

Workshop Introduction to Microsoft Playwright



Module 1

Conditions and terms of use

© Microsoft Corporation. All rights reserved.

You may use these training materials solely for your personal internal reference and non-commercial purposes. You may not distribute, transmit, resell or otherwise make these training materials available to any other person or party without express permission from Microsoft Corporation. URL's or other internet website references in the training materials may change without notice. Unless otherwise noted, any companies, organizations, domain names, e-mail addresses, people, places and events depicted in the training materials are for illustration only and are fictitious. No real association is intended or inferred. THESE TRAINING MATERIALS ARE PROVIDED "AS IS"; MICROSOFT MAKES NO WARRANTIES, EXPRESS OR IMPLIED IN THESE TRAINING MATERIALS¹

Agenda- Day 1

- . Introduction to Playwright
- . Playwright for UI
- . Hands-on Implementation
- . Debugging tips

Learning Units covered in this Module



Getting Started with Playwright



Demo



More Resources



Getting Started with Playwright

Playwright

Reliable end-to-end testing for modern web apps

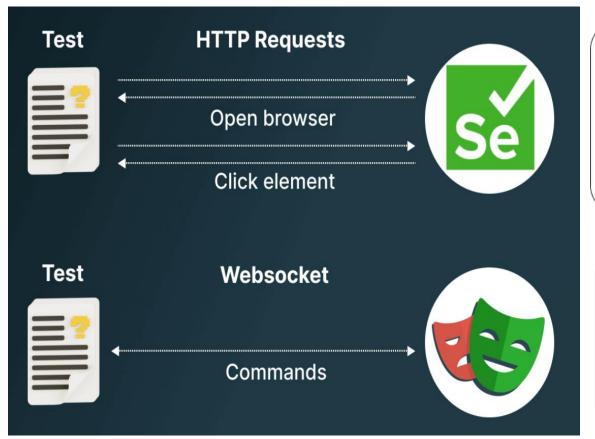
- Any browser Any platform One API
- Full isolation Fast execution
- Powerful Tooling Multi Language

