



cypress

Introduction

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Agenda

- What is Cypress?
- Selenium Vs Cypress Architectural Differences
- Cypress Ecosystem
- How Cypress is different than Other tools
- Features of Cypress
- Limitations

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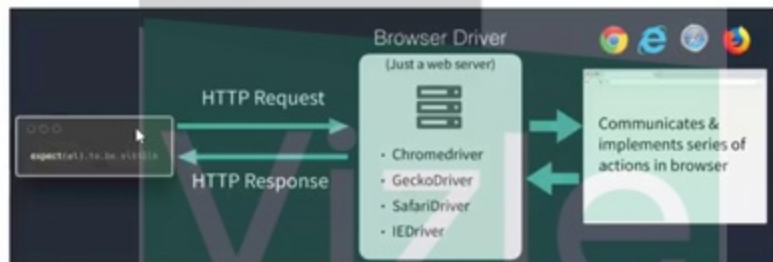
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What is Cypress?

- Cypress is a next generation **front end testing tool** built for the **modern web applications**.
- Cypress uses **JavaScript** to write automated tests.
- Cypress **addresses the key pain points** from other automation tools.
- Cypress **built on Node.js** and comes **packaged as an npm** module.
- As it is built on Node.js, It uses **JavaScript** for writing tests. But **90% of coding can be done using Cypress inbuilt commands** which are easy to understand.
- Cypress makes our tests very simple when we compared with other tools.
- Cypress is having **different architecture** when you compare with selenium.
- We can write **faster, easier** and more **reliable tests** using Cypress.

Selenium Vs Cypress Architectures

- Most testing tools (like Selenium) **operate by running outside of the browser** and executing remote commands across the network.
- But **Cypress engine directly operates inside the browser**. In other words, It is the browser that is executing your test code.
- This enables Cypress to **listen and modify the browser behavior at run time** by manipulating DOM and altering Network requests and responses on the fly.



Cypress ecosystem

- Cypress is an Open source tool and consists of.....
 1. **Test Runner** (Open Source Component. Locally Installed) helps you set up and start writing tests.
 2. **Dashboard Service**(Recording tests).
The Dashboard provides you insight into what happened when your tests ran.

Install the Cypress Test Runner and write tests locally.



Set up tests

Build up a suite of CI tests, record them and gain powerful insights



Write tests



Run tests



Record tests

7 ways Cypress is different

- Cypress does not use Selenium.
- Cypress focuses on doing end-to-end testing well.
- Cypress works on any front-end framework or website.
- Cypress tests are only written in JavaScript.
- Cypress is all in one.
- Cypress is for developers and QA engineers.
- Cypress runs much, much faster.



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Before Cypress

vs

🚀 With Cypress 🚀

Choose a framework

Mocha

Jasmine

QUnit

Karma

Choose an assertion library

Chai

Expect.js

Install

Selenium

Choose a Selenium wrapper

Protractor

Nightwatch

Webdriver

Add additional libraries

Sinon

TestDouble

End-to-end tests

cypress

All-in-one testing framework,
assertion library, with mocking and
stubbing, all without Selenium.

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