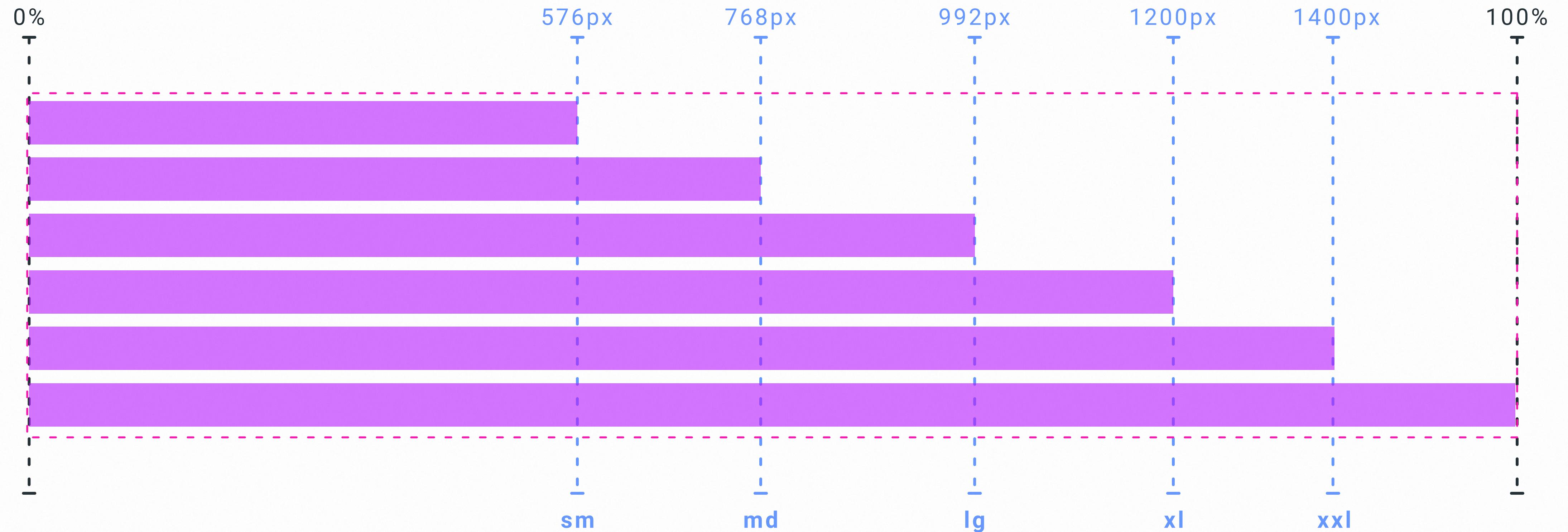


Bootstrap Breakpoints

Bootstrap is a popular CSS framework for responsive mobile design. There are different breakpoints in bootstrap CSS framework.



Naming Convention

The naming convention for bootstrap class based CSS are separated with –

property-breakpoint-value

Bootstrap Hierarchy

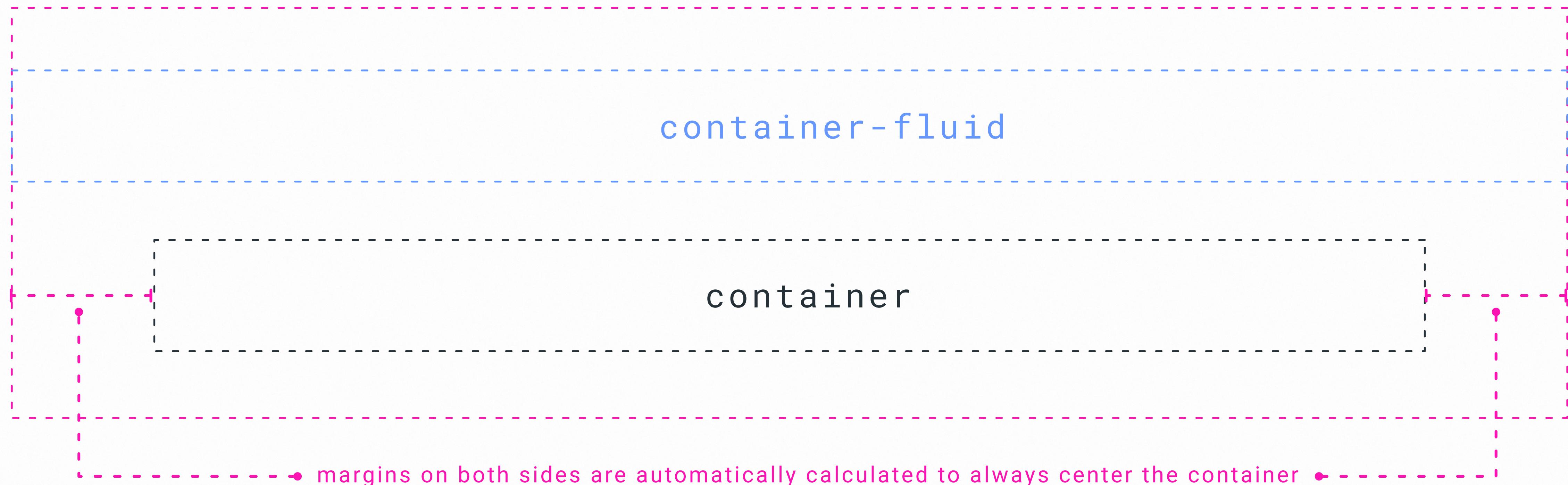
Everything is wrapped inside a big container nested with rows and columns.

```
<div class="container">
  <div class="row">
    <div class="col">
      ...
    </div>
  </div>
</div>
```

