

ReactJS Training

 **3 days** (21 hours)

 **Up to 8 participants**

Contact :
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Training goal

This training will teach the participants the basic mechanisms of ReactJS along with ECMA 2016.

Detailed contents

- The training is regularly updated to be consistent with the latest **Javascript best practices**
- The focus is on new best practices as well as “**JS Next**”
- The training is based on an intensive practice of **React** and its tools.
- The training material is a complete project with the emphasis on **architecture** and **best practices**.

Program

1. Presentation

- 1.1 KNP Labs
- 1.2 ReactJS
- 1.3 Knoodle

2. The first component

- 2.1 Bootstrap html file
- 2.3 What is a component
- 2.4 How to create and render a component
- 2.5 Using JSX

3. Communication between components

- 3.1 Using many components
- 3.2 Using `this.props.g`

4. Styles and NPM

- 4.1 Installing a css library
- 4.2 Discovering NPM

5. ECMA2016 with Babel

- 5.1 Discovering Babel
- 5.2 Installing and configuring Babel
- 5.3 Discovering ECMA 2016

6. ECMA2016 and the modules

- 6.1 Understanding modules

- 6.2 Using a module loader
- 6.3 Configuring a bundler
- 6.4 Advanced NPM scripts

7. The React Router

- 7.1 Installation
- 7.2 Guidelines
- 7.3 Refactoring existing components

8. React and « Controlled components »

- 8.1 Handling a Survey submission
- 8.2 Discovering form events
- 8.3 Discovering states
- 8.4 Making components communicate

9. Using a real HTTP Server

- 9.1 Introduction to HTTP and RestAPI in JSON
- 9.2 Installation
- 9.3 Resolving « Core Security » issues
- 9.4 React component lifecycles

10. Api Client, Modules and IOC principles with ECMA2016

- 10.1 Creating an API client class
- 10.2 Understanding « Basic Inversion Of Control » patterns
- 10.3 Setting up the `index.js` IOC pattern

11. Application and configuration

- 11.1 Versioning configuration
- 11.2 Using configuration
- 11.3 NPM and Hooks

12. Answer to a Survey

- 12.1 Understanding and handling form events
- 12.2 Redirection and Context in React

13. Navigation and « Application » Component

- 13.1 Enhanced routing
- 13.1 Setting up application component

14. New Routes!

- 14.1 Adding popular and latest surveys routes
- 14.2 Using « url utilities »
- 14.3 Discovering synchronisation troubles

15. React and lifecycle mess

- 15.1 Solving the synchronisation troubles
- 15.2 Enjoy a working app!

16. Let's start again with Flux!

- 16.1 Discovering flux architecture
- 16.2 Setting up a flux architecture
- 16.3 Understanding data flow
- 16.4 Refactoring the app with flux

17. Conclusion

- 17.1 Links to go further
- 17.2 Q&A

Prerequisites

The prerequisites are a laptop with a good Internet connection and **NodeJS/NPM** (\geq v5.0).

If the training is held in the Client's premises, we require for the Client to provide a **separate room** for the training to take place, big enough to accommodate all participants and the trainer, for the whole duration of the training. A **video projector** or **wide screen TV** must be provided so that the participants can see the trainer's laptop computer screen. A paperboard or white board would be much appreciated.

Provided learning material

The trainer will give out learning documents on a PDF format at the end of the training.