Course : Cypress, Web application test automation

Practical course - 2d - 14h00 - Ref. CYW
Price : 1720 CHF E.T.

★★★½   3,9 / 5

Open source and cross-platform, Cypress automates front-end and end-to-end testing of web applications. Cypress uses JavaScript to write tests. On completion of the course, you will be able to implement Cypress in your web development environment.

🎯 Teaching objectives

At the end of the training, the participant will be able to:

- ✅ Implement Cypress for web application testing
- ✅ Understand and apply the tool's main commands
- ✅ Position Cypress in relation to other tools, including Selenium WebDriver
- ✅ Develop and debug Cypress test scripts
- ✅ Gain initial experience of visual testing

Intended audience

Development engineers, testers and automation specialists who want to learn how to test web applications with Cypress.

Prerequisites

Bonnes connaissances d'un langage de programmation. Connaissances de base de JavaScript.
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Course schedule

1 Installing and configuring Cypress

- Positioning Cypress in the world of web testing robots.
- Install Cypress on Windows or macOS.
- Open Cypress and understand its user interface and architecture.
- Switch between browsers.
- Detailed comparison between WebDriver and Cypress.
- Why choose Cypress for front-end applications?

Hands-on work
Install, run examples and analyze results in the interface.

2 Writing your first automated test with Cypress

- Working with Cypress on the command line.
- Understand basic Cypress commands.
- Debug Cypress scripts with command lines.
- Write functional tests.
- Use Cypress's auto-reload function.
- Assertions with Cypress.
- Debugging tests with Cypress.

Hands-on work
Run Cypress commands and debug scripts. Write and run complete tests. Debugging sessions on concrete examples.

3 Writing tests with Cypress using the TDD approach

- Understanding the TDD approach.
- Writing TDD tests with Cypress.
- A concrete example of an application.
- Modify TDD tests.

Hands-on work
Concrete examples of a TDD approach on an online application.

4 Cypress and interactions with web elements

- Understand the possibilities of interaction with web components.
- Using the experimental action recorder.
- Understanding variables and aliases in Cypress.

Hands-on work
Concrete examples of different levels of interaction with web components. Use of the action recorder.

5 Advanced uses of Cypress

- Understanding the Instrument panel.
- Understand the Selector Playground.
- Test Runner" keyboard shortcuts.
- Implement navigation and HTTP requests.
- Plug and spy on XHR requests.
- Tools for visual testing with Cypress.

Hands-on work
Use of the Test Runner and Selector Playground. Concrete examples of browsing requests and HTTP requests. Concrete examples of stubbing and spying.

Dates and locations

REMOTE CLASS
2026 : 19 Mar., 8 June, 21 Sep., 30 Nov.