



PDF STUDY MATERIAL • UNCODEMY

Playwright with TypeScript

Notes, roadmaps and practice material, curated by the Uncodemy trainer team.



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Quick answer



TypeScript is JavaScript with types, and it is a common language for Playwright because the test runner supports it directly and types catch mistakes early. You need to understand async/await to write Playwright tests.



Clear concepts

Short, plain-language explanations



Hands-on practice

Examples and exercises to try yourself



Job-focused prep

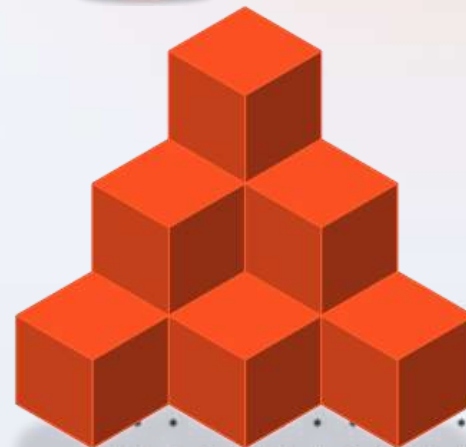
Questions and checklists for interviews

Why TypeScript for Playwright?



Playwright supports JavaScript, TypeScript, Python, Java and .NET. TypeScript adds static types on top of JavaScript, so your editor can autocomplete Playwright methods and warn you about mistakes before the test runs.

Playwright's own test runner runs TypeScript without a separate build step in most setups.



Getting started

1

Install Node.js.

2

Run `npm init playwright@latest` and choose TypeScript.

3

Open the generated example test and run it with `npx playwright test`.

4

Open the HTML report with `npx playwright show-report`.

A first test

Navigate, then use a web-first assertion:



example

```
1 import { test, expect } from '@playwright/test';
2
3 test('page has the expected title', async ({ page }) => {
4   await page.goto('https://example.com');
5   await expect(page).toHaveTitle(/Example/);
6 });
```

TypeScript ideas you will use

Idea	Why it matters in tests
async / await	Every Playwright action returns a promise; forgetting await causes flaky...
Types and interfaces	Describe test data such as a user object
Classes	Page Object classes with typed locators
Imports and modules	Share helpers and fixtures across files
tsconfig	Controls how TypeScript checks your code

Common mistakes



Missing await: the test moves on before the action completes.



Using any everywhere: you lose the benefit of types.



Fixed waits: rely on auto-waiting and web-first assertions.



Large test files: split by feature.

How to use these PDFs



STEP 1

Read the roadmap

Start at the stage that matches your level.



STEP 2

Practise each topic

Try it yourself instead of only reading.



STEP 3

Revise key concepts

Use the tables before an interview or exam.



STEP 4

Move to the next stage

Go on when you can explain this one in your own words.

Your Playwright with TypeScript PDF set



2–3 PDF files, each its own download



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PDF 3

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Frequently asked questions



Is TypeScript better than JavaScript for Playwright?

TypeScript adds type checking and better editor support, which helps catch mistakes early. Both work well; TypeScript is a common choice for larger suites.



How do I install Playwright with TypeScript?

Install Node.js, run `npm init playwright@latest` and choose TypeScript when prompted. It creates a config file and an example test.



Why do Playwright tests use `async` and `await`?

Playwright actions are asynchronous and return promises. `await` makes the test wait for each action to complete before moving on.

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