

Automated Testing for Accessibility



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**Testing should happen
alongside feature development
and never be an afterthought**

A close-up photograph of a person's hands typing on a laptop keyboard. The person is wearing a gold-colored cuff bracelet on their left wrist. The background is a warm, textured yellow fabric.

Testing for Accessibility

Test how a user experiences the application

Test the public API of the application

Test the actual rendered templates

Overview

Write unit tests using Jest and the Angular Testing Library

Install Playwright and write end-to-end tests

SIFERS

Simple Injectable Functions Explicitly Returning State

A style of writing unit tests that uses a setup function that takes in state and returns state to prevent leaking between tests



Cleaner Unit Testing with SIFERS

www.youtube.com/watch?v=p-6z0Ee2qml

Optional Unit Testing Libraries

Jest Auto Spies

www.npmjs.com/package/jest-auto-spies

Observer Spy

github.com/hirezio/observer-spy

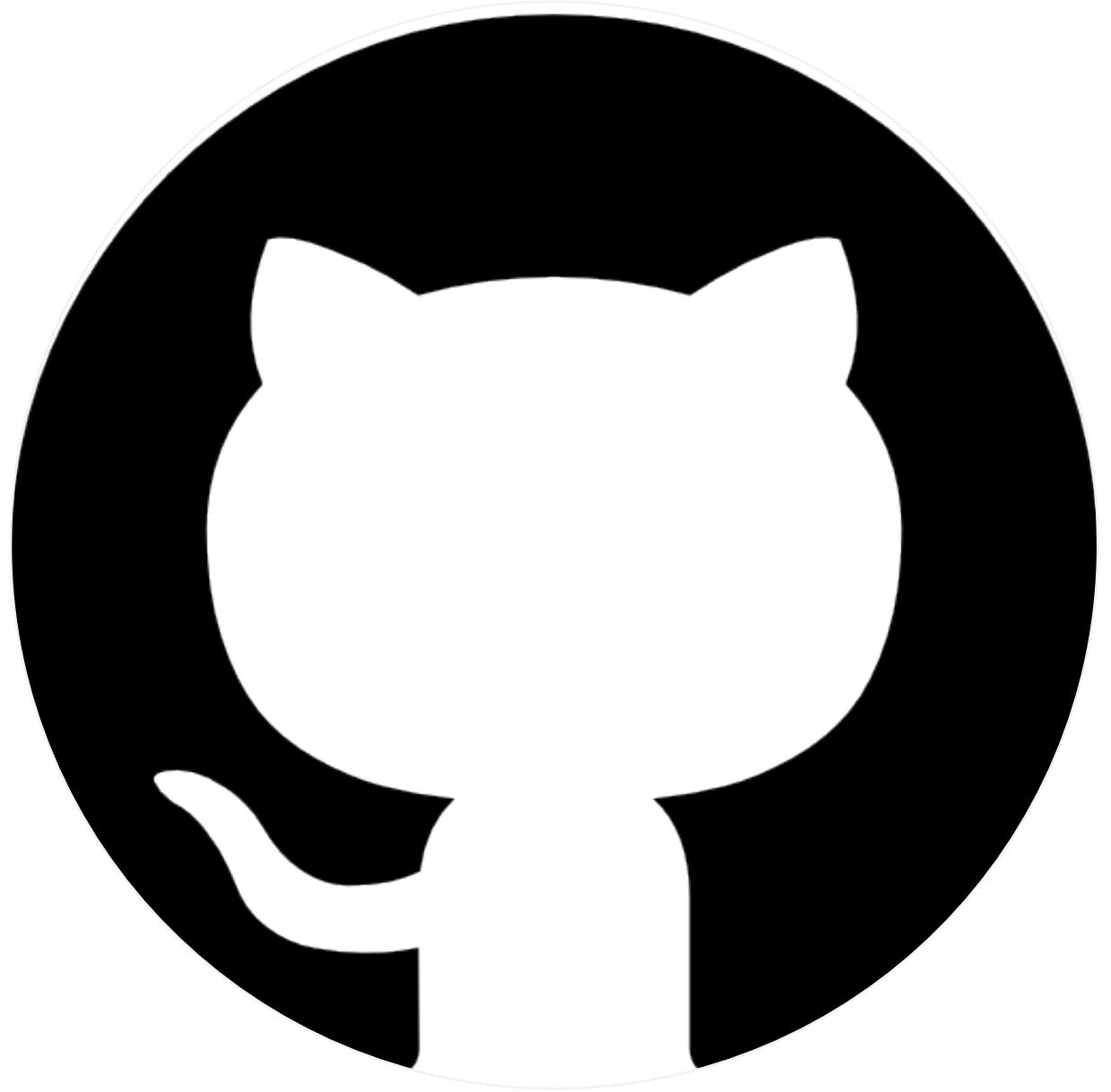


The Boundary Between Unit and E2E Tests

There is no one answer

**Unit test code contained within
a single component**

**Test code that affects multiple
components in end-to-end tests**



Course Github Repository

github.com/lara-newsom/angular-accessibility

Starting branch:
`automated-tests-start`

Ending branch:
`automated-tests-step-four`



Writing a Unit Test Setup Function

Kent C. Dodds

**“The more your tests resemble
the way your software is used,
the more confidence they can
give you.”**

user-event

Behaves like a user

**Simulates the interactions that
happen before and after events**

**Requires elements to be
visible and interactable**



Unit Testing Accessibility



Testing Accessibility

testingaccessibility.com

Angular Testing Library

testing-library.com/docs/angular-testing-library/intro



Writing E2E Tests in Playwright



Playwright Installation Instructions

playwright.dev/docs/intro



Playwright Accessibility Testing

<https://playwright.dev/docs/accessibility-testing>

Summary

Added automated unit tests

Added automated e2e tests

Discovered an issue through testing

The more we practice
writing accessible code
the easier it becomes