

React.JS Hello World(s)

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Topics

- React concepts
 - Components
 - JSX
 - Rendering



- Live Coding

Components

Built In

```
<div>  
  <h1>This is great</h1>  
  <span> Super </span>  
  <svg id="nice" width="100" height="200"></svg>  
</div>
```

Components

Custom

```
<div>

  <HelloWorld name="earth" />

  <WhatToDo>
    <BeNice />
    <FeelGood />
    <Relax />
  </WhatToDo>

</div>
```

Class Components

```
import React from 'react';

class HelloWorld extends React.Component {

  componentDidMount() {
    console.log('hello')
  }

  render() {
    return <p>Hi, I'm Groot!</p>
  }
}

<HelloWorld />
```

Valid Javascript?

```
render() {  
  return <p>Hi, I'm Groot!</p>  
}
```

Nope

Unexpected token <

JSX + Babel

```
render() {  
  return <p>Hi, I'm Groot!</p>  
}
```



```
render() {  
  return React.createElement(  
    'p',  
    null,  
    `Hi, I'm Groot!`  
  )  
}
```


Functional Components

```
const HelloWorld = function () {  
  return <p>Hi, I'm Groot!</p>  
}
```

```
<HelloWorld />
```

Arrow Notation

```
const HelloWorld = function () {  
  return <p>Hi, I'm Groot!</p>  
}
```

```
const HelloWorld = () => {  
  return <p>Hi, I'm Groot!</p>  
}
```

```
const HelloWorld = () => <p>Hi, I'm Groot!</p>  
<HelloWorld />
```

Properties

```
<HelloWorld name="groot" />
```

```
function (props) {  
  return <p>Hi, I'm {props.name}!</p>  
}
```

```
(props) => {  
  return <p>Hi, I'm {props.name}!</p>  
}
```

```
({name}) => <p>Hi, I'm {name}!</p>
```

Render

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

ReactDOM.render(
  <HelloWorld name="FroSo" />,
  document.getElementById('root')
);
```

Hi, I'm FroSo!

Live Code

- Online Editor
- From Scratch
- Create React App

react-live

Hi, I'm Functional Component!

```
() => {  
  const name = "Functional Component";  
  return (<p>Hi, I'm {name}!</p>)  
}
```

Online Editor

- [CodePen](#)
- [CodeSandBox](#)
- [Stackblitz](#)
- [React Live](#)

From Scratch

- [index.html](#)

React CDN Links

```
<script crossorigin  
src="https://unpkg.com/react@16/umd/react.development.js">  
</script>
```

```
<script crossorigin src="https://unpkg.com/  
react-dom@16/umd/react-dom.development.js">  
</script>
```

Babel

```
<script type="application/javascript"  
src="https://unpkg.com/babel-standalone@6.26.0/babel.js">  
</script>
```

Babel Cli

```
npm install babel-cli babel babel-plugin-transform-react-jsx
```

```
./node_modules/.bin/babel  
--plugins transform-react-jsx index.jsx
```

Create React App

- [Create React App 2](#)
- [node.js](#) 8 required
 - Windows | macOS | Linux | Source

```
npm init react-app helloworld
```

Thank you for your attention

By [@Alexander Thurn](#)

Slides [Github](#)

Brainstorming

- <http://react-meet.froso.de>