Bootstrap Container Class and Grid System

Containers are used to pad the content inside of them, and there are two container classes available in Bootstrap:

1. The .container class provides a responsive fixed width container
2. The .container-fluid class provides a full width container, spanning the entire width of the viewport.

By default, containers have 15px left and right padding, with no top or bottom padding. Therefore, we often use spacing utilities, such as extra padding and margins to make them look even better. For example, .pt-3 means "add a top padding of 16px".

Bootstrap's grid system allows up to 12 columns across the page. If you do not want to use all 12 columns together to create wider columns, the grid system is responsive, and the columns will re-arrange automatically depending

on the screen size. Examples are .span11, .span4, .span8, .span6, are .span12.

Grid Classes

The Bootstrap grid system has four classes

- -xs (for phones-screens less than 768px wide)
- -sm (for tablets-screens equal to or greater than 768px wide)
- -md (for small laptops-screens equal to or greater than 992px wide)
- -lg (for laptops and desktops-screen equal to or greater than 1200px wide)

The classes above can be combined to create more dynamic and flexible layouts.

Basic Structure of a Bootstrap Grid

The following is a basic structure of a Bootstrap grid

```
<div class="row">
 <div class="col-*-*"></div>
 <div class="col-*-*"></div>
</div>
```

First, create a row ( ). Then, add the desire number of columns (tags with appropriate .col-*-* classes). Note that numbers in .col-*-* should always add up to 12 for each row.

Example:

```
<div class="row">
 <div class="col-sm-4"> </div>
 <div class="col-sm-4"> </div>
 <div class="col-sm-4"> </div>
</div>
```

The above example shows how to get a three equal-width columns starting at tablets and scaling to large desktops. On mobile phones or screens that are less than 768px wide, the columns will automatically stack.

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