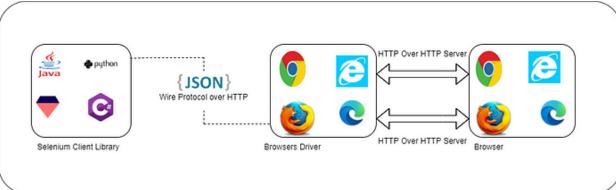


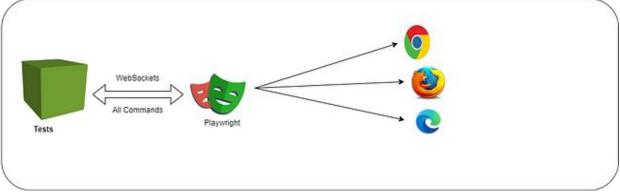
Multi Language



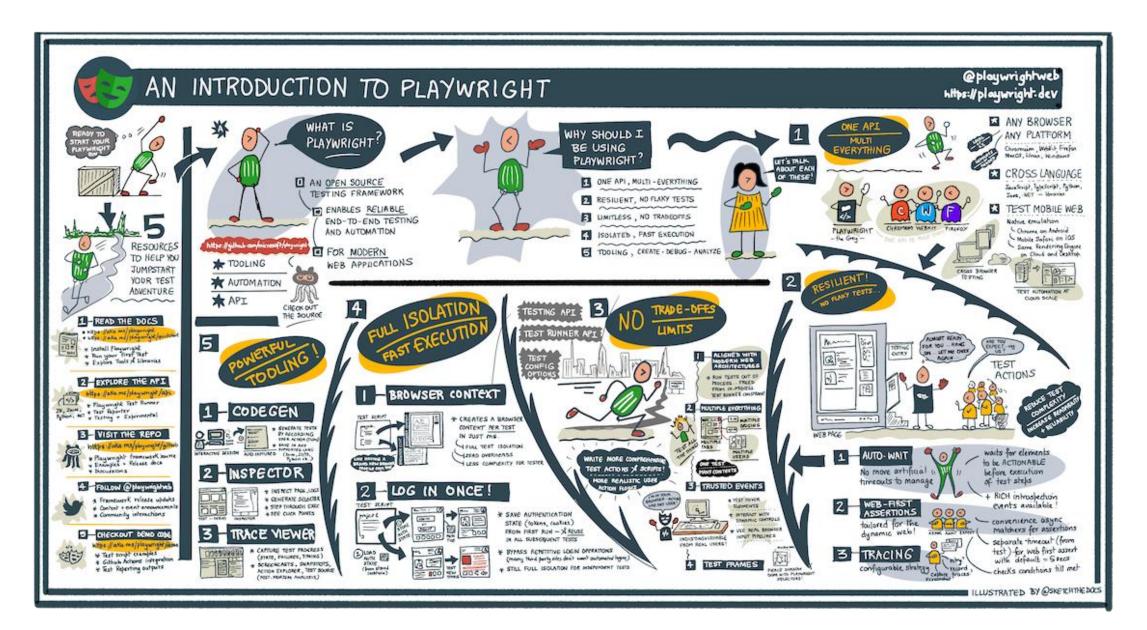
Playwright Architecture







Why should we use Playwright?

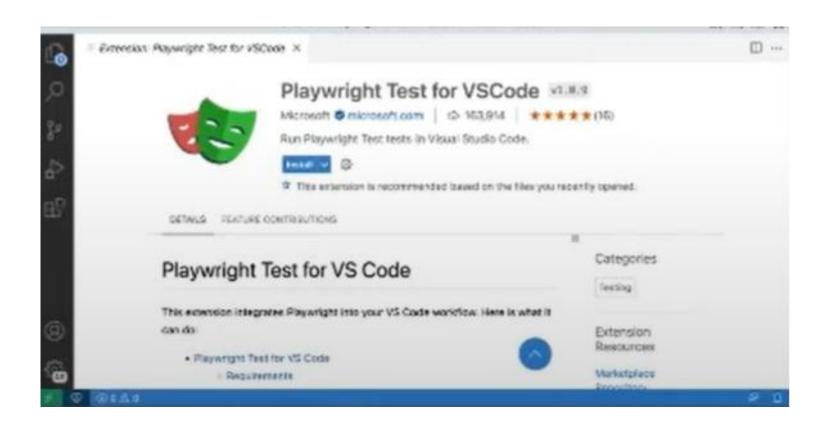


Browsers support

- Chromium (84 & above)
- Firefox (76 & above)
- WebKit (13 & above)
- Google Chrome (Chrome 66 & above)
- Microsoft Edge (Edge 80 & above)

VS Code Extension

Install, run, write and debug tests from VS Code



Installing Playwright

Locating elements

Playwright's locators

- page.getByRole() to locate by explicit and implicit accessibility attributes.
- page.getByText() to locate by text content.
- page.getByLabel() to locate a form control by associated label's text.
- page.getByPlaceholder() to locate an input by placeholder.
- page.getByAltText() to locate an element, usually image, by its text alternative.
- page.getByTitle() to locate an element by its title attribute.
- page.getByTestId() to locate an element based on its data-testid attribute (other attributes can be configured).

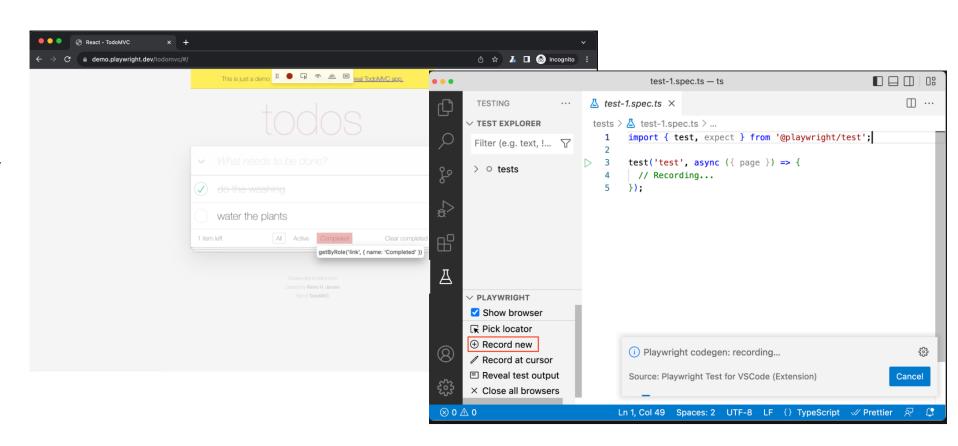
```
await page.getByLabel('User Name').fill('John');
await page.getByLabel('Password').fill('secret-password');
await page.getByRole('button', { name: 'Sign in' }).click();
await expect(page.getByText('Welcome, John!')).toBeVisible();
```

