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Grid system

Use our powerful mobile-first flexbox grid to build layouts of all shapes and sizes thanks to a twelve column system, five default responsive tiers, Less variables and mixins, and dozens of predefined classes.

About

Metro 4 grid system uses a series of containers, rows, and columns to layout and align content.

1	2	3	4	5	6	7	8	9	10	11	12
cell-3			cell-3			cell-3			cell-3		
				cell-4 + offset-4							
cell-3						cell-6 + offset-3					
				cell-4 + offset-4				1	1	1	1
nested			nested			nested			nested		

```
<div class="grid">
    <div class="row">
        <div class="cell"><div>1</div></div>
        <div class="cell"><div>2</div></div>
        <div class="cell"><div>3</div></div>
        <div class="cell"><div>4</div></div>
        <div class="cell"><div>5</div></div>
        <div class="cell"><div>6</div></div>
        <div class="cell"><div>7</div></div>
        <div class="cell"><div>8</div></div>
        <div class="cell"><div>9</div></div>
        <div class="cell"><div>10</div></div>
        <div class="cell"><div>11</div></div>
        <div class="cell"><div>12</div></div>
    </div>
    <div class="row">
        <div class="cell-3"><div>cell-3</div></div>
        <div class="cell-3"><div>cell-3</div></div>
        <div class="cell-3"><div>cell-3</div></div>
        <div class="cell-3"><div>cell-3</div></div>
    </div>
    <div class="row">
        <div class="cell-4 offset-4"><div>cell-4 + offset-4</div></div>
    </div>
    <div class="row">
        <div class="cell-3"><div>cell-3</div></div>
        <div class="cell-6 offset-3"><div>cell-6 + offset-3</div></div>
    </div>
    <div class="row">
        <div class="cell-4 offset-4"><div>cell-4 + offset-4</div></div>
        <div class="cell"><div>1</div></div>
        <div class="cell"><div>1</div></div>
        <div class="cell"><div>1</div></div>
        <div class="cell"><div>1</div></div>
    </div>
    <div class="row">
        <div class="cell">
            <div class="row">
                <div class="cell"><div>nested</div></div>
                <div class="cell"><div>nested</div></div>
                <div class="cell"><div>nested</div></div>
                <div class="cell"><div>nested</div></div>
            </div>
        </div>
    </div>
</div>
```

How it works

Metro 4 grid system uses a series of containers, rows, and columns to layout and align content. It's built with flexbox and is fully responsive. Below is an example and an in-depth look at how the grid comes together.

One of three columns	One of three columns	One of three columns

The above example creates three equal-width columns on small, medium, large, and extra large devices using our predefined grid classes. Those columns are centered in the page with the parent `.container`.

Breaking it down, here's how it works:

- Containers provide a means to center your site's contents. Use `.container` for fixed width or `.container-fluid` for full width.
- User rows grouping with `.grid` container
- Rows are horizontal groups of columns that ensure your columns are lined up properly. We use the negative margin method on `.row` to ensure all your content is aligned properly down the left side.
- Content should be placed within columns, and only columns may be immediate children of rows.

Table of contents

- Grid columns without a set width will automatically layout with equal widths. For example, four instances of `.cell-sm` will each automatically be `25%` wide for small breakpoints.
- Column classes indicate the number of columns you'd like to use out of the possible 12 per row. So, if you want three equal-width columns, you can use `.cell-sm-4` .
- Column widths are set in percentallyes, so they're always fluid and sized relative to their parent element.
- Columns have horizontal padding to create the gutters between individual columns, however, you can remove the margin from rows and padding from columns with `.no-gap` on the `.row` or on the `.grid` for all rows in grid.
- There are five grid tiers, one for each responsive breakpoint: small (sm), medium (md), large (lg), extra large (xl) and ultra large (xxl).
- Grid tiers are based on minimum widths, meaning they apply to that one tier and all those above it (e.g., `.cell-md-4` applies to medium, large, extra large and ultra large devices).
- You can use predefined grid classes for more semantic markup.

```
<!-- Grouping rows -->
<div class="grid">
    <div class="row">
        <div class="cell"></div>
        ...
        <div class="cell"></div>
    </div>
    ...
    <div class="row">
        <div class="cell"></div>
        ...
        <div class="cell"></div>
    </div>
</div>

<!-- Single row -->
<div class="row">
    <div class="cell"></div>
    ...
    <div class="cell"></div>
</div>

<!-- Nested row -->
<div class="row">
    <div class="cell">
        <div class="row">
            <div class="cell"></div>
            ...
            <div class="cell"></div>
        </div>
    </div>
</div>
```

