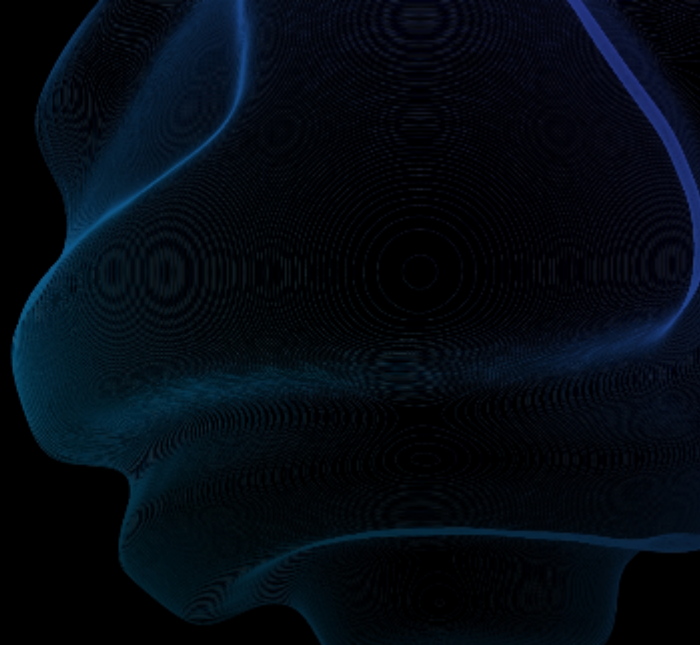


# Vue.js

2jours / 14h



## Target audience

- Master the key architectural concepts of Vue.js
- Develop the graphical interface for complete web or single page applications with Vue.js
- Implement the development tools specific to Vue.js
- Implement major Vue.js plugins

## Prerequisites

Developers, integrators, software architects, technical project managers

## Course Outline

1, Introduction to Vue.js

- Principles and philosophy
- Comparison with other major frameworks
- Roadmap
- Vue.js Installer

Workshops

- Vue.js installation
- Quick win: getting started with Vue.js

## 2. Core Library

- Instance, life cycle and properties
- Reactivity
- Template
- Directives
- Workshops:
- Implementation reactive properties
- Use of directives: conditionals, lists, events, model, style
- React to the life cycle of the Vue instance

## 3. Components

- Definition
- Component Registration
- Props
- Template, slots
- Tree structure and communication between components
- Dynamic components
- Animations and transitions

Workshops:

- Creation of a single view using several custom components

## 4. Reusability and Composition

- Mixins
- Filters
- Plugins

Workshops:

- Creation and use of mixins, filters and plugins

## 5. Tools

- Vetur, VSCode client
- Devtools, browser plugin
- Vue CLI, RAD console
- TypeScript

Workshops:

- Implementation of a complete development environment

## 6. Single View Components

- Single File Components
- Different ways to create a SFC

Workshops:

- Create a Single File Component

## 7. Vue Router library

- Principles
- Installation
- Router access
- Features: dynamic, nested, programmatic navigation ...
- Navigation Guards

Workshops:

- Creation of a Single Page Application with Router

## 8. Vuex

- Application Structure and State Management Pattern
- Installation
- Implementation
- Alternative Libraries

Workshops:

- Centralized state management of an application using Vuex