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<u>PlaywrightDocsAPI</u>

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Test configuration

Introduction

Playwright has many options to configure how your tests are run. You can specify these options in the configuration file. Note that test runner options are **top-level**, do not put them into the use section.

Basic Configuration

Here are some of the most common configuration options.

```
import { defineConfig, devices } from '@playwright/test';
export default defineConfig({
 // Look for test files in the "tests" directory, relative to this
configuration file.
 testDir: 'tests',
  // Run all tests in parallel.
  fullyParallel: true,
  // Fail the build on CI if you accidentally left test.only in the source
code.
 forbidOnly: !!process.env.CI,
  // Retry on CI only.
  retries: process.env.CI ? 2 : 0,
  // Opt out of parallel tests on CI.
  workers: process.env.CI ? 1 : undefined,
  // Reporter to use
 reporter: 'html',
  use: {
   // Base URL to use in actions like `await page.goto('/')`.
   baseURL: 'http://127.0.0.1:3000',
    // Collect trace when retrying the failed test.
   trace: 'on-first-retry',
  // Configure projects for major browsers.
 projects: [
```

```
name: 'chromium',
    use: { ...devices['Desktop Chrome'] },
},
],
// Run your local dev server before starting the tests.
webServer: {
    command: 'npm run start',
    url: 'http://127.0.0.1:3000',
    reuseExistingServer: !process.env.CI,
},
});
```

Description **Option** Whether to exit with an error if any tests are marked as test.only. testConfig.forbidOnly Useful on CI. have all tests in all files to run in parallel. See Parallelism and testConfig.fullyParallel **Sharding** for more details. testConfig.projects Run tests in multiple configurations or on multiple browsers Reporter to use. See Test Reporters to learn more about which testConfig.reporter reporters are available. The maximum number of retry attempts per test. See <u>Test Retries</u> to testConfig.retries learn more about retries. testConfig.testDir Directory with the test files. testConfig.use Options with use { } testConfig.webServer To launch a server during the tests, use the webServer option The maximum number of concurrent worker processes to use for testConfig.workers parallelizing tests. Can also be set as percentage of logical CPU cores, e.g. '50%'.. See <u>Parallelism</u> and <u>Sharding</u> for more details.

Filtering Tests

Filter tests by glob patterns or regular expressions.

```
playwright.config.ts
```

```
import { defineConfig } from '@playwright/test';

export default defineConfig({
    // Glob patterns or regular expressions to ignore test files.
    testIgnore: '*test-assets',

    // Glob patterns or regular expressions that match test files.
    testMatch: '*todo-tests/*.spec.ts',
});
```

Option testConfig.testIgnore Glob patterns or regular expressions that should be ignored when looking for the test files. For example, '*test-assets' Glob patterns or regular expressions that match test files. For example, testConfig.testMatch '*todo-tests/*.spec.ts'. By default, Playwright runs .* (test|spec).(js|ts|mjs) files.

Advanced Configuration

playwright.config.ts

```
import { defineConfig } from '@playwright/test';

export default defineConfig({
    // Folder for test artifacts such as screenshots, videos, traces, etc.
    outputDir: 'test-results',

    // path to the global setup files.
    globalSetup: require.resolve('./global-setup'),

    // path to the global teardown files.
    globalTeardown: require.resolve('./global-teardown'),

    // Each test is given 30 seconds.
    timeout: 30000,

});
```

Option

Description

testConfig.globalSetup

Path to the global setup file. This file will be required and run before all the tests. It must export a single function.

testConfig.globalTeardown

Path to the global teardown file. This file will be required and run after all the tests. It must export a single function.

testConfig.outputDir

Folder for test artifacts such as screenshots, videos, traces, etc.

Playwright enforces a <u>timeout</u> for each test, 30 seconds by default. Time spent by the test function, fixtures, before Each and

testConfig.timeout

afterEach hooks is included in the test timeout.

Expect Options

Configuration for the expect assertion library.

playwright.config.ts

```
import { defineConfig } from '@playwright/test';
export default defineConfig({
  expect: {
    // Maximum time expect() should wait for the condition to be met.
   timeout: 5000,
   toHaveScreenshot: {
    // An acceptable amount of pixels that could be different, unset by
default.
    maxDiffPixels: 10,
   },
    toMatchSnapshot: {
     // An acceptable ratio of pixels that are different to the
     // total amount of pixels, between 0 and 1.
     maxDiffPixelRatio: 0.1,
   },
  },
```

Option

Description

testConfig.expect

Web first assertions like expect (locator).toHaveText() have a separate timeout of 5 seconds by default. This is the maximum time the expect() should wait for the condition to be met. Learn more about test and expect timeouts and how to set them for a single test.

expect(page).toHaveScreenshot() Configuration for the

expect(locator).toHaveScreenshot() method.

Configuration for the

expect(locator).toMatchSnapshot() method.

expect(value).toMatchSnapshot()

Previous
Canary releases

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