class="heading">Taj Mahal</h1>

	The Taj Mahal is an ivory-white marble mausoleum on the southern
```

bank of the river Yamuna in the Indian city of Agra.

```
</div>
</div>
</div class="col-4">
</https://div>
</html>

The Mysore Palace is a historical palace and the royal residence at Mysore in the Indian State of Karnataka.

</div>
</div>
</div>
</div>
</html>
```

OutPut

Taj Mahal

The Taj Mahal is an ivory-white marble mausoleum on the southern bank of the river Yamuna in the Indian city of Agra.

Mysore Palace

The Mysore Palace is a historical palace and the royal residence at Mysore in the Indian State of Karnataka.