

# Research document

## React vs Angular vs Vue

Which is the best framework to use?

### Contents

Research document .....	1
What are the advantages? .....	2
What are the disadvantages?.....	3
How do they compare in the job market?.....	4
Conclusion .....	5
Sources .....	6

## What are the advantages?

### 1) Vue



Even though Vue is the latest to enter the front-end development scene, it has surpassed the rest in popularity and considered the easiest to learn for unexperienced programmers.

Vue combines useful principles of React and Angular in a minimalistic style. It is reusable in terms of adding numerous reactive components to the existing code.

### 2) React



React used a virtual DOM, with which it only compares the HTML code differences and loads only the different parts.

This leads to much faster loading times.

Similar to Vue, react is simple to get started with!

Another benefit is that the app is smooth, even with intense operations or database queries.

### 3) Angular



Angular is considered generally better for more complex apps and is enterprise-ready.

It provides a complete framework for web application development without additional libraries, unlike react for example!

## What are the disadvantages?

### 1) Angular



Out of the frameworks, Angular is the toughest one to learn and requires a certain training period in order

to start working with it. It uses a regular DOM, which causes the entire HTML tags tree structure to be updates and that ultimately leads to significantly slower loading times

### 2) React



React on the other hand does not have the possibility to implement MVC architecture.

it also involves extra work for using outside tools as most of the modules and components aren't included in the base library.

### 3) Vue

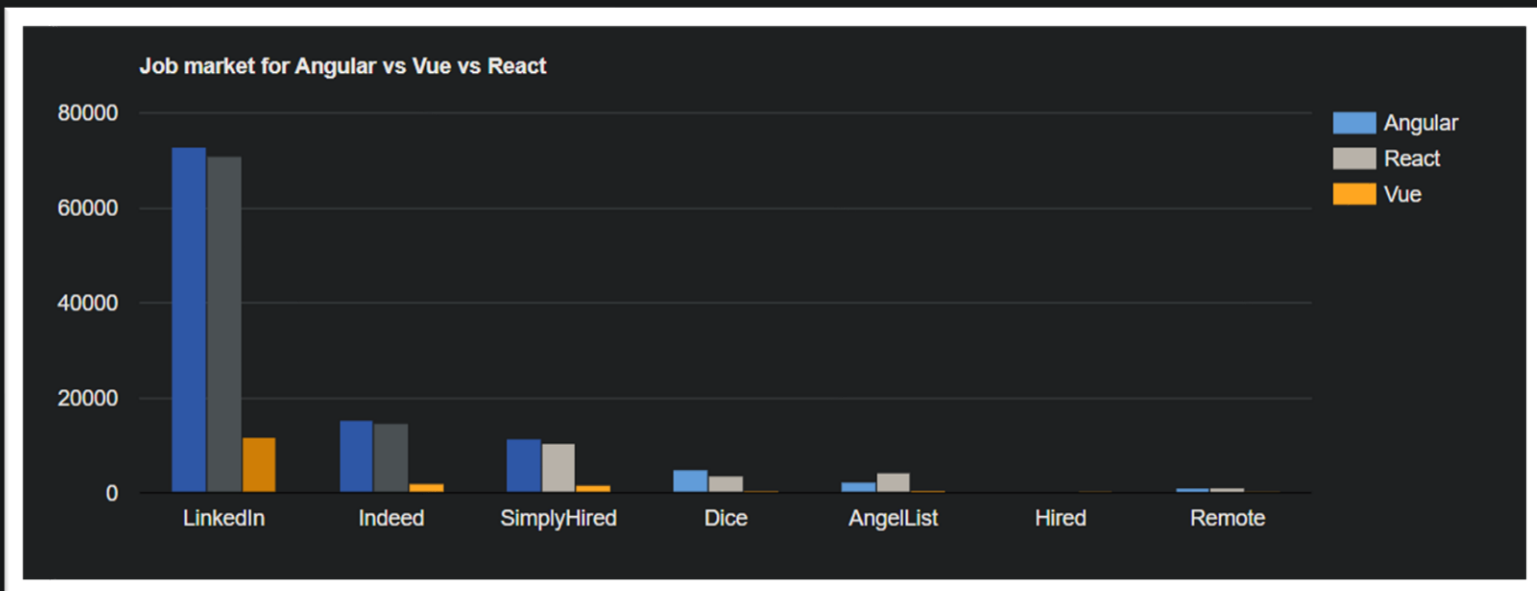


Vue lacks in scalability and the number of plugins available

It has a limited community compared to React and Angular and large number of the users are non English speakers

