Bootstrap Grid

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"</pre>
rel="stylesheet"
integrity="sha384-GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGol1aFkw7cmDA6j6gD"
crossorigin="anonymous">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXvN"
crossorigin="anonymous"></script>
</head>
                                             First Bootstrap Example
<body>
  <div class="text-danger">
  <h1> Bootstrap 5 Grid System example </h1>
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```

- to design layout and content structure
- to create a consistent layout rapidly and effectively using HTML and CSS
- Grid System allows up to 12 columns across the page

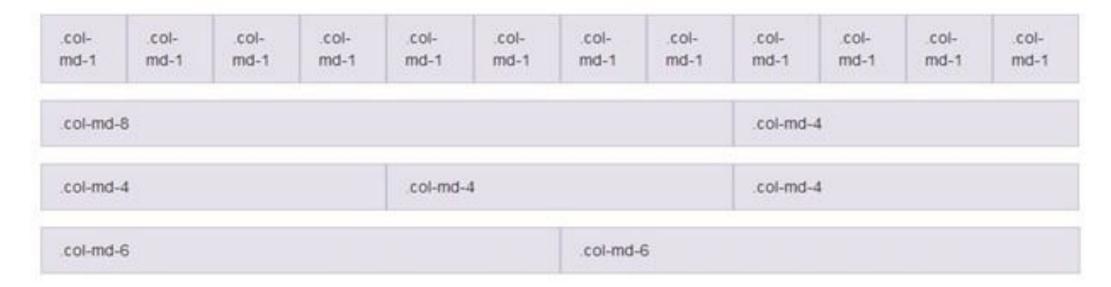


table shows the format of the bootstrap 5 grid systems.

Col1	Col1	Col1	Col1	Col1	Col1	Col1	Col1	Col1	Col1	Col1	Col1
Col6						Col6					
Col3	Col3 Col3			4		Co13		0	Co13		
Col4	Col4							Col4			
Col4				Col8							

Grid Classes:

• Bootstrap Grid System is responsive and the columns are re-arranged automatically according to the screen size.

There are four classes in Bootstrap Grid System:

- xs (for phones)
- sm (for tablets)
- md (for desktops)
- Ig (for larger desktops)

Grid options

- Extra small (xs)
- Small (sm)
- Medium (md)
- Large (lg)
- Extra large (xl)
- Extra extra large (xxl)

Note: You can combine the above classes to create more dynamic and flexible layouts

For example

- •the .col-* classes can construct grid columns for especially small devices such as mobile phones in portrait mode, and
- •the .col-sm-* classes for mobile phones in landscape mode.

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

Syntax of the Grid System

Basic Structure of a Bootstrap Grid:

```
<div class="row">
 <div class="col-*-*"></div>
</div>
<div class="row">
 <div class="col-*-*"></div>
 <div class="col-*-*"></div> 1.
 <div class="col-*-*"></div>
</div>
<div class="row">
</div>
```

- Create a row (<div class="row">).
- Add the number of columns, you want in the grid (tags with appropriate .col-*-* classes).
- 3. Note that numbers in .col-*-* should always add up to 12 for each row.

How it works

- grid supports six responsive breakpoints. Breakpoints are based on min-width media queries,
 - meaning they affect that breakpoint and all those above it (e.g., .col-sm-4 applies to sm, md, lg, xl, and xxl).
 - This means you can control container and column sizing and behavior by each breakpoint.
- Containers center and horizontally pad your content.
 - Use .container for a responsive pixel width, .container-fluid for width: 100% across all viewports and devices, or a responsive container (e.g., .container-md) for a combination of fluid and pixel widths.

• Rows are wrappers for columns. Each column has horizontal padding (called a gutter) for controlling the space between them.

 Columns are incredibly flexible. There are 12 template columns available per row,

• Gutters are also responsive and customizable. Gutter classes are available across all breakpoints, with all the same sizes

• Sass variables, maps, and mixins power the gridto create your own with more semantic markup..

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  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXvN" crossorigin="anonymous"></script>
</head>
<body>
  <div class="text-success">
    <h1> Bootstrap 5 Grid System example </h1>
   </div>
   <div class="container bg-primary">
   <div class = "row" style="border : 1px solid black;">
   <div class = "col" style="border : 2px solid black;"> Bootstrap </div>
   <div class = "col" style="border : 2px solid black;"> Bootstrap 4 </div>
   <div class = "col" style="border : 2px solid black;"> Bootstrap 5 </div>
            </div> </body> </html>
   </div>
```

Reference

- https://getbootstrap.com/docs/4.0/utilities/colors/
- https://getbootstrap.com/docs/5.0/layout/grid/
- https://www.jsdelivr.com/