

Custom Directives and Shared Components for Angular Accessibility



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Building Consistent Angular Applications

Reusable Components

Custom Directives

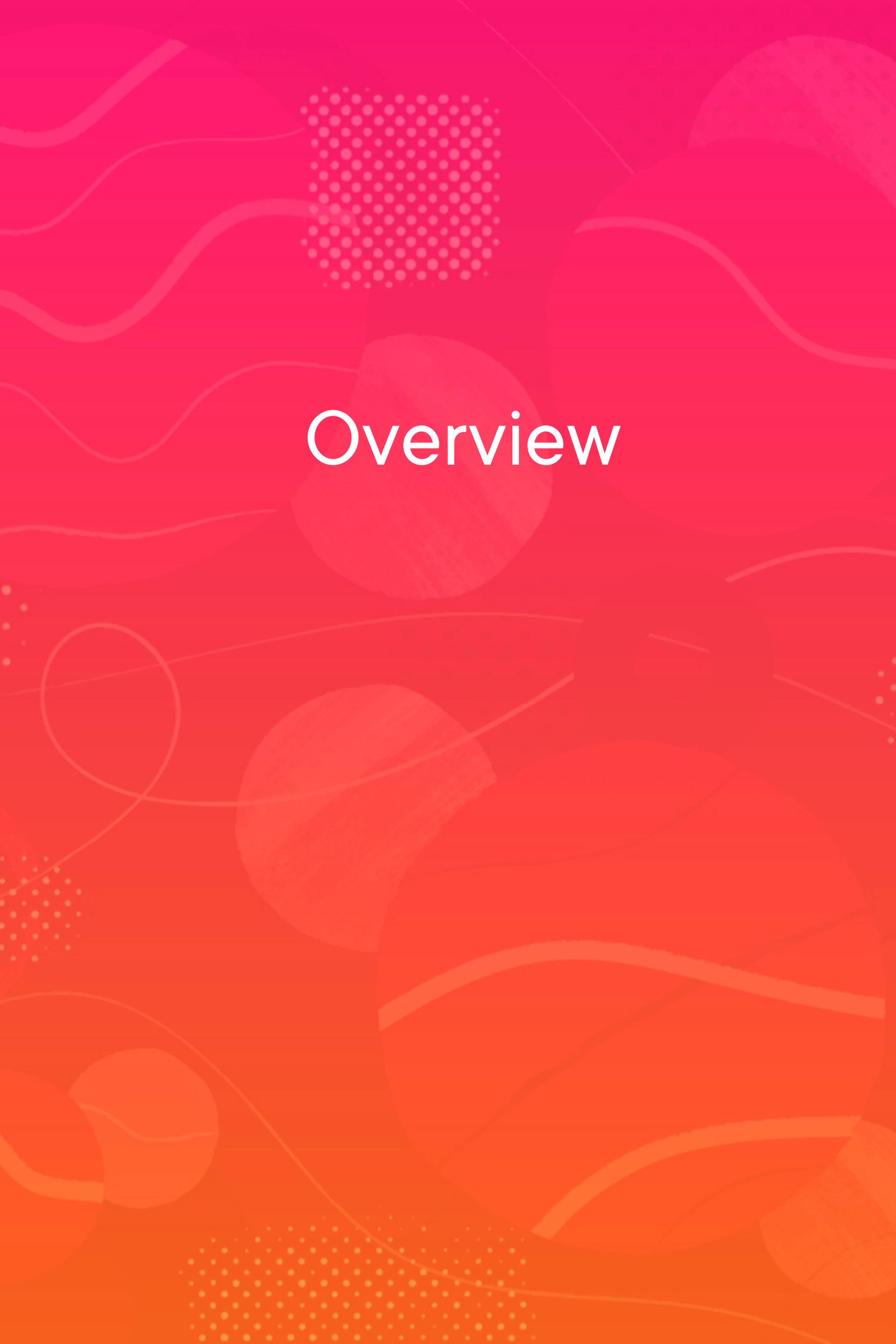
Consistency across the application improves accessibility for all users

