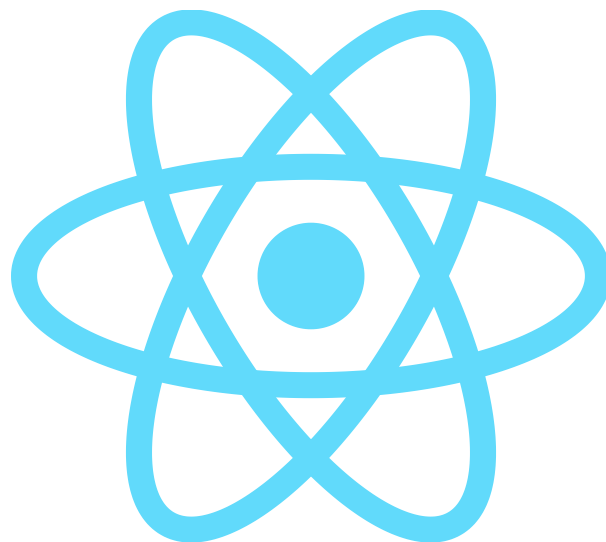# Programowanie App Internetowych

React

React

Benefits:

- JSX - JSX is a syntax extension to JavaScript with react;

- Virtual Document Object Model (DOM)

- Performance - There are several ways to speed up the react application by using virtual DOM because it reduces the re-render time;

- One-way data-binding - Information flows in one direction.

JSX

From react.dev:

```
function MyButton() {
  return (
    <button>I'm a button</button>
  );
```

JSX

```
function MyButton() {
  return (<button>I'm a button</button>);
}


const app = document.getElementById('app');
ReactDOM.render(<><h1>Develop. Preview. Ship. 🚀 </h1><MyButton /></>, app);
```

JSX

```
function MyButton() {
  return (<button>I'm a button</button>);
}


var front_color = 'red'


const app = document.getElementById('app');
ReactDOM.render(<>
  <h1 style={{color: front_color }}>Develop. Preview. Ship. 🚀 </h1>
  <MyButton />
</>, app);
```

React

- React Props
- ReactJS State
- ReactJS Components
- React with Redux