

Cypress training

3 days (21 hours)

Presentation

Our Cypress training course will enable you to master the software thanks to a sound knowledge of its architecture and interface. You'll learn automation with XHR, Tidbits, elements and how to use the software's advanced functions.

Cypress is a powerful open-source tool for writing, reading and recording end-to-end tests. It offers many advantages, such as

- Unique architecture: unlike most testing tools, Cypress does not use Selenium.
- High compatibility: Works with all JavaScript frameworks (React, Elm, Angular, Vue...)
- A complete tool: You can write your tests from start to finish without the need for additional software.
- Free and open-source: Cypress boasts a large community of over 100,000 members. users on GitHub

Like all our training courses, our Cypress training will feature the latest version of the software, [Cypress 14](#).

Objectives

- Mastering the Cypress Test Run
- Automate testing by executing requests with XHR
- Using Cypress advanced functions

Target audience

- Developers
- Technical architects
- Project managers
- Design engineer

Prerequisites

- For profiles working in QA
- Knowledge of algorithms is a plus
- Knowledge of JavaScript is a plus
- [Test My Knowledge](#)

Technical requirements

- The latest versions of your operating systems
- 4 GB RAM minimum, 8 GB for longer tests
- If you're using Linux, you'll need to install some :
 - Arch
 - CentOS
 - Amazon Linux
 - Docker

Cypress training program

Installation

- Installing Cypress with the latest version
- Explanation of installation steps
- Discover Test Runner
- Running tests with the Test Runner

The structure

- Structure of a Cypress project
- Locators and DOM
- Basic commands
- The hooks
- Write your first script (understand the structure)
- Practical Workshop
- Application of the installation, use of the Test Runner, and creation of simple scripts

Waiting time management

- Master end-to-end testing to perfection
- Waiting time management
- Debugging (screenshot, pause, wait)
- Workshop 1: Automating non-regression tests on an account creation form

Plugins

- Using the faker plugin in Workshop 1
- Handling the configuration file
- Applying new configurations to the project
 - Chrome security
 - Timeout
 - Screenshot and video
- Custom Command

Configuration

- Continuous Integration and Deployment (CI/CD) with Cypress
- Introduction to CI/CD concepts
- Configuring Cypress in a CI/CD pipeline
- Best practices and test strategies in CI/CD

Custom command

- Cypress project functions
- Iframe plugin
- Gherkin plugin with Cucumber + Workshop

Command lines

- Command line execution
- HTTP requests
- Workshop 2: Automating non-regression tests on an application
 - Plugin installation
 - Configuration management

Mobile / Responsive testing

- Introduction to mobile/responsive testing
- Setting up tests for mobile/responsive devices with Cypress
- Adapt existing scripts for mobile use
 - flag method
 - describe method
- Practical workshop - mobile/responsive testing

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer 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 training to come, 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 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, 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.