

Bootstrap 5

What is bootstrap?

- Bootstrap is a free, open source [front-end](#) development framework for the creation of websites and web apps.
- Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.
- Bootstrap makes responsive web design a reality.
- It makes it possible for a web page or app to detect the visitor's screen size and orientation and automatically adapt the display accordingly.

Bootstrap versions

- Bootstrap 3:

Bootstrap 3 is the most stable version of Bootstrap, and it is still supported by the team for critical bugfixes and documentation changes.

- Bootstrap 4 :

Bootstrap 4 is a newer version of Bootstrap; with new components, faster stylesheet and more responsiveness. However, Internet Explorer 9 and down is not supported.

- Bootstrap 5:

Bootstrap 5 is the newest version of Bootstrap, which is the most popular HTML, CSS, and JavaScript framework for creating responsive, mobile-first websites.

Where to get bootstrap 5?

You can include it from a CDN (Content Delivery Network).

- jsDelivr provides CDN support for Bootstrap's CSS and JavaScript.

```
<!-- Latest compiled and minified CSS -->
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
```

```
<!-- Latest compiled JavaScript -->
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
```

Bootstrap 5 containers

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.

Bootstrap 5 containers padding

By default, containers have 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.

Bootstrap 5 containers border and color

Example :

```
<div class="container p-5 border"></div>
```

```
<div class="container p-5 my-5 bg-dark text-white"></div>
```

```
<div class="container p-5 my-5 bg-primary text-white"></div>
```

Meaning pt means top padding.

my means margin y axis.

bg means background

text means text color

Responsive containers

The max-width of the container will change on the different screen sizes/viewport.

```
<div class="container-sm">.container-sm</div>
```

```
<div class="container-md">.container-md</div>
```

```
<div class="container-lg">.container-lg</div>
```

```
<div class="container-xl">.container-xl</div>
```

```
<div class="container-xxl">.container-xxl</div>
```


Bootstrap 5 Grid System

| | | | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 |
| span 4 | | | | span 4 | | | | span 4 | | | |
| span 4 | | | | span 8 | | | | | | | |
| span 6 | | | | | | span 6 | | | | | |
| span 12 | | | | | | | | | | | |

Grid classes

The Bootstrap 5 grid system has six classes:

- **.col-** (extra small devices - screen width less than 576px)
- **.col-sm-** (small devices - screen width equal to or greater than 576px)
- **.col-md-** (medium devices - screen width equal to or greater than 768px)
- **.col-lg-** (large devices - screen width equal to or greater than 992px)
- **.col-xl-** (xlarge devices - screen width equal to or greater than 1200px)
- **.col-xxl-** (xxlarge devices - screen width equal to or greater than 1400px)

Basic Structure of a Bootstrap 5 Grid

Example:

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

The first star (*) represents the responsiveness: sm, md, lg, xl or xxl, while the second star represents a number, which should add up to 12 for each row.

Bootstrap 5 Text/Typography

Classes are:

- **<h1> - <h6>**
- **<mark>**: Use the mark element to highlight text, with a yellow background color and some padding.
- **<abbr>**: Bootstrap 5 will style the HTML <abbr> element with a dotted border bottom and a cursor with question mark on hover.
- **<code>**: It defines a section in a document.
- **<kbd>**: Keyboard input.

Example :

<p>Use <kbd>ctrl + c</kbd> to stop Django server.</p>

- **<pre>**: Text in a pre element is displayed in a fixed-width font, and it preserves both spaces and line breaks.

Bootstrap 5 Text/Typography

| Class | Information |
|------------------|---|
| .lead | Makes a paragraph stand out |
| .text-start | Indicates left-aligned text |
| .text-center | Indicates center-aligned text |
| .text-end | Indicates right-aligned text |
| .text-break | Prevents long text from breaking layout. |
| .text-nowrap | Indicates no wrap text |
| .text-lowercase | Indicates lowercased text |
| .text-uppercase | Indicates uppercased text |
| .text-capitalize | Indicates capitalized text |
| .list-unstyled | Removes the default list-style and left margin on list items (works on both and). |
| .list-inline | Places all list items on a single line (used together with .list-inline-item on each elements) |

Bootstrap 5 Text Colors

Bootstrap 5 has some contextual classes that can be used to provide "meaning through colors".

