

WEB LIBRARIES

(AKA: FRAMEWORKS)

WHAT IS A LIBRARY?

- Starting point to build rich, complex websites and applications
- Usually free, open-sourced code
- Two main terms: **CSS library** and **JavaScript library**
- **CSS libraries**: set of well structured **CSS styles, grid classes**, and (sometimes) **JavaScript components**
- **JavaScript libraries**: controls, objects, and functions/methods to develop Single Page Applications (SPA)

COMMON CSS LIBRARIES

- Bootstrap
Twitter (getbootstrap.com)
- Foundation
Zurb (foundation.zurb.com)
- Skeleton
Dave Gamache (getskeleton.com)
- UIKit
YOOtheme (<https://getuikit.com>)
- Flexbox Grid
(<http://flexboxgrid.com>)

COMMON JAVASCRIPT LIBRARIES

- Angular.js
Google
- React.js
Facebook
- Vue.js
Evan You (Formerly of Google)
- Backbone
- Ember

REASONS TO USE A LIBRARIES

- Less code to write, save time and money
- No reinventing the wheel
- Cross-browser tested, bugs fixed, upgrades offered
- Easier for new people to take over a project
Familiarity with the library, well documented

REASONS TO AVOID LIBRARIES

- **Websites tend to look the same**

- Websites can load slowly

Although content delivery networks (CDNs) help

- Bloat is common

Thousands of lines of code:

Bootstrap v4.3	~9,350 (142 KB)
UIKit v3.2	~12,400 (257 KB)
Foundation v6.4	~5,370 (118 KB)
Flexbox Grid v6.3	~960 (12 KB)

HOW TO PICK A LIBRARY

- Can be challenging
- Requirements of the project
- Design
 - How much code will you need to write on top of the library?
 - Does the design match your code philosophies?
- You/team **experience** with the library
- **Support** and **maintenance** of the library
- **Community** around the library

QUESTIONS?