

Playwright Interview Questions

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1. What is Playwright?

Playwright is a modern end-to-end automation framework developed by Microsoft to test web applications across multiple browsers using a single API.

Key points:

- Supports Chromium, Firefox, WebKit
- Works with JavaScript, TypeScript, Python, Java, C#
- Designed for fast, reliable, flaky-free automation
- Built-in auto-wait, network handling, parallel execution

Code Example

```
import { test, expect } from '@playwright/test';

test('Open homepage', async ({ page }) => {
  await page.goto('https://example.com');
  await expect(page).toHaveTitle(/Example/);
});
```

Interview tip: Playwright tests the browser the same way real users interact — not through drivers.

2. Why use Playwright over Selenium?

Playwright solves many pain points of Selenium.

Selenium	Playwright
Needs WebDriver	No WebDriver
Manual waits	Auto-waiting
Slower	Faster
Flaky tests	Stable tests
Limited network control	Full network control

Code Example

```
// Auto-wait example
await page.click('#loginBtn'); // waits automatically
```

Note: In Selenium, you'd need explicit waits.

3. Which languages does Playwright support?

Playwright supports:

- JavaScript
- TypeScript (recommended)
- Python
- Java
- C# (.NET)

Code Example

```
// TypeScript Example (recommended)
import { test } from '@playwright/test';

test('TS example', async ({ page }) => {
  await page.goto('https://google.com');
});
```

Why TypeScript? Better autocomplete, Type safety, and fewer runtime errors.

4. Which browsers are supported by Playwright?

Playwright supports real browser engines:

- Chromium → Chrome, Edge
- Firefox
- WebKit → Safari (macOS/iOS behavior)

Code Example

```
test.use({ browserName: 'firefox' });
```

Note: One script = all browsers (cross-browser testing made easy).

5. What is Playwright Test Runner?

Playwright Test Runner is a built-in test framework that provides:

- Test execution, Assertions, Parallel runs
- Retries, HTML reports, Fixtures

Code Example

```
test('Login test', async ({ page }) => {
  await page.goto('/login');
});
```

Note: No need for Mocha/Jest separately.

6. How do you install Playwright?

Step 1: Install

Code Example

```
npm init playwright@latest
```

Step 2: Run test

Code Example

```
npx playwright test
```

Install browsers

Code Example

```
npx playwright install
```

Note: This installs browsers, config, and example tests automatically.

7. What is auto-waiting in Playwright?

Auto-waiting means Playwright automatically waits for:

- Element visibility
- Clickability
- Navigation
- Network idle

Code Example

```
await page.click('#submit'); // waits automatically
```

Note: No sleep(), no flaky waits.

8. What is a Locator?

A Locator is Playwright's smart way to find and interact with elements.

Benefits:

- Re-evaluated automatically
- Safer than static selectors
- Handles dynamic DOM

Code Example

```
const loginBtn = page.locator('#login');
await loginBtn.click();
```

Note: Locators are lazy — evaluated only when action is performed.

9. Difference between `page.locator()` and `page.$()`?

<code>page.locator()</code>	<code>page.\$()</code>
Auto-wait	No auto-wait
Retry mechanism	One-time fetch
Recommended	Not recommended

Code Example

```
// Example (bad)
const btn = await page.$('#login');
await btn?.click();

// Example (good)
await page.locator('#login').click();
```

Note: Always use locator() in Playwright.

10. How to launch a browser in Playwright?

Using Test Runner

Code Example

```
test('Launch browser', async ({ page }) => {
  await page.goto('https://example.com');
});
```

Manually (rare case)

Code Example

```
const browser = await chromium.launch({ headless: false });
const page = await browser.newPage();
await page.goto('https://example.com');
```

Note: Test Runner handles browser lifecycle automatically.