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React

# React Tutorial

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React is a JavaScript library for building user interfaces.

React is used to build single page applications.

React allows us to create reusable UI components.

[Start learning React now >](#)

## Learning by Examples

Our "Show React" tool makes it easy to demonstrate React, it shows both the code and the result.



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

class Test extends React.Component {
  render() {
    return <h1>Hello World!</h1>;
  }
}

ReactDOM.render(<Test />, document.getElementById('root'));
```

[Run Example »](#)

## Create React App

In order to learn and test React, you should set up a React Environment on your computer.

This tutorial uses the `create-react-app`.

The `create-react-app` is an officially supported way to create React applications.

If you have NPM and Node.js installed, you can create a React application by first installing the create-react-app.

Install create-react-app by running this command in your terminal:

```
C:\Users\Your Name>npm install -g create-react-app
```

You are now ready to create your first React application!

Run this command to create a React application named `myfirstreact` :

```
C:\Users\Your Name>npx create-react-app myfirstreact
```

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

**Note:** This tutorial uses `create-react-app` to demonstrate React examples. You will not be able to run the same examples on your computer if you do not install the `create-react-app` environment.

## Run the React Application

If you followed the two commands above, you are ready to run your first *real* React application!

Run this command to move to the `myfirstreact` directory:

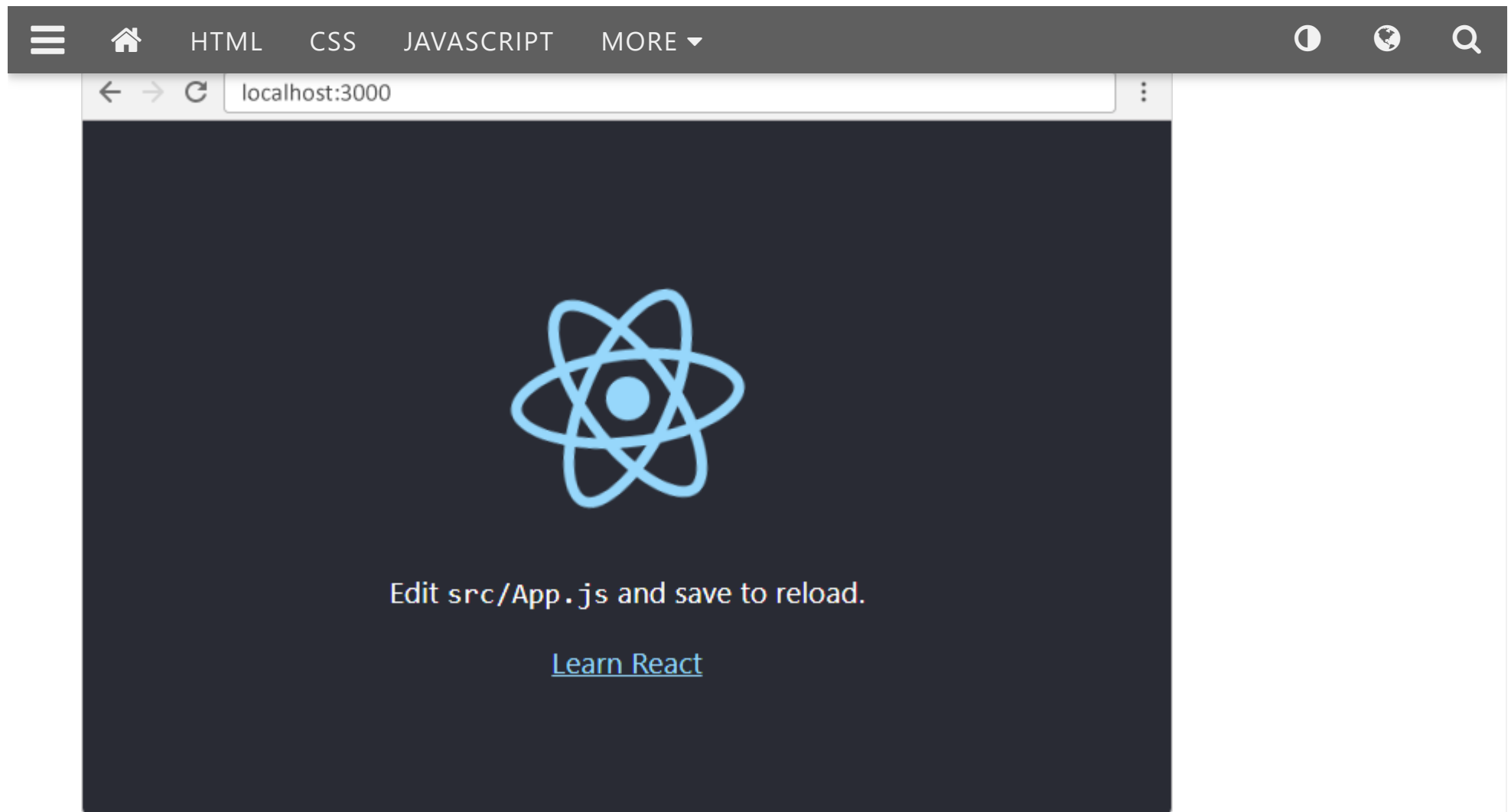
```
C:\Users\Your Name>cd myfirstreact
```

Run this command to execute the React application `myfirstreact`:

```
C:\Users\Your Name\myfirstreact>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:



You will learn more about the create-react-app in the [React Get Started](#) chapter.



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Before starting with React.JS, you should have intermediate experience in:

- HTML
- CSS
- JavaScript

You should also have some experience with the new JavaScript features introduced in ECMAScript 6 (ES6), you will learn about them in the [React ES6](#) chapter.

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