



# Bootstrap Class Day 2

**#Bootstrap Notes** 

#### Responsive breakpoints

- Since Bootstrap is developed to be mobile first, we use a handful of <u>media queries</u> to create sensible breakpoints for our layouts and interfaces. These breakpoints are mostly based on minimum viewport widths and allow us to scale up elements as the viewport changes.
- Bootstrap primarily uses the following media query ranges—or breakpoints—in our source
   Sass files for our layout, grid system, and components.



```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap
// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }
// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }
// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }
// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

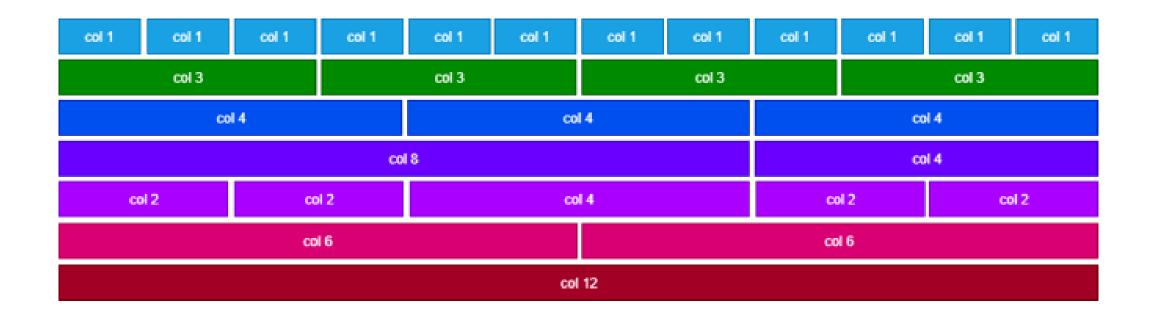


### Bootstrap Grid Introduction



#### **Bootstrap Grid Introduction**

- Bootstrap 4 provides a useful tool for creating responsive layouts the gridsystem.
- The grid system of Bootstrap 4 is built with flexbox and allows up to 12 columns for laying out your website content.
- •The main advantage of the Bootstrap 4 grid system is that it will rearrangedepending on the screen size, making it perfect for responsive web design.





#### Bootstrap Grid Classes

- Bootstrap 4 has included 5 predefined grid classes to scale the content depending on the device or viewport size.
- •.col-\*
- •.col-sm-\*
- .col-md-\*
- .col-lg-\*
- •.col-xl-\*

• Here, the asterisk (\*) is the span width of the column from 1 to 12. The following table lists how the grid system classes will work across multiple devices.



Class	Device Type	Width
.col-*	Extra Small	<576px
.col-sm-*	Small	≥576px
.col-md-*	Medium	≥768px
.col-lg-*	Large	≥992px
.col-xl-*	Extra Large	≥1200px



#### **Bootstrap 4 Grid Introduction Classes**

- There are five classes in the Bootstrap 4 stylesheet, that are associated with the grid system.
- .col- is used for extremely small devices, which have the screen width of less than 576px.
- .col-sm- is used for small devices, which have the screen width of 576px or more.
- .col-md- is used for medium sized devices, which have the screen width of 768px or more.
- .col-lg- is used for large devices, which have the screen width of 992px or more.
- .col-xl- is used for extra large small devices, which have the screen width of 1200px or more.



#### Structure of Bootstrap Grid

• To create responsive web page layouts using a bootstrap grid system, we need to use rows and columns within the container or container-fluid like as shown below.



- We created a grid layout by specifying the rows and columns within .container. Here, the
  first star (\*) will indicate the responsiveness, and that should be either sm, md, lg, or xl.
   The second star (\*) will indicate a number, and that should be from 1 to 12 for each row.
- Every time while we create a grid layout, we need to place the content within the columns (.col or .col-\*-\*) and those columns must be the children of rows (.row) and those rows must be placed inside of a container (.container or .container-fluid).
- In the bootstrap grid system, we are allowed to add up to 12 columns within a row. If we add more than 12 columns within a row, those extra columns will wrap into a new line.



#### Bootstrap Grid Layout with Responsive Three Column

• Following is the example of creating a responsive layout with three columns to support the devices whose screen width is more than 576px in bootstrap.

