

Comparison of Popular Alternatives to Selenium

	Vendor	Runs on	Web browsers	Supported languages	Tested apps	Test types	Codeless testing	Continuous integration support	Integration with Jira / Git, etc.	Pricing
Selenium	Open-source	Windows, Mac, Linux	Chrome, Firefox, Internet Explorer / Edge, Safari, Opera	Java, Python, C#, PHP, JavaScript, Ruby, Perl	Web	UI	Codeless testing available via Selenium IDE (Chrome, Firefox)	Difficult to integrate with your CI/CD system	Git (manual setup)	Free
Protractor	Open-source, brought up by Google	Windows, Linux	The two latest major versions of Chrome, Firefox, Safari, Internet Explorer	JavaScript (Node.js) languages	Web, mobile with Appium	UI	-	Travis CI, Jenkins	-	Free
Appium	Open-source	Windows, Mac, Linux	Chrome, Safari	Java, JavaScript, Python, C#, PHP, Ruby	Mobile, desktop	UI, API, database	-	Jenkins, Bitrise CI	-	Free
Cypress.io	Cypress HQ, recently open-source	Windows, Mac, Linux	Chrome, Chrome Canary, Chromium	JavaScript, TypeScript	Web	UI, API, unit tests	-	Claim to run on all CI providers	Git	Free
Puppeteer	Google	Windows, Mac, Linux	Chrome, Chromium + headless	JavaScript (Node.js)	Web and mobile browsers	UI	-	Difficult to integrate with CI/CD system	-	Free
UFT	Micro Focus	Windows	Chrome, Firefox, Internet Explorer/Edge, Safari	VBScript and C# for API/Web services scripting	Web, mobile, web services, Windows desktop	UI, API, database	-	Jenkins, HP Quality Center, etc.	-	\$3,200/year (seat-based license); \$4,500/year (concurrent)
Katalon	Katalon LLC	Windows, Mac	Chrome, Firefox, Internet Explorer/Edge, Safari, headless browsers	Java, Groovy	Web, mobile, web services	UI, API	Yes	Jenkins, TeamCity, Bamboo, Azure, CircleCI, etc.	Jira, Git	Freemium
TestComplete	SmartBear	Windows	Chrome, Firefox, Internet Explorer/Edge, Safari	JavaScript, JScript, Python, VBScript, Delphi, C#, C++ , PHP, Ruby on Rails	Web, mobile, web services, Windows desktop	UI, API, database	Yes	Jenkins, HP Quality Center	Jira, Git	\$3,730 (perpetual node-locked license); \$7,463 (perpetual floating user license)
EggPlant	Testplant Inc.	Windows, Mac, Linux	Chrome, Firefox, Internet Explorer/Edge, Safari	SenseTalk (proprietary), Java, C#, Ruby	Web, mobile, web services, Windows desktop	UI, API, database	Yes	Jenkins, Bamboo	Jira, Git, Apache Subversion	Pricing info is available only via contacting TestPlant
Ranorex	Idera, Inc	Windows	Microsoft Edge, Internet Explorer, Chrome and Chromium, Firefox, Safari	C#, VB.Net, Iron, Python	Web, mobile, desktop	UI	Yes	Jenkins, TeamCity, Bamboo, HP Quality Center	Jira, Git, Subversion, Team Foundation Version Control (TFVC)	\$765 per user (perpetual runtime floating); \$2,539 (perpetual premium node locked); \$3990 (perpetual premium floating); \$5,757 (perpetual premium floating with enterprise support)
TestCraft	TestCraft Technologies Ltd	Windows, Mac, Linux	Chrome, Firefox, Internet Explorer	Scriptless	Web, mobile web	UI	Yes	All leading CI/CD platforms, including Jenkins, TeamCity, etc.	Jira	Pricing info is available only via contacting TestCraft
Applitools	Applitools	Windows, Mac, Linux	Microsoft Edge, Internet Explorer, Chrome, Firefox, Safari	Java, Ruby, Python, .NET, JavaScript, PHP	Web, mobile, desktop	UI	-	Travis, CircleCI, Semaphore CI, Jenkins	Jira, TFS, Git	Starter (3 users); enterprise (unlimited); ultrafast (unlimited) licenses: from \$449/mon
Ghost Inspector	Ghost Inspector, Inc	Linux	Chrome, Firefox	Scriptless	Web	UI	Test Recorder & Codeless Editor	Jenkins, CircleCI	Git	\$89/mon – 10,000 test runs and 5 team members; \$179/mon – 30,000 test runs and 15 team members; \$359/mon – 100,000 test runs and 40 team members; +enterprise packages
Screenster	AgileEngine LLC	Windows, Mac, Linux	Chrome, Firefox, IE	Scriptless	Web, mobile	UI	Yes	Jenkins, TeamCity, Travis, Bamboo	Git	\$25/month (5 max users); \$75/month (unlimited users)

