React

Lecture 3



Stateless Functional Component

- Made using a Function instead of a Class that's why functional
- Does not have any state that's why stateless
- Still a React Component that's why Component
- Both anonymous and arrow functions can be used to declare a SFC
- Takes the props as an argument

Stateless Functional Component

Default Props

If you are interested, Have a look at this:

https://reactjs.org/docs/typechecking-wi th-proptypes.html#default-prop-values

React Dev Tool

- Google: "React Dev Tool For Chrome (or Your favorite browser)"
- Add it to your browser
- Restart your browser
- Reload the page

React Component Lifecycle

- Various situations of a component

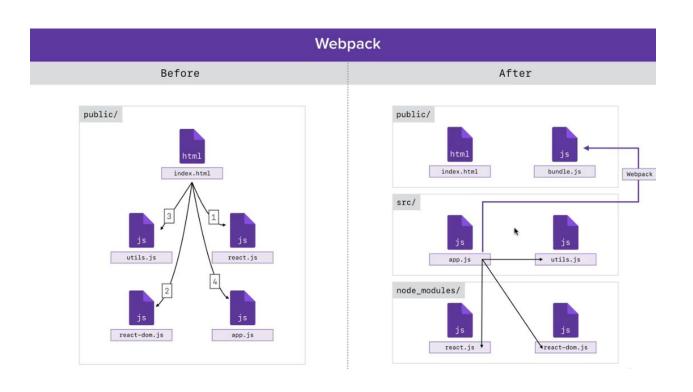
https://reactjs.org/docs/react-component.html# the-component-lifecycle

http://projects.wojtekmaj.pl/react-lifecycle-met hods-diagram/

Life Cycle Example (+ Local Storage)

```
componentDidMount() {
  const json = localStorage.getItem('options');
 const options = JSON.parse(json);
 if (options) {
    this.setState(() => ({ options }));
componentDidUpdate(prevProps, prevState) {
 if (prevState.options.length !== this.state.options.length) {
    const json = JSON.stringify(this.state.options);
   localStorage.setItem('options', json);
componentWillUnmount() {
  console.log('componentWillUnmount');
```

What/Why Webpack



Webpack Config

Install webpack using npm (v3.1.0)

```
const path = require('path');

module.exports = {
  entry: './src/app.js',
  output: {
    path: path.join(__dirname, 'public'),
    filename: 'bundle.js'
  }
};
```

Define Entry and Output Using Path Module inside webpack.config.js

ES6 Import/Export

```
console.log('utils.js is running');

export const square = (x) => x * x;

export const add = (a, b) => a + b;

const subtract = (a, b) => a - b;

export default subtract;

// export { square, add, subtract as default };

// exports - default export - named exports
```

```
// import './utils.js';
import anythingIWant, { square, add } from './utils.js';

console.log('app.js is running');
console.log(square(4));
console.log(add(100, 23));
console.log(anythingIWant(100, 20));
```

Using Babel With Webpack

- Install babel-core@6.25.0 and babel-loader@7.1.1
- Add Rules using babel loader inside webpack config

Create a .babelrc file and add all the presets