

Vue.js: Templates, Bindings & Computed Properties

Learn to build Vue.js templates with data bindings, forms, events, conditional rendering and computed properties.

6

MODULES

79

TOPICS

COURSE OVERVIEW

This course covers the fundamentals of Vue.js, including installation and the lifecycle of a Vue instance. It then explains how to build templates with data bindings to text, HTML attributes, CSS properties and classes, and how to bind form inputs such as text fields, checkboxes, radio buttons and drop-down lists. It also covers responding to user events, applying event modifiers, and rendering elements and lists conditionally with directives such as v-if and v-for. Finally, it addresses monitoring data changes with watchers, improving rendering with computed properties, and formatting data with filters.

WHO THIS COURSE IS FOR

Front-End Developers

Web Developers

JavaScript Developers

UI Developers

LEARNING OBJECTIVES

- Explain the lifecycle of a Vue.js instance
- Apply data bindings to text, HTML and CSS in templates
- Bind form inputs such as text fields, checkboxes and radio buttons
- Configure input modifiers such as trim, number and lazy binding
- Implement event handlers and event modifiers in Vue.js
- Apply conditional rendering with v-if and v-for directives
- Analyse array changes using methods such as sort and splice
- Develop computed properties, watchers and filters for data changes

6 Modules, 79 Topics

01

Introducing Vue.js

TOPICS

- Why Should I Care About Vue.js?
- The Simplicity of Vue
- Running Fast with Vue
- Other Considerations for Vue
- Installing and Setting up Vue
- Installing Vue.js
- Installing Axios
- Initializing an Instance of Vue
- Mounting an Instance of Vue
- Lifecycle of a View

02

Creating Vue.js Templates

TOPICS

- Introducing Templates
- Defining Template Data
- Loading Data Properties
- Naming Properties
- Understanding Property Values
- Binding Content to a Template
- Binding Text
- Semantic Bindings
- Declarative Bindings
- One Time Bindings
- Bindings to HTML
- Binding to HTML Attributes
- Introducing the Bind Directive
- Binding to CSS Properties
- Binding to CSS Classes
- Using JavaScript Expressions

03

Binding with Forms in Vue.js

TOPICS

- An Introduction to Binding with Forms
- Using Input Bindings
- Binding to Text Fields
- Binding to Checkboxes
- Binding to Radio Buttons
- Binding to Drop Down Lists
- Modifying Bound Values
- Using the Trim Modifier
- Using the Number Modifier
- Lazily Binding Values (Lazy Binding)

04

Responding to User Events in Vue.js

TOPICS

- Responding to User Events in Vue.js
- Using Event
- Defining Event Handlers
- Examining Events and Passing Parameters
- Altering Event Behaviours
- Understanding Event Propagation
- Event Capturing
- Using the Prevent Modifier
- Using the Stop Modifier
- Using the Self Modifier
- Using the Once Modifier
- Reacting to Keyed Events
- Creating Key Modifiers
- Reacting to Mouse Button Events
- Reacting to Special Keys

05

Conditional Rendering and Rendering of Lists

TOPICS

- Conditional Rendering and Rendering of Lists
- Rendering Elements Conditionally
- Rendering Conditionally on Load
- Rendering Conditionally During Runtime
- Rendering Lists of Items
- Looping a Specific Number of Times
- Traversing Object Properties
- Iterating Through Arrays
- Using v-for and v-if Together
- Detecting Array Changes
- Using the Sort Function
- Using the Reverse Function
- Pushing and Popping Array Items
- Using the Shift and Unshift Function
- Splicing an Array
- Updating an Array Element

06

Reacting to Data Changes with Filters, Computed Properties, and Watchers

TOPICS

- Introduction
- Monitoring Data Changes with Watchers
- Defining a Watcher's Behaviour
- Defining a Watcher's Depth
- Faster Rendering with Computed Properties
- Initializing Computed Properties
- Using Computed Properties as Accessors
- Formatting with Filters
- Defining Filters
- Programmatically Calling a Filter
- Chaining Filters Together
- Comparing Filters to Methods

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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