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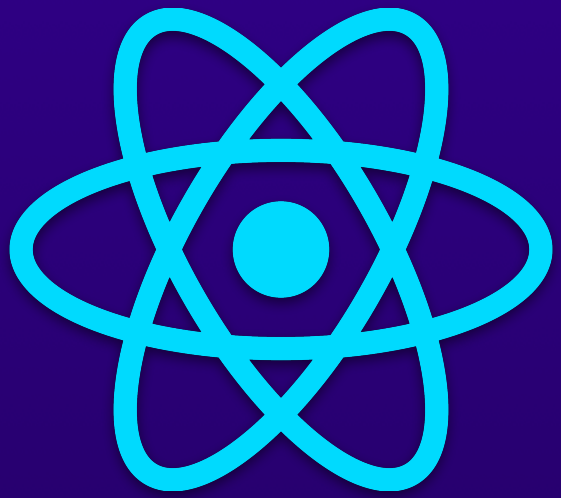
Component-Driven User Interfaces

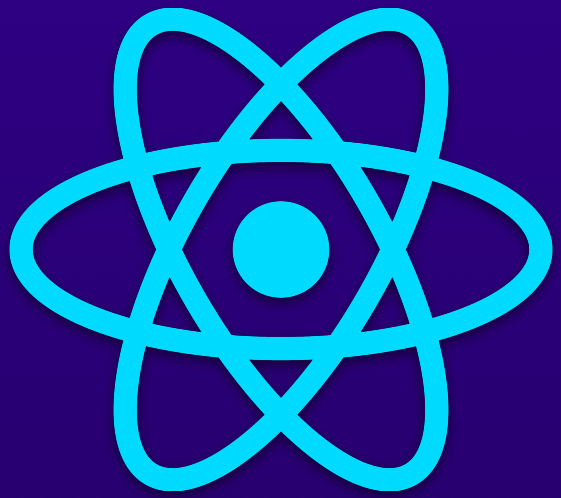
Building Interactive & Scalable UIs

- React Core Syntax & JSX
- Working with Components
- Working with Data

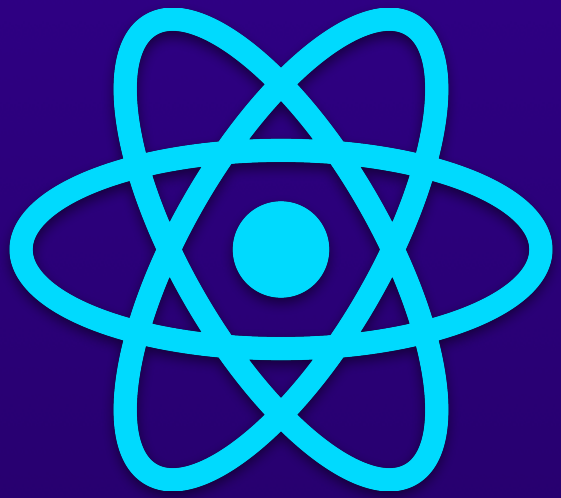


React is a JavaScript library for building user interfaces

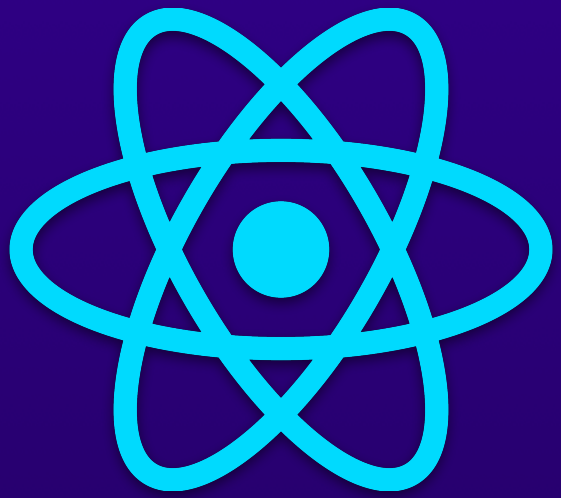
HTML, CSS & JavaScript are about building user interfaces as well



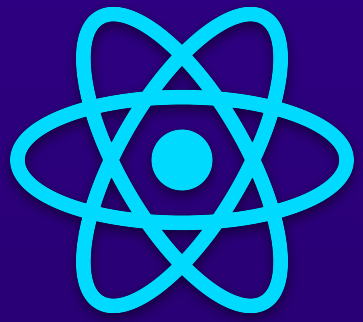
React makes building complex, interactive and reactive user interfaces simpler



React is all about Components



What is a Component?



React is all about Components

Because all user interfaces in the end are made up of components

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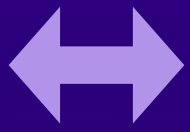
Why Components?

