

# Getting Started with Bootstrap

## Topics Covered:

- What is Bootstrap?
- What is Responsive web design?
- Advantages of using bootstrap.
- Different ways to use bootstrap.
- How to download bootstrap?
- How to use CDN in HTML documents?
- Advantages of using CDN.
- Containers.
- Types of containers.
- Important classes in containers.
- Responsive containers.

## Topics in Detail:

### What is bootstrap?

- Bootstrap is a free front-end framework for faster and easier web development.
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others, as well as optional JavaScript plugins.
- Bootstrap also gives you the ability to easily create responsive designs.

### Responsive Web design:

- Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

### Advantages of Bootstrap:

- Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- Mobile-first approach: In Bootstrap, mobile-first styles are part of the core framework
- Browser compatibility: Bootstrap 5 is compatible with all modern browsers (Chrome, Firefox, Edge, Safari, and Opera).

## How to use Bootstrap:

There are two ways to start using Bootstrap 5 on your own website.

- Download Bootstrap 5 from [getbootstrap.com](https://getbootstrap.com)
- Include Bootstrap 5 from a CDN

## Downloading Bootstrap:

- Go to <https://getbootstrap.com/>
- Follow the instructions in the document:  
<https://getbootstrap.com/docs/5.2/getting-started/download/>

## Bootstrap CDN:

- CDN stands for Content Delivery Network.
- The jsDelivr provides CDN support for Bootstrap's CSS and JavaScript.
- CDN can be included in the HTML code to use bootstrap.
- CDN Links:
  - `<!-- Latest compiled and minified CSS -->`  
`<link`  
`href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet">`
  - `<!-- Latest compiled JavaScript -->`  
`<script`  
`src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>`

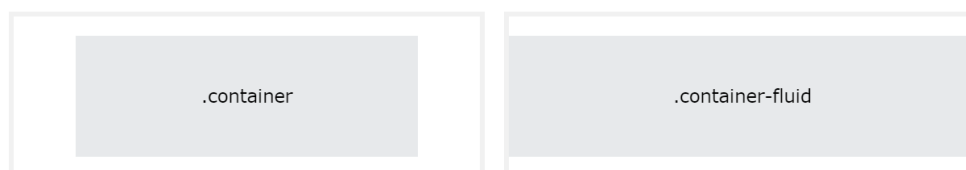
## Advantages of using CDN:

- Bootstrap from jsDelivr when visiting another site, it will be loaded from cache when they visit your site, which leads to faster loading time.
- Also, most CDN's will make sure that once a user requests a file from it, it will be served from the server closest to them, which also leads to faster loading time.

## Containers:

Bootstrap requires a containing element to wrap site contents. Containers are used to pad the content inside of them, and there are two container classes available:

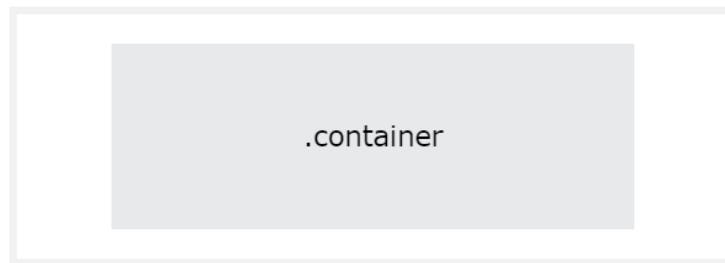
1. The **.container** class provides a responsive fixed width container
2. The **.container-fluid** class provides a full width container, spanning the entire width of the viewport



## Fixed Container:

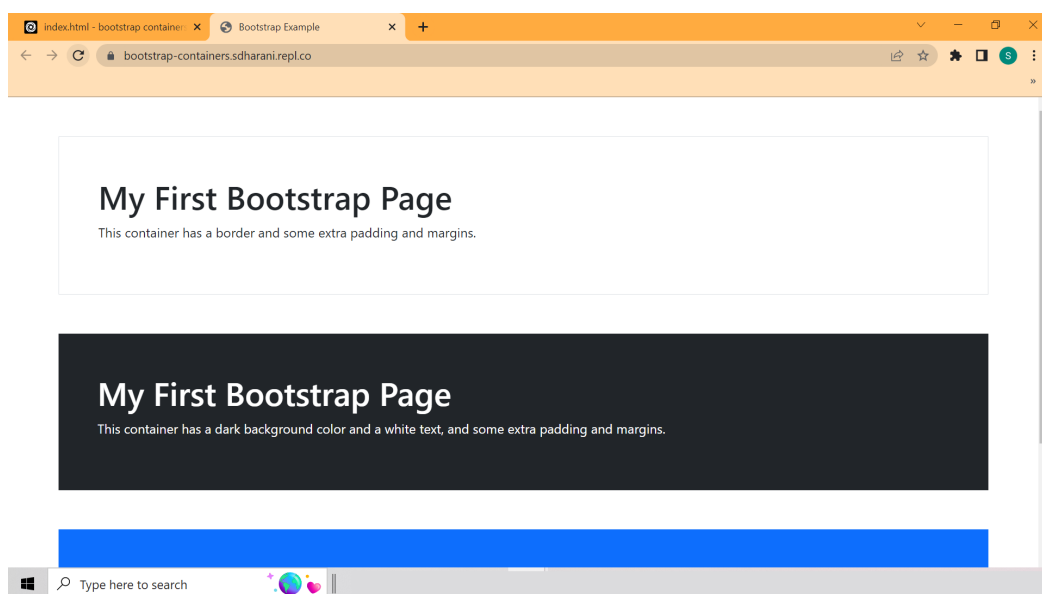
- Fixed Container is a **fixed-width** container.
- Fixed Container's width (max-width) will change on different screen sizes.

