

## Bootstrap: Structuring Layout and Content

Bootstrap provides a responsive grid system and pre-styled components that make it easy to create layouts and structure content for different screen sizes. This powerful framework allows developers to build professional-looking websites and applications quickly and efficiently.



### Bootstrap Layout System

Containers

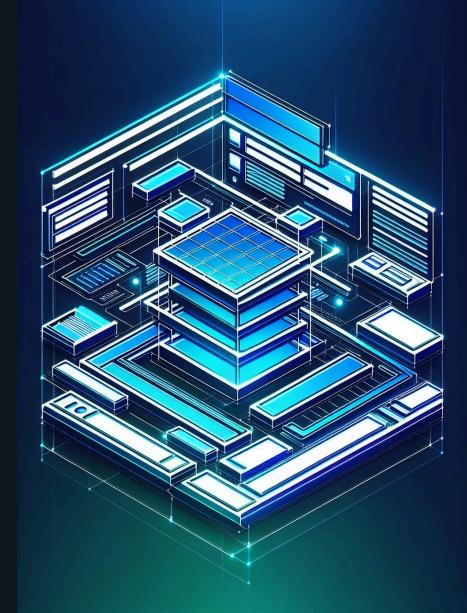
Bootstrap offers two types of containers: .container for fixed-width and .container-fluid for full-width spanning the entire viewport.

Rows

Inside containers, create rows using the .row class to hold and align columns.

Columns

Within rows, add columns using classes like .col-sm-4, .col-md-6, or .col-lg-8 to specify content span on different screen sizes.





# Bootstrap Grid System Example

Container	<div class="container"></div>
Row	<div class="row"></div>
Main Content	<div class="col-md-8"></div>
Sidebar	<div class="col-md-4"></div>

In this example, the main content will take up 8 columns (out of 12) on medium and large screens, while the sidebar will take up 4 columns.



# Bootstrap Content Components

Typography

Bootstrap includes styles for headings (<h1> to <h6>), paragraphs (), lists (, ), and more.

Images and Buttons

Use .img-fluid class for responsive images. Bootstrap offers several styles for buttons (e.g., .btn, .btn-primary, .btn-success) and button groups (.btn-group).

Navigation and Forms

Components for creating navigation bars (.navbar), breadcrumbs (.breadcrumb), and tab interfaces (.nav-tabs). Styles for form elements and layouts are also included.

Cards and Modals

The .card component is a flexible content container. The .modal component allows you to create pop-up dialog boxes for displaying important information or prompting user input.

#### Bootstrap Content Example

#### **Main Content**

```
<div class="col-md-8">
<h1>Welcome to My Website</h1>
This is a sample lead paragraph.
Here is some additional content...
<button class="btn btn-primary">Click Me</button>
</div>
```

#### Sidebar Content

```
<div class="col-md-4">
<div class="card">
<div class="card-body">
<h5 class="card-title">Sidebar Content</h5>
This is some sidebar content.
</div>
</div>
</div>
```

This example demonstrates the use of typography styles (<h1>, ), a button (.btn), and a card component (.card) to structure and style the content.