Colspan

If you need to combine columns, there are appropriate classes for this: `.cell-1` through `.cell-12` and specific media offsets `.cell-*-1` through `.cell-*-12` .

<table>
<tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td colspan="2">colspan2</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td colspan="3">colspan3</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td colspan="4">colspan4</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
</table>

```
<div class="row">
    <div class="cell-4"></div>
    <div class="cell-4"></div>
    <div class="cell-4"></div>
</div>
<div class="row">
    <div class="colspan-4"></div>
    <div class="colspan-4"></div>
    <div class="colspan-4"></div>
</div>
```

Offset

If you need to shift the column, there are appropriate classes for this: `.offset-1` through `.offset-12` and specific media offsets `.offset-*-1` through `.offset-*-12` .

<table>
<tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td></td><td colspan="11">offset1</td></tr>
<tr><td></td><td></td><td colspan="10">offset2</td></tr>
<tr><td></td><td></td><td></td><td colspan="9">offset3</td></tr>
</table>

```
<div class="row">
    <div class="cell offset-1"></div>
</div>
<div class="row">
    <div class="cell offset-2"></div>
</div>
<div class="row">
    <div class="cell offset-3"></div>
</div>
```

Media columns

There are five grid tiers, one for each responsive breakpoint: small (sm), medium (md), large (lg), extra large (xl) and ultra large (xxl).

Breakpoints	min-width
sm	576px
md	768px
lg	992px
xl	1200px
xxl	1452px

You can use predefined grid classes for more semantic markup.

Target	Media	Example
colspan	cell-@-*	cell-md-3
offset	offset-@-*	offset-md-3
ordering	order-@-*	order-md-3
width auto	cell-@-auto	cell-md-auto
width 100%	cell-@-full	cell-md-full
width 100%	cell-@	cell-md
width 25%	cell-@-quarter	cell-md-quarter
width 50%	cell-@-half	cell-md-half
width 1/3	cell-@-one-third	cell-md-one-third
width 2/3	cell-@-two-third	cell-md-two-third

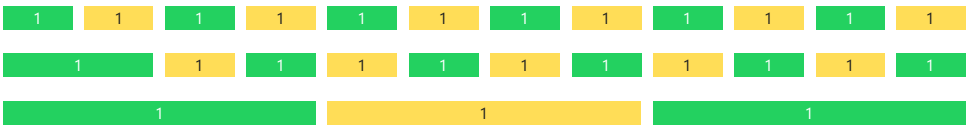
1	1	1	1

```
<div class="row">
    <div class="cell-sm-full cell-md-one-third cell-lg-3"></div>
    <div class="cell-sm-full cell-md-two-third cell-lg-3"></div>
    <div class="cell-sm-full cell-md-half cell-lg-3"></div>
    <div class="cell-sm-full cell-md-half cell-lg-3"></div>
</div>
```

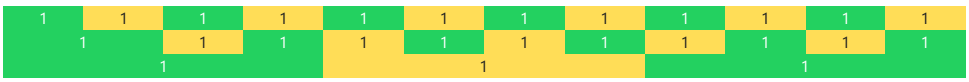
Gaps

The gaps between columns in our predefined grid classes can be removed with `.no-gap`. This removes the negative margins from `.row` and the horizontal padding from all immediate children columns.

With gaps



No gaps



```
<div class="grid no-gap">...</div>
<div class="row no-gap">...</div>
```

Stub column

With class `.stub` you can create column with fixed width.

