

## React Tutorial

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# React Getting Started

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To use React in production, you need npm which is included with [Node.js](#).

To get an overview of what React is, you can write React code directly in HTML.

But in order to use React in production, you need npm and [Node.js](#) installed.

## React Directly in HTML

The quickest way start learning React is to write React directly in your HTML files.

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Start by including three scripts, the first two let us write React code in our JavaScripts, and the third, Babel, allows us to write JSX syntax and ES6 in older browsers.

You will learn more about JSX in the [React JSX](#) chapter.

## Example

Include three CDN's in your HTML file:

```
<!DOCTYPE html>
<html>
  <head>
    <script src="https://unpkg.com/react@18/umd/react.development.js" crossorigin="anonymous"></script>
    <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"></script>
    <script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>
  </head>
  <body>

    <div id="mydiv"></div>

    <script type="text/babel">
      function Hello() {
        return <h1>Hello World!</h1>;
      }
    </script>
  </body>
</html>
```

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```
</script>

</body>
</html>
```

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This way of using React can be OK for testing purposes, but for production you will need to set up a **React environment**.

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## Setting up a React Environment

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If you've previously installed `create-react-app` globally, it is recommended that you uninstall the package to ensure npx always uses the latest version of `create-react-app`.

To uninstall, run this command: `npm uninstall -g create-react-app`.

Run this command to create a React application named `my-react-app`:

```
npx create-react-app my-react-app
```

The `create-react-app` will set up everything you need to run a React application.

## Run the React Application

Now you are ready to run your first *real* React application!

Run this command to move to the `my-react-app` directory:

```
cd my-react-app
```

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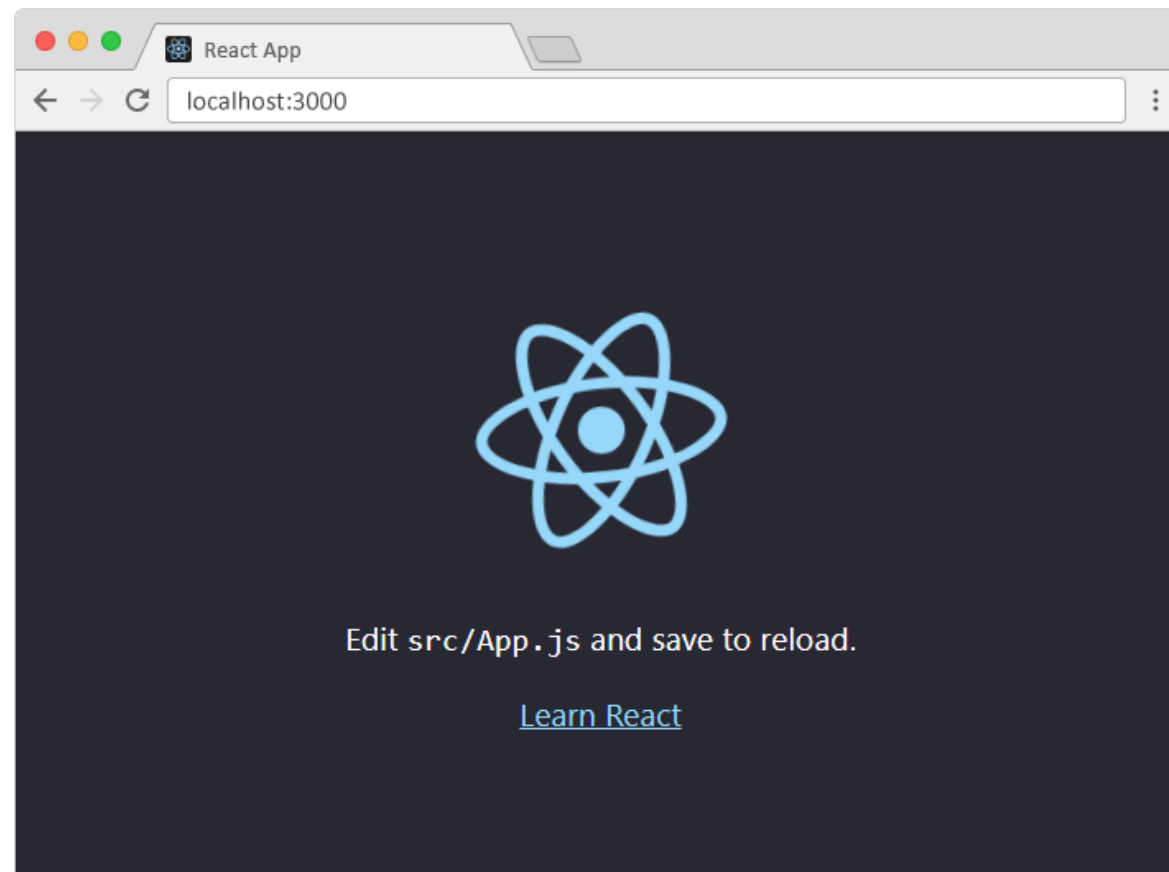
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```
npm start
```

A new browser window will pop up with your newly created React App! If not, open your browser and type **localhost:3000** in the address bar.

