

Part 1: Introduction

What is Cypress?

- Frontend web automation testing tool
- · modern web applications
- React JS, Angular JS
- Language : JavaScript, TypeScript
- Any application which runs on browser
- · Open source
- Testrunner free
 - Dashboard paid
- · Node.js comes with npm module

Who uses Cypress? → Dev & QA

- End-to-end test cases
- · Integration tests
- Unit test cases
- API testing

Selenium VS Cypress

Part 1: Introduction 1

	Selenium	Cypress
Application Support	Only Web	Web & API
Cost	Free	Test Runner - Free Dashboard - Paid
Setup & Installation	Difficult	Easier
Languages	Java, Python, Ruby, C#, JavaScript	JavaScript , TypeScript
Browsers	Chrome, Edge, Firefox, Safari, Opera & IE11	Chrome, Edge, Firefox & Electron
Frameworks Support	Junit, TestNG, pyTest etc. based on programming language	Mocha JS
Performance	Runs outside of the browser . So performance is Slow when compare with Cypress.	Faster since it runs inside of the browser.
Reporting	Integrate with Extent, Allure etc	Mocha reporters, Cypress dashboard

Cypress Ecosystem

- 1. TestRunner open source. locally installed
- 2. Dashboard paid

Features of Cypress

- Time travel
- Debuggability
- Automatic waits (built-in waits)
- Consistence results
- Screenshots and videos (built in)
- Cross browser testing locally or remotely

Limitations in Cypress

- Can't automate window based/mobile apps
- Limited supports for browsers
- Only for JavaScript/TypeScript

Part 1: Introduction 2

- Reading or writing data into file is difficult
- Third party reporting tool integration is also limited

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