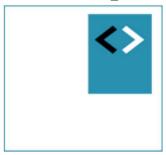
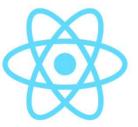


### React Fundamentals Short recap - day #1



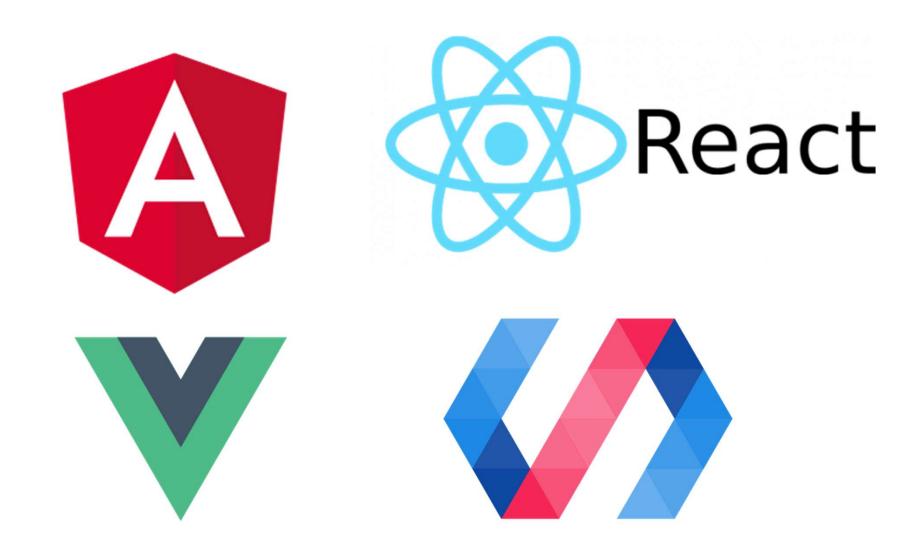
Peter Kassenaar – info@kassenaar.com

#### **Day #1**

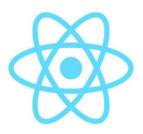


- Introduction overview of the front-end landscape
- React tooling installation
  - Node.js / npm & npx
  - Create React App
- The structure and architecture of React apps.
  - General structure, adding components, loading components, adding functionality
- Class based vs. Function based components
- state and props in components

#### Front-end Frameworks – the big four



#### 3 Basic principles in every React App

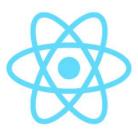


- 1. Components
- 2. Reactive Updates
- 3. Virtual DOM in memory

#### Important Files

- Package.json
- Index.js
- App.js

#### **Starting your app**

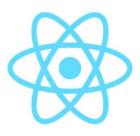


npm start (react-scripts start) does a lot of stuff for you
under the covers:

- Kicks of Babel for transpiling JSX
- Compile SASS to CSS
- Webpack for bundling files
- Sets up webserver at <a href="http://localhost:3000/">http://localhost:3000/</a>
- Sets up Live Reload

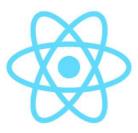
• ...

#### **Principles we covered:**

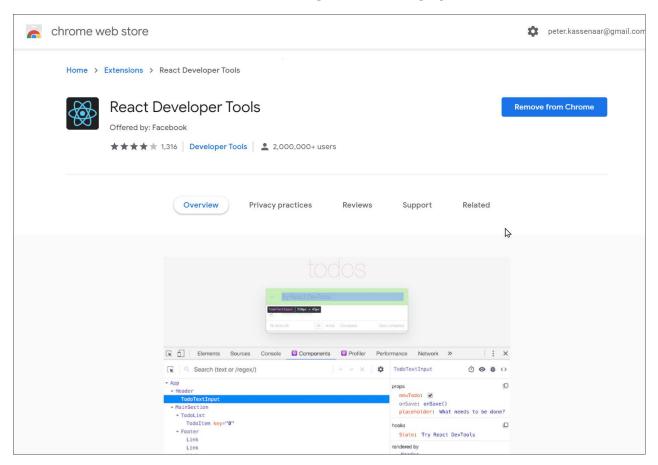


- JSX (looks like HTML, but isn't)
- State
  - const [someVar, setSomeVar] in functions
  - state={...} and setState() in classes
- Concept: "Lifting state up"
  - Statefull- / Functional- / Smart- / Container-components
  - Stateless- / Presentational- /View- / Dumb-components
- Passing props: variables and functions
  - Inline functions to trigger state changes
    (<button onClick="() => someFunction()">)

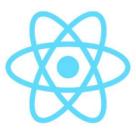
#### Extra - React DevTools



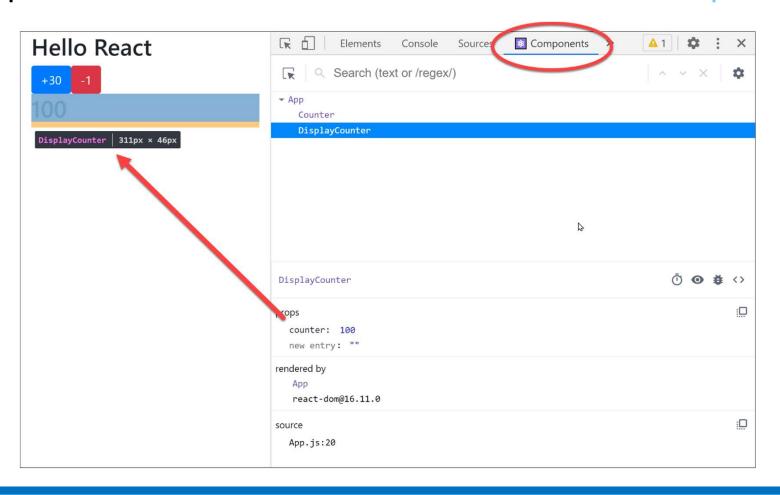
Inspect the structure of your application in the DOM



#### **Install in Chrome**



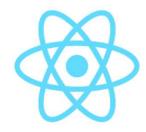
Open Chrome DevTools and choose tab Components



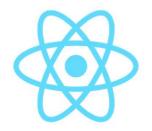
#### Other

# Questions?

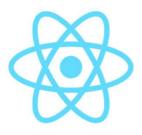
#### **Today:**



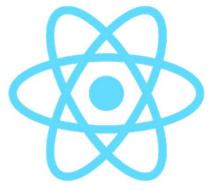
- Importing and looping over data
- Selecting specific data and showing details
- Binding to images
- Conditional rendering
- Lifecycle hooks
  - More on React Hooks, useEffect()
- Styling components
- Forms and handling user input
  - Concept: Controlled~ vs. Uncontrolled components



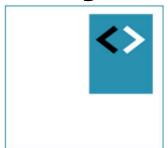
#### **Tomorrow:**



- Wrapping up React Forms
- Using Http and external API's complete Apps
  - Using your own API
- React Router
  - Basic routing
  - Routing parameters
- TypeScript Intro
- Deployment



## React Fundamentals Day #3



Start 08:45 uur