

Bootstrap Grid System

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A grid system uses a series of containers, rows, and columns to layout and align content

It's built with flexbox and is fully responsive

Bootstrap Grid System

1. Grid supports six responsive **breakpoints**
2. **Containers** center and horizontally pad your content
3. **Rows** are wrappers for columns
4. **Columns** are incredibly flexible
5. **Gutters** are also responsive and customizable
6. **Sass** variables, maps, and mixins power the grid

Breakpoints

Core concepts

1. Breakpoints are the building blocks of responsive design
2. Use media queries to architect your CSS by breakpoint
3. Mobile first, responsive design is the goal

Breakpoints

Breakpoint	Class infix	Dimensions
X-Small	<i>None</i>	<576px
Small	<i>sm</i>	≥576px
Medium	<i>md</i>	≥768px
Large	<i>lg</i>	≥992px
Extra large	<i>xl</i>	≥1200px
Extra extra large	<i>xxl</i>	≥1400px

Breakpoints

- `<div class="col-12">`
- `<div class="col-lg-6">`
- `<div class="col-12 col-sm-6 col-md-4">`

find out more:

<https://getbootstrap.com/docs/5.1/layout/breakpoints/>

Containers

Containers are the most basic layout element in Bootstrap and are **required when using our default grid system**

Containers are used to contain, pad, and (sometimes) center the content within them

Containers

Bootstrap comes with three different containers:

- `.container`
- `.container-fluid`
- `.container-{breakpoint}`

Rows

Rows create horizontal groups of columns

Therefore, if you want to split your layout horizontally, use `.row`

You can have unlimited rows in a container

Row 1

Row 2

Row 3

.

.

.

As Much Row As You Like

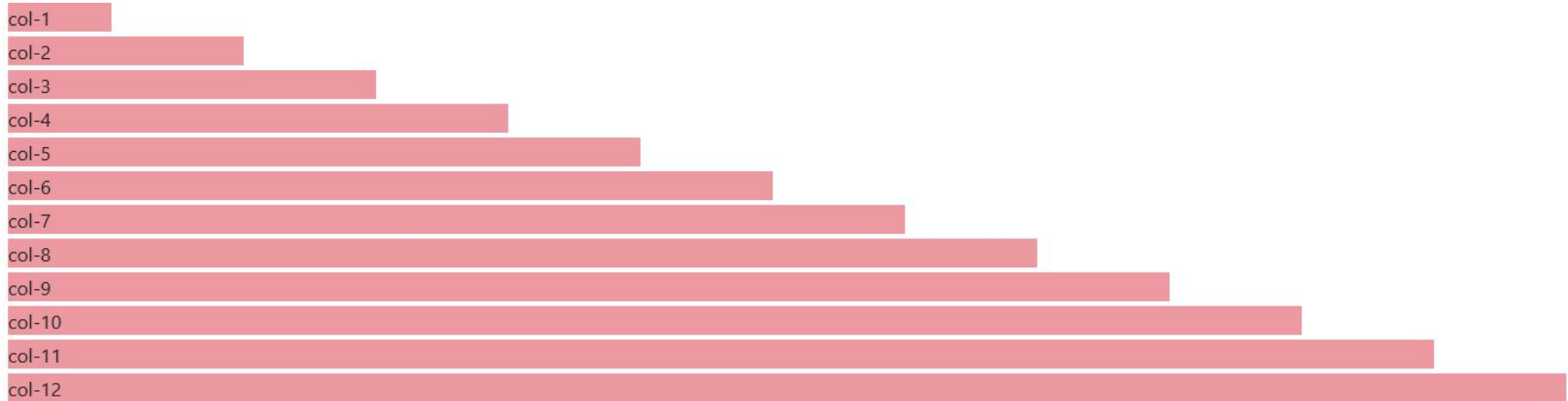
Rows

Rows also support modifier classes to

- [uniformly apply column sizing](#)
- [gutter classes](#) to change the spacing of your content.

Columns

There are 12 template columns available per row



Columns

- Column classes indicate the number of template columns to span (e.g., col-4 spans four).
- widths are set in percentages so you always have the same relative sizing.



Gutters

Gutter classes are available across all breakpoints, with all the same sizes as our margin and padding spacing.

(0 until 5)

Gutter 0



Gutter 1



Gutter 2



Gutter 3



Gutter 4



Gutter 5



Gutters

Change horizontal gutters with `.gx-*` classes,
vertical gutters with `.gy-*`,
or all gutters with `.g-*`
classes
`.g-0` is also available to
remove gutters.

Gutter 0

col	col	col
col	col	col
col	col	col

Gutter 1

col	col	col
col	col	col
col	col	col

Gutter 2

col	col	col
col	col	col
col	col	col

Gutter 3

col	col	col
col	col	col
col	col	col

Gutter 4

col	col	col
col	col	col
col	col	col

Gutter 5

col	col	col
col	col	col
col	col	col

Let's look at some examples