Bootstrap Container

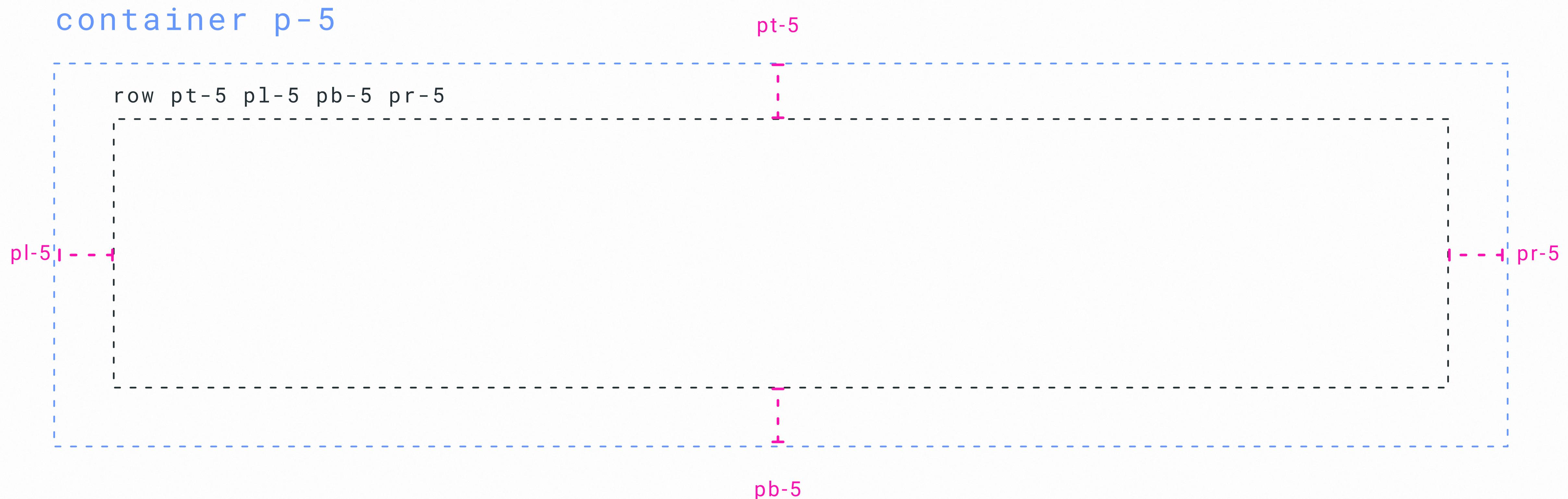
Bootstrap containers are the main parent element that holds the rows and columns inside them.

View Port



Bootstrap Rows

Rows are the child wrapper inside the main container which holds columns. Each container can also hold multiple rows.



Bootstrap Columns

12 column grid system is the standard in bootstrap

container



Bootstrap Spacing Value

Spacing value is calculated based on the root HTML font-size that is 16px

p-0	x0.0	0px
p-1	x0.25	4px
p-2	x0.5	8px
p-3	x1.0	16px
p-4	x1.5	24px
p-5	x3.0	48px

```
html {  
  font-size: 16px;  
}
```

Bootstrap Spacing

Spacing columns in different breakpoints are used with keywords such as **p** and **m** with **x, y** and **t, r, b, l** (top, right, bottom, left) directions.