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continued

	Image-based testing	Reporting	Concurrent test runs	Cloud test execution	Scheduled tests	Automatic waits	Auto-heal	Data-driven testing (DDT)	Collaboration functionality	Notifications on test execution	Key characteristics
Selenium	Requires installing additional libraries	-	Via Selenium Grid or with the integration of third-party tool	No	-	No, requires introduction of implicit and explicit waits. But, the new Selenium IDE can automatically wait for a page to load	-	Through third-party integrations	-	-	Customization and vast flexibility
Protractor	Built-in support	Visual reporting and test analytics	Yes	No, requires third-party integrations	-	Yes	-	-	-	Requires NodeMailer	Supports Angular-specific locator strategies, which allows testing Angular-specific elements without setup efforts
Appium	Requires installing additional libraries	-	Requires hand-coding	Yes	-	-	-	-	-	-	Test automation framework for use with native, hybrid and mobile web apps
Cypress.io	Requires plug-ins	Yes, supported by screenshots and videos	Yes	-	-	Yes	-	-	-	-	Developer-friendly, built from scratch (no Selenium architecture)
Puppeteer	-	-	-	-	-	-	-	-	-	-	Focuses on Chromium; rich functionality and high reliability; event-driven architecture
UFT	Built-in support	Yes (Test Results Window)	Yes, but via Micro Focus ALM, which a paid option	Yes, with StormRunner	Yes	-	-	Provides built-in support for DDT by Data Tables	-	-	Cross-device testing, AI capabilities, but supports only inbuilt UFT IDE
Katalon	Built-in support (via Appli-tools Eyes)	Yes, execution video recording and Katalon Analytics	Yes	Yes	-	Yes	Yes	Yes	-	Email notifications, Slack, Microsoft Teams	A complete automation platform for continuous testing; test reports powered by AI; custom keyword development
TestComplete	Built-in support	Real-time information on the progress and status of your testing proces	Yes	Yes	Yes	Yes	Yes	Yes, DDT driver	-	Email notifications, Outlook	The first automation testing tool with a hybrid object and visual recognition engine to test every desktop, web, and mobile application with the native BDD-style Gherkin syntax and scripts; script-less flexibility
EggPlant	Built-in support	Yes, though high-level	Yes	Yes, via EggPlant Automation Cloud	Yes, via Eggplant Manager	-	-	-	-	Email notifications	Optical character recognition; performance monitoring (real and synthetic users) and performance testing solutions
Ranorex	Via integration with Appli-tools Eyes	Real-time reporting	Yes, sets on a Selenium Grid through a WebDriver endpoint	-	Yes	-	-	Yes	-	-	A lightweight IDE optimized for building Selenium web UI tests with Java or TypeScript, without the challenges of Selenium framework setup
TestCraft	Via integration with Appli-tools Eyes	Detailed reports are produced on every run, they include screenshots & videos	Yes	Yes	Yes	-	Yes	Yes	-	Email notifications, text messaging, Slack or others	Codeless Selenium-like with AI-based test maintenance
Applitools	Built-in support	Yes, visual reporting and test analytics	Yes	Yes	Yes	-	-	-	Yes	Slack and email notifications	Intelligent functional and visual testing through visual AI
Ghost Inspector	Built-in support	Video, screenshots, test steps console	Yes	Yes	Yes	Yes	-	Yes	Shared access to dashboards and test editing	Email notifications, Slack, Webhook, HipChat, PagerDuty	No programming experience required; advanced test scheduling
Screenster	Built-in support	Screenshots and test steps	Yes	Yes	Yes	Yes	-	Yes	Shared access to dashboards and test editing	Email notifications	10× faster UI testing automation in the cloud, cloud or self-hosted, without a line of code; smart locators

Set the Right Foundation for Your Test Automation Project

Confused with the amount and diversity of tools? [Contact our team](#) to find the best fit for your project, taking into account its specific needs and priorities.