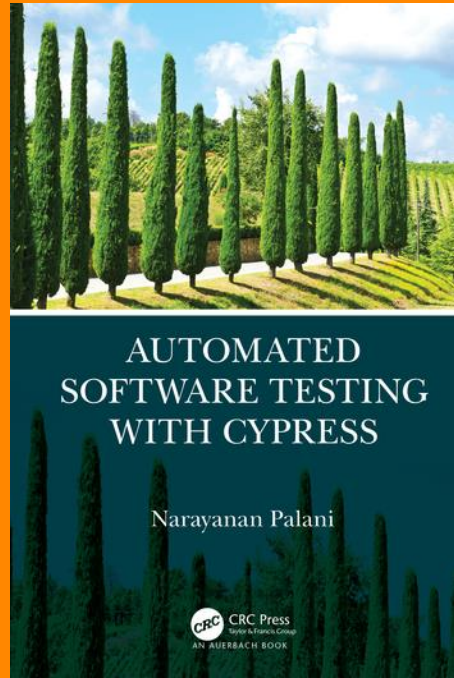


Videos Lessons:

<https://engineers-hub.teachable.com/p/cypressio>

Cypress Architecture

Credits <https://docs.cypress.io/>



Narayanan Palani



What is so different in Cypress?

- ▶ Most testing tools (like Selenium) operate by running outside of the browser and executing remote commands across the network.
- ▶ *Cypress is the exact opposite.* Cypress is executed in the same run loop as your application.

- ▶ Behind Cypress is a Node server process.
- ▶ Cypress and the Node process constantly communicate, synchronize, and perform tasks on behalf of each other.
- ▶ Having access to both parts (front and back) gives us the ability to respond to your application's events in real time, while at the same time work outside of the browser for tasks that require a higher privilege.

- ▶ Cypress ultimately controls the entire automation process from top to bottom, which puts it in the unique position of being able to understand everything happening in and outside of the browser.
- ▶ This means Cypress is capable of delivering more consistent results than any other testing tool.

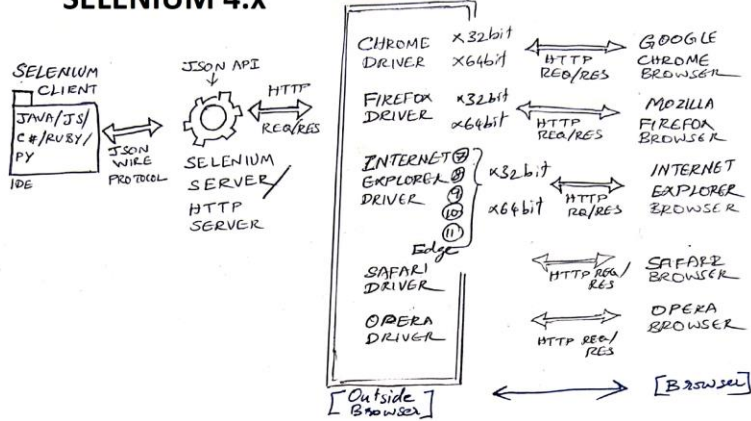
Native Access

- ▶ Because Cypress operates within your application, that means it has native access to every single object.
- ▶ Whether it is the window, the document, a DOM element, your application instance, a function, a timer, a service worker, or anything else - you have access to it in your Cypress tests.
- ▶ There is no object serialization, there is no over-the-wire protocol - you have access to everything.
- ▶ Your test code can access all the same objects that your application code can.

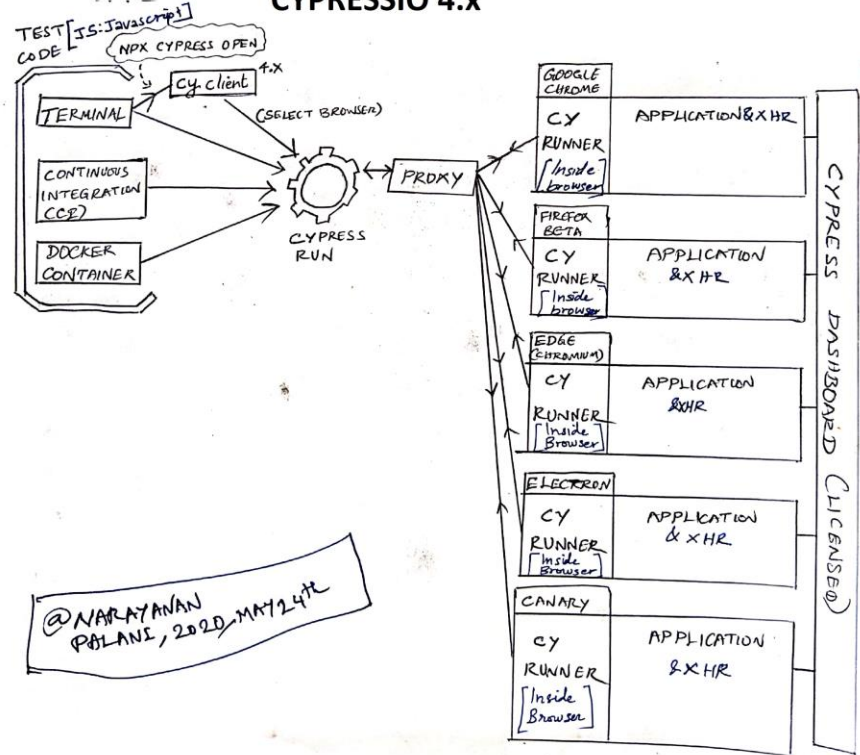
Native Access

- ▶ Because Cypress operates within your application, that means it has native access to every single object.
- ▶ Whether it is the window, the document, a DOM element, your application instance, a function, a timer, a service worker, or anything else - you have access to it in your Cypress tests.
- ▶ There is no object serialization, there is no over-the-wire protocol - you have access to everything.
- ▶ Your test code can access all the same objects that your application code can.

SELENIUM 4.x



CYPRESSIO 4.x



@NARAYANAN
PALANI, 2020-11-24

Videos Lessons:

<https://engineers-hub.teachable.com/p/cypressio>

