

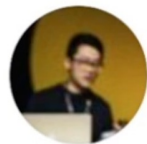
What is Vite?

Jennifer Bland – Software Engineer

Who Am I?

- Software Engineer @ Vox Media
- Founder of codeprep.io
- Founder of in5days.tech
- [@ratracegrad](https://twitter.com/ratracegrad)
- Google Developers Expert

What is Vite?



Evan You

@youyuxi



As I was going to bed, I had an idea about a no-bundler dev setup (using native browser ES imports), but with support for Vue SFCs ****with hot reload****. Now it's almost 6AM and I have PoC working. The hot reload is so fast it's near instant.

11:54 AM · Apr 20, 2020



1.7K



189 people are Tweeting about this



What Does
Vite Do?

Why Does It Use Native ES Modules



How Fast?

- Server starts in < 300ms
- Hot Module Replacement (HMR) updates in < 100ms
- Esbuild powered TS/JSX transforms
- On-demand: only process modules of current code-split route

Vue-cli vs Vite

Dev server start time

- Vue-cli 2668ms
- Vite 232ms

Page load time

- Vue-cli 320.1ms
- Vite 379ms

Build time

- Vue-cli 5.14s
- Vite 2.39s

Rollup-based build for production

- Rollup is faster than Webpack
- Smaller bundle size
- ES modules
- Challenging to configure
- Opinionated configuration

How to Get Started

- Vitejs.dev

```
$ npm init @vitejs/app
```

```
$ yarn create @vitejs/app
```

```
projects $ npm init @vitejs/app  
npx: installed 5 in 1.079s  
✓ Project name: vite-vue
```

```
projects $ npm init @vitejs/app
```

```
npx: installed 5 in 1.083s
```

```
✓ Project name: · vite-project
```

```
Scaffolding project in /Users/ratracegrad/Dropbox/My Mac (Jennifer's MacBook Pro)/Documents/projects/vite-project...
```

```
? Select a template: ...
```

```
> vanilla
```

```
vue
```

```
vue-ts
```

```
react
```

```
react-ts
```

```
preact
```

```
preact-ts
```

```
lit-element
```

```
lit-element-ts
```

npx: installed 5 in 1.079s

✓ **Project name:** · vite-vue

Scaffolding project in /Users/ratracegrad/Dropbox/My Mac (Jennifer's MacBook Pro)/Documents/projects/vite-vue...

✓ **Select a template:** · vue

Done. Now run:

```
cd vite-vue
```

```
npm install
```

```
npm run dev
```

projects \$ █

```
projects $ cd vite-vue
vite-vue $ ls -al
total 32
drwxr-xr-x@    8 ratracegrad  staff   256 Mar  8 22:28 .
drwxr-xr-x@  115 ratracegrad  staff  3680 Mar  8 22:27 ..
-rw-r--r--@    1 ratracegrad  staff   44 Mar  8 22:28 .gitignore
-rw-r--r--@    1 ratracegrad  staff  337 Mar  8 22:28 index.html
-rw-r--r--@    1 ratracegrad  staff  305 Mar  8 22:28 package.json
drwxr-xr-x@    3 ratracegrad  staff   96 Mar  8 22:28 public
drwxr-xr-x@    6 ratracegrad  staff  192 Mar  8 22:28 src
-rw-r--r--@    1 ratracegrad  staff  156 Mar  8 22:28 vite.config.js
vite-vue $
```

```
1 import { createApp } from 'vue'
2 import App from './App.vue'
3
4 createApp(App).mount('#app')
5
```

```
1 <template>
2   · 
3   · <HelloWorld msg="Hello Vue 3 + Vite" />
4 </template>
5
6 <script setup>
7   import HelloWorld from './components/HelloWorld.vue'
8
9 </script>
10
11 <style>
12 #app {
13   · font-family: Avenir, Helvetica, Arial, sans-serif;
14   · -webkit-font-smoothing: antialiased;
15   · -moz-osx-font-smoothing: grayscale;
16   · text-align: center;
17   · color: □ #2c3e50;
18   · margin-top: 60px;
19 }
20 </style>
```

EXPLORER



✓ VITE-VUE

> public

✓ src

✓ assets

 logo.png

✓ components

▼ HelloWorld.vue

▼ App.vue

JS main.js

 .gitignore

<> index.html

{ } package.json

JS vite.config.js

JS main.js ×

src > JS main.js

```
1  import { createApp } from 'vue'
2  import App from './App.vue'
3
4  createApp(App).mount('#app')
5
```


A horizontal band of dark blue watercolor paint is centered on a white background. The paint has a textured, slightly irregular edge, giving it a hand-painted appearance. The word "React" is written in white, sans-serif font, centered within the blue band.

React

```
projects $ npm init @vitejs/app
```

```
npx: installed 5 in 1.231s
```

```
✓ Project name: · vite-react
```

```
Scaffolding project in /Users/ratracegrad/Dropbox/My Mac (Jennifer's MacBook Pro)/Documents/projects/vite-react...
```

```
✓ Select a template: · react
```





```
Done. Now run:
```

```
cd vite-react
```

```
npm install
```

```
npm run dev
```

```
projects $ █
```

✓ VITE-...    

src

App.css

 App.jsx

 favicon.svg

index.css

 logo.svg

 main.jsx

 .gitignore

<> index.html

{ } package.json

JS vite.config.js

src >  main.jsx

```
1 import React from 'react'
2 import ReactDOM from 'react-dom'
3 import './index.css'
4 import App from './App'
5
6 ReactDOM.render(
7   <React.StrictMode>
8     <App />
9   </React.StrictMode>,
10  document.getElementById('root')
11 )
12
```

The image features the word "VitePress" in a white, sans-serif font, centered within a dark blue, irregular ink-like splash. The splash has a textured, painterly appearance with various shades of blue and grey, and it is surrounded by a white background with scattered blue ink splatters and dots.

VitePress

Questions

