Bootstrap

Peter D'hondt - 14/01/'21

Agenda

1. What is Bootstrap
2. Bootstrap origins
3. What is a CSS Framework
4. Advantages of using Bootstrap
5. Installation
6. Seeing is Believing: Demo!
7. Other CSS Frameworks
8. Additional resources
9. Q & A

What is Bootstrap

- A free and open-source CSS framework aimed at responsive, mobile-first front-end web development.
- It contains CSS- and (optionally) JavaScript-based design templates for all kinds of interface components like forms, buttons, navigation menus,...
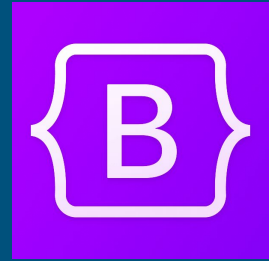
Bootstrap origins

- Created by a designer and a developer at Twitter in mid-2010 as a framework to encourage consistency across internal tools.
- Originally named Twitter Blueprint, renamed to Bootstrap and released as an open source project in August 2011 after many developers at Twitter started to contribute to the project.
- Current stable release is v4.5.3
- Beta v5.0.0 is already available for download

What is a CSS Framework

- Provides a lot of general, cross-browser, default styles
  - Default fonts, font sizes, paddings, margins, tables, images,...

- And a rich set of pre-defined CSS classes and components
  - Buttons, cards, forms, navigation bars,...

- Grid Layout
  - Page layout is basically a set of rows and columns

Advantages of using bootstrap

- TIME SAVER! Speeds up development (no need to begin from scratch)
- Supports responsive design
- Enables cross-browser functionality
- Consistency: it enforces good web design habits
- Gives you a clean and symmetrical layout
- Makes the styling workflow productive, clean and maintainable
- Customizable: you can use only a few features of bootstrap, and also customize them before you download (via https://getbootstrap.com/docs/3.4/customize/)
- Support: as the most popular CSS framework, it has a very large community base and excellent documentation, examples and demos, which speed up the learning process

Installation

There are 2 ways to add Bootstrap to your project:

1. Adding CDN (Content Delivery Network) links to your .html file in order to import the CSS styling from the CDN server.
   → the quickest and easiest way, and in most cases faster than using your local server (CDN's are highly optimized for reliability and speed)

2. Download the source files as a .zip file and extract this to your local project folder. When deploying your website to a web server, you will need to add these files as well.
   → files will always be reachable if your server is up (a CDN could potentially be down)
   → in general slower than using CDN's

Seeing is believing: installation & demo

Bootstrap alternatives

- [Tailwind CSS](#)
- [Materialize](#)
- [Material Design Lite](#)
- [Bulma](#)
- [Foundation](#)
- [Skeleton](#)
- [Semantic UI](#)
- [Pure.CSS](#)
- [UI kit](#)

Additional resources

- [Bootstrap Home](#)
- [Versions download](#)
- [Bootstrap Examples](#)
- [All Classes Cheat Sheet](#)

Questions?

Thank you!