



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.

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Bootstrap Layout System

1

Containers

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

2

Rows

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

3

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">
```

Row

```
<div class="row">
```

Main Content

```
<div class="col-md-8">
```

Sidebar

```
<div class="col-md-4">
```

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

1 Typography

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

2 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.

4 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>  
<p class="lead">This is a sample lead paragraph.</p>  
<p>Here is some additional content...</p>  
<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>  
<p class="card-text">This is some sidebar content.</p>  
</div>  
</div>  
</div>
```

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