

**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