

Awesome Web Testing with Playwright



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Tutorial Repository



[https://github.com/
AutomationPanda/
awesome-web-testing-playwright](https://github.com/AutomationPanda/awesome-web-testing-playwright)

Handle tutorial setup *now!*

Who likes to find
problems in their code?

Who would rather ship
those bugs to prod?

Now who wants to create
the tests for that feedback?

Testing challenges



Testing is HARD!

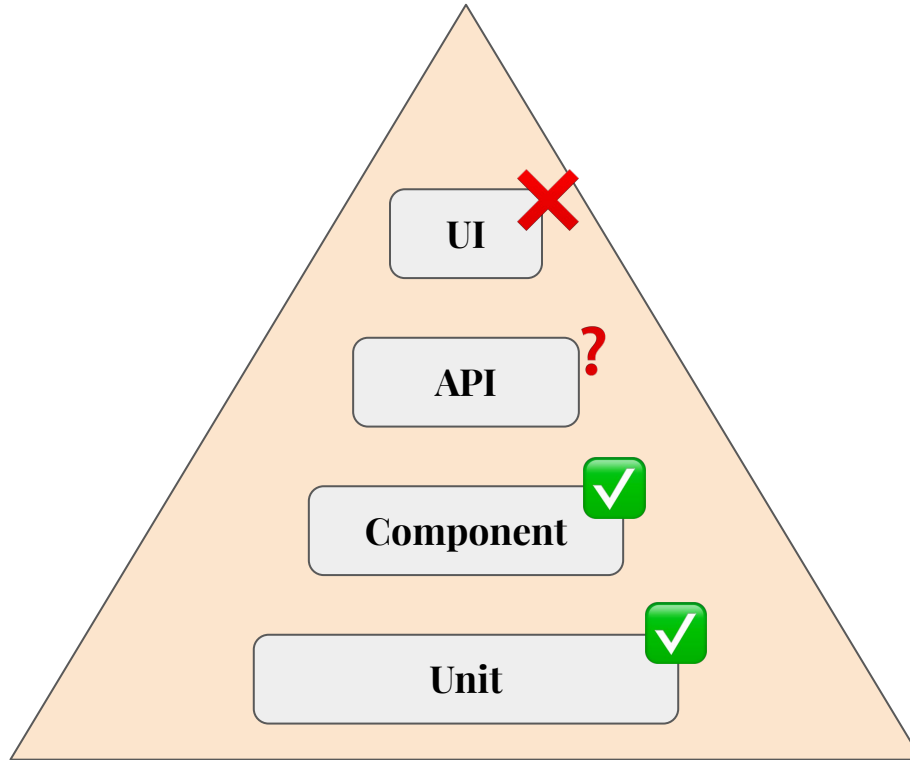
What challenges have y'all faced?

Testing challenges



- Tests are *slow*
- Tests are *brittle*
- Tests are *flaky*
- Tests don't make *sense*
- Tests don't make *money*
- Tests requires *changing context*

That Pyramid Scheme



Modern Testing Goals

1. Focus on building **fast feedback loops** rather than certain types of tests.
2. Make test development as **fast and painless** as possible.
3. Choose test tooling that naturally **complements dev workflows**.

Playwright can help.

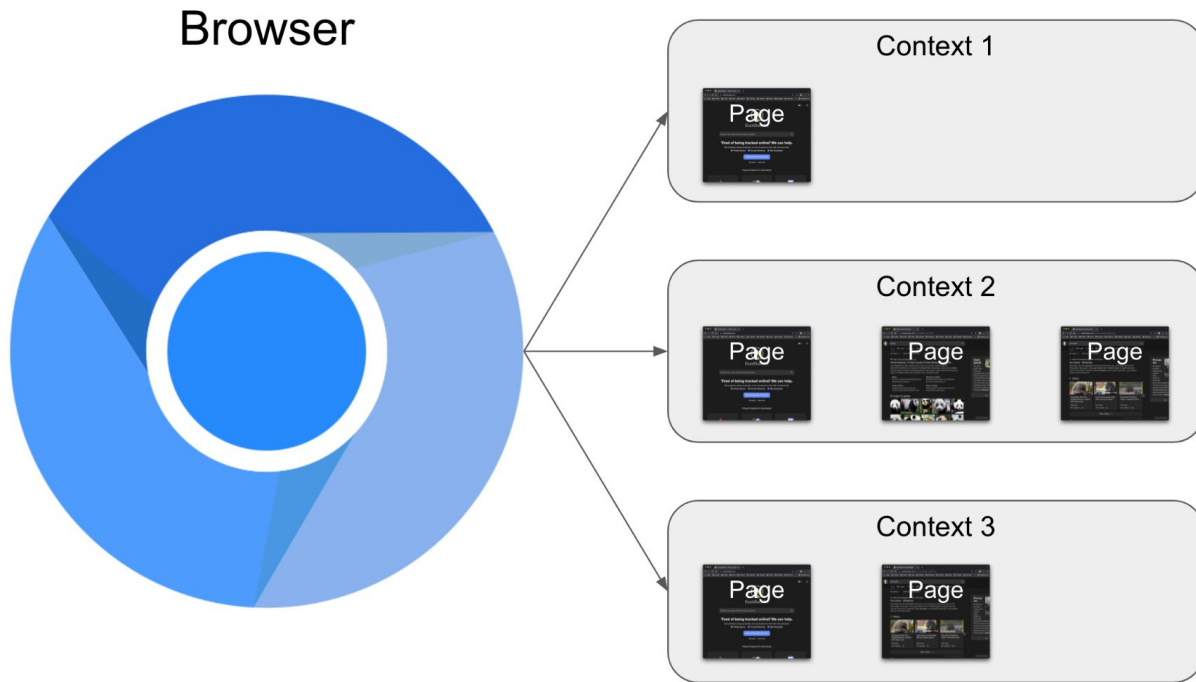


Playwright




- A modern, open source web test framework from Microsoft
- Manipulates the browser via (superfast) debug protocols
- Works with Chromium/Chrome/Edge, Firefox, & WebKit
- Provides automatic waiting, test generation, UI mode, etc.
- Can test UIs and APIs together
- Bindings for JavaScript, Python, Java, & C#
 - TypeScript is recommended



Browsers, contexts, and pages



Browser automation tool comparison

Selenium 	Cypress 	Playwright 
Popular among testers	Popular among developers	So hot right now
C#, Java, JavaScript, Ruby, Python	JavaScript only	C#, Java, JavaScript, Python
All major full browsers	Chrome, Edge, Firefox, Electron	Chromium+, Firefox, WebKit
WebDriver protocol	In-browser JavaScript	Debug protocols
Just a tool – requires a framework	Full, modern framework	Full, modern framework
Can be slow/flaky if waiting is poor	Visual execution but can be slow	Typically the fastest execution
Open source, standards, & gov	Open source from Cypress	Open source from Microsoft