



Automated testing with Cypress.io

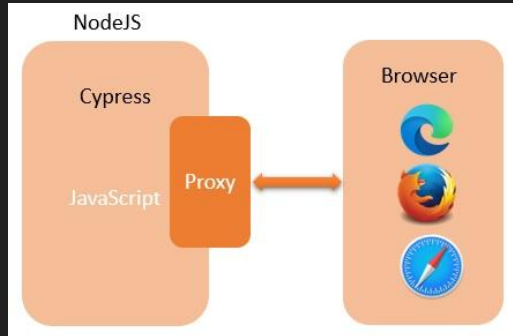
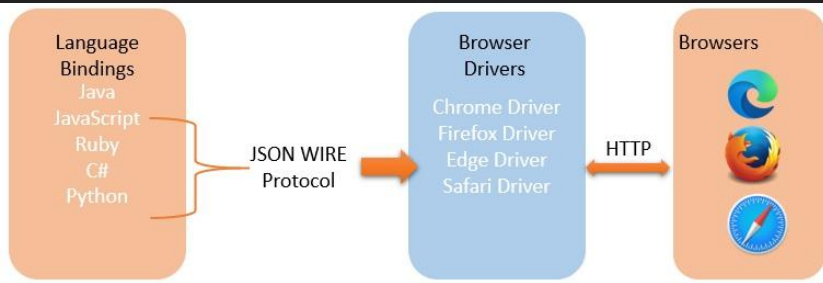
By Nemanja Bradić
QA Engineer

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Introduction to Cypress framework



- It's new testing tool for both, developers and QA engineers
- His primarily used for front end testing, but it can be used for API testing as well (supports E2E, integration and unit test)
- Really easy setup
- Runs inside browser comparing to Selenium that connects through driver for browser
- Cypress has fastest execution of front end test scripts
- Young tool with great documentation

Cypress key features



Time travel

Cypress takes snapshots as your tests run. Simply hover over commands in the [Command Log](#) to see exactly what happened at each step.



Real time reloads

Cypress automatically reloads whenever you make changes to your tests. See commands execute in real time in your app.



Spies, stubs, and clocks

[Verify](#) and [control](#) the behavior of functions, server responses, or timers. The same functionality you love from unit testing is right at your fingertips.



Consistent results

Our architecture doesn't use Selenium or WebDriver. Say hello to fast, consistent and reliable tests that are flake-free.



Debuggability

Stop guessing why your tests are failing. [Debug](#) directly from familiar tools like Chrome DevTools. Our readable errors and stack traces make debugging lightning fast.



Automatic waiting

Never add waits or sleeps to your tests. Cypress automatically [waits for commands and assertions](#) before moving on. No more async hell.



Network traffic control

Easily [control](#), [stub](#), and [test edge cases](#) without involving your server. You can stub network traffic however you like.



Screenshots and videos

View screenshots taken automatically on failure, or videos of your entire test suite when run headlessly.

