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Updated on 30/09/2025

Sign up

Jekyll and Jamstack training

3 days (21 hours)

Presentation

Jekyll is an open source static site generator that is fully in line with the Jamstack philosophy. This modern approach to web development relies on JavaScript, APIs and Markup to build fast, secure and scalable sites.

Our Jekyll and Jamstack training course will enable you to understand the Jamstack philosophy, master site creation with Jekyll, integrate APIs and deploy your projects on modern platforms such as Netlify or Vercel.

You'll also learn how to optimize your sites for SEO, performance and security, while discovering the Headless CMS ecosystem.

At the end of the course, you'll be able to create, deploy and maintain modern web projects with Jekyll and Jamstack, understand their advantages over traditional CMS and industrialize your workflows for professional projects.

Like all our training courses, this one is based on the latest stable version of Jekyll, and favors a practical, operational approach.

Objectives

- Understand the Jamstack philosophy and Jekyll architecture.
- Create and customize a complete static site.
- Integrate external APIs and Headless CMS.
- Deploy and supervise a site on Netlify/Vercel.
- Optimize for SEO and security.

Target audience

- Web developers
- Front-end integrators
- Technical project managers

Prerequisites

- Basic knowledge of HTML/CSS
- Notions of JavaScript
- Familiarity with Git

Jekyll & Jamstack training

[Day 1 - Morning]

Introduction to Jekyll and the Jamstack philosophy

- Understanding Jamstack: JavaScript, APIs, Markup
- Discover Jekyll (Ruby) and its uses
- Advantages: performance, security, scalability
- Ecosystem overview and use cases
- Comparison vs. traditional CMS
- Practical workshop: Local installation and generation of a first site.

[Day 1 - Afternoon] Structuring

a Jekyll project

- Jekyll base: directories, configuration files and standards to respect
- Liquid templates, layouts and partials
- Collection and content management
- Front matter, variables and filters
- Organizing routing and permalinks
- Practical workshop: Building a blog with pages and articles.

Customization and themes

- Installing and adapting Jekyll themes
- Integrating CSS and frameworks
- Asset management
- Optimization: minification, bundling, lazy loading
- Responsive design and accessibility
- Practical workshop: Creating a custom theme.

[Day 2 - Morning]

Integrating data and APIs

- YAML/JSON/CSV data
- Consuming external APIs
- Combining Jekyll with a Headless CMS
- Use cases: blog, doc, static e-commerce
- Hybrid approach: static + dynamic content
- Practical workshop: Injecting an API into a Jekyll site.

[Day 2 - Afternoon]

Jamstack deployment and hosting

- Deploying GitHub Pages, Netlify alternatives, Vercel, Cloudflare Pages
- CI/CD automation (build, test, preview)
- Environment management (staging, prod)
- Environment variables and secrets
- Release strategies
- Practical workshop: CI pipeline for deployment on Netlify.

SEO and optimization

- Good SEO practices (tags, titles, meshing)
- Sitemaps, robots.txt, structured data
- Core Web Vitals and performance
- SEO plugins for Jekyll
- Accessibility audit
- Practical workshop: Optimizing the SEO of an existing site.

[Day 3 - Morning]

Jamstack: complementary tools

- Overview of headless CMS
- Headless commerce (Snipcart, Shopify headless)
- Serverless functions for dynamics
- Multilingual content management
- Jamstack enterprise architectures
- Practical workshop: Jamstack Jekyll mini-site + headless API.

[Day 3 - Afternoon]

Security and maintenance

- Hardening a static site
- Ruby/Gem dependency management
- Updates & regression
- Git backups and versioning
- Performance & error monitoring
- Practical workshop: Security and performance audit.

Case studies and industrialization

- Jekyll case studies
- Choosing between Jekyll, Hugo, Gatsby, Next.js
- Team workflows and reviews
- Evolution and migration strategies
- Go-live checklist
- Practical workshop: Final Jamstack project (site + API + deployment).

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming training course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 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.

skills.

Certification

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