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra Large ≥1200px	XXL ≥1400px
max-width	100%	540px	720px	960px	1140px	1320px



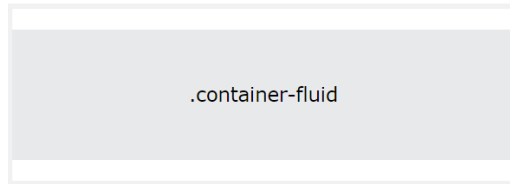
## Example:

```
<div class="container p-5 my-5 border">
  <h1>My First Bootstrap Page</h1>
  <p>This container has a border and some extra padding and margins.</p>
</div>
```



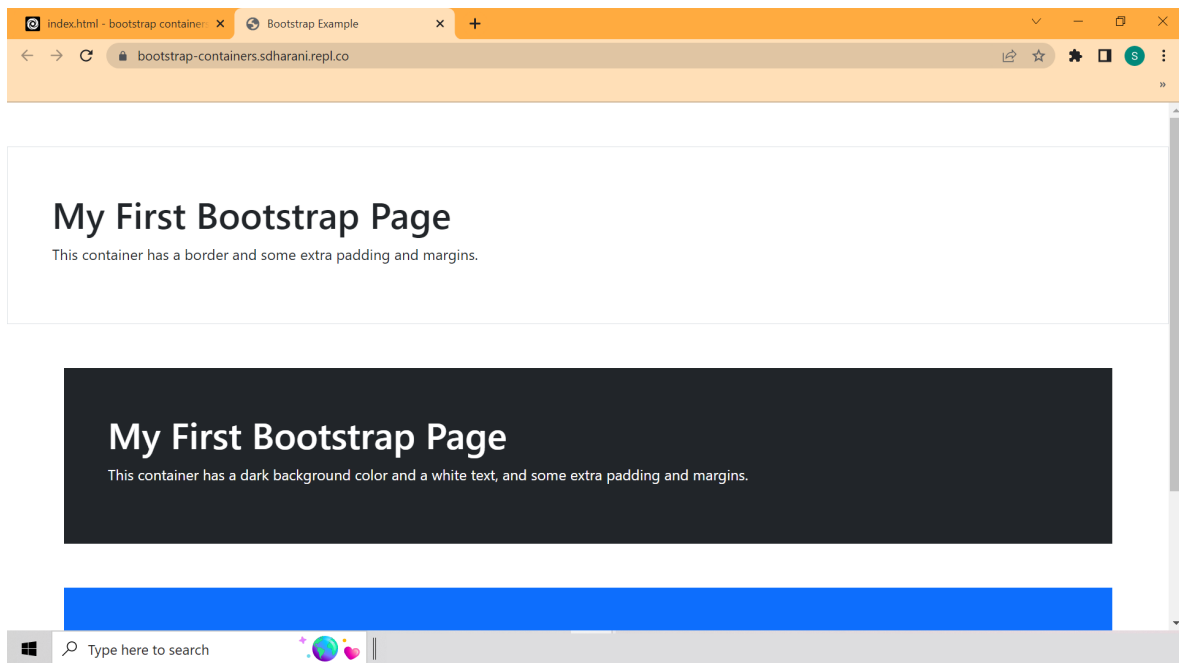
## Fluid Container:

- Fluid container is a full width container.
- Fluid containers will always span the entire width of the screen (width is always 100%).



## Example:

```
<div class="container-fluid p-5 my-5 border">
  <h1>My First Bootstrap Page</h1>
  <p>This container has a border and some extra padding and margins.</p>
</div>
```



Important classes:

Name	Class name	Description
Padding	<a href="#">pt-5</a>	Adds a large top padding
Margin	<a href="#">my-5</a>	Adds a large top margin
Border	<a href="#">border</a>	Adds border to the container.
Background Color Dark	<a href="#">bg-dark</a>	Adds a dark background color to the container.
Background Color Blue	<a href="#">bg-primary</a>	Adds a dark blue background color to the container.
Text color White	<a href="#">text-white</a>	Modifies the text color of the container to white.

Responsive Containers:

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