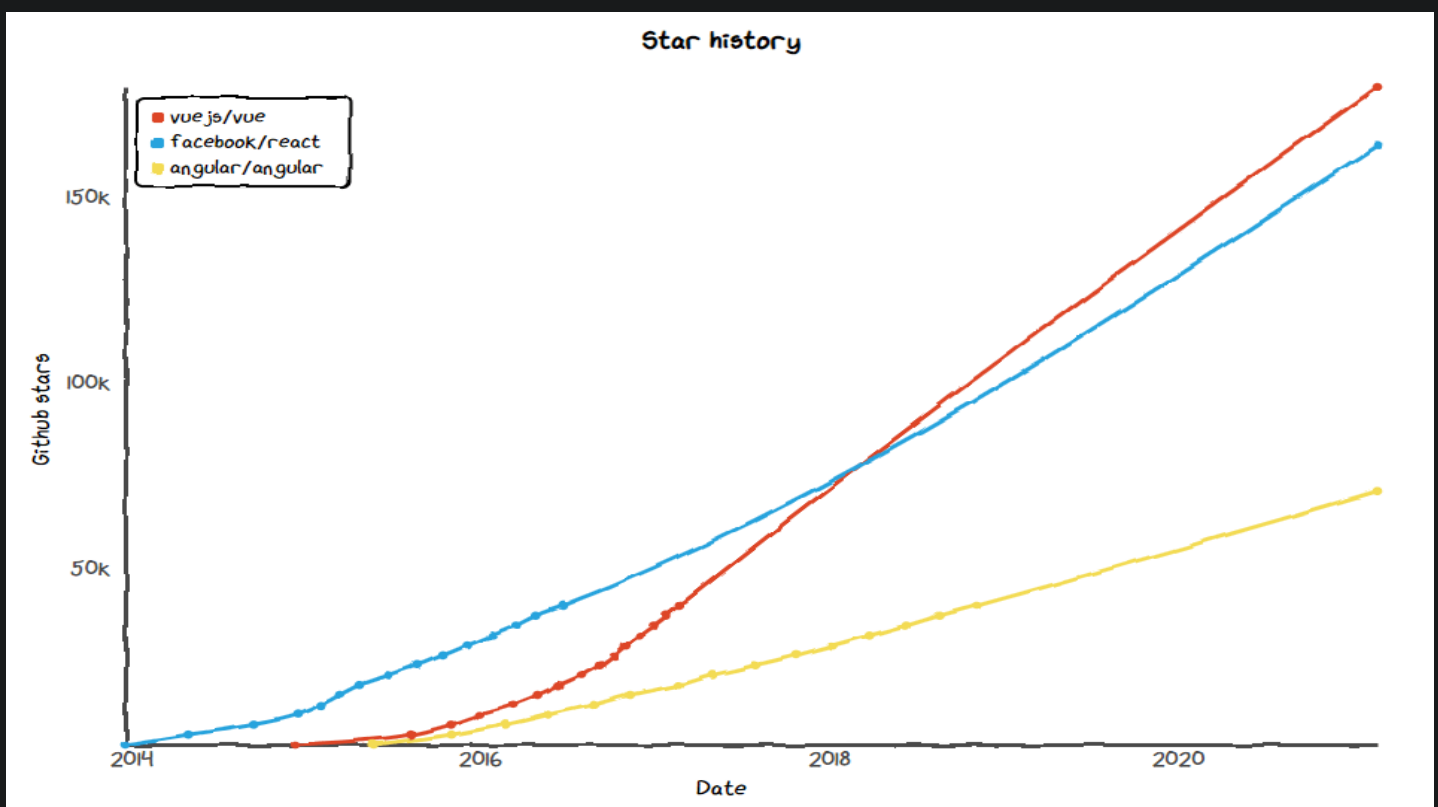
## How do they compare in the job market?

In current times, Angular is the most searched one in terms of job applications, closely followed by React.



Vue is not so searched for yet, but is gaining popularity rapidly. After all, it is most recent one to join the race!

A good measure for the popularity of each framework is the number of stars that their GitHub repository get.



## Conclusion

There is no definitive answer on which framework is better, they all suit different needs!

If you are new to front end development, you can start off with Vue. It is best used with single page application and delivers high performance because of the virtual DOM

Go for react if you are looking to build lightweight apps quickly that run smooth even under heavy load.

If you want to develop a large application, choose angular as your reliable and scalable framework.

## Sources

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

<https://incora.software/insights/react-vs-angular-vs-vue-the-main-differences-and-use-cases/55>