

Cypress - End to End Javascript framework

Main competitors (Selenium-based):

Nightwatch, Protractor, Phantomjs, Casper, Webdriver.io

Pros:

- 1) reliability of tests results (unlike flaky Selenium-based ones)
- 2) speed
- 3) no initial configuration (if no proxy)
- 4) all tests are in JS
- 5) screenshot for every step or for failed step only
- 6) clear and familiar syntax (jQuery, chai, sinon)
- 7) very good docs
- 8) works with any framework including server rendered pages
- 9) smooth cooperation with Percy (visual regression tool)
- 10) platform for test grouping and paralellization (github)

Cons:

- 1) Chrome only (FF version under development)
- 2) Newer than most Selenium-based frameworks (started in 2014)
- 3) Smaller but still decent size community

Github stars and last release dates:

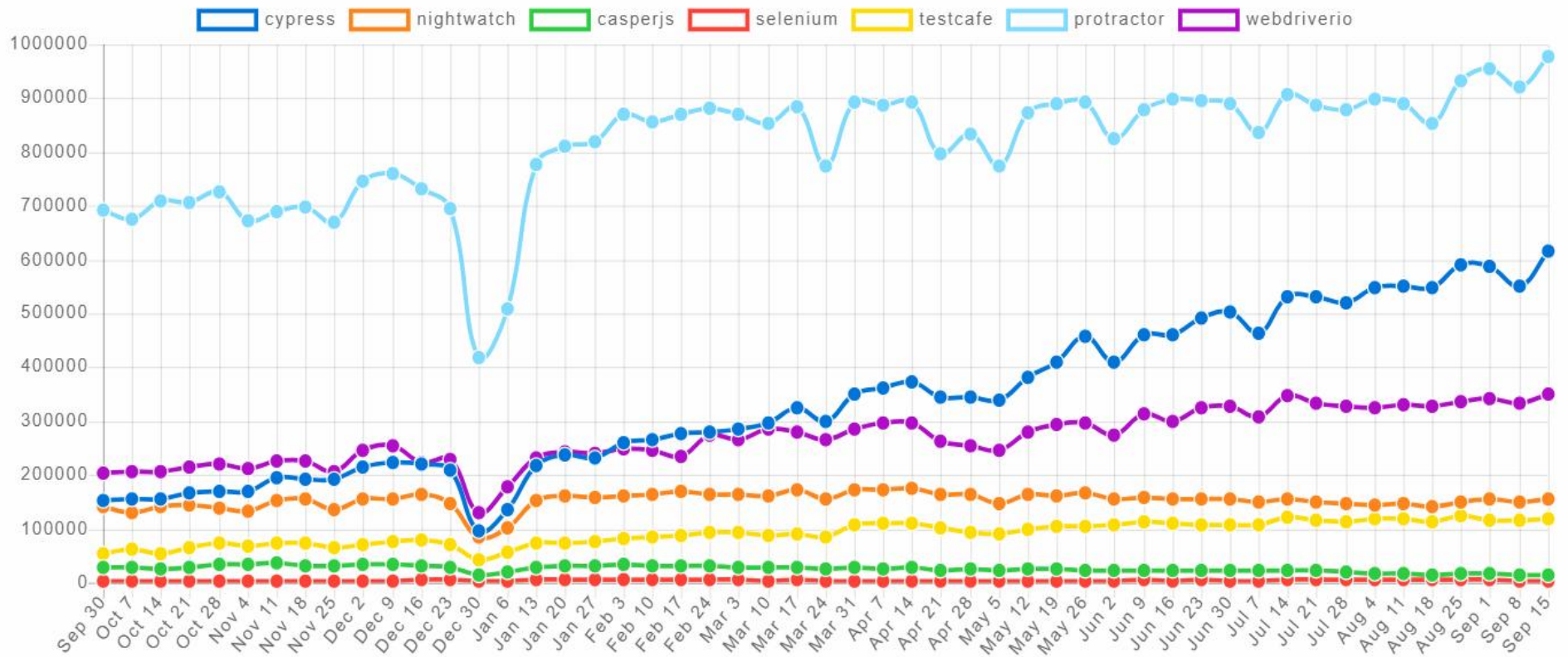
cypress: 14,651 (ver 1.0 @ July '18, current 3.1.4 @ Jul '19)
nightwatch: 9,667 (last release Sep '19)
webdriverIO: 5,209 (last release Sep '19)

protractor: 8,340 (last release Mar '19)
casperjs: 7,307 (discontinued, last release Nov '17)
phantomjs: 27,023 (discontinued, last release Jan '16)

12 months npm downloads



Downloads in past 1 Year ▾



Github stars and other stats

Stats

	stars 🌟	forks 🍴	issues ⚠️	updated ⚡	created 🔥	size 📦
cypress	14689	794	1086	Sep 20, 2019	Mar 4, 2015	minzipped size 352.6 KB
nightwatch	9680	950	106	Sep 20, 2019	Mar 17, 2012	minzipped size 362.6 KB
casperjs	7308	1064	0	Dec 16, 2018	Sep 5, 2011	minzipped size 149 B
selenium	4	16	1	Mar 14, 2018	Jul 15, 2011	bundlephobia 500
testcafe	7408	455	430	Sep 20, 2019	Apr 20, 2015	minzipped size 1008.8 KB
protractor	8344	2282	544	Aug 9, 2019	Jan 16, 2013	bundlephobia 500
webdriverio	5214	1497	99	Sep 20, 2019	Aug 30, 2011	minzipped size 314.0 KB

Cypress.io platform

- a) much faster test execution thanks to parallelization and test grouping
- c) github integration
- d) \$99 monthly for 5 users
- e) free tier for 3 users for non-commercial projects

Corporate users

NASA, Autodesk, Netflix, DHL, Shopify, GitHub, Slack, SendGrid, SaltStack and GoDaddy

Links

Cypress vs. Selenium, is this the end of an era ? 06.06.2018

<https://automationrhapsody.com/cypress-vs-selenium-end-era>

Cypress.io - the selenium killer

<https://blog.logrocket.com/cypress-io-the-selenium-killer>