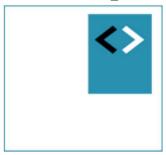
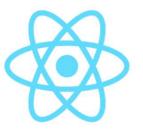


# React Fundamentals Short recap - day #1



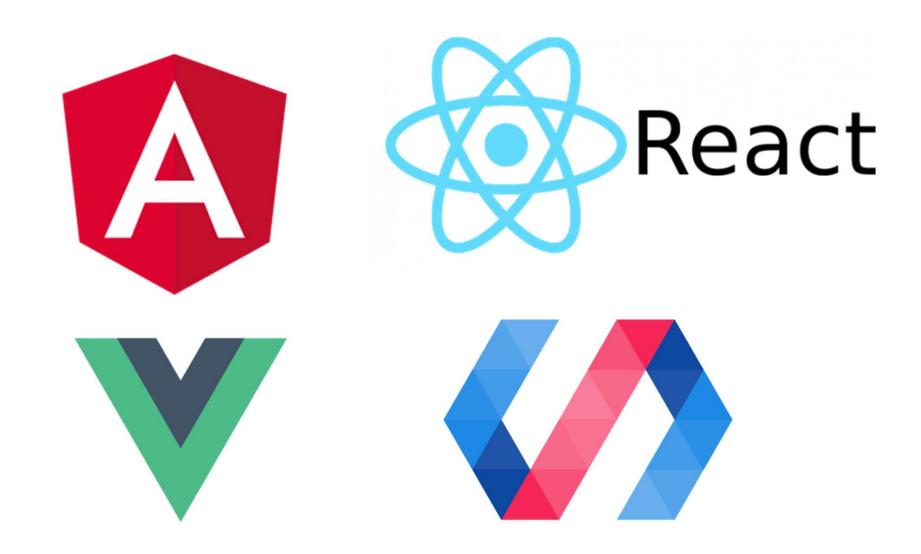
Peter Kassenaar – info@kassenaar.com

#### **Day #1**

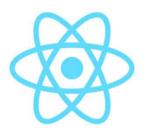


- Introduction overview of the front-end landscape
- React tooling installation
  - Node.js
  - Create React App
- The structure and architecture of React apps.
  - General structure, adding components, loading components, adding functionality
- Class based vs. Function based components
- state and props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

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



## 3 Basic principles in every React App

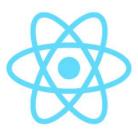


- 1. Components
- 2. Reactive Updates
- 3. Virtual DOM in memory

#### Important Files

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

#### **Starting your app**

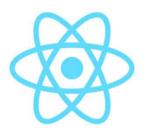


npm start (react-scripts start) does a lot of stuff for you
under the covers:

- 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

• ...

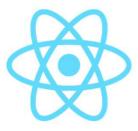
## **Principles we covered:**



- JSX (looks like HTML, but isn't)
- State
  - const [someVar, setSomeVar] in functions
  - state={...} and setState() in classes
- "Lifting state up"
- Passing props: variables and functions
  - Inline functions to trigger state changes (<button onClick="()

```
=> someFunction()">)
```

#### Yesterday:



"Using class components if inheritance is needed?"

Facebook: "use composition over inheritance"

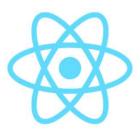
https://reactjs.org/docs/composition-vs-inheritance.html

#### So What About Inheritance?

At Facebook, we use React in thousands of components, and we haven't found any use cases where we would recommend creating component inheritance hierarchies.

Props and composition give you all the flexibility you need to customize a component's look and behavior in an explicit and safe way. Remember that components may accept arbitrary props, including primitive values, React elements, or functions.

#### Using bootstrap.js?

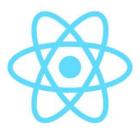


- We also need popper.js and jquery.js
- npm install popper.js jquery.js
- After that, just import in main.js
- Use Bootstrap-examples as described...
- Beware! We now have two libraries updating the DOM!

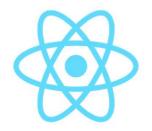
## Other

# Questions?

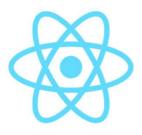
#### **Today:**



- Loading external data and looping over data collections with .map()
- Binding to images
- Conditional rendering
- Lifecycle hooks
- Styling components
- Forms and handling user input



#### **Tomorrow**



- Wrapping up Forms (submitting)
- Using Http and external API's complete Apps
- React Router
  - Basic routing
  - Routing parameters
- useEffect() hook
- Creating your own hooks
- Redux introduction
- Deployment