

Framework Training

React

London July 2018

Course outline

OVERVIEW

- This course introduces the **React** Javascript framework from Facebook.
- The course is intended for web developers who have used **Javascript** or another programming language.

TOOLS, SETUP

- You will need admin rights on your machine.
- We will install the following tools during the course.
 - The Chrome **React DevTools**
 - **Atom** text editor.
 - **Node** and **NPM**
 - The **create-react-app** CLI tool

JAVASCRIPT REVIEW

- **ES5** fundamentals: variables, arrays, objects, functions.
- **Functional** programming: map, filter, reduce, forEach
- **Scope**: closure, global namespace, this, bind.
- **ES6**: arrow functions, constants, destructuring, classes, modules, template literals.

REACT

- Creating **Components**, the fundamental building blocks of a React application.
- Passing arguments into components using **props**.
- Managing **state** inside components.
- The advantages of **stateless** components.
- Using **map** and **keys** to iterate over arrays of data.
- Adding **prop-types** to component definitions.
- Building React apps as a **composition** of components.
- Using **Fetch** to read external **JSON** data.
- The **Container-Presentation** pattern
- Building **forms** with validation in React.
- Understanding the component **Life Cycle**.
- Creating a single page application with **React Router**.

- Developing **higher order** components (HOCs)
- Using the **Redux** state management pattern in React.