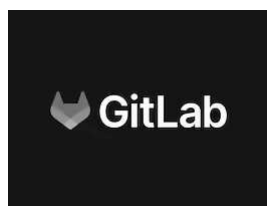


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Spacing

Bootstrap includes a wide range of shorthand responsive margin, padding, and gap utility classes to modify an element's appearance.



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Margin and padding

Assign responsive-friendly `margin` or `padding` values to an element or a subset of its sides with shorthand classes. Includes support for individual properties, all properties, and vertical and horizontal properties. Classes are built from a default Sass map ranging from `.25rem` to `3rem`.

Using the CSS Grid layout module? Consider using [the gap utility](#) instead.

Notation

Spacing utilities that apply to all breakpoints, from `xs` to `xxl`, have no breakpoint abbreviation in them. This is because those classes are applied from `min-width: 0` and up, and thus are not bound by a media query. The remaining breakpoints, however, do include a breakpoint abbreviation.

The classes are named using the format `{property}{sides}-{size}` for `xs` and `{property}{sides}-{breakpoint}-{size}` for `sm`, `md`, `lg`, `xl`, and `xxl`.

Where *property* is one of:

- `m` - for classes that set margin

- `p` - for classes that set padding

Where *sides* is one of:

- `t` - for classes that set margin-top or padding-top
- `b` - for classes that set margin-bottom or padding-bottom
- `s` - (start) for classes that set margin-left or padding-left in LTR, margin-right or padding-right in RTL
- `e` - (end) for classes that set margin-right or padding-right in LTR, margin-left or padding-left in RTL
- `x` - for classes that set both `*-left` and `*-right`
- `y` - for classes that set both `*-top` and `*-bottom`
- `blank` - for classes that set a margin or padding on all 4 sides of the element

Where *size* is one of:

- `0` - for classes that eliminate the margin or padding by setting it to `0`
- `1` - (by default) for classes that set the margin or padding to `$spacer * .25`
- `2` - (by default) for classes that set the margin or padding to `$spacer * .5`
- `3` - (by default) for classes that set the margin or padding to `$spacer`
- `4` - (by default) for classes that set the margin or padding to `$spacer * 1.5`
- `5` - (by default) for classes that set the margin or padding to `$spacer * 3`
- `auto` - for classes that set the margin to `auto`

(You can add more sizes by adding entries to the `$spacers` Sass map variable.)

Examples

Here are some representative examples of these classes:

```
.mt-0 {
  margin-top: 0 !important;
}

.ms-1 {
  margin-left: ($spacer * .25) !important;
}

.px-2 {
  padding-left: ($spacer * .5) !important;
  padding-right: ($spacer * .5) !important;
}

.p-3 {
```

```
padding: $spacer !important;
}
```

Horizontal centering

Additionally, Bootstrap also includes an `.mx-auto` class for horizontally centering fixed-width block level content—that is, content that has `display: block` and a width set—by setting the horizontal margins to `auto`.

Centered element

```
<div class="mx-auto p-2" style="width: 200px;">
  Centered element
</div>
```

Negative margin

In CSS, `margin` properties can utilize negative values (`padding` cannot). These negative margins are **disabled by default**, but can be enabled in Sass by setting `$enable-negative-margins: true`.

The syntax is nearly the same as the default, positive margin utilities, but with the addition of `n` before the requested size. Here's an example class that's the opposite of `.mt-1`:

```
.mt-n1 {
  margin-top: -0.25rem !important;
}
```

Gap

When using `display: grid` or `display: flex`, you can make use of `gap` utilities on the parent element. This can save on having to add margin utilities to individual children of a grid or flex container. Gap utilities are responsive by default, and are generated via our utilities API, based on the `$spacers` Sass map.

Grid item 1

Grid item 2

Grid item 3

Grid item 4

HTML



```
<div class="grid gap-3">
  <div class="p-2 g-col-6">Grid item 1</div>
  <div class="p-2 g-col-6">Grid item 2</div>
  <div class="p-2 g-col-6">Grid item 3</div>
  <div class="p-2 g-col-6">Grid item 4</div>
</div>
```

Support includes responsive options for all of Bootstrap’s grid breakpoints, as well as six sizes from the \$spacers map (0–5). There is no `.gap-auto` utility class as it’s effectively the same as `.gap-0`.

row-gap

`row-gap` sets the vertical space between children items in the specified container.