Stub column	1

```
<div class="row">
    <div class="stub" style="width: 300px"></div>
    <div class="cell"></div>
</div>
```

Ordering

You can use classes `.order-*` to set order columns.

Order 1	Order 2

```
<div class="row">
    <div class="cell order-2">Order 2</div>
    <div class="cell order-1">Order 1</div>
</div>
```

Nested rows

Metro 4 supports nested rows.

Cell 1	Cell 2	Cell 2	Cell 3
Nested row	Nested row / Nested row / Nested row / Nested row / Nested row / Nested row		Nested row
Nested row	Nested row		Nested row
Nested row	Nested row		Nested row
Nested row	Nested row		Nested row

```
<div class="row">
    <div class="cell">
        <div class="row">
            <div class="cell"></div>
            ...
            <div class="cell"></div>
        </div>
    </div>
</div>
```

Alignment columns

To vertical and horizontal align column you can use flexbox alignment utilities classes.

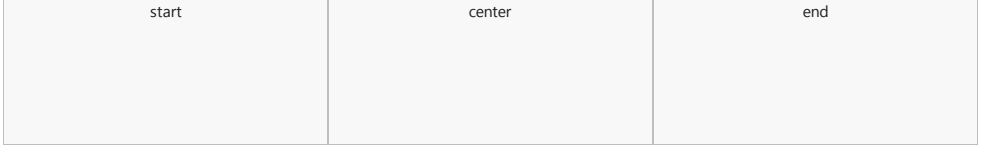
Vertical alignment

For vertical alignment all cells in a row: `.flex-align-start`, `.flex-align-end`, `.flex-align-center`, `.flex-align-stretch`, `.flex-align-baseline`,

For vertical alignment self cell in a row: `.flex-align-self-start`, `.flex-align-self-end`, `.flex-align-self-center`, `.flex-align-self-stretch`, `.flex-align-self-baseline`,

cell	cell	cell
cell	cell	cell
cell	cell	cell

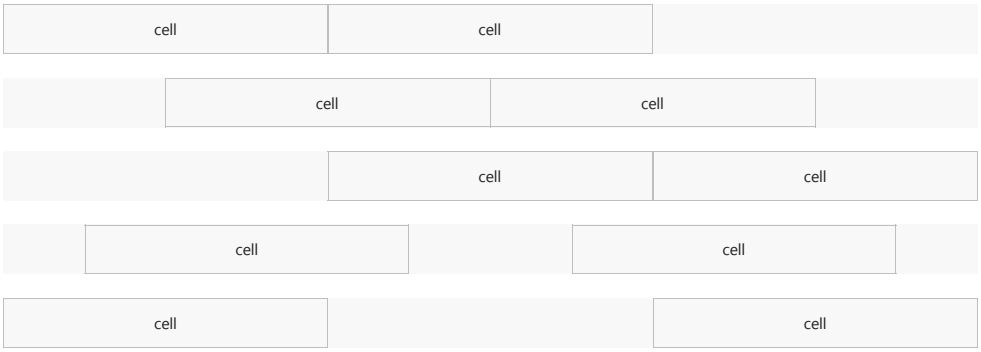
```
<div class="row flex-align-start">
    <div class="cell"></div>
    <div class="cell"></div>
    <div class="cell"></div>
</div>
<br/>
<div class="row flex-align-center">
    <div class="cell"></div>
    <div class="cell"></div>
    <div class="cell"></div>
</div>
<br />
<div class="row flex-align-end">
    <div class="cell"></div>
    <div class="cell"></div>
    <div class="cell"></div>
</div>
```




```
<div class="row">
    <div class="cell flex-align-self-start"></div>
    <div class="cell flex-align-self-center"></div>
    <div class="cell flex-align-self-end"></div>
</div>
```

Horizontal alignment

For horizontal alignment cells in a row: `.flex-justify-start` , `.flex-justify-end` , `.flex-justify-center` , `.flex-justify-between` , `.flex-justify-around` ,



Also you can use media alignment classes such as `.flex-align-start-*` , `.flex-justify-start-*` where asterisk is responsive breakpoint (sm, md, lg, xl, xxl)