

# BOOTSTRAP

## **GRID SYSTEM**

- Mobile first flexbox grid
- **Build layouts**
- Twelve column system
- Six default responsive tiers
- Sass variables and mixins
- Dozens of predefined classes

## **GRID OPTIONS**

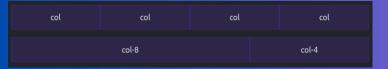
BREAKPOINTS	CONTAINER MAX-WIDTH	CLASS PREFIX
хs <576рх	None (auto)	.col-
sm ≥576px	540рх	.col-sm-
md ≽768px	720рх	.col-md-
lg ≽992px	960рх	.col-lg-
xl ≽1200px	1140рх	.col-xl-
xxl ≥1400px	1320рх	.col-xxl-

## **RESPONSIVE**

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

#### **ALL BREAKPOINTS**

.col and .col-\*



#### **STACKED TO HORIZONTAL**

.col-sm-\*

col-sm-8		col-sm-4
col-sm	col-sm	col-sm

## **MIX AND MATCH**

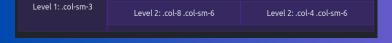
.col-md-8		.col-6 .col-md-4
.col-6 .col-md-4	.col-6 .col-md-4	.col-6 .col-md-4
.col-6		.col-6

## **ROW COLUMNS**

.row-cols-\*

Column	Column
Column	Column

#### **NESTING**



## **HOW IT WORKS**

- Our grid supports six responsive breakpoints.
- Containers center and horizontally pad your content.
- Rows are wrappers for columns.
- Columns are incredibly flexible.
- Gutters are also responsive and customizable.
- Sass variables, maps, and mixins power the grid.

## **AUTO-LAYOUT** COLUMNS.col-sm-6

#### **EQUAL-WIDTH**

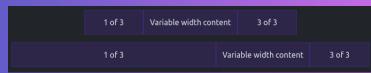
1 of 2		2 of 2
1 of 3	2 of 3	3 of 3

#### SETTING ONE COLUMN WIDTH

1 of 3	2 of 3 (wider)	3 of 3
1 of 3	2 of 3 (wider)	3 of 3

#### VARIABLE WIDTH CONTENT

col-{breakpoint}-auto



**CSS** 

#### SASS VARIABLES

\$grid-columns: 12 \$grid-gutter-width: 1.5rem \$grid-row-columns: 6

> **\$grid-breakpoints:** ( xs: 0, sm: 576px, md: 768px, lg: 992px, xl: 1200px, xxl: 1400px

Scontainer-max-widths: ( sm: 540px, md: 720px, lg: 960px, xl: 1140px, xxl: 1320px

## **SASS MIXINS**

// Creates a wrapper for a series of columns @include make-row();

// Make the element grid-ready (applying everything but the width) @include make-col-ready();

// Without optional size values, the mixin will create equal columns (similar to using .col) @include make-col(); einclude make-col(\$size, \$columns: \$gridcolumns);

// Offset with margins einclude make-col-offset(\$size, \$columns: \$grid-

**GRID TIERS** 

## **CUSTOMIZING THE GRID**

**\$grid-breakpoints:** (

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\$grid-columns: 12 !default

\$grid-gutter-width: 1.5rem !default \$grid-row-columns: 6 !default

xs: 0, sm: 480px, md: 768px, **\$container-max-widths:** ( lg: 1024px sm: 420px, md: 720px, lg: 960px

**)**;