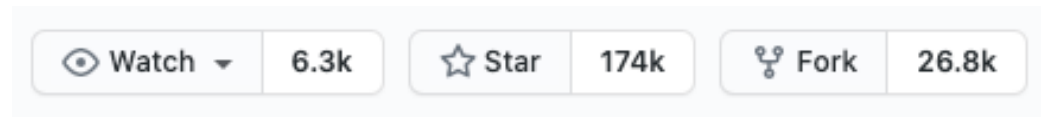# BOOTCAMP '20

SESSION #22

What will be covered?

- Preparing the Development Environment
- Understanding Vue.js
- Understanding Data Bindings
- Using the Basic Directives
- Using the Repeater Directive
- Handling Events
- Working with Form Elements
- Using Components
- Understanding the Component Lifecycle

Intro

Vue.js is an open-source model–view–viewmodel front end JavaScript framework for building user interfaces and single-page applications

It was created by Evan You, and is maintained by him and the rest of the active core team members coming from various companies such as Netlify and Netguru.

Written in   JavaScript, TypeScript

Stable release 3.0 / September 18, 2020

Contributors 380

Version	Release date	Title
3.0	September 18, 2020	One Piece [17]
2.6	February 4, 2019	Macross [18]
2.5	October 13, 2017	Level E [19]
2.4	July 13, 2017	Kill la Kill [20]
2.3	April 27, 2017	JoJo's Bizarre Adventure [21]
2.2	February 26, 2017	Initial D [22]
2.1	November 22, 2016	Hunter X Hunter [23]
2.0	September 30, 2016	Ghost in the Shell [24]
1.0	October 27, 2015	Evangelion [25]
0.12	June 12, 2015	Dragon Ball [26]
0.11	November 7, 2014	Cowboy Bebop [27]
0.10	March 23, 2014	Blade Runner [28]
0.9	February 25, 2014	Animatrix [29]
0.8	January 27, 2014	N/A [30]
0.7	December 24, 2013	N/A [31]
0.6	December 8, 2013	VueJS [32]

Watch ⌄ 6.3k   Star 174k   Fork 26.8k

Vue vs Angular vs React

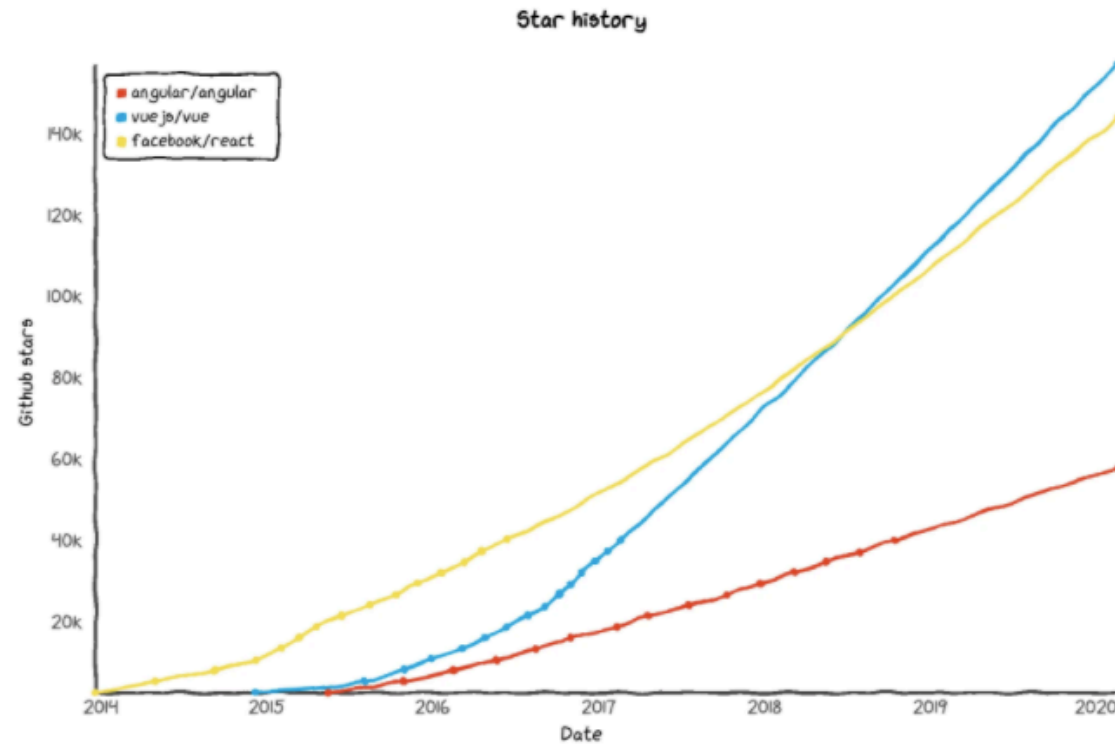|	Angular	React	Vue
Initial release	2010	2013	2014
Official site	angular.io	reactjs.org	vuejs.org
Approx. size (KB)	500	100	80
Current version	9	16.x	2.6.x
Used by	Google, Wix	Facebook, Uber	Alibaba, GitLab