```
<div class="container">
    <div class="row">
       <div class="col-sm-4">col-sm-4</div>
       <div class="col-sm-4">col-sm-4</div>
       <div class="col-sm-4">col-sm-4</div>
   </div>
    <div class="row">
       <div class="col-sm-2">col-sm-2</div>
       <div class="col-sm-4">col-sm-4</div>
       <div class="col-sm-6">col-sm-6</div>
    </div>
    <div class="row">
       <div class="col-sm-2">col-sm-2</div>
       <div class="col-sm-5">col-sm-5</div>
       <div class="col-sm-5">col-sm-5</div>
    </div>
</div>
```

col-sm-4	С	ol-sm-4	col-sm-4
col-sm-2	col-sm-4	col-sm	-6
col-sm-2	col-sm-5		col-sm-5



#### Bootstrap Grid Layout with Auto Columns

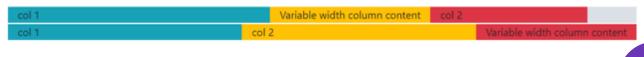
- In bootstrap, we can create equal or auto width columns for all the devices such as extra small, small, medium, large, and extra-large by specifying only .col class without any column numbers.
- The bootstrap grid system will automatically adjust the columns defined with .col class based on the device screen width.





#### Bootstrap Grid Layout with Variable Width Columns

- In bootstrap, by using col-{breakpoint}-auto classes, we can create variable-width columns to resize based on the width of their content.
- Following is the example of creating variable width columns to resize based on the width of content in bootstrap.





#### Bootstrap Grid Layout Column Offsetting

- In the bootstrap grid layout, we can move columns to the right by using .offset-\* grid classes. To offset a column, you have to append offset-\* suffix to your existing column class.
- For example, if your column class is, .col-md-4 you can offset the column with the class .offset-md-4. The number after offset symbolizes how many columns to add as margin.

```
<div class="container">
   <div class="row">
      <div class="col-md-4">.col-md-4</div>
      <div class="col-md-4 offset-md-4">.col-md-4 .offset-md-4</div>
   </div>
   <div class="row">
      <div class="col-md-3 offset-md-3">.col-md-3 .offset-md-3</div>
      <div class="col-md-3 offset-md-3">.col-md-3 .offset-md-3</div>
   </div>
   <div class="row">
      <div class="col-md-6 offset-md-3">.col-md-6 .offset-md-3</div>
   </div>
                                                                                               .col-md-4 .offset-md-4
</div>
                              .col-md-4
                                                       .col-md-3 .offset-md-3
                                                                                                       .col-md-3 .offset-md-3
                                                      .col-md-6 .offset-md-3
```



#### Bootstrap Grid Layout Column Reordering

- we can reorder the appearance of grid columns by using .order-\* classes without changing their actual order in a grid layout.
- In the grid layout, the order of grid columns will vary based on the defined order numbers. For example, the grid columns with lower-order (e.g., .col, .order-1) or without order classes will appear first, and the columns with higher-order numbers will appear after the lower order number columns. The grid system will support ordering the columns from 1 through 12 across all five grid tiers.

Third Second First



https://getbootstrap.com/docs/4.0/layout/grid/



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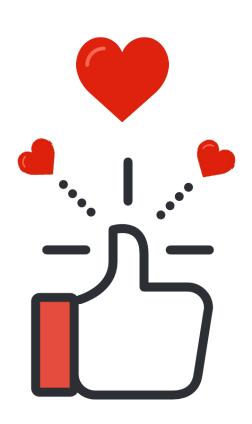
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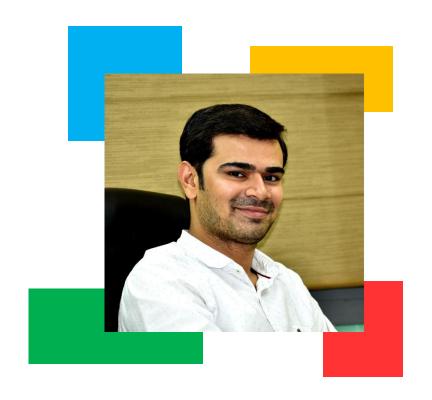


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