Picking Locators

Codegen

Playwright's test generator

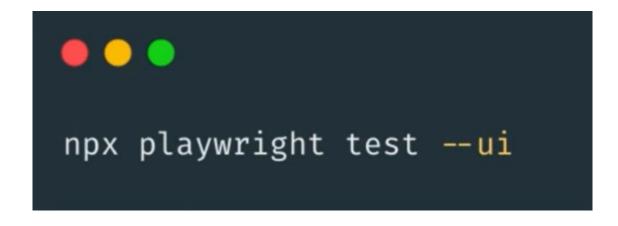
Easily generate your tests by recording user actions



Codegen

UI Mode

Watch mode and time travel debugging

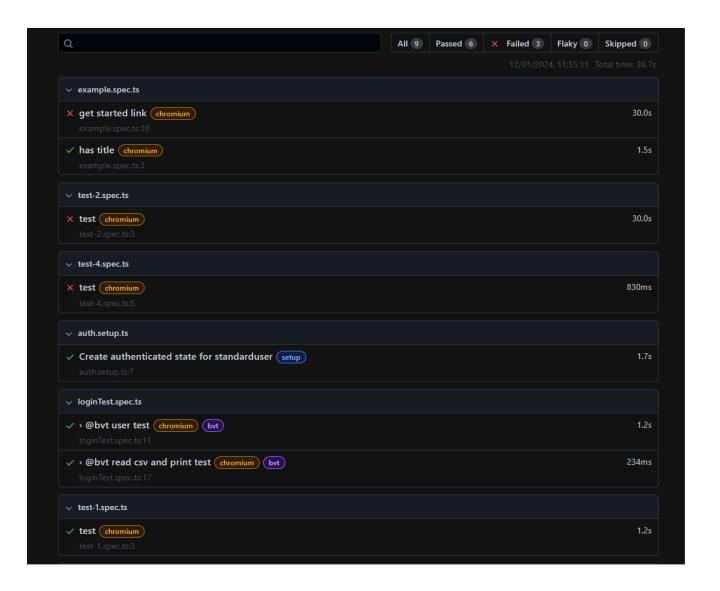


UI Mode

Playwright Report

Built-in Reporter that reports the test execution status in html format

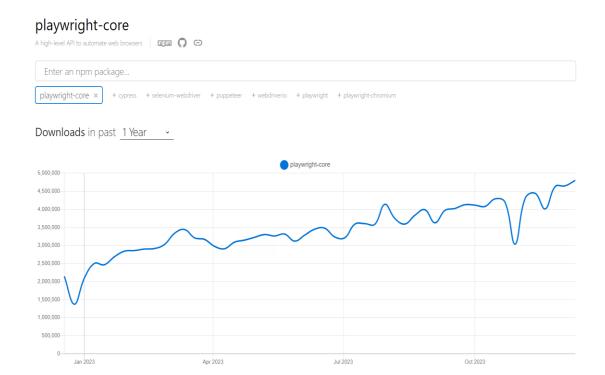
cmd: npx playwright show-report



Playwright Reports



Playwright is Open Source and free





Contributions to main, excluding merge commits



More Resources

More Resources

- Documentation: https://playwright.dev/docs
- · Community on Discord aka.ms/playwright/discord
- · Open source on GitHub: https://github.com/microsoft/playwright
- · File an issue on Github for Bug, Feature Requests.
- Blog: https://dev.to/playwright

Questions?

Microsoft Confidential 24

Microsoft