

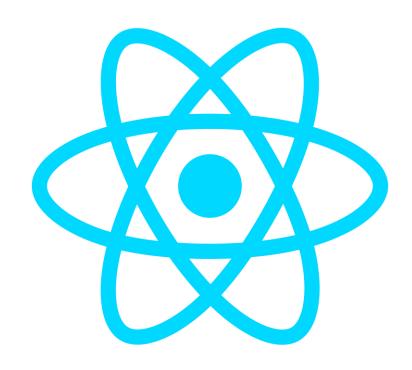
Mastering React.js: A Comprehensive Crash Course

Introduction

Introduction to React.js
History of React.js
Why React.js over Vanilla JavaScript
Setting up development environment
Creating React.js project

Introduction to React.js

- React.js is a JavaScript library used for building user interfaces (Uls) and single-page applications.
- Created by Jordan Walke at Facebook.
- Most popular JavaScript library for frontend development.

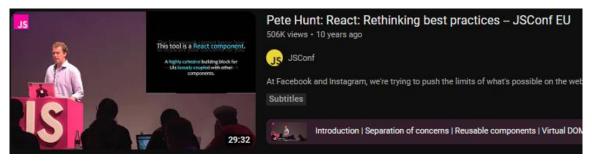


History of React.js

- React.js began as an internal tool for dynamic Facebook components.
- Created in 2011 but remained private initially.
- React.js was open-sourced by Jordan Walke and Tom Occhino at JSConfUS 2013.
- Released with the belief that its success at Facebook could benefit others.
- Initially faced criticism for combining JavaScript and HTML in a single file.
- It was widely hated and criticized because of its combination of JavaScript and HTML in single file.
- It slowly gained traction and blew up in adoption.



First Keynote given by Tom Occhino and Jordan Walke at <u>JSConfUS 2013.</u>



Second Keynote given by Pete Hunt at JSConfEU.



React.js History in 10minutes: The Revolutionary Journey from Facebook to...

6K views • 10 days ago



Discover the story of React.js in our exciting documentary, "Unveiling React.js: The Revolutionary Journey from Facebook to ...

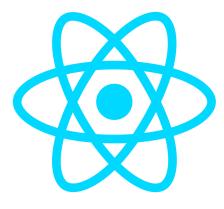
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Watch this Documentary to know complete history of React.js

Is React JS Library or Framework?

- React is not a framework. React is a JavaScript library for building user interfaces.
- It is also known as ReactJS and React.js, so don't get confused if you read different notation in different places.
- React knows only one thing that is to create an awesome UI.



React is all about Components



CourseCard CourseCard CourseCard

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Here, **CourseCard** is shown 3 times. Traditionally, you would have to copy paste each of these but with React.js you can avoid duplicate code (**Do not Repeat Yourself, DRY**).

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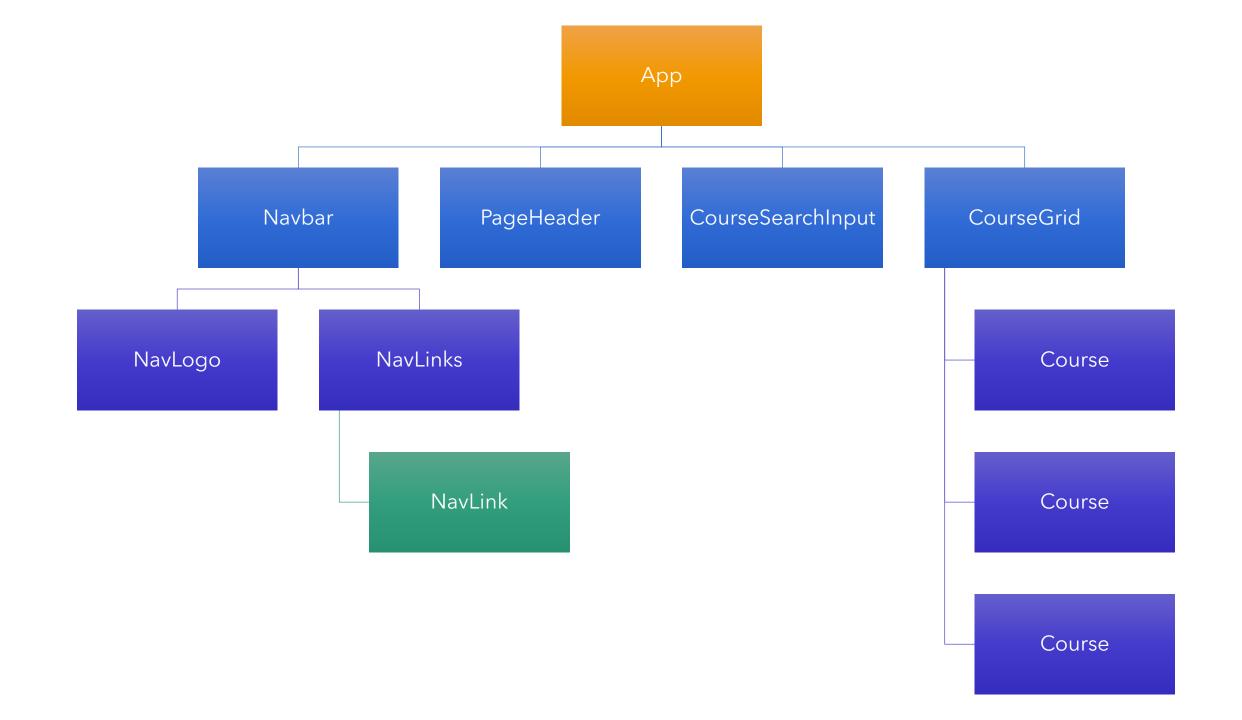
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React.js application is just tree of such Components.

