

Responsive Web Design &  
Bootstrap Grid System

7 hours, 5 mins

✓ Introduction to Responsive  
Web Design

40 mins

✓ Introduction to Responsive  
Web Design | Cheat Sheet

10 mins

✓ Bootstrap Grid System

50 mins

✓ Bootstrap Grid System |

Cheat Sheet

10 mins

# 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.

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

HTML

Help

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.

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

HTML

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`.

```
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>
```

HTML

Help

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.

Help

HTML CSS JAVASCRIPT

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.1/css/bootstrap.min.css">
5   <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
6   <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"></script>
7   <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.1/js/bootstrap.min.js"></script>
8 </head>
9 <body>
10   <div class="container">
11     <div class="row">
12       <div class="col-12">
13         I'm your content inside the grid!
14       </div>
15     </div>
16   </div>
17 </body>
18 </html>
```

### 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.

```
5 <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
6 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/"></script>
7 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script>
8 </head>
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
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.

HTMLCSSJAVASCRIPTInspect

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
5 <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
6 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/"></script>
7 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script>
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
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.

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Notes

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