

## 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 other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive designs.

## What is 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.

## Why Use 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). Note that if you need support for IE11 and down, you must use either BS4 or BS3.

## How to include Bootstrap in your HTML Page :

- Include Bootstrap 5 from a CDN
  - If you don't want to download and host Bootstrap 5 yourself, you can include it from a CDN (Content Delivery Network).

- ❖ `<!-- Latest compiled and minified CSS -->`  
  
`<link  
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/boo  
tstrap.min.css" rel="stylesheet">`
- ❖ `<!-- Latest compiled JavaScript -->`  
  
`<script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/boots  
trap.bundle.min.js"></script>`

- Download Bootstrap 5 from [getbootstrap.com](https://getbootstrap.com)
  - If you want to download and host Bootstrap 5 yourself, go to <https://getbootstrap.com/>, and follow the instructions there.

## Create Your First Web Page With Bootstrap :

### 1. Add the HTML5 doctype

- a. Bootstrap 5 uses HTML elements and CSS properties that require the HTML5 doctype.
- b. Always include the HTML5 doctype at the beginning of the page, along with the lang attribute and the correct title and character set:

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <title>Bootstrap 5 Example</title>  
    <meta charset="utf-8">  
  </head>  
</html>
```

## 2.Bootstrap 5 is mobile-first

a.Bootstrap 5 is designed to be responsive to mobile devices. Mobile-first styles are part of the core framework.

b.To ensure proper rendering and touch zooming, add the following `<meta>` tag inside the `<head>` element:

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

- The `width=device-width` part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).
- The `initial-scale=1` part sets the initial zoom level when the page is first loaded by the browser.