

25-01-2023

React-1

Hello, my name is Vlad.

Front-end developer with over 3+ years of experience.

Use React + Typescript on daily basis.

Graduated from BSUIR.

Got my first job after an IT internship during my study.

I'm keen on boxing because it's like a game of chess.



React -1 Agenda

1. What is React and why do we need it?
2. Components.
3. JSX.
4. Q&A session and practical exercise 1.
5. Properties.
6. Q&A session and practical exercise 2.
7. State.
8. useState hook.
9. Handling Events.
10. Q&A session and practical exercise 3.

React

React is a free and open-source front-end JavaScript library for building user interfaces based on UI components. React can be used as a base in the development of a single-page application (SPA).*

*[https://en.wikipedia.org/wiki/React_\(JavaScript_library\)](https://en.wikipedia.org/wiki/React_(JavaScript_library))

Single page application

A single-page application loads only a single HTML document on the first request. Then, it updates the webpage's specific portion, content, or body using JavaScript.*

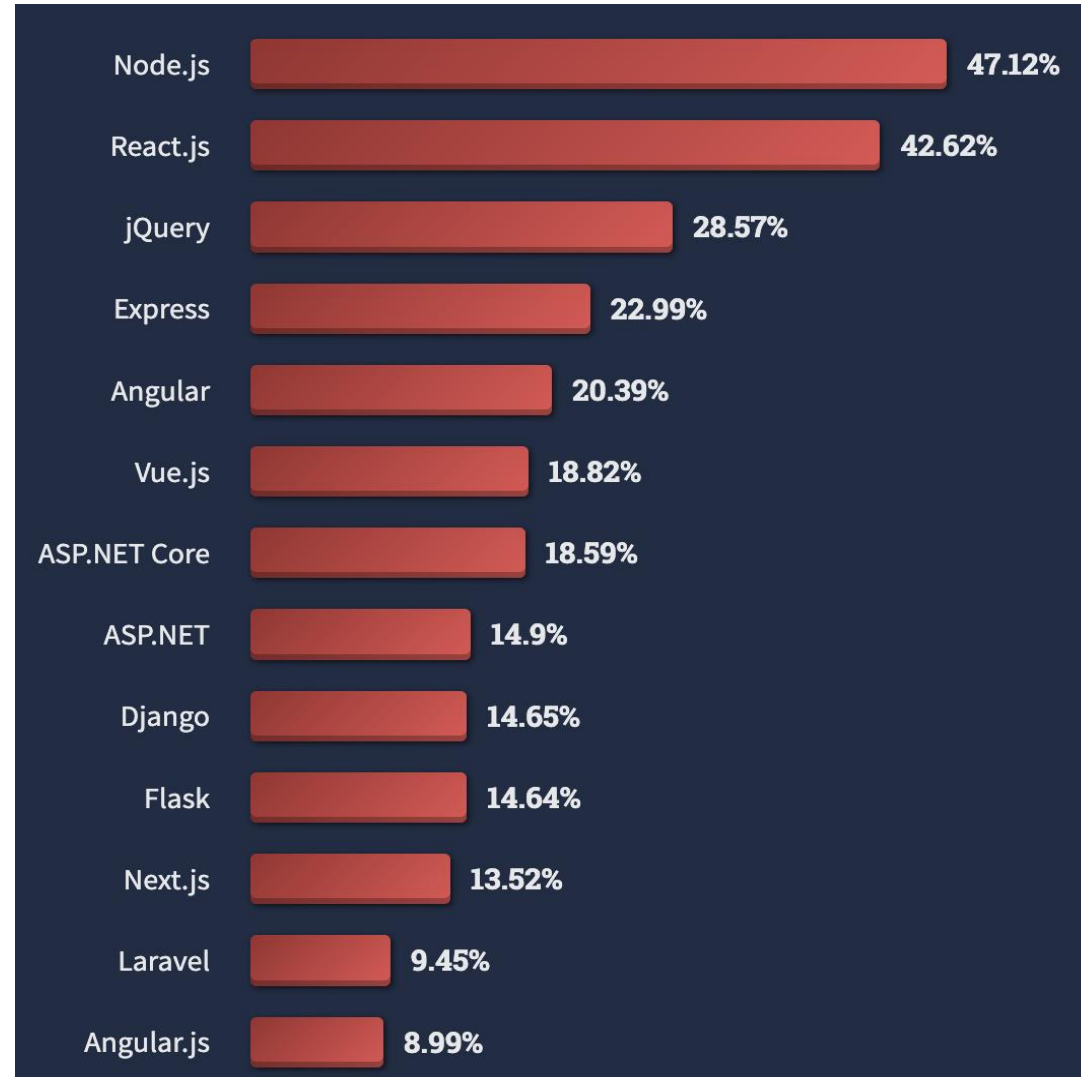
*<https://developer.mozilla.org/en-US/docs/Glossary/SPA>

React examples

Meta
Netflix
Reddit
Uber
Airbnb
The New York Times
Khan Academy
Codecademy
SoundCloud
Discord
WhatsApp Web*

https://blog.hubspot.com/website/react-js?hubs_content=blog.hubspot.com%252Fwebsite%252Freact-js&hubs_content-cta=David%2520Herbert

Stackoverflow research



[*https://survey.stackoverflow.co/2022/#section-most-popular-technologies-web-frameworks-and-technologies](https://survey.stackoverflow.co/2022/#section-most-popular-technologies-web-frameworks-and-technologies)

Community

React has a big community. It means that there are a lot of already solved issues, common best practices, and support that make React easy to learn and work with.

Native usage

In contrast to other frameworks like Angular, React doesn't enforce strict rules for code conventions or file organization. This means developers and teams are free to set conventions that suit them best. You just need to know JS, HTML, and CSS.

Hello, world!

It is 12:26:46 PM.

React is fast

React can render elements and apply new changes extremely fast. And one of the reasons is the virtual DOM technology that is used by React.*

```

Console Sources Network Timeline
▼ <div id="root">
  ▼ <div data-reactroot>
    <h1>Hello, world!</h1>
    ▼ <h2>
      <!-- react-text: 4 -->
      "It is "
      <!-- /react-text -->
      <!-- react-text: 5 -->
      "12:26:46 PM"
      <!-- /react-text -->
      <!-- react-text: 6 -->
      "."
      <!-- /react-text -->
    </h2>
  </div>
</div>

```

*<https://reactjs.org/docs/rendering-elements.html>



Good video about virtual DOM - https://www.youtube.com/watch?v=Iw2BLUjQo1E&ab_channel=Academind

Components

UI components representation

Components let you split the UI into independent, reusable pieces, and think about each piece in isolation.

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Technical components representation

In React, you develop your applications by creating reusable components that you can think of as independent Lego blocks.

These components are individual pieces of a final interface.

```

// Component is a JS function named with a capital letter
export function App() {
  //can do something useful

  // returns JSX (markup)
  return (
    <div>
      <h1>This is App component!</h1>
    </div>
  );
}
  
```

JavaScript XML (JSX)

JSX is a syntax extension for JavaScript to extend HTML functionality by embedding it directly into JavaScript code.

With JSX, there is no need to separate HTML and JS codes as React allows you to write declarative HTML directly in JavaScript code.

```
function Component() {  
  const name = "Mark";  
  
  //insert a name value with curly braces  
  return (  
    <div>Hello {name}</div>  
  );  
}
```

Let's code!

Q&A session and practical exercise 1.

Q&A session and practical exercise 2.

Q&A session and practical exercise 3.



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