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Playwright Workshop



3 - Advanced I

Agenda

- Page Objects
- Test Fixtures



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Page Objects

- Contains logic for actions and selectors
- Encapsulates (proportionate) selectors
- Exposes actions
- Heavily debated in other E2E frameworks
- Patterns after Christian Dangl:
 - Page Object < Actions < Repositories < Scenarios
 - <https://www.youtube.com/watch?v=mNcz2nEn1co>



Page Object - holidays

```
import { Page } from "@playwright/test";

export class HolidaysPage {
  constructor(private page: Page) {}

  async getBrochureFor(holidayName: string) {
    await this.page
      .locator(`data-testid=holiday-card`, {
        has: this.page.locator("mat-card-title", { hasText: holidayName }),
      })
      .locator("data-testid=btn-brochure")
      .click();
  }
}
```



Page Object - Usage

```
import { test } from "@playwright/test";
import { HolidaysPage } from "../page-objects/holidays-page";

test.describe("Basics", () => {
  test("test selectors", async ({ page }) => {
    await page.goto("");
    await page.click("data-testid=btn-holidays");
    const holidayPage = new HolidaysPage(page);
    await holidayPage.getBrochureFor("Vienna");

    await page.locator("data-testid=address").waitFor();
  });
});
```



Test fixtures

- Adds the possibility to "inject" additional elements into a test
- Can be combined
- Can be overwritten
- Are activated lazily
- Common use case for page objects



Test fixtures for holidays

```
import { HolidaysPage } from "../page-objects/holidays-page";

export type HolidaysFixtures = {
  holidaysPage: HolidaysPage;
}
```



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Test fixtures in action

```
const test = base.extend<HolidaysFixtures>({
  holidaysPage: async ({ page }, use) => {
    const holidaysPage = new HolidaysPage(page);
    await use(holidaysPage);
  },
});

test.describe("Basics", () => {
  test("test selectors", async ({ page, holidaysPage }) => {
    await page.goto("");
    await page.locator("data-testid=btn-holidays").click();
    await holidaysPage.getBrochureFor("Vienna");

    page.locator("data-testid=address").waitFor();
  });
});
```



Alternative Fixture Type

```
type Fixture<FixtureType extends Record<string, unknown>> =  
  Parameters<typeof test.extend<FixtureType>>[0];
```



A photograph of two people, a man and a woman, sitting at a desk in a computer lab or office. The man, on the left, has curly brown hair and is wearing a blue button-down shirt. He is looking at a large computer monitor that displays a code editor with multiple files open. The woman, on the right, has long brown hair and is wearing a dark jacket. She is also looking at a computer monitor, which shows a code editor with a single file open. The background is a plain, light-colored wall. The overall lighting is soft and focused on the people and their work.

Lab Time