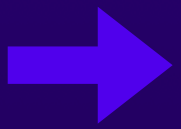
Reusability

Don't repeat yourself

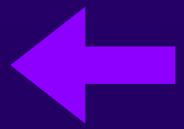


Separation of Concerns

Don't do too many things in one and the same place (function)



Split big chunks of code into multiple smaller functions



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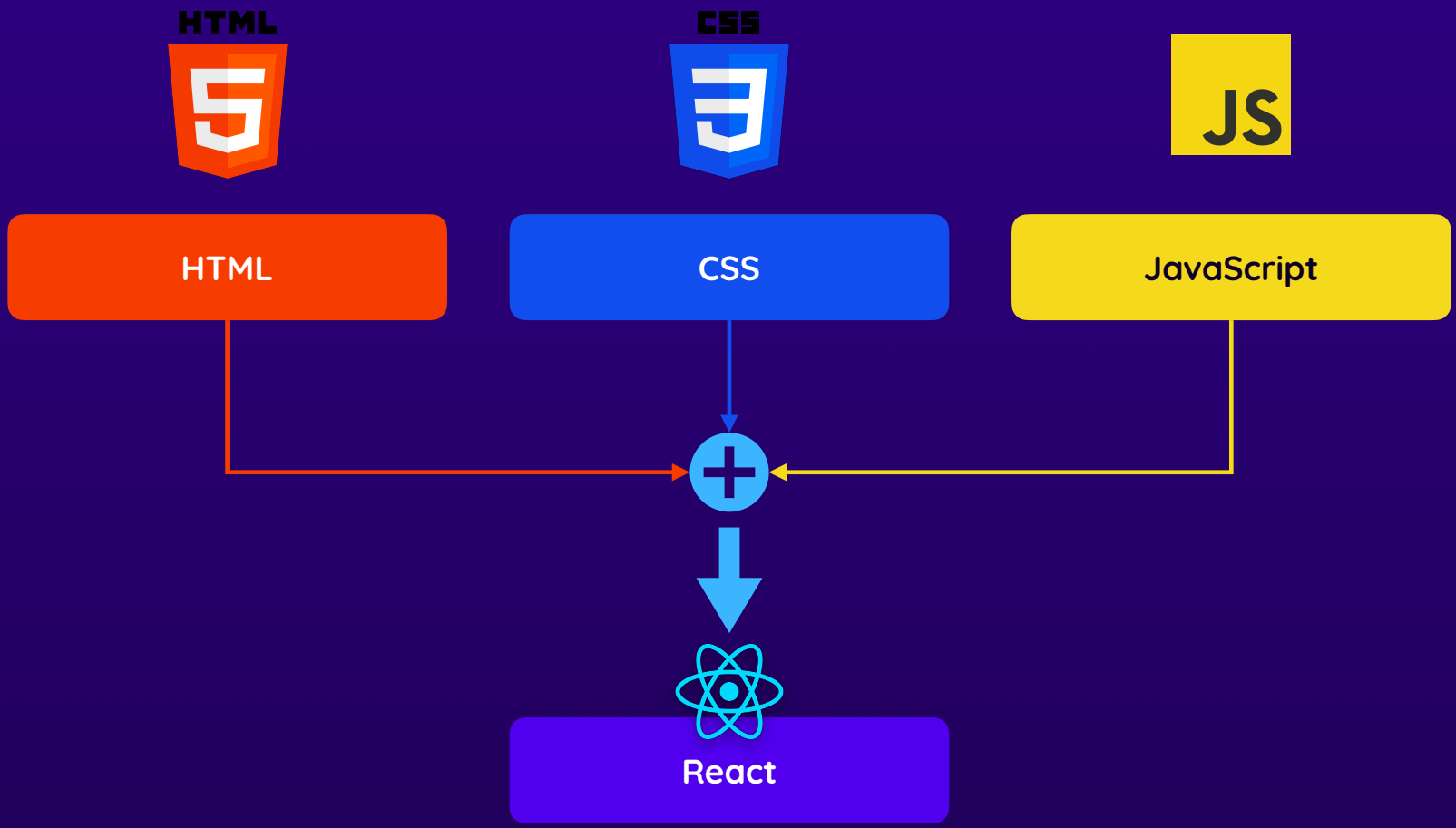
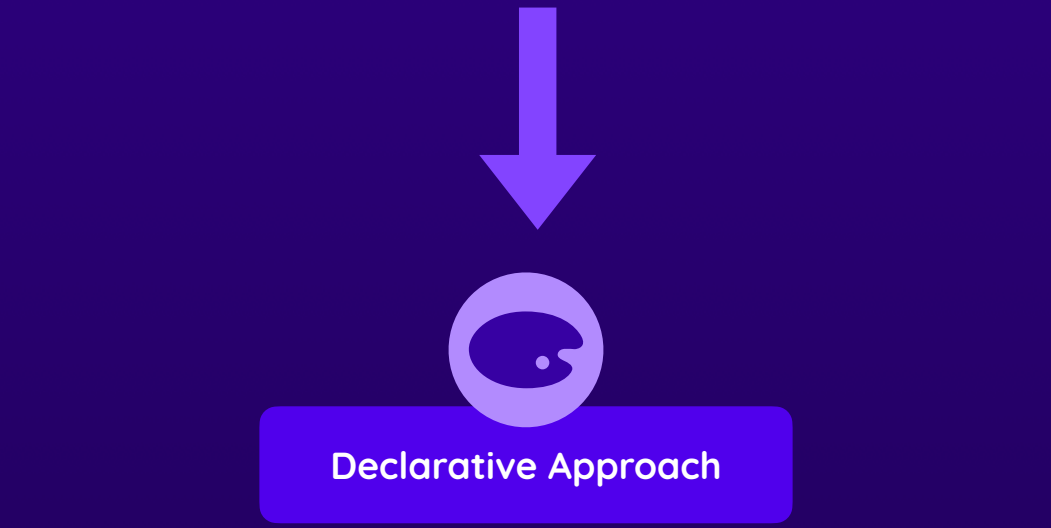
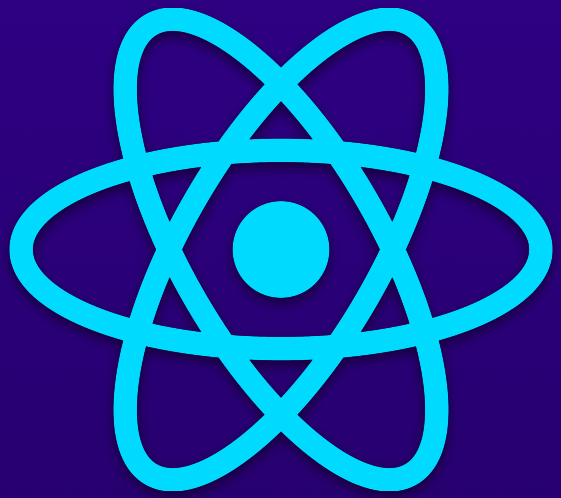
How Is A Component Built?



