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 layouting. We can create up to 12 columns across the page.

1.1 Container

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

```html
1    <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.

```html
1    <div class="container">
2        <div class="row"></div>
3    </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` .

```html
1    <div class="container">
2        <div class="row">
3            <div class="col-12">
4                I'm your content inside the grid!
5            </div>
6        </div>
7    </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.

HTML   CSS   JAVASCRIPT   ▶ ↺ ⚙ ◯ Inspect

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.

```html
1    <!DOCTYPE html>
2    <html>
3        <head>
4            <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/cs
5            <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-C
6            <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
7            <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.j
8        </head>
```
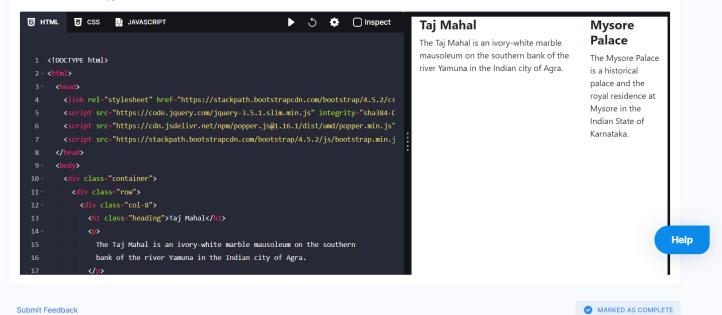
```html
 9    <body>
10      <div class="container">
11        <div class="row">
12          <div class="col-12">
13            <h1 class="heading">Taj Mahal</h1>
14            <p>
15              The Taj Mahal is an ivory-white marble mausoleum on the southern
16              bank of the river Yamuna in the Indian city of Agra.
17            </p>
```

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 Playground.

```
HTML      CSS      JAVASCRIPT                          ▶  ↺  ⚙  ☐ Inspect
```

```html
 1  <!DOCTYPE html>
 2  <html>
 3    <head>
 4      <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/cs
 5      <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-D
 6      <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
 7      <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.j
 8    </head>
 9    <body>
10      <div class="container">
11        <div class="row">
12          <div class="col-8">
13            <h1 class="heading">Taj Mahal</h1>
14            <p>
15              The Taj Mahal is an ivory-white marble mausoleum on the southern
16              bank of the river Yamuna in the Indian city of Agra.
17            </p>
```

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.

Submit Feedback

✔ MARKED AS COMPLETE

Notes   Discussions

Notes

＋ NEW NOTE

```
B  I  U  S  ☰  ☰  🔗  🖼
```

Title
Take a Note

CANCEL   SAVE