



vue.js

Introduction

- JS framework for building user interfaces.
- Created by Evan You in 2014
- Unlike other big frameworks (React, Angular), Vue isn't maintained by a large corporation such as Meta or Google.
- Like React, it builds on top of HTML, CSS and JS.
- Used to develop single-page applications.

Why Vue (not exclusive)

- Creates dynamic frontend apps
- Component-based architecture promotes reusability
- Easy to integrate with other projects
- Integrates well with backend systems to make full stack.
- Virtual DOM, fast
- Good community

Why Vue? (exclusive)

- Vue is simple and intuitive to learn.
- Inspired from Angular as best parts of Angular extracted, leaving behind the limitations.
- Doesn't contain the complexities of other frameworks. Syntax etc.
- Can be used on server-side when used with SSR framework (Nuxt).
- Extremely lightweight

Layout

```
<!DOCTYPE html>
<html lang="en">
  <head>
    ...
  </head>
  <body>
    <div id="app"></div>
  </body>
</html>
```

```
const app = Vue.createApp({  
  template: '<h1>Hello World</h1>',  
})  
  
app.mount(#app);
```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    ...
  </head>
  <body>
    <div id="app">{{message}}</div>
  </body>
</html>
```

```
const app = Vue.createApp({  
  data() {  
    message: "Hello World",  
  }  
})  
  
app.mount(#app);
```

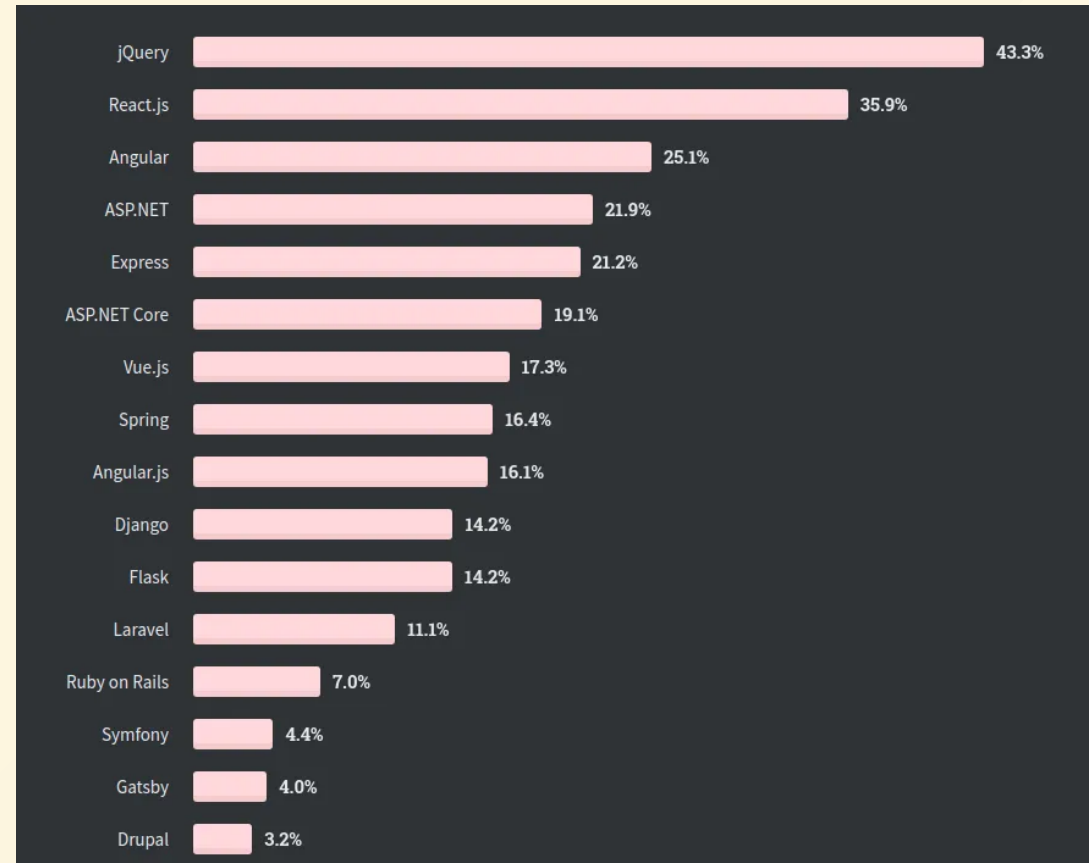

Advantages

- Short learning curve
- Good community support
- Shortest startup time

Disadvantages

- Doesn't render in older operating systems
- Not as trustworthy overall as not backed by large organisation
- Developed in China, so most documentations in Chinese

Comparison with competitors



Stack Overflow Developer Survey 2020

Vue vs JQuery

	jQuery	Vue.js
1.	It is a little bit difficult and requires a clear understanding of javascript.	It is effortless and straight forward and anyone can learn it.
2.	It was first released in 2006.	It came in the year 2014.
3.	It was developed by John Resig.	It was developed by Evan You.
4.	HTML5 handling functionality is available.	HTML5 handling functionality is not available.
5.	It is very light and smooth.	It is a little bit heavy as compared to jQuery.
6.	A large number of plugins are available for jQuery which makes it powerful.	Vue.js is less powerful in terms of available plugins.
7.	It does not have a component reusability feature.	Reusability of components is available for making large applications in less time.
8.	Mainly used to provide interactivity to applications.	Mainly used for front end development.

(geeksforgeeks.org)

Facilitating tools

- Bit: facilitates component-driven development
- Vite: smooth/fast build tool
- Pinia: Management library
- Vue-router: Vue router library

Deployment

Decide which hosting service to deploy your vue app:

- Free services: Render, Github pages
- Free with usage limits: Netlify, Vercel, Amazon S3, Firebase
- Paid services: Heroku

Prerequisites:

- Preview locally prior to deployment, for example:

```
$ npm install -g serve  
$ serve -s dist
```

- Configure CORS if your static frontend is deployed to a different domain from your backend API

Deployment with Netlify

- Build Command: npm run build or yarn build
- Publish directory: dist

Import an existing project from a Git repository

From zero to hero, three easy steps to get your site on Netlify.

1. Connect to Git provider

2. Pick a repository

3. Site settings, and deploy!

Site settings for Emilsone/coderz-app

Get more control over how Netlify builds and deploys your site with these settings.

Owner

Emilsone's team

Branch to deploy

main

Basic build settings

If you're using a static site generator or build tool, we'll need these settings to build your site.

[Learn more in the docs](#)

Base directory



Build command

yarn build



Publish directory

dist



Show advanced

Deploy site

Companies that use it

- Adobe
- Grammarly
- Facebook
- Netflix

Adobe

- Portfolio is a custom website builder for users to make a portfolio of their work
- Vue was easy to integrate with the existing codespaces

<https://portfolio.adobe.com/examples/>

Grammarly

- It built an online editor with vue.js that you can use to check large sections of text
- Grammarly for developers and Grammarly SDK discontinued :(