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Bootstrap 4 Essential Training Notes

**Getting Started**

Introduction

* For smaller projects, install using a content delivery network (CDN) or the preprocessed Bootstrap CSS and JavaScript files
  + CDN is faster. Bootstrap code is saved on the user’s computer in cache.
  + Preprocessed installation allows you to do offline development (while CDN requires online development).

Other Installation Options

* Download source files…includes not just CSS and JavaScript, but also the files that the developers use to create Bootstrap. Only useful for contributing to Bootstrap or customizing Bootstrap.
* Package Managers (e.g. NPM, RubyGems, Composer, NuGet). Good for more complex projects.
* Download Boostrap manually at getbootstrap.com.

Creating a basic template

* You need to install Bootstrap and jQuery. For some versions of Bootstrap, you may need Popper.
* Use this starter template: <http://getbootstrap.com/docs/4.0/getting-started/introduction/>
  + (Use the template in the exercise files, 01\_03/index.html for offline development)
* A container is a Bootstrap class. It is a “div” with class property “container”.
  + It fits everything in the default grid in Bootstrap.
* Add additional stylesheets below the <link> to the bootstrap framework in the head section (not before). This lets it override default Bootstrap values.
* Bootstrap JS file is dependent on jQuery and Popper, so be sure to load that after them.

**Using Basic Styles**

Basic Styles Overview

* Things that affect how a page looks include browser defaults (browser styles)
  + Override those values first using Bootstrap CSS. Override Bootstrap CSS styles to make it look even better.
* Styles use a set of reset commands called reboot. Reboot makes styles consistent across different browsers and platforms.
  + Reboot uses rem instead of px (pixels) for font size. 1 rem == 16 px.
  + Reboot keeps style declarations to a minimum because it uses CSS’s ability to inherit styles whenever possible, making it easier to override styles.

Basic typography

* The Reboot.css portion of Bootstrap styles normalize styles so that they look similar in different devices and browsers.
* Uses Rems instead of Ems.
* Avoids margin-top. (Instead uses margin-bottom). So you will have to add spacing at the top of things.
* Uses the “inherit” property whenever possible.
* border-box sizing. 1:56