



CI GitHub Actions

Introduction

Playwright tests can be ran on any CI provider. In this section we will cover running tests on GitHub using GitHub actions. If you would like to see how to configure other CI providers check out our detailed doc on Continuous Integration.

To add a [GitHub Actions](#) file first create `.github/workflows` folder and inside it add a `playwright.yml` file containing the example code below so that your tests will run on each push and pull request for the main/master branch.

You will learn

- [How to run tests on push/pull_request](#)
- [How to view test logs](#)
- [How to view the trace](#)

Setting up GitHub Actions

On push/pull_request

Tests will run on push or pull request on branches main/master. The [workflow](#) will install all dependencies, install Playwright and then run the tests.

```
.github/workflows/playwright.yml
```

```
name: Playwright Tests
on:
  push:
    branches: [ main, master ]
  pull_request:
    branches: [ main, master ]
jobs:
  test:
    timeout-minutes: 60
    runs-on: ubuntu-latest
```

```

steps:
- uses: actions/checkout@v3
- name: Set up Python
  uses: actions/setup-python@v4
  with:
    python-version: '3.11'
- name: Install dependencies
  run: |
    python -m pip install --upgrade pip
    pip install -r requirements.txt
- name: Ensure browsers are installed
  run: python -m playwright install --with-deps
- name: Run your tests
  run: pytest

```

Via Containers

GitHub Actions support **running jobs in a container** by using the `jobs.<job_id>.container` option. This is useful to not pollute the host environment with dependencies and to have a consistent environment for e.g. screenshots/visual regression testing across different operating systems.

.github/workflows/playwright.yml

```

name: Playwright Tests
on:
  push:
    branches: [ main, master ]
  pull_request:
    branches: [ main, master ]
jobs:
  playwright:
    name: 'Playwright Tests'
    runs-on: ubuntu-latest
    container:
      image: mcr.microsoft.com/playwright/python:v1.38.0-jammy
    steps:
      - uses: actions/checkout@v3
      - name: Set up Python
        uses: actions/setup-python@v4
        with:
          python-version: '3.11'
      - name: Install dependencies
        run: |

```

```
python -m pip install --upgrade pip
pip install -r local-requirements.txt
pip install -e .
- name: Run your tests
  run: pytest
```

On deployment

This will start the tests after a [GitHub Deployment](#) went into the `success` state. Services like Vercel use this pattern so you can run your end-to-end tests on their deployed environment.

`.github/workflows/playwright.yml`

```
name: Playwright Tests
on:
  deployment_status:
jobs:
  test:
    timeout-minutes: 60
    runs-on: ubuntu-latest
    if: github.event.deployment_status.state == 'success'
    steps:
      - uses: actions/checkout@v3
      - uses: actions/setup-python@v4
        with:
          python-version: '3.11'
      - name: Install dependencies
        run: |
          python -m pip install --upgrade pip
          pip install -r requirements.txt
      - name: Ensure browsers are installed
        run: python -m playwright install --with-deps
      - name: Run tests
        run: pytest
    env:
      # This might depend on your test-runner
      PLAYWRIGHT_TEST_BASE_URL: ${github.event.deployment_status.target_url }
```

Create a Repo and Push to GitHub

Once you have your [GitHub actions workflow](#) setup then all you need to do is [Create a repo on GitHub](#) or push your code to an existing repository. Follow the instructions on GitHub and don't

forget to **initialize a git repository** using the `git init` command so you can **add, commit** and **push** your code.

debs-obrien / getting-started

Private

Unwatch 1

Fork 0

Star 0

<> CodeIssuesPull requestsActionsProjectsSecurityInsightsSettings

master1 branch0 tags

Go to file

Add file

<> Code

About

debs-obrien create repo with playwright example test

363fe892 minutes ago1 commit

| | | |
|----------------------|--|---------------|
| .github/workflows | create repo with playwright example test | 2 minutes ago |
| tests-examples | create repo with playwright example test | 2 minutes ago |
| tests | create repo with playwright example test | 2 minutes ago |
| .gitignore | create repo with playwright example test | 2 minutes ago |
| package-lock.json | create repo with playwright example test | 2 minutes ago |
| package.json | create repo with playwright example test | 2 minutes ago |
| playwright.config.ts | create repo with playwright example test | 2 minutes ago |

No description, website, or topics provided.

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

Opening the Workflows

Click on the **Actions** tab to see the workflows. Here you will see if your tests have passed or failed.

<> CodeIssuesPull requestsActionsProjectsSecurityInsightsSettings

Workflows

New workflow

All workflows

Playwright Tests

All workflows

Showing runs from all workflows

Filter workflow runs

1 workflow run

EventStatusBranchActor

create repo with playwright example test

Playwright Tests #1: Commit 363fe89 pushed by debs-obrien

master

4 minutes ago2m 28s

On Pull Requests you can also click on the **Details** link in the **PR status check**.



All checks have failed

1 failing check

[Hide all checks](#)



 Playwright Tests / test (pull_request) Failing after 2m — test

[Details](#)



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Viewing Test Logs

Clicking on the workflow run will show you all the actions that GitHub performed and clicking on **Run Playwright tests** will show the error messages, what was expected and what was received as well as the call log.

Viewing the Trace

trace.playwright.dev is a statically hosted variant of the Trace Viewer. You can upload trace files using drag and drop.

What's Next

- [Learn how to use Locators](#)
- [Learn how to perform Actions](#)
- [Learn how to write Assertions](#)
- [Learn more about the Trace Viewer](#)
- [Learn more about running tests on other CI providers](#)