Cypress Runner

Test Status Menu

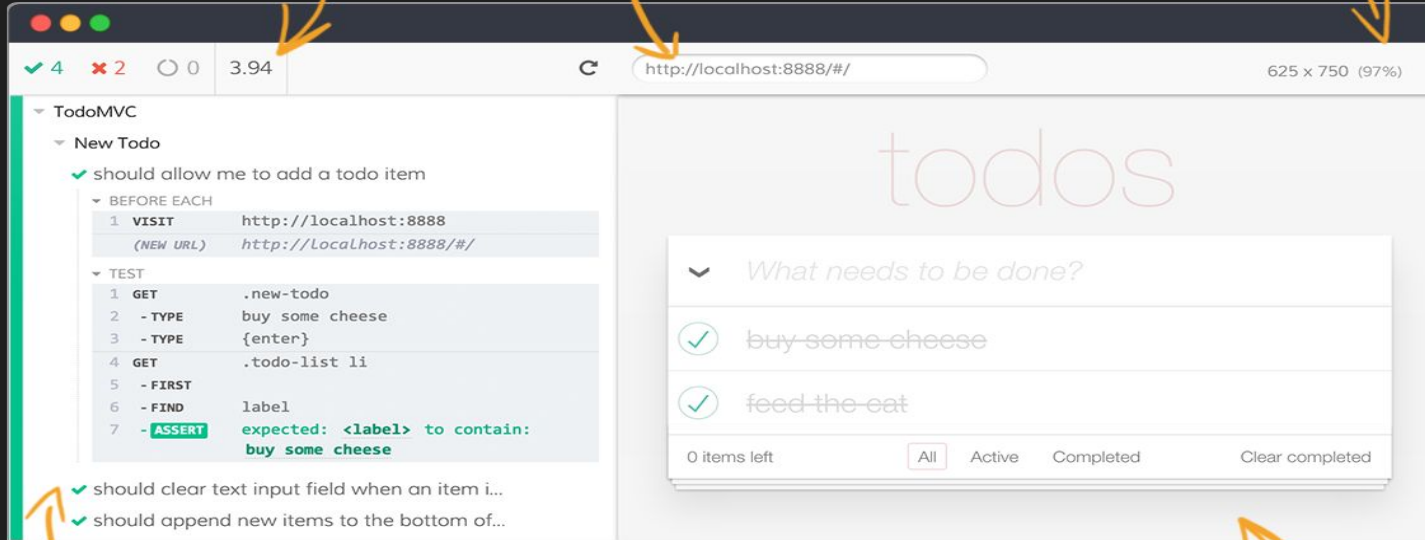
See how many tests passed or failed and how fast the tests took to run.

Url Preview

The url of your app updates as you test, so you have more visibility on testing routes.

Viewport Sizing

Set your app's viewport size to test responsive layouts.



The screenshot shows the Cypress Runner interface with the following components:

- Test Status Menu:** Located at the top left, showing 4 passed tests (green checkmarks), 2 failed tests (red Xs), 0 pending tests (circles), and a total time of 3.94 seconds.
- Url Preview:** Located at the top center, showing the current URL: `http://localhost:8888/#/`.
- Viewport Sizing:** Located at the top right, showing the current viewport size: 625 x 750 (97%).
- Command Log:** Located on the left side, showing the test suite 'TodoMVC' and the test 'New Todo'. The test 'should allow me to add a todo item' is expanded, showing the following commands:
 - BEFORE EACH:**
 - 1 **VISIT** `http://localhost:8888`
 - (NEW URL) `http://localhost:8888/#/`
 - TEST:**
 - 1 **GET** `.new-todo`
 - 2 **-TYPE** `buy some cheese`
 - 3 **-TYPE** `{enter}`
 - 4 **GET** `.todo-list li`
 - 5 **-FIRST**
 - 6 **-FIND** `label`
 - 7 **-ASSERT** `expected: <label> to contain: buy some cheese`
- App Preview:** Located on the right side, showing a preview of the application. The preview displays the word 'todos' in a large font, followed by a list of items: 'buy some cheese' and 'feed the cat'. Below the list, it shows '0 items left' and buttons for 'All', 'Active', 'Completed', and 'Clear completed'.

Command Log

Every command logs as it executes. Hover to highlight the affected element, or click to log more info to the console.

App preview

See your app while test commands execute in real-time. Use your devtools to inspect or debug each command.

