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.

<u>Sample example using bootstrap</u>

```
<!DOCTYPE html>

<html>

 <head>

  <link rel="stylesheet" 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+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+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>

 </head>

 <body>

  <div class="container">

   <div class="row">

    <div class="col-12">

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

     <p>

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

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

     </p>

    </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

```
<!DOCTYPE html>

<html>

  <head>

    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
```

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

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+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="col-8">
          <h1 class="heading">Taj Mahal</h1>
          <p>
            The Taj Mahal is an ivory-white marble mausoleum on the southern
            bank of the river Yamuna in the Indian city of Agra.
```

```
      </p>
    </div>
    <div class="col-4">
      <h1 class="heading">Mysore Palace</h1>
      <p>
        The Mysore Palace is a historical palace and the royal residence at
        Mysore in the Indian State of Karnataka.
      </p>
    </div>
   </div>
  </div>
 </body>
</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.