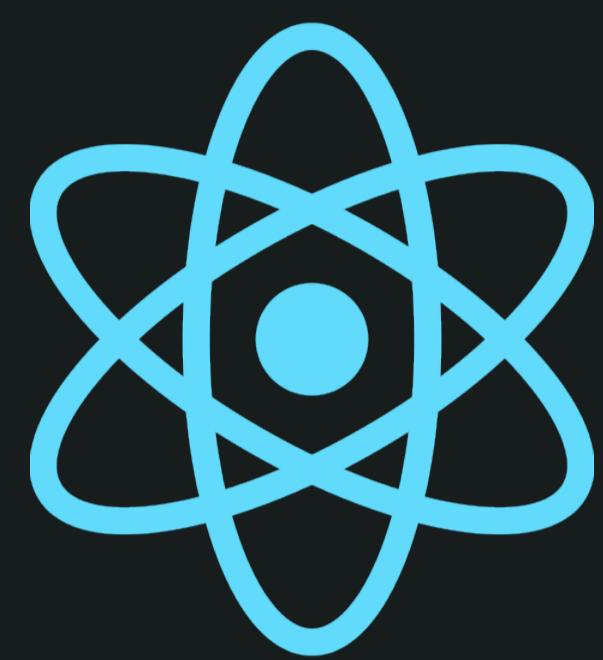




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React.js

What?

Why?

What?

It is a popular **JS library** used for building UI for web applications.



It allows developers to create **dynamic, interactive UI components** that can efficiently update and render changes when the underlying data changes.

React is open source & released by **Meta (Facebook)** in **2013**.



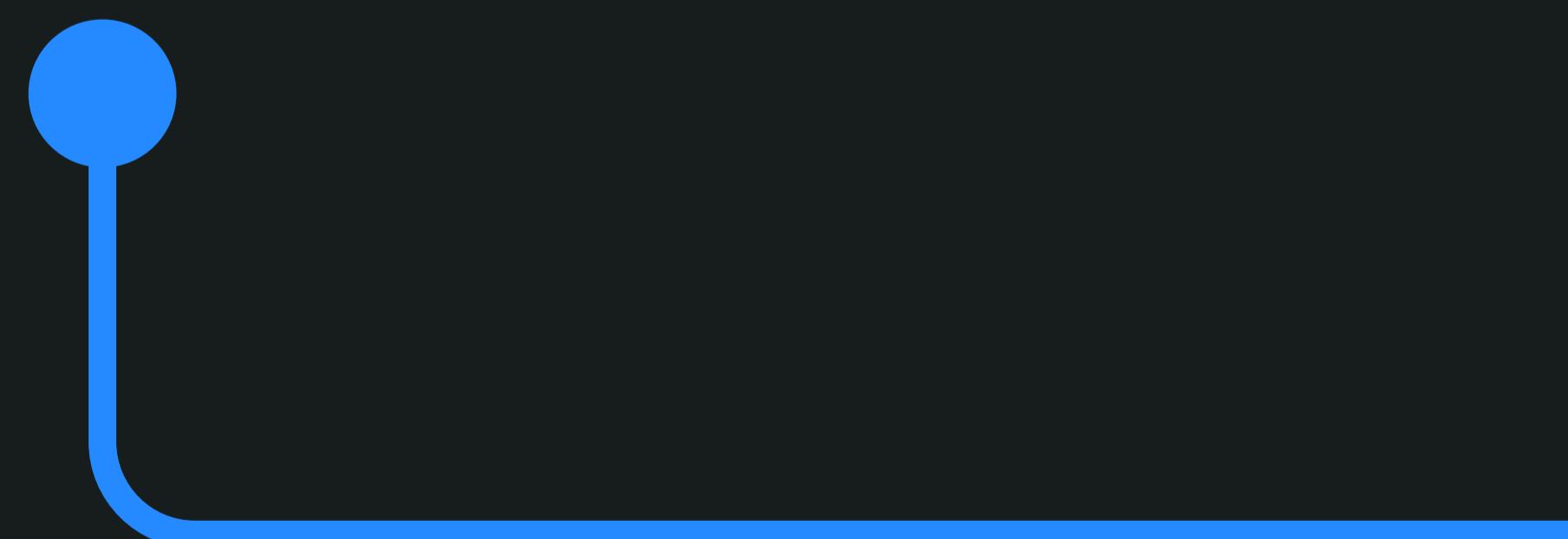


Why?

