Bootstrap # 1 Lect 7

* 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

Advantages of 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.

## Where to Get Bootstrap 5

There are two ways to start using Bootstrap 5 on your own web site.

* Include Bootstrap 5 from a CDN
* Download Bootstrap 5 from getbootstrap.com

## Bootstrap 5 CDN

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

jsDelivr provides CDN support for Bootstrap's CSS and JavaScript:

### **MaxCDN:**

<!-- 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>

One advantage of using the Bootstrap 5 CDN:

Many users already have downloaded Bootstrap 5 from jsDelivr when visiting another site. As a result, it will be loaded from cache when they visit your site, which leads to faster loading time. Also, most CDN's will make sure that once a user requests a file from it, it will be served from the server closest to them, which also leads to faster loading time.  
  
JavaScript?  
Bootstrap 5 uses JavaScript for different components (like modals, tooltips, popovers etc). However, if you just use the CSS part of Bootstrap, you don't need them.

## Downloading Bootstrap 5

If you want to download and host Bootstrap 5 yourself, go to <https://getbootstrap.com/>, and follow the instructions there.

Bootstrap 5 is mobile-first

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

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.

Containers

Bootstrap 5 also requires a containing element to wrap site contents.

There are two container classes to choose from:

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