Cypress Dashboard

www.qaserbia.rs



Durgan and Sons

Shawn Taylor



cypress-example-todomvc

View all projects



Latest runs



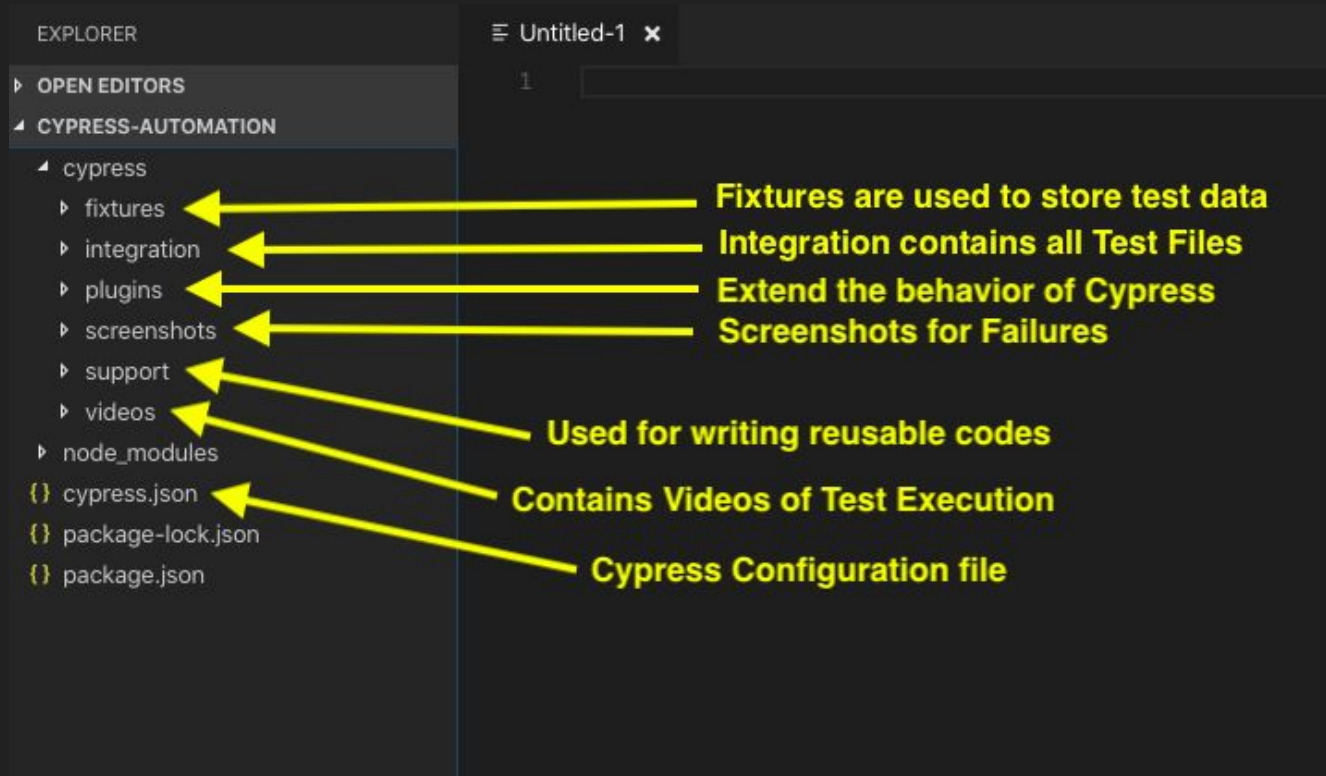
Project settings

Latest runs

Last updated: 11:31:48am

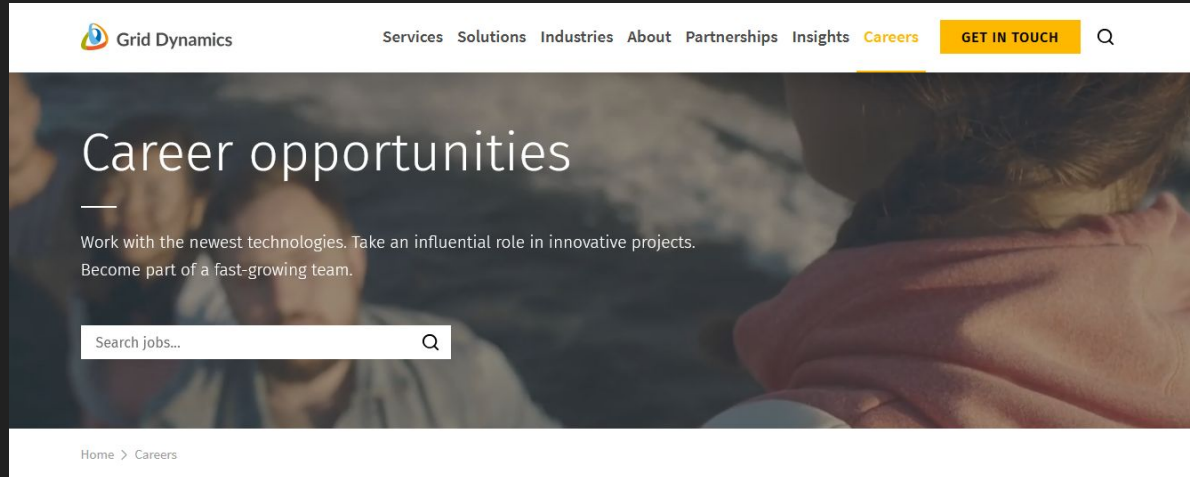
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#12	master / app_spec.js Change Project ID	a month ago	00:39	18.2.0 Electron 59	Unknown
#11	master Change Project ID	3 months ago			Unknown
#10	master / app_spec.js Change Project ID	3 months ago	04:16	18.2.0 Electron 59	Unknown

