Best way to learn React fast?

Write code! Work on projects!

We are going to build an entire language translation app in this video

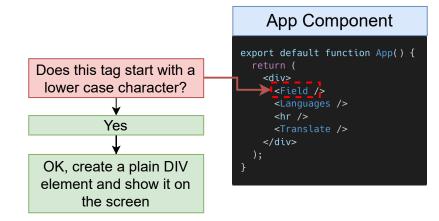


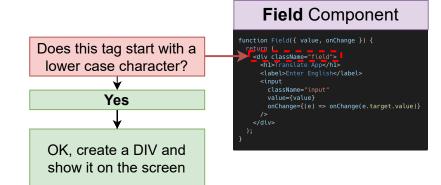
### codesandbox.io/s/react-pibc94

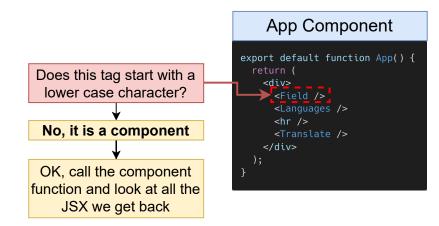
Online editor with a few files already created for you

**ALL** other projects will be created on your computer from scratch

# Completed code: codesandbox.io/s/react-forked-m5bz37



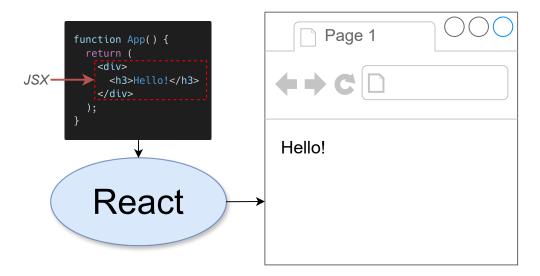




So what's React all about?

React (1) displays HTML and (2) changes that HTML when the user does something.

#### How do we tell React to show HTML?



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### **React Components**

Functions that return JSX (stuff that looks like HTML)

Tells React what to show on the screen

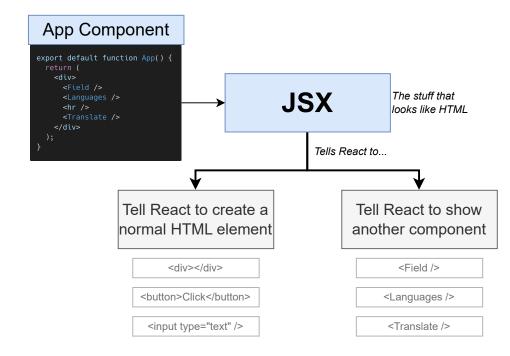
A project can have many components that work together

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### ContactList Component

### Final HTML Output

This is what gets shown on the screen

```
<div>
<h1>Your Friends</h1>

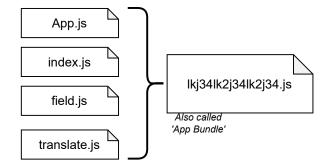
Samantha
Alex
</di>
</di>
```

All of your project's JS files are 'bundled'
together into a single file, then placed onto a server

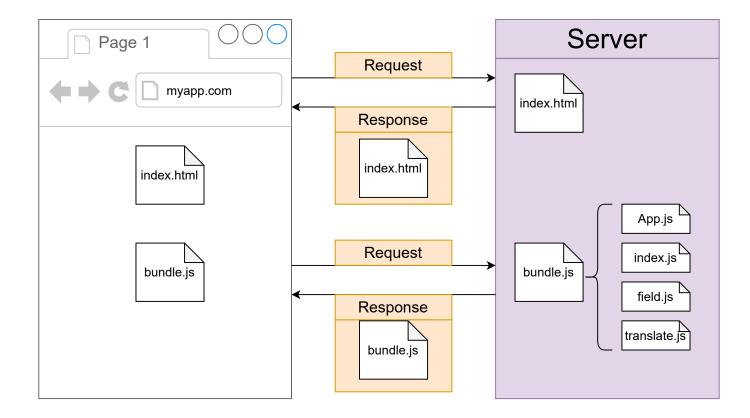
User makes a request to the server and gets an HTML file + the bundle

User's browser executes your code

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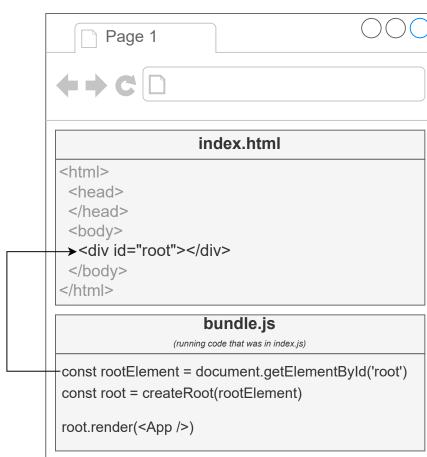


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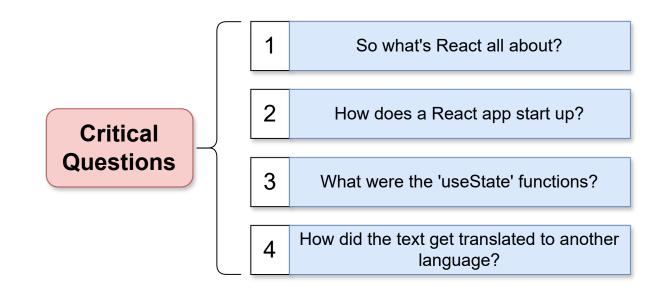
### **React Startup Process**

All inside the index.js file

- 1 Find the div with id of 'root' in the DOM
- 2 Tell React to take control of that element
- Tell React to get JSX from the App component, turn it into HTML, and show it in the root



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'useState' is a function that works with React's "state" system

State is like a variable in React

State is used to store data that changes over time

Whenever state changes, React automatically updates content on the screen

Our app had three pieces of data that changed

The text the user typed into the text input

Language the user wanted to translate text to

The result of the translation

How did the text get translated to another language?

Text from input

Selected Language

Translate Component

Did the text or language change?

If so, make a network request with the new text/language

Translate API