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TypeScript Crash Course

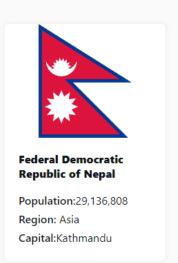
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Republic of India

Population:1,380,004,385 Region: Asia Capital:New Delhi





Islamic Republic of Pakistan

Population:220,892,331

Region: Asia

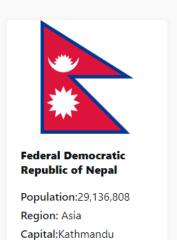
Capital:Islamabad





Republic of India

Population:1,380,004,385 Region: Asia Capital:New Delhi





Islamic Republic of Pakistan

Population:220,892,331

Region: Asia

Capital:Islamabad



Region: Asia

Capital:Dhaka

```
return (
 <div className={`container ${styles.countriesCards}`}>
   {filteredCountries.map((country) ⇒ (
     <CountryCard country={country} key={country.name.common} />
 </div>
```

```
<Link to={`/country/${country.name.official}`}>
   src={country.flags.svg}
   alt={country.flags.alt}
   className={styles.countryFlag}
 <div className={styles.countryInfo}>
   {country.name.official}
      <span className={styles.infoTopic}>Population:
       {country.population.toLocaleString()}
      <span className={styles.infoTopic}>Region:span> {country.region}
      <span className={styles.infoTopic}>Capital:</span>
       {country.capital[0]}
 </div>
</Link>
```

React is Declarative

Why React.js?

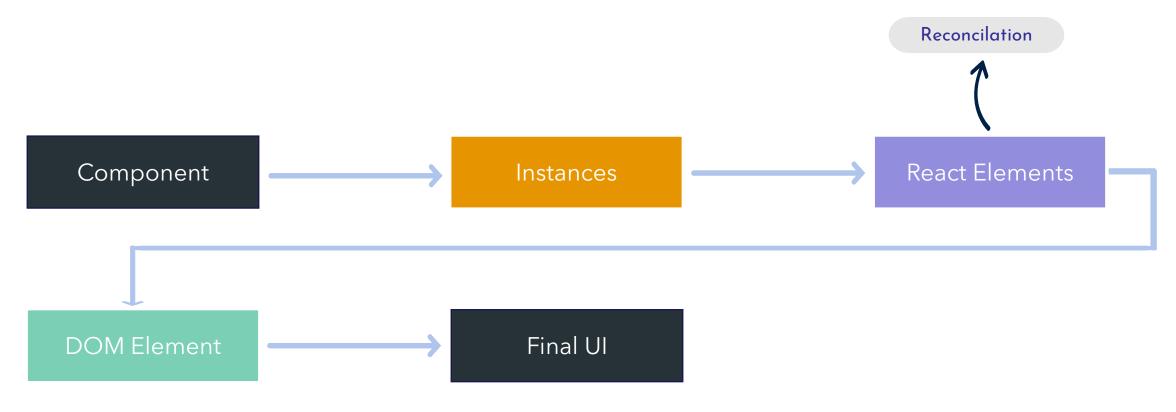
• React is declarative because it describes what the UI should look like rather than how to achieve it. This makes the code easier to read and maintain, as it is more focused on the end result rather than the steps involved in getting there.

```
function MyComponent({ name }) {
    return <div>Hello, {name}!</div>;
}

function MyComponent(name) {
    const element = document.createElement('div'); // Create a new div element
    element.textContent = `Hello, ${name}!`; // Set text content manually
    return element;
}
```

• Here, we are manually creating elements, setting their properties, and appending them to the DOM.

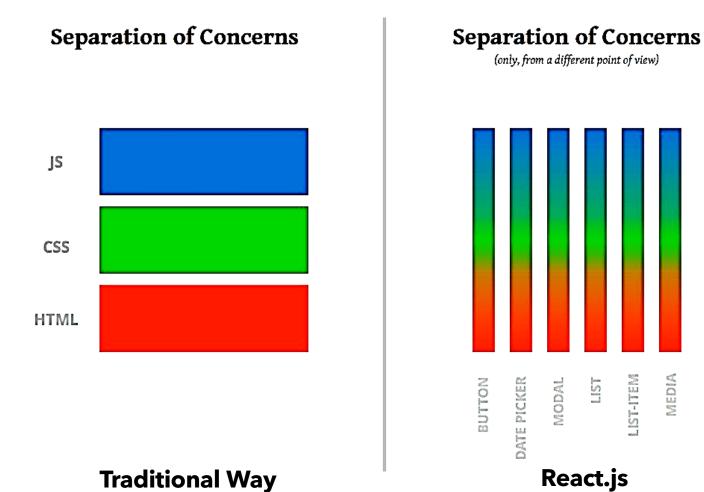
How React works?

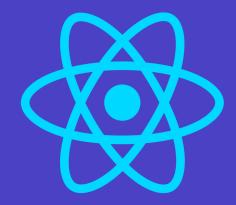


Why React.js over Vanilla JavaScript?

- Oppose to Vanilla JavaScript, React has a concept called components which combines all HTML, CSS and JavaScript by features instead of separating HTML, CSS and JavaScript completely.
- React.js manages updating the DOM or Document Object Model with the components written by us.

Wal-LST





Why React.js?

- React is the Most Popular JavaScript library for building user interfaces.
- Component-Based Architecture
- Declarative UI
- Rich Ecosystem npm packages
- Strong Community Support Online / Github