

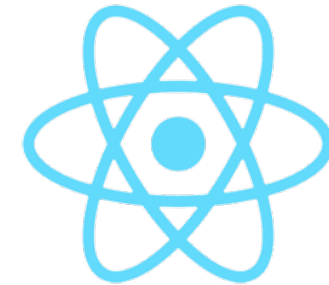
React JS

an introduction

“React is, in my opinion, the premier way to build big, fast Web apps with JavaScript.”

- Pete Hunt

A World of components



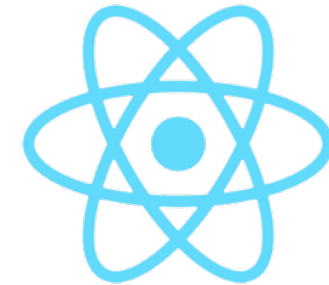
A World of components



Angular is a comprehensive framework

js into HTML

2 way data binding



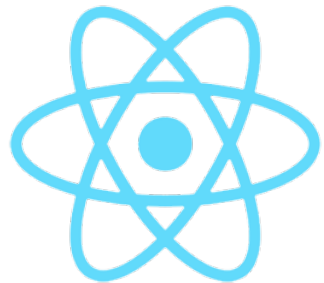
ReactJS is just a library

HTML into js

Uni-directional data binding

<https://medium.freecodecamp.com/angular-2-versus-react-there-will-be-blood-66595faafd51#.y1al5rkx>

React JS: the new features



JSX: Writing markup in Javascript

Virtual DOM: Enhanced performance

Isomorphic Rendering: Renders for all

Unidirectional flow: No two way binding

Flux: unidirectional data flow



A pattern: not a library

Unidirectional: no crossings

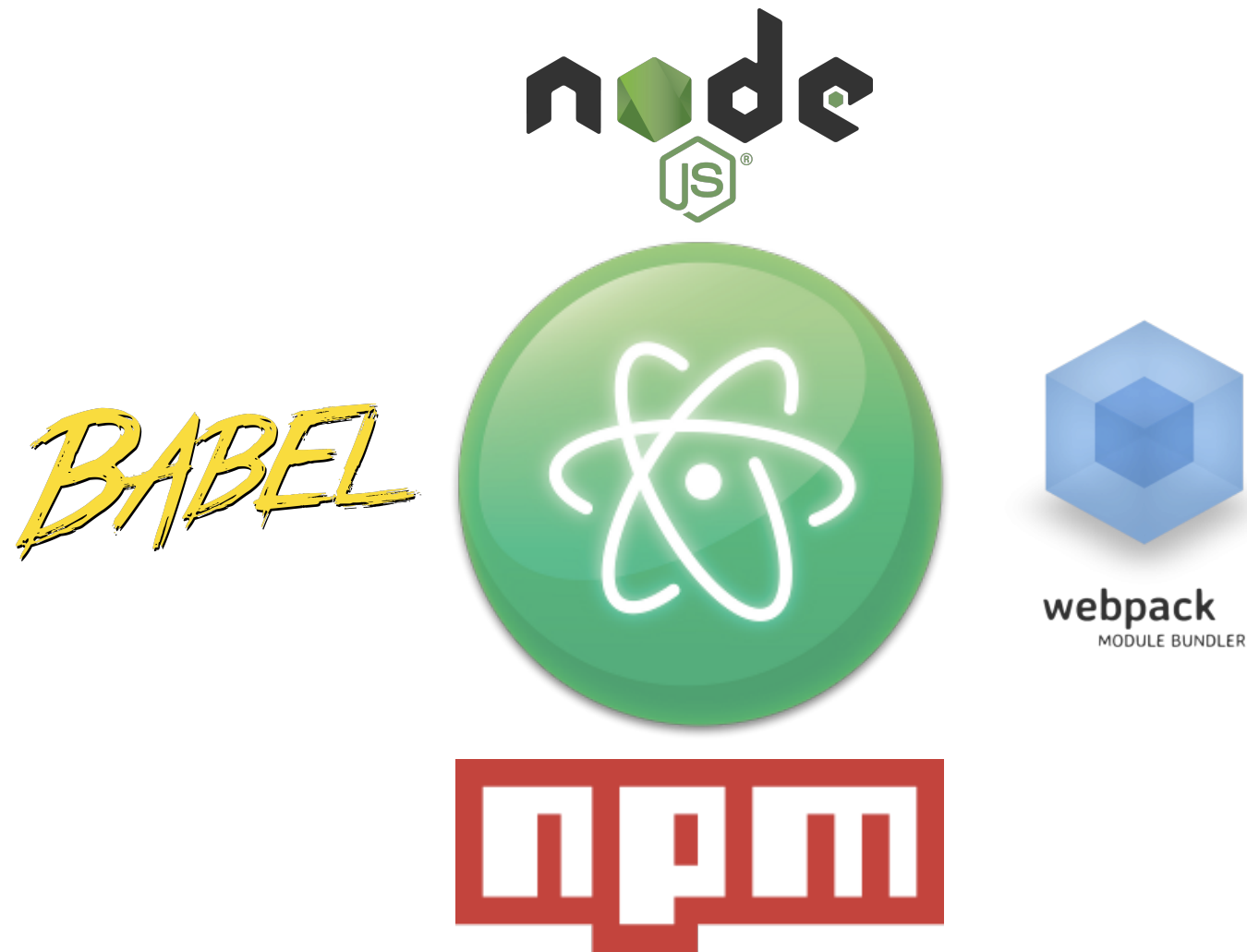
Flux: unidirectional data flow



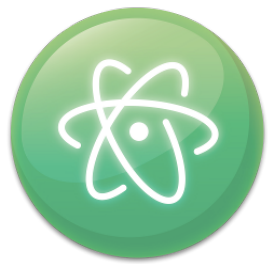
Redux

single source of truth

Environmental dependencies



Editor



Atom



Visual Studio
Code



Jetbrains
webstorm



Sublime



script

```
"scripts": {
  "prestart": "babel-node tools/startMessage.js",
  "start": "npm-run-all --parallel test:watch open:src lint:watch",
  "open:src": "babel-node tools/srcServer.js",
  "lint": "node_modules/.bin/esw webpack.config.* src tools",
  "lint:watch": "npm run lint -- --watch",
  "test": "mocha --reporter progress tools/testSetup.js \"src/**/*.test.js\"",
  "test:watch": "npm run test -- --watch",
  "clean-dist": "npm run remove-dist && mkdir dist",
  "remove-dist": "node_modules/.bin/rimraf ./dist",
  "build:html": "babel-node tools/buildHtml.js",
  "prebuild": "npm-run-all clean-dist test lint build:html",
  "build": "babel-node tools/build.js",
  "postbuild": "babel-node tools/distServer.js"
},
```

package.json

Webpack



a module bundler generates static assets

It can build and bundle CSS, preprocessed CSS, compile-to-JS languages (like CoffeeScript), images

Babel

The Babel logo, featuring the word "BABEL" in a stylized, yellow, hand-drawn font with a black outline, positioned to the left of a vertical blue line.

Browsers does not understand ES6!

ESLint



Pluggable linting utility for JavaScript

Summary

Session – 1

- ReactJS – a whole new world!
- One directional data flow – Flux
- Redux – single source of truth
- Webpack – module bundler
- Babel – ES6 to ES5 transpiler
- ESLint – Error free coding
- npm script