

# What is Bootstrap?

Bootstrap is a powerful frontend framework initially developed by **Twitter** to simplify and speed up responsive web development.

#### It includes:

- Predefined CSS classes for layout, typography, buttons, and more
- A responsive 12-column grid system
- Reusable JavaScript components like modals, carousels, and tooltips
- Easy integration with HTML and minimal custom CSS

### Why Bootstrap?

- Saves time writing custom CSS
- Ensures consistency across browsers and devices
- Mobile-first by default

# **How to Use Bootstrap**

CDN (Fastest Way)
 No installation required—simply copy-paste these links in your HTML <head> and before the </body> tag

```
<!-- CSS --> k href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet"> <!-- JS Bundle -->
```

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>

# **Grid System**

The 12-column grid system allows for building responsive layouts using rows and columns. It uses **flexbox** under the hood.

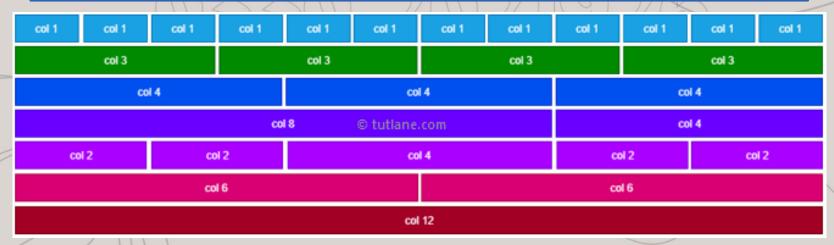
# **Key Concepts:**

- .container: fixed-width
- .container-fluid: full-width
- .row: wrapper for columns
- .col: equal column width (auto)
- .col-md-6: 6/12 columns for medium screens

### Tip:

col-xl-3 col-lg-5 col-md-5 col-sm-7 col-12

```
<div class="container">
  <div class="row">
    <div class="col-md-6 bg-primary text-white">Left Column</div>
    <div class="col-md-6 bg-success text-white">Right Column</div>
    </div>
  </div>
```



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# **Typography Utilities**

Bootstrap offers responsive and accessible typography classes:

- Headings (h1 to h6)
- .display-1 to .display-6
- .lead for larger paragraph
- .text-\* for alignment and color

```
<h1 class="display-1">Welcome</h1>
This is a lead paragraph.
```

Right aligned and muted

# **Color & Background Utilities**

Customize text and background quickly using utility classes:

• text-primary, text-danger, bg-light, bg-success Bootstrap uses a consistent color palette

```
This is an error message
<div class="bg-warning text-dark p-3">Warning Section</div>
```





#### **Buttons & Alerts**

- Buttons are customizable with classes like .btn, .btn-success, .btn-outline-danger, etc.
- Alerts are used for feedback messages.

<button class="btn btn-primary">Save</button>

## **Alert:**

```
<div class="alert alert-warning alert-dismissible fade show">
  Please check your input!
  <button class="btn-close" data-bs-dismiss="alert"></button>
  </div>
```

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#### **Forms**

Bootstrap form are styled out of the box and include:

- Inputs, textareas, checkboxes, radios
- Validation classes (is-valid, is-invalid)
- Label and input grouping

```
<form>
    <div class="mb-3">
        <label>Email address</label>
        <input type="email" class="form-control" required>
        </div>
        </form>
```

#### Cards

Cards are flexible containers for content—can include images, text, links, and footers. Combine with grid for layouts.

```
<div class="card" style="width: 18rem;">
  <img src="img.jpg" class="card-img-top">
    <div class="card-body">
      <h5 class="card-title">Project</h5>
      Short description.
      <a href="#" class="btn btn-primary">View</a>
      </div>
    </div>
```

# **Navbar**

A responsive navigation bar that collapses into a hamburger menu on mobile screens. You can add branding and links.

#### Carousel

A slideshow component for images and content with navigation controls and indicators.

# Web Development

### Resources

#### **Videos:**

- Traversy Media: Bootstrap 5 Crash Course
- freeCodeCamp Bootstrap Full Course

#### **Games:**

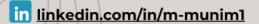
- Flexbox Froggy
- Grid Garden

# **Blogs:**

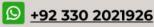
- Bootstrap Blog
- Smashing Magazine on Bootstrap

#### Websites:

- Bootstrap Official Docs
- Bootsnipp
- Codeply









# Web Development

#### **Submission Notes**

#### **Capture Evidence:**

- Take screenshots or record a short video for each task.
- Ensure your evidence clearly shows the completed task.

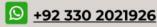
#### **Upload Tasks:**

• Upload each task as a separate folder or file in your GitHub repository.

#### **LinkedIn Post:**

- Create a short post summarizing what you learned and how you completed the tasks.
- Highlight your key takeaways.
- Mention the following account in your post:
- Muhammad Munim





# Thank You





