Playwright

What is Playwright?

Playwright is a framework for Web Testing and Automation. It allows testing Chromium, Firefox and WebKit with a single API.

	Linux	macOS	Windows
Chromium 123.0.6312.22	✅	✅	✅
WebKit 17.4	✅	✅	✅
Firefox 123.0	✅	✅	✅

Why Playwright?

Any browser • Any platform • One API

Cross-browser. Playwright supports all modern rendering engines including Chromium, WebKit, and Firefox.

Cross-platform. Test on Windows, Linux, and macOS, locally or on CI, headless or headed.

Cross-language. Use the Playwright API in TypeScript, JavaScript, Python, .NET, Java.

Test Mobile Web. Native mobile emulation of Google Chrome for Android and Mobile Safari. The same rendering engine works on your Desktop and in the Cloud.

Why Playwright?

Auto-wait. Playwright waits for elements to be actionable prior to performing actions. It also has a rich set of introspection events. The combination of the two eliminates the need for artificial timeouts - the primary cause of flaky tests.
Web-first assertions. Playwright assertions are created specifically for the dynamic web. Checks are automatically retried until the necessary conditions are met.
Tracing. Configure test retry strategy, capture execution trace, videos, screenshots to eliminate flakes.

Powerful Tooling

01 **Codegen.**

 Generate tests by recording your actions. Save them into any language.

02 **Playwright inspector.**

Inspect page, generate selectors, step through the test execution, see click points, explore execution logs.

03 **Trace Viewer.**

Capture all the information to investigate the test failure. Playwright trace contains test execution screencast, live DOM snapshots, action explorer, test source, and many more.

Documentation

https://playwright.dev/