Front-End Web UI Frameworks: An Introduction

Jogesh K. Muppala

THE DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
計算機科學及工程學系

香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Overview

- What are they?

- Why front-end frameworks?

- Popular front-end UI Frameworks

What are front-end UI frameworks

- Collection of ready-to-use HTML, CSS and JavaScript templates for UI components:
  - Typography, Forms, Buttons, Tables, Navigations, Dropdowns, Alerts, Modals, Tabs, Accordion, Carousel etc.

Why Front-End Web UI Frameworks?

- Responsive web design
  - Mobile first
- Cross-browser compatibility
  - Dealing with quirks of browsers
- Increased productivity
  - Easy to get started
- Community support
  - Resources and web page templates

Popular front-end UI frameworks

- Bootstrap
- Foundation by Zurb
- Semantic UI
- Pure
- UI Kit
- Gumby
- Susy
- And many more …

Introduction to Bootstrap

THE DEPARTMENT OF
COMPUTER **S**CIENCE & **E**NGINEERING
計算機科學及工程學系

香港科技大學
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY

Bootstrap Overview

Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web

- From the Bootstrap webpage

Bootstrap Overview

- Front-end framework for faster and easier web development

- 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

- Easily create responsive designs with mobile first approach

Bootstrap History

- First released in 2011
  - Mark Otto and Jacob Thornton
- Currently in Version 3.3.5
  - 4.0 soon to be out
- The first comprehensive framework
  - Gained popularity very quickly

Next

- Getting started with Bootstrap