The result:



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So far so good, but how do I change the content?

Look in the `my-react-app` directory, and you will find a `src` folder. Inside the `src` folder there is a file called `App.js`, open it and it will look like this:

/myReactApp/src/App.js:

```
import logo from './logo.svg';
import './App.css';

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <img src={logo} className="App-logo" alt="logo" />
        <p>
          Edit <code>src/App.js</code> and save to reload.
        </p>
        <a
          className="App-link"
          href="https://reactjs.org"
          target="_blank"
          rel="noopener noreferrer"
        >
          Learn React
        </a>
      </header>
    </div>
```

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Try changing the HTML content and save the file.

Notice that the changes are visible immediately after you save the file, you do not have to reload the browser!

## Example

Replace all the content inside the `<div className="App">` with a `<h1>` element.

See the changes in the browser when you click Save.

```
function App() {  
  return (  
    <div className="App">  
      <h1>Hello World!</h1>  
    </div>  
  );  
}  
  
export default App;
```

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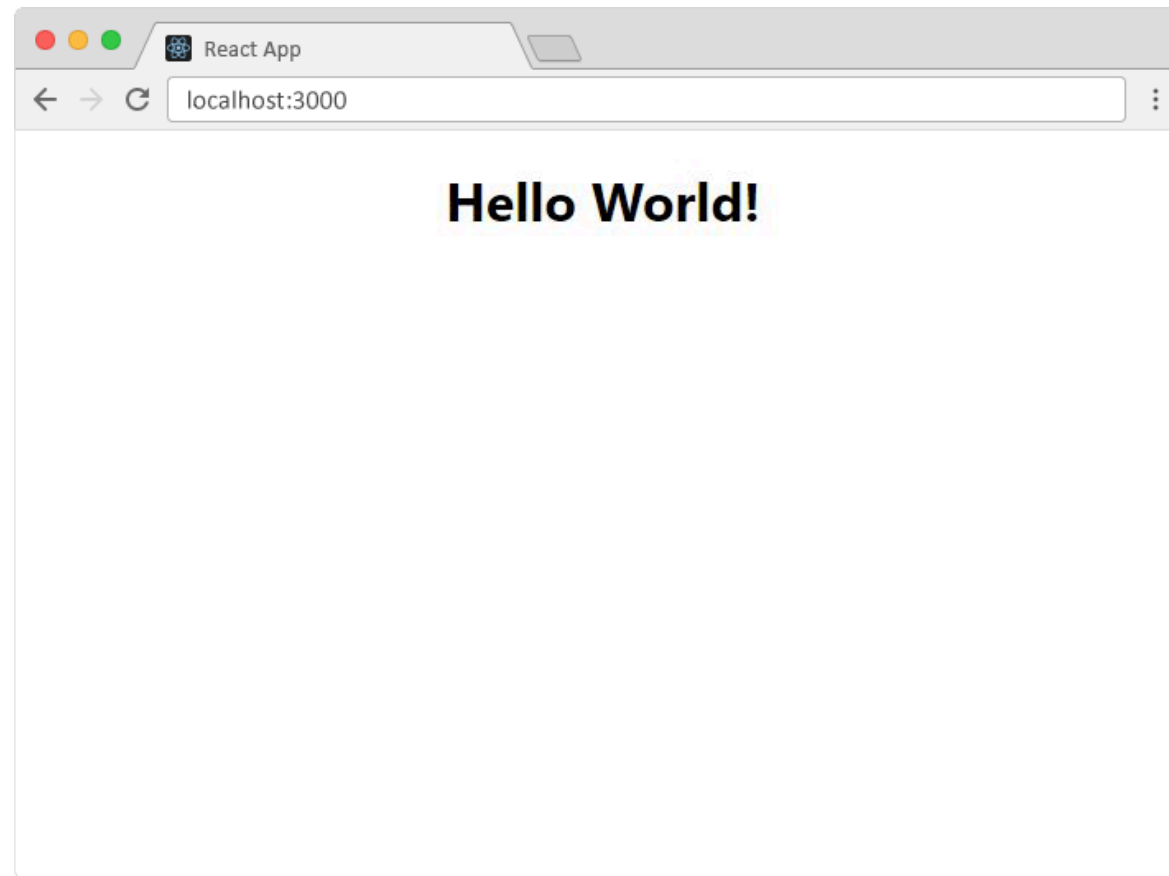
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Notice that we have removed the imports we do not need (logo.svg and App.css).

The result:



## What's Next?



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aspects of React, and how they are displayed in the browser.

If you want to follow the same steps on your computer, start by stripping down the `src` folder to only contain one file: `index.js`. You should also remove any unnecessary lines of code inside the `index.js` file to make them look like the example in the "Show React" tool below:

### Example

Click the "Run Example" button to see the result.

`index.js` :

```
import React from 'react';
import ReactDOM from 'react-dom/client';

const myFirstElement = <h1>Hello React!</h1>

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(myFirstElement);
```

[Run Example »](#)

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What is a correct command to create a React application

- ☐ `npx create-react-app my-team`
- ☐ `npx start-react-app my-team`
- ☐ `npx init-react-app my-team`

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