

Updated 05/17/2024

Sign up

Cypress Advanced Training: Master test automation

2 days (14 hours)

Presentation

Learn how to master the automation of your technical tests with Cypress. Our Cypress Advanced training course will teach you best practices and advanced use of its components.

Cypress has rapidly become an [indispensable tool for testing your applications](#). This powerful program guarantees greater accuracy than manual testing, while automating processes to reduce development costs.

This advanced training course follows on from our [Cypress training course](#). You'll learn how to use the runner, manipulate fixtures, variables and aliases, improve reports and debug your application.

You'll also discover best practices in test automation, SSO automation, alert management, popups and tabs.

Like all our training courses, our Cypress Advanced course will feature the latest version of the software, [Cypress 13.9](#).

Objectives

- Master advanced Cypress features
- Test automation best practices on Cypress
- Best practices for debugging

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
- Attendance at our [Cypress training course](#) is a plus

Cypress Advanced training program

Advanced use of the executor

- Understanding the panel instrument
 - Intercepts
 - Stubs
 - Spies
- Select items
 - Select unique elements
 - Modify these elements
- Keyboard shortcuts

Data driven testing

- Understanding fixtures and how they work
- Understanding custom orders
- Cypress Assertions
- Validate attribute properties and behavior
- Reuse your code
- Parameterize test data from JSON files
- Implementing Pages Object Design Patterns
- Modifying tests in Pages Object Pattern
- Creating a performance benchmark
- Debugging

Improve your Cypress reports

- Best practices for greater legibility
- Enable "Verbose" logs
- Setting up the reporter
- Report generation
- Add screenshots
- Improving report performance

Variables and aliases

- Using asynchronous commands
- What are aliases?
- How to use them and why?
- When and why use variables?
- Using aliases
 - For objects
 - For elements
 - For roads
- Variable declaration
- Declaration of constants

Control alerts, popups and child windows

- How does Cypress use alerts?
- How do you create them?
- Managing tabs with JQuery
- Browser controls
- Commands for managing web tables
- Managing popups and mouseovers

Visual Testing with Percy

- Percy integration
- The basics of visual testing
- Order overview
- Workflow

Best practices

- Organizing your tests
- Select elements
- Assigning values
- Use third-party servers
- Unit testing
- Don't forget your hooks
- Launch the server beforehand
- Defining a baseUrl

Troubleshooting

- The best resources to help you
- Isolating the problem
- Clear cache
- Testing your browser
- Using the Cypress extension
- Examine logs
- Modify source code

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, 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.