Fig. 1) A brief history of Vue vs React vs Angular

Source: https://www.codeinwp.com/blog/angular-vs-vue-vs-react/

Vue vs Angular vs React

Fig. 2) Popularity (GitHub Stars)

Vue vs Angular vs React

Number of jobs	Angular	React	Vue
LinkedIn	72747	70963	11590
Indeed	15141	14595	1810
SimplyHired	11357	10508	1526
Dice	4719	3529	331
AngelList	2350	4383	419
Hired	13	9	0
Remote	1069	1136	166

Fig. 3) Job market

Source: https://www.codeinwp.com/blog/angular-vs-vue-vs-react/

Vue vs Angular vs React

	Angular	React	Vue
# Watchers	3.2k	6.7k	6.2k
# Stars	62k	151k	166k
# Forks	16.9k	29.4k	25.2k
# Contributors	1,129	1,390	293

Fig. 4) Community and development

Source: https://www.codeinwp.com/blog/angular-vs-vue-vs-react/

Who uses Vue.js

10 Enterprises
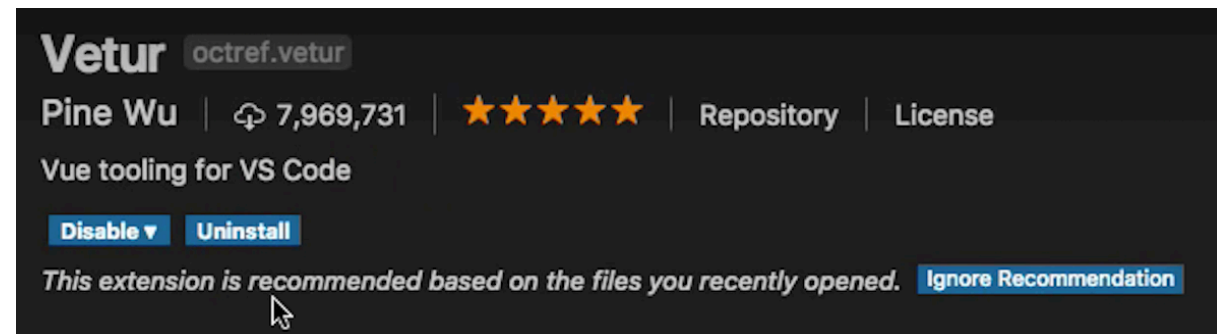## You Didn't Know Were Using Vue.js

[Read more](#)

Why using Vue.js

- Makes creating UIs and front—end apps much easier
- Less of a learning curve than other frameworks
- Extremely fast and lightweight
- Build powerful SPA (Single Page Application)
- Virtual DOM
- Growing in the industry

What you should know before learning Vue

- Conditionals
- Arrays & Hight-order array methods (map, filter, forEach, etc.)
- Functions
- Objects
- Module syntax
- Import/Export
- Arrow functions
- Hight-order functions
- Promises

Preparing the Development Environment

- jsfiddle.net - learning purposes

- Vue CLI

    npm install --global @vue/cli

- Vue UI

Vetur octref.vetur

Pine Wu | ⬇ 7,969,731 | ★★★★★ | Repository | License

Vue tooling for VS Code

Disable ▾ | Uninstall

This extension is recommended based on the files you recently opened. | Ignore Recommendation

Understanding Vue.js

- Directory structure
  - public/index.js
  - src/main.js
  - src/App.vue

- Vue.js instance

```
> node_modules
∨ public
  ★ favicon.ico
  <> index.html
∨ src
  > assets
  > components
  V App.vue
  JS main.js
◆ .gitignore
B babel.config.js
{} package-lock.json
{} package.json
ⓘ README.md
```

```
1  new Vue ({
2    el: "#app",
3    data() {
4      return {
5        name: "John"
6      }
7    }
8  });
```

```
1 ▼ <div id="app">
2 ▼   <h1>Welcome {{ name }}</h1>
3   </div>
```

```
1 ▼ body {
2
3   }
4 ▼ h1 {
5     color: purple;
6   }
```

```
1 ▼ new Vue ({
2     el: "#app",
3 ▼   data() {
4 ▼     return {
5         name: "John"
6       }
7     }
8   });
```

Welcome John

- Understanding Data Bindings
- Using the Basic Directives
- Using the Repeater Directive
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QUESTIONS