

Lesson 2: Learn about Containers in Bootstrap 5

Containers in Bootstrap are important when programming. Here's everything you need to know about containers in Bootstrap 5.

Containers in Bootstrap are important when programming. Here's everything you need to know about **containers in Bootstrap 5**.

What are Containers in Bootstrap?

In Bootstrap, containers are used to set margins for content. It contains row elements and the row element is the column's container. This is called a grid system. You have two container classes in Bootstrap, including:

1. `.container`
2. `.container-fluid`

The theory is like that, it's easiest to imagine, in more simple terms, Container creates a box containing other elements inside. This box has a width set according to the size of the display screen.

The table below illustrates how each container's max-width changes with each breakpoint.

For example, when using the `.container` class, the actual width of the container will be 100% if the viewport width is 576px, 540px if the viewport width is ≥ 576 px but less than 768px, 720px if the viewport width is ≥ 768 px but 992px, 960px if viewport width is ≥ 992 px but 1200px, 1140px if viewport width is ≥ 1200 px but 1400px, and 1320px if width is ≥ 1400 px.

Similarly when using class `.container-lg`, the actual width of the container will be 100% until the viewport width is 992px, 960px if the viewport width is ≥ 992 px but 1200px, 1140px if the viewport width is ≥ 1200 px but 1400px, and 1320px if viewport width ≥ 1400 px.

	X-Small	Small	Medium	Large	X-Large	XX-Large
Bootstrap's grid system	576px	≥ 576px	≥ 768px	≥ 992px	≥ 1200px	≥ 1400px
<code>.container</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-sm</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-md</code>	100%	100%	720px	960px	1140px	1320px
<code>.container-lg</code>	100%	100%	100%	960px	1140px	1320px
<code>.container-xl</code>	100%	100%	100%	100%	1140px	1320px

	X-Small	Small	Medium	Large	X-Large	XX-Large
Bootstrap's grid system	576px	?576px	?768px	?992px	?1200px	?1400px
<code>.container-xxl</code>	100%	100%	100%	100%	100%	1320px
<code>.container-fluid</code>	100%	100%	100%	100%	100%	100%

In this article, QuanTriMang will provide more detailed instructions on how to use containers and accompanying components in Bootstrap 5. Bootstrap 5 has 2 container classes for you to choose and use:

1. Class `.container` provides a responsive fixed-width container.



1. Class `.container-fluid` provides a full-width container that spans the entire width of the viewport.



Learn about 2 types of Containers in Bootstrap 5

Fixed container

Use class `.container` to create a responsive, fixed-width container.

Note that its width (max-width) will change on different screen sizes:

Screen size	max-width
Extra Small 576px	100%
Small ?576px	540px
Medium ?768px	720px

Large ?992px	960px
Extra Large ?1200px	1140px
XXL ?1400px	1320px

XXL (?1400px) is new in Bootstrap 5. On Bootstrap 4, only Extra large (?1200px) is supported.

For example , try using the following code, save it to an HTML file and try opening it in a browser window. Then adjust the window size to see the change!

Ví d? Bootstrap

QuanTriMang's first Bootstrap page

You can learn Bootstrap 5 and other programming software on QuanTriMang

Large container

Use class `.container-fluid` to create full width container with screen width (width is always 100%)

For example:

QuanTriMang's first Bootstrap page

You can learn Bootstrap 5 and other programming software on QuanTriMang

Additional components for the Container

Container padding intervals

By default, containers have left and right padding, no top/bottom padding. Therefore, we often need to use additional spacing facilities, such as additional *padding* and *margins* , to make them look better. For example, `.pt-5` it means "*padding top*". For example:

Border and color of Container

Other widgets, such as borders and colors, are also commonly used in conjunction with Containers.

Example 1:

TipsMake.com

This container has a border and some additional padding and margins.



Example 2:

TipsMake.com

The container has additional formatting of black background, white text and some padding/margin.



Example 3:

TipsMake.com

The container has additional formatting of a blue background, white text and some padding/margin.



You'll learn more about colors and border widgets in later articles!

Responsive Containers

You can also use classes `.container-sm` | `md` | `lg` | `xl` to determine when the container will be responsive.

`max-width` of the container will change on different screen/viewport sizes:

Class	Extra small 576px	Small ?576px	Medium ?768px	Large ?992px	Extra large ?1200px	XXL ?1400px
<code>.container-sm</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-md</code>	100%	100%	720px	960px	1140px	1320px
<code>.container-lg</code>	100%	100%	100%	960px	1140px	1320px
<code>.container-xl</code>	100%	100%	100%	100%	1140px	1320px
<code>.container-xxl</code>	100%	100%	100%	100%	100%	1320px

For example:

`.container-sm` `.container-md` `.container-lg` `.container-xl` `.container-xxl`

Example on website TipsMake.com.com:

Bootstrap Example

Containers meet

Resize the browser window to see the change.

`.container-sm` `.container-md` `.container-lg` `.container-xl` `.container-xxl`



As mentioned above, Bootstrap creates a series of predefined container classes to help you build the web layout you want. You can customize the predefined container classes by editing the Sass map (found in `_variables.scss`) owns them:

```
$container-max-widths: ( sm: 540px, md: 720px, lg: 960px, xl: 1140px, xxl: 1320px)
```

In addition to customizing Sass, you can also create your own containers by combining Sass like the example below:

```
// Source mixin @mixin make-container($padding-x: $container-padding-x) { width:
```

Above is good information on how to create basic containers using Bootstrap 5. Hope the article is useful to you.

You finished reading the article "**Lesson 2: Learn about Containers in Bootstrap 5**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.