# Vorbereitung

NodeJS installieren

npx create-react-app reactsample

cd reactsample

npm start

<http://localhost:3000/>

# Übung 1

## Timer.js

import React from 'react';

class Timer extends React.Component {

constructor(props) {

super(props);

}

render() {

return (

<div>{new Date().toLocaleTimeString()}</div>

);

}

}

export default Timer;

## App.js

import Timer from './Timer';

render() {

return (

<div className="App">

<header className="App-header">

<img src={logo} className="App-logo" alt="logo" />

</header>

<main>

<Timer></Timer>

</main>

</div>

);

}

## App.css

.App-logo {

height: 20vmin;

…

}

.App-header {

min-height: 40vh;

…

}

# Übung 2

## Timer.js

import React from 'react';

class Timer extends React.Component {

constructor(props) {

super(props);

this.state = { date: new Date()};

setInterval(() => this.tick(), 1000);

}

tick() {

this.setState({ date: new Date()});

}

render() {

return (

<div>{this.state.date.toLocaleTimeString()}</div>

);

}

}

export default Timer;

# Übung 3

## Login.js

import React from 'react';

class Login extends React.Component {

constructor(props) {

super(props);

this.state = { isLoggedIn: false };

this.onClick = this.onClick.bind(this);

}

onClick(e) {

e.preventDefault();

this.setState({ isLoggedIn: !this.state.isLoggedIn });

}

render() {

let welcomeMessage;

if (this.state.isLoggedIn) {

welcomeMessage = <div>{'Welcome ' + this.props.name}</div>;

}

return (

<React.Fragment>

<button onClick={this.onClick}>{this.state.isLoggedIn ? 'Logout' : 'Login'}</button>

{welcomeMessage}

</React.Fragment>

);

}

}

export default Login;

## App.js

import Login from './Login';

render() {

return (

<div className="App">

<header className="App-header">

<img src={logo} className="App-logo" alt="logo" />

</header>

<main>

<Timer></Timer>

<Login name="Markus"></Login>

</main>

</div>

);

}

# Weiteres

npm install axios

npm install rxjs

npm install react-materialize

<head>

<!-- Import Google Icon Font -->

<link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

<!-- Import materialize.css -->

<link href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.98.0/css/materialize.min.css" rel="stylesheet">

</head>

<body>

<!-- Import jQuery before materialize.js -->

<script src="https://code.jquery.com/jquery-2.1.1.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.98.0/js/materialize.min.js"></script>

<!-- And then your bundled js -->

<script src="path/to/your/bundle.js"></script>

</body>

JSX

State

Props

Lifecycles <https://engineering.musefind.com/react-lifecycle-methods-how-and-when-to-use-them-2111a1b692b1>

Materialize

RxJS