Basic setup of repository in Cypress

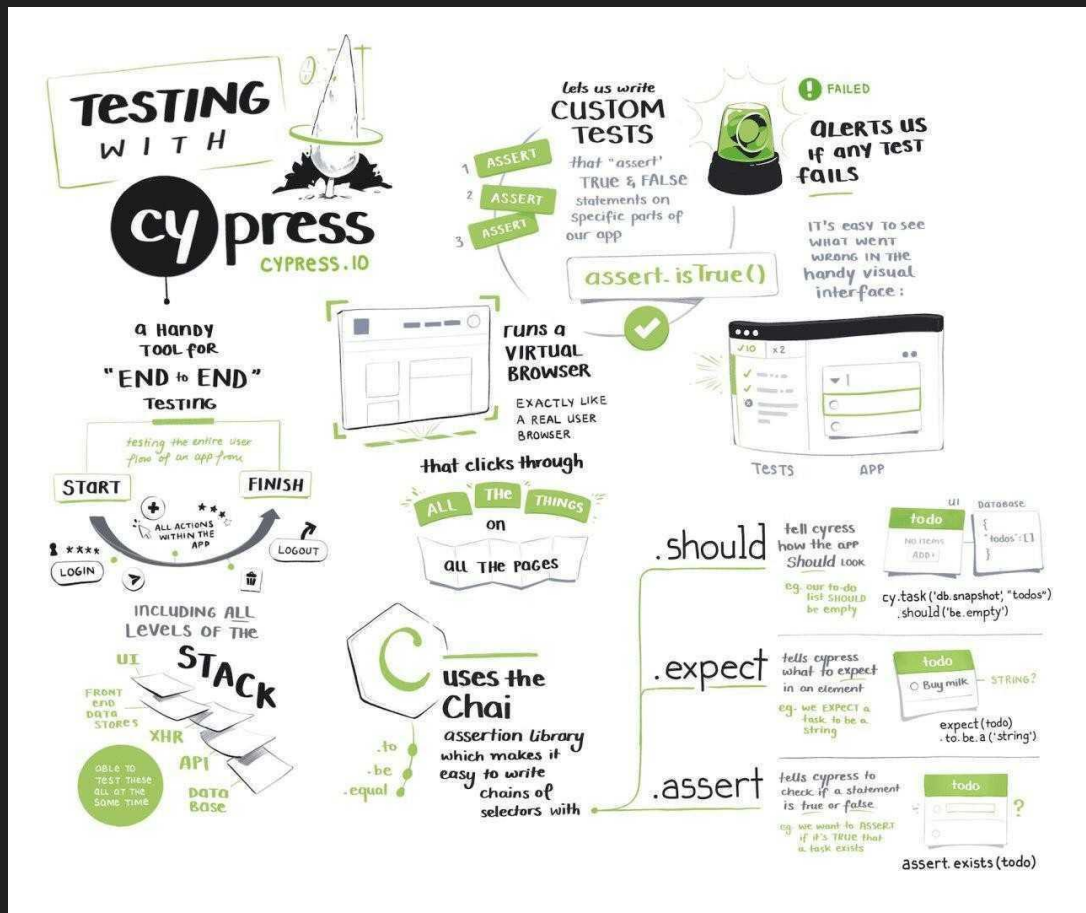


Workshop - Cypress in action

- Cloned repository for this workshop
- Prerequisites: Node.js > 12 and npm installed
- We will use this page for testing: <https://careers.griddynamics.com/>



Summary





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Questions?



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