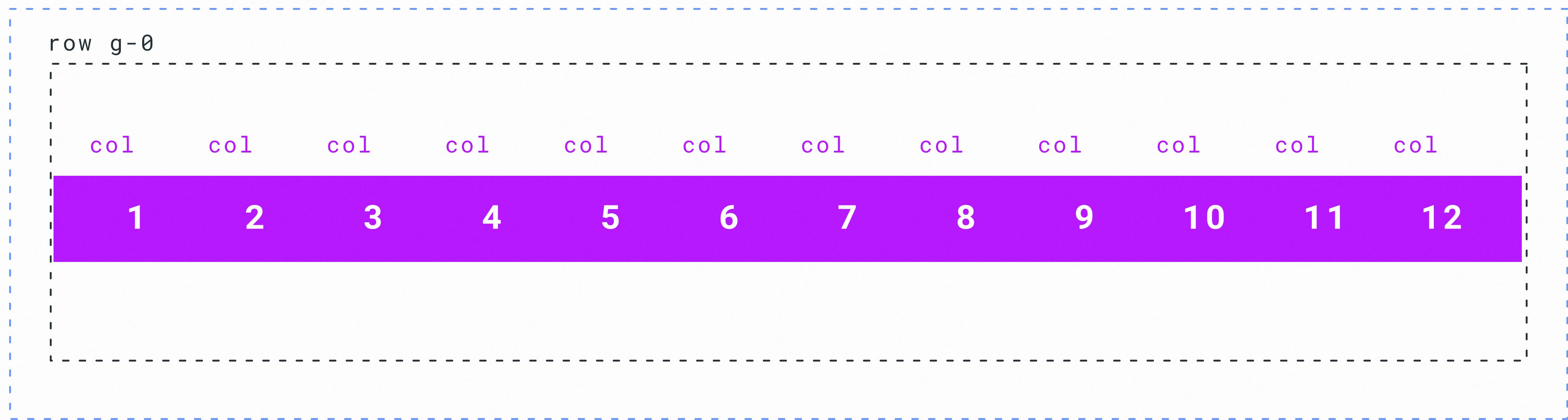
property(direction)-breakpoint-value

Padding all sides	<code>•-----• p-0 •-----•</code>	Padding 0 to 5
	<code>py-2</code>	Padding top & bottom 0 to 5
Padding left	<code>•-----• pl-sm-5</code>	
	<code>m-4</code>	Margin 0 to 5
Margin right	<code>•-----• mr-lg-3</code>	
	<code>mx-xl-4</code>	Margin left & right

Bootstrap Gutters

Gutters will follow the same convention as spacing. Default spacing can be removed between columns in a bootstrap row by applying **g-0** class

container



Bootstrap Order

Positioning columns in different breakpoints are used with keywords such as `order` classes

property-breakpoint-value

- `order-0` ----- • Order 0 to 12
- `order-sm-6`
- `order-first`
- `order-last`
- `order-xxl-2`

Bootstrap Offset

You can add extra margin to columns and offset them in different breakpoints using `offset` classes

property-breakpoint-value

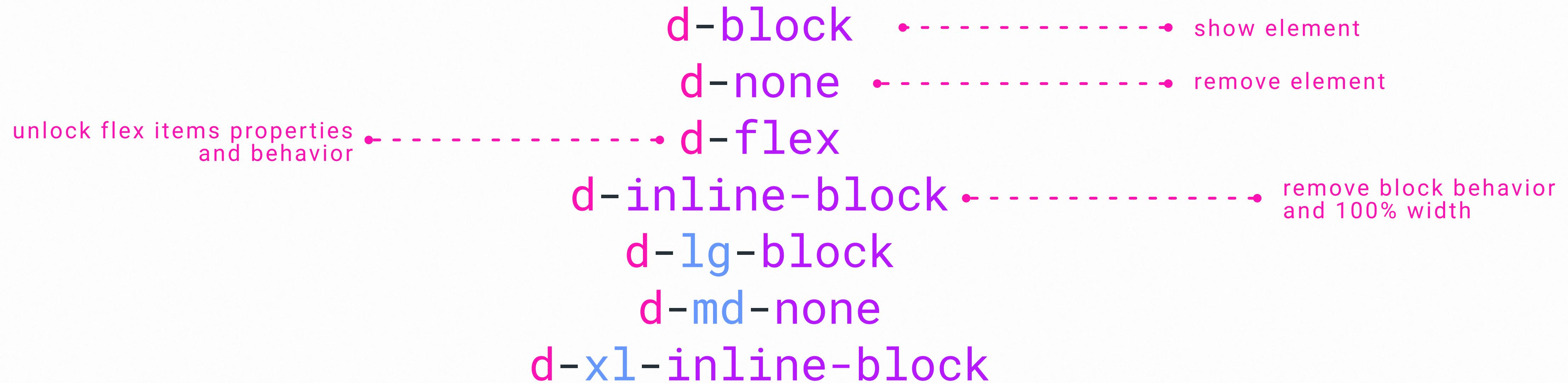
`offset-11`

`offset-md-0` ----- • Offset 0 to 11
`offset-lg-5`

Bootstrap Display

Using the keyword class `d` for `display` property.

property-breakpoint-value



Bootstrap Alignment

You can align items using the flexbox properties with 2 of most popular alignment classes `justify-content-center` & `align-items-center`

property-breakpoint-value

`justify-content-center`

`align-items-center`

`justify-content-xxl-between`

`align-self-lg-end`

`align-content-md-start`

`justify-content-sm-around`

Bootstrap Nested Columns

Nesting rows within columns will turn the columns into parent containers

container