The classes for text colors are:

1. `text-muted`
2. `text-primary`
3. `text-success`
4. `text-danger`
5. `text-info`
6. `text-secondary`
7. `text-warning`
8. `text-dark`
9. `text-light`
10. `text-white`
11. `text-body`(by default black)

Bootstrap 5 Background Colors

- The classes for background colors are:

I. bg-primary

II. bg-success

III. bg-info

IV. bg-warning

V. bg-danger

VI. bg-secondary

VII. bg-dark

VIII. bg-light(white)



Bootstrap 5 Pagination

- If you have a web site with lots of pages, you may wish to add some sort of pagination to each page.
- To create a basic pagination, add the .pagination class to an element. Then add the page-item to each element and a page-link class to each link inside .
- The activate class is used to "highlight" the current page.
- The disabled class is used for un-clickable links.

Bootstrap 5 Pagination

- Pagination Sizing

- `<ul class="pagination pagination-lg">`

- `<ul class="pagination pagination-md">`

- Pagination Alignment:

- I. `<ul class="pagination justify-content-center">`

- II. `<ul class="pagination justify-content-end">`

- III. `<ul class="pagination justify-content-start">`

Bootstrap 5 Breadcrumbs

- Another form for pagination, is breadcrumbs.
- Breadcrumbs and breadcrumb-items are classes indicates the current page's location within a navigational hierarchy.
- Example :

```
<ul class="breadcrumb">  
  <li class="breadcrumb-item"><a href="#">Hindi</a></li>  
  <li class="breadcrumb-  
item"><a href="#">English</a></li>  
  <li class="breadcrumb-item active">Marathi</li>  
</ul>
```

Bootstrap 5 Dropdowns

- A dropdown menu is a toggleable menu that allows the user to choose one value from a predefined list.
- A dropdown class indicates a dropdown menu.
- To open the dropdown menu, use a button or a link with a class of dropdown-toggle and the data-bs-toggle.

Bootstrap 5 Dropdowns

```
<div class="dropdown">
  <button type="button" class="btn btn-primary dropdown-toggle" data-bs-
toggle="dropdown">
    Dropdown button
  </button>
  <ul class="dropdown-menu">
    <li><a class="dropdown-item" href="#">Link 1</a></li>
    <li><a class="dropdown-item" href="#">Link 2</a></li>
    <li><a class="dropdown-item" href="#">Link 3</a></li>
    <li><hr class="dropdown-divider"></li>
    <li><a class="dropdown-item" href="#">Another link</a></li>
  </ul>
</div>
```

Bootstrap 5 Collapse

- Basic Collapsible
- Collapsibles are useful when you want to hide and show large amount of content.

Bootstrap 5 Collapse

```
<button type="button" class="btn btn-primary" data-bs-toggle="collapse" data-bs-target="#demo">Simple collapsible</button>
```

```
<div id="demo" class="collapse">
```

```
#<div id="demo" class="collapse show">
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit,
 sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut
 enim ad minim veniam,

quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo
 consequat.

```
</div>
```

Bootstrap 5 Offcanvas

- Offcanvas is similar to [modals](#) (hidden by default and shown when activated), except that is often used as a sidebar navigation menu.

```
<div class="offcanvas offcanvas-start" id="demo">
  <div class="offcanvas-header">
    <h1 class="offcanvas-title">Heading</h1>
    <button type="button" class="btn-close" data-bs-dismiss="offcanvas"></button>
  </div>
  <div class="offcanvas-body">
    <p>Some text lorem ipsum.</p>
    <p>Some text lorem ipsum.</p>
    <p>Some text lorem ipsum.</p>
    <button class="btn btn-secondary" type="button">A Button</button>
  </div>
</div>
```



```
<div class="container-fluid mt-3">
```

```
  <h3>Offcanvas Sidebar</h3>
```

```
  <p>Offcanvas is similar to modals, except that it is often used as a sidebar.</p>
```

```
  <button class="btn btn-primary" type="button" data-bs-toggle="offcanvas" data-bs-target="#demo">
```

```
    Open Offcanvas Sidebar
```

```
  </button>
```

```
</div>
```

Bootstrap 5 Toasts

The toast component is like an alert box that is only shown for a couple of seconds when something happens (i.e. when the user clicks on a button, submits a form, etc.).

Bootstrap 5 Scrollspy

Scrollspy is used to automatically update links in a navigation list based on **scroll** position.