

Updated 07/26/2023

Sign up

Stencil JS training

3 days (21 hours)

Presentation

Stencil is a simple compiler for generating Web components and Progressive Web Applications (PWAs). Stencil was designed by the Ionic Framework team for its next generation of high-performance mobile and desktop Web components.

Stencil takes on features such as :

- Virtual DOM
- Asynchronous rendering (inspired by React Fiber)
- Reactive data link
- Manuscript
- JSX

Then generate standards-based Web components with these built-in features.

Because Stencil generates standards-compliant Web components, they can work immediately with many popular frameworks, and can be used without a framework because they are just Web components.

Like all our training courses, this one will introduce you to the latest stable version and its new features ([Stencil JS 3.0](#) ? at the time of writing).

Objectives

- Understanding how StencilJS works
- Integrating it into a framework

Target audience

Developers, Project Managers

Prerequisites

Knowledge of TypeScript (or JSX), HTML, CSS.

Stencil JS training program

Introduction

- What is a web component?
- Why use them?
- Differences between web components and frameworks
- Stencil JS overview
- Course program and operation

Web component : The basics

- How a web component works
- Lifecycle
- Event Listeners
- Attributes and Properties
- Web component styling
- Templating Js and HTML
- Slots
- DOM shadow
- Styling and host component
- Changing attributes

Web component: Creating complex components

- CSS and events
- Slots and slotChange
- Custom events

Creating smart web components

- Stencil installation
- First component with Stencil
- Using props
- Slots and style with Stencil
- Component to be included in a form
- Form component
- Two way binding
- Lifecycle Hooks
- List management

- Components within components

Routing

- Install the @Stencil/router package
- Supplied components
- Route configuration
- Navigation
- Data & routing
- Road protection

State Tunnel

- Benefits of the tool
- Use of props in a structure
- Data exchange between web components

Service Worker

- PWA & Service Worker
- Using workboxes
- Customized Service Worker

Production start-up

- Stencil config and NPM packages
- Publishing with NPM

Integration into a framework

- Web component in an Angular application
- Web component in a React application
- Web component in a Vue application

Conclusion

- Training summary
- Documents delivery
- Some useful resources

Companies concerned

This course is aimed at both individuals and companies, large or small,

wishing to train its teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.