Component Based Architecture

React follows a **component-based architecture**, where UIs are divided into reusable components.

This approach makes it easier to manage and maintain complex UIs as **each component** encapsulates its **own logic** and **state**.

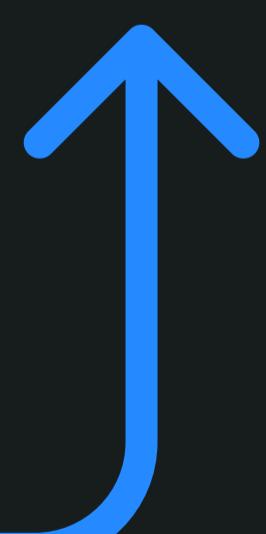


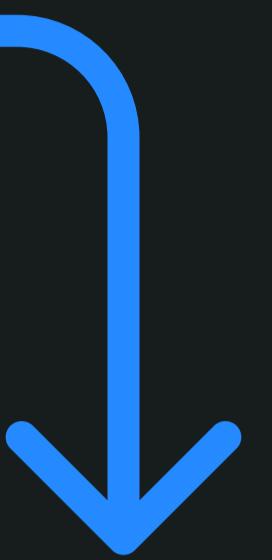


Virtual DOM

React uses a **Virtual DOM** to efficiently update the UI. Instead of directly updating the real DOM every time there is a change,

It **compares** the **Virtual DOM** with the **Real DOM** and only updates the parts that have changed.

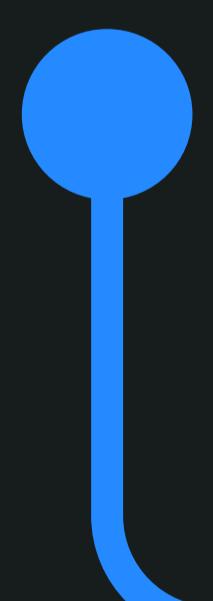




Reusability

React encourages the **reuse of components**, it saves time and effort.

Developers can **create a library of reusable** components that can be used **across different** parts of a project or even in multiple projects.

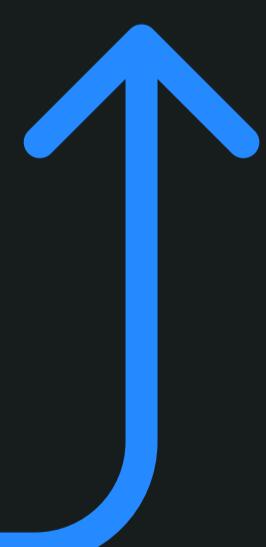


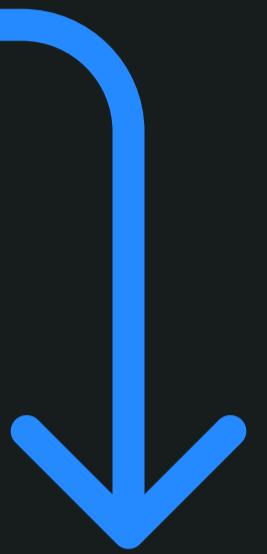


One Way Data Binding

React follows a **unidirectional data flow**, where data flows in one direction from **parent components to child components**.

This makes it easier to understand how data is passed between components and helps **prevent unexpected side effects**.





Community & Ecosystem

React has a large and active community of developers, which means there are plenty of **resources, tutorials, and libraries available** to help developers build applications.

React has a **rich ecosystem** of tools and libraries, such as **Redux** and **React Router**.

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Learn JavaScript **Geo Location API**

GEO Location

Location API in JavaScript



Use Cases

Location Based Services like food delivery apps, weather app....

Navigation Services like Maps....

Geotagging Services as tagging user-generated content, such as photos or social media posts, with location information for enhanced context.

Localized Experiences Customizing language, currency, or content based on the user's geographic region to create personalized experiences.

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GEO Location

JavaScript offers a built-in `Geolocation` API that allows web applications to request the user's current geographical position.

By leveraging this feature, developers can access latitude & longitude coordinates, providing valuable insights to tailor content and services.

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