Grid item 1

Grid item 2

Grid item 3

Grid item 4

HTML



```
<div class="grid gap-0 row-gap-3">
  <div class="p-2 g-col-6">Grid item 1</div>
  <div class="p-2 g-col-6">Grid item 2</div>
  <div class="p-2 g-col-6">Grid item 3</div>
  <div class="p-2 g-col-6">Grid item 4</div>
</div>
```

column-gap

`column-gap` sets the horizontal space between children items in the specified container.

Grid item 1	Grid item 2
Grid item 3	Grid item 4

HTML



```
<div class="grid gap-0 column-gap-3">
  <div class="p-2 g-col-6">Grid item 1</div>
  <div class="p-2 g-col-6">Grid item 2</div>
  <div class="p-2 g-col-6">Grid item 3</div>
  <div class="p-2 g-col-6">Grid item 4</div>
</div>
```

CSS

Sass maps

Spacing utilities are declared via Sass map and then generated with our utilities API.

scss/_variables.scss



```
$spacer: 1rem;
$spacers: (
  0: 0,
  1: $spacer * .25,
  2: $spacer * .5,
  3: $spacer,
  4: $spacer * 1.5,
  5: $spacer * 3,
);
```

Sass utilities API

Spacing utilities are declared in our utilities API in `scss/_utilities.scss`. [Learn how to use the utilities API.](#)

scss/_utilities.scss



```
"margin": (
  responsive: true,
  property: margin,
  class: m,
  values: map-merge($spacers, (auto: auto))
),
"margin-x": (
  responsive: true,
  property: margin-right margin-left,
  class: mx,
  values: map-merge($spacers, (auto: auto))
),
"margin-y": (
  responsive: true,
  property: margin-top margin-bottom,
  class: my,
  values: map-merge($spacers, (auto: auto))
),
"margin-top": (
  responsive: true,
  property: margin-top,
  class: mt,
  values: map-merge($spacers, (auto: auto))
),
"margin-end": (
  responsive: true,
  property: margin-right,
  class: me,
  values: map-merge($spacers, (auto: auto))
),
"margin-bottom": (
  responsive: true,
  property: margin-bottom,
  class: mb,
  values: map-merge($spacers, (auto: auto))
),
"margin-start": (
  responsive: true,
  property: margin-left,
  class: ms,
  values: map-merge($spacers, (auto: auto))
),
// Negative margin utilities
"negative-margin": (
  responsive: true,
  property: margin,
  class: m,
  values: $negative-spacers
```

```
),
"negative-margin-x": (
  responsive: true,
  property: margin-right margin-left,
  class: mx,
  values: $negative-spacers
),
"negative-margin-y": (
  responsive: true,
  property: margin-top margin-bottom,
  class: my,
  values: $negative-spacers
),
"negative-margin-top": (
  responsive: true,
  property: margin-top,
  class: mt,
  values: $negative-spacers
),
"negative-margin-end": (
  responsive: true,
  property: margin-right,
  class: me,
  values: $negative-spacers
),
"negative-margin-bottom": (
  responsive: true,
  property: margin-bottom,
  class: mb,
  values: $negative-spacers
),
"negative-margin-start": (
  responsive: true,
  property: margin-left,
  class: ms,
  values: $negative-spacers
),
// Padding utilities
"padding": (
  responsive: true,
  property: padding,
  class: p,
  values: $spacers
),
"padding-x": (
  responsive: true,
  property: padding-right padding-left,
  class: px,
  values: $spacers
```

```
),
"padding-y": (
  responsive: true,
  property: padding-top padding-bottom,
  class: py,
  values: $spacers
),
"padding-top": (
  responsive: true,
  property: padding-top,
  class: pt,
  values: $spacers
),
"padding-end": (
  responsive: true,
  property: padding-right,
  class: pe,
  values: $spacers
),
"padding-bottom": (
  responsive: true,
  property: padding-bottom,
  class: pb,
  values: $spacers
),
"padding-start": (
  responsive: true,
  property: padding-left,
  class: ps,
  values: $spacers
),
// Gap utility
"gap": (
  responsive: true,
  property: gap,
  class: gap,
  values: $spacers
),
"row-gap": (
  responsive: true,
  property: row-gap,
  class: row-gap,
  values: $spacers
),
"column-gap": (
  responsive: true,
  property: column-gap,
  class: column-gap,
```



```
values: $spacers
),
```

Bootstrap

Designed and built with all the love in the world by the [Bootstrap team](#) with the help of our contributors.

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Currently v5.3.0.

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