React & Components

React allows you to create **re-usable** and **reactive** components consisting of **HTML and JavaScript** (and CSS)





Build your own, custom HTML Elements

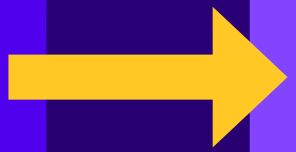
JSX = “HTML in JavaScript”

Understanding JSX

```
<p title="Intro text">

React.js is a library for
building user interfaces.

</p>
```

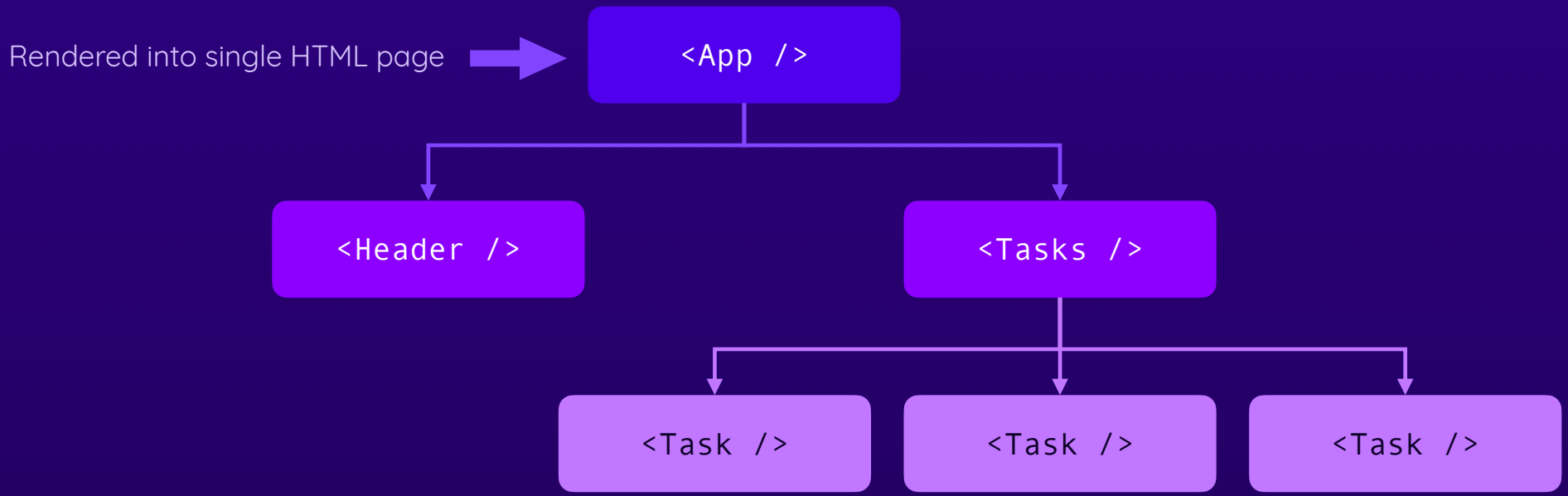


```
React.createElement(
  'p',
  {title: 'Intro text'},
  'React.js is a library for
  building user interfaces.'
);
```

"Syntactic sugar", **does not run** in the browser like this!

Real JavaScript code, would run in the browser like this. But not that nice to use.

You Build A Component Tree



Props are the “attributes” of your “custom HTML elements” (Components)

Passing Data via “Props”