

Bootstrap4 Grid System

1399 Web Development

<https://v4-alpha.getbootstrap.com/>

Bootstrap Grid System

The Bootstrap 4 grid system has
five classes / responsive breakpoints:

- xs (for phones)
- sm (for landscape phones)
- md (for tablets)
- lg (for desktops)
- xl (for larger desktops)

Breakpoints are set by media queries in the CSS!

```
/* Extra small - default for CSS */
```

```
/* Small devices (landscape phones, 544px and up) */
```

```
@media (min-width: 544px) { }
```

```
/* 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 System

To create columns, you first create a **row and then add the appropriate number of **columns**.**

This concept is similar to the method for creating rows and columns in a table (<table> used for tabular data).

* NOTE - Bootstrap assumes that ALL row/col tags to create the grid are within a <div> with the Bootstrap *container* class applied.

```
<div class="container"> <!-- or container-fluid -->
```

```
...
```

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

```
...
```

```
</div>
```

xs sm md lg xl

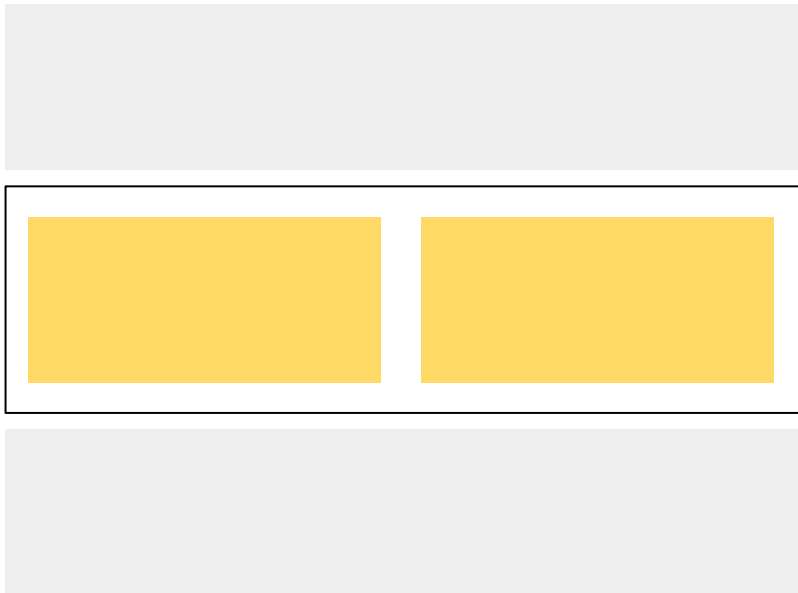
A number - 1 through 12

Bootstrap Grid System - the grid

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
span 6						span 6					
span 12											

- Up to 12 columns every time you create a `<div class="row">`, even when your columns are nested.
- You can set the columns to different layouts once or at all of the breakpoints. It's up to your design!

Bootstrap Grid System - an example



* NOTE - At the xs size, the columns will stack and stretch the full width of the row.

```
<div class="container">  <!-- or container-fluid -->

...

<div class="row">
  <div class="col-sm-6"></div>
  <div class="col-sm-6"></div>
  etc..
</div>

...

</div>
```

This box will be a column
6 wide at the small
break point and larger.

This box will
be 6 out of 12,
or approx 50%
the width of
the row.

Bootstrap Documentation

<http://v4-alpha.getbootstrap.com/layout/overview/>

Can't wait for Bootstrap 4's flexbox grid? Want to make your own?

<https://css-tricks.com/dont-overthink-flexbox-grids/>