

**Advanced Vue**

**Course Number:** SCRPT-162
**Duration:** 2 days

**Overview**

This Advanced Vue training course builds upon our [Introduction to Vue course](file://training/vue-introduction) to take your Vue skills to the next level with features including transitions, routing, and Vuex.

**Prerequisites**

Students should have taken Accelebrate's [Introduction to Vue course](file:////training/vue-introduction) or have equivalent knowledge.

**Materials**

All attendees receive comprehensive courseware.

**Software Needed on Each Student PC**

* Google Chrome
* Other modern browsers as desired
* Node.js
* IDE/development environment of your choice
* Other free software and lab files that Accelebrate would specify

**Objectives**

* Build fun, modern user experiences thanks to Vue’s transitions and animations
* Configure the Vue router
* Manage dynamic routes
* Extract data from route information
* Configure Vue.js to use Vuex, the state management library
* Test Vuex to ensure the integrity of state manipulation
* Plug Vuex into a back-end REST server

**Outline**

* Introduction and setup
	+ Verify setup
		- Node.js and npm
		- IDE
		- Git
		- Class repo
	+ Assumptions
		- Vue in general
		- The Vue CLI
		- Single file components
* Transitions
	+ Animating changes in Vue.js
	+ List transitions
		- Entering and leaving
		- When list items move (e.g. in sorting)
		- Reusing transitions
		- Making transitions dynamic
	+ State transitions
		- What to listen for
		- Watching the watchers
		- Dynamic state transitions
		- Turning transitions into components
* Introduction to Routing
	+ What is routing and what does it do for me?
	+ Adding routing to a project
		- Via the CLI
		- Other methods
		- HTML updates
		- JS updates
	+ Matching routes
	+ Programmatic navigation
	+ Route transitions
* Route matching
	+ Matching dynamic routes
		- Updating on param changes
		- Catch-alls and 404s
	+ Nested routes
	+ Named routes
	+ Redirects and aliases
	+ Passing properties
* Advanced routing
	+ Navigation guards
	+ Fetching data and routing
	+ Lazy loading routes
	+ Scroll behavior
* State management with Vuex
	+ What is Vuex and what does it do for me?
	+ Installing Vuex
		- Via the CLI
		- Other methods
		- Vuex and dev tools
	+ Core concepts
		- Flux-style state management
		- State
		- Getters
		- Mutations
		- Actions
		- Modules
* Working with Vuex
	+ Structuring your application
	+ Handing form data and interactions
	+ Vuex transitions
	+ Testing Vuex
* Conclusion