Cart Feature Requirements

Add to cart button

Used in multiple components

Fully accessible



Overview

Create a reusable component

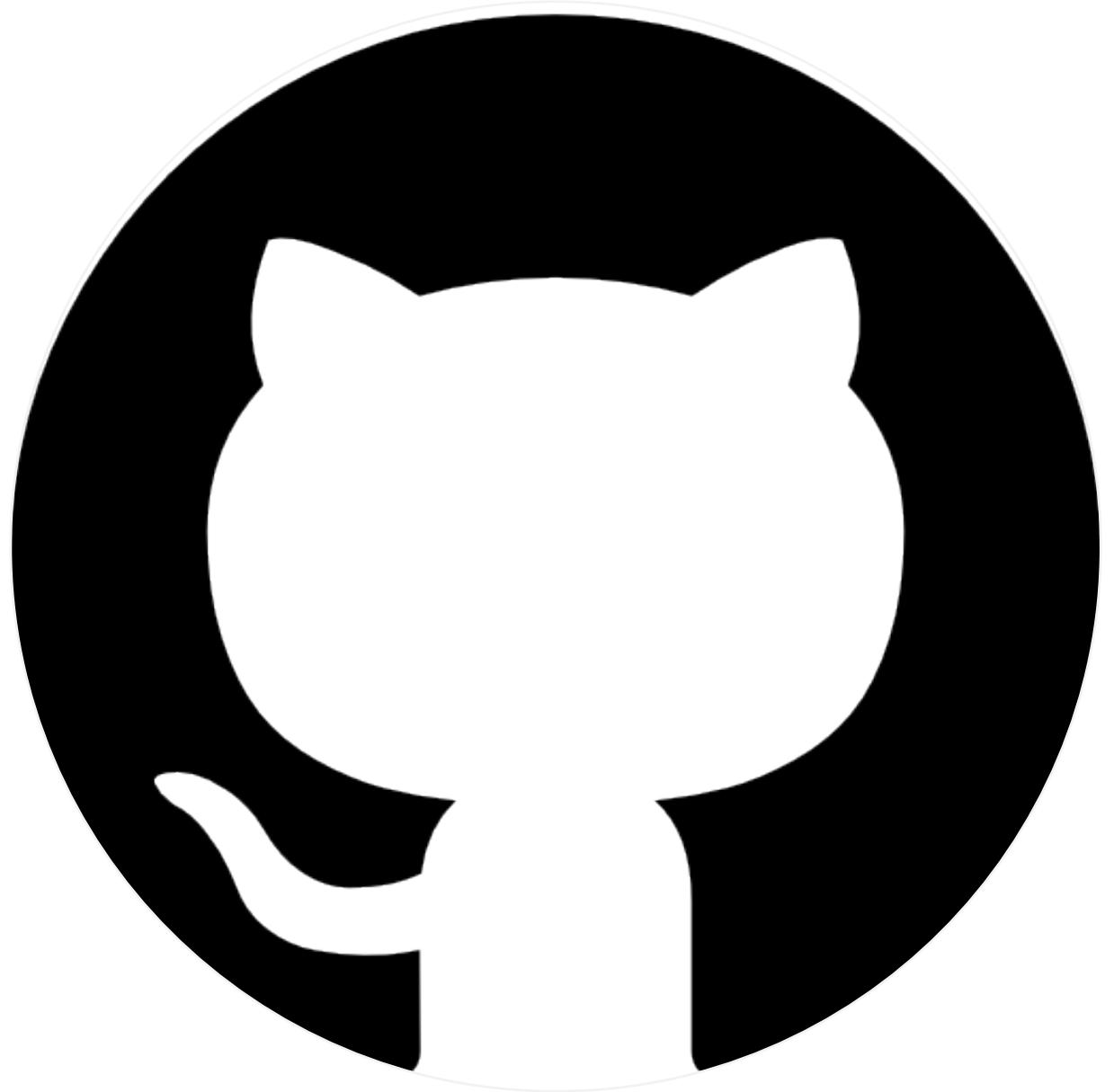
Build a custom attribute directive

**Use content projection to
create a container element**

Implement an Angular Material component



Building Reusable Components



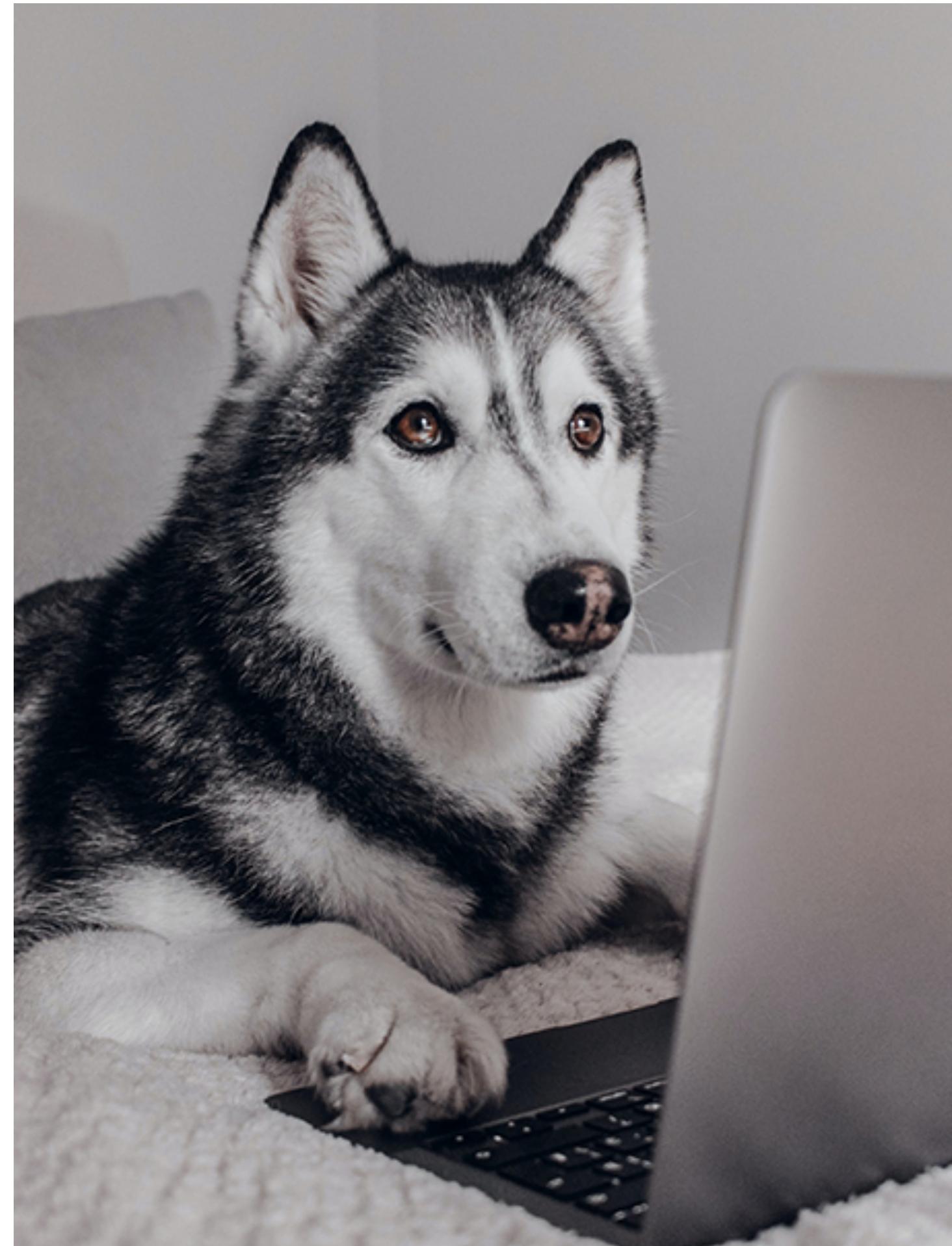
Course Github Repository

github.com/lara-newsom/angular-accessibility

Starting branch:
[custom-directives-start](#)

Ending branch:
[custom-directives-step-one](#)

Add to Cart Button Component Requirements



- Add and remove an item from the cart**
- Dynamically display number in cart**
- Reusable across the app**
- Fully accessible to all users**

**Use natively interactable
components to leverage
built-in browser support**



RxJS and Angular Signals Fundamentals

www.pluralsight.com/courses/rxjs-angular-signals-fundamentals



Building Custom Directives

Angular Custom Directives



**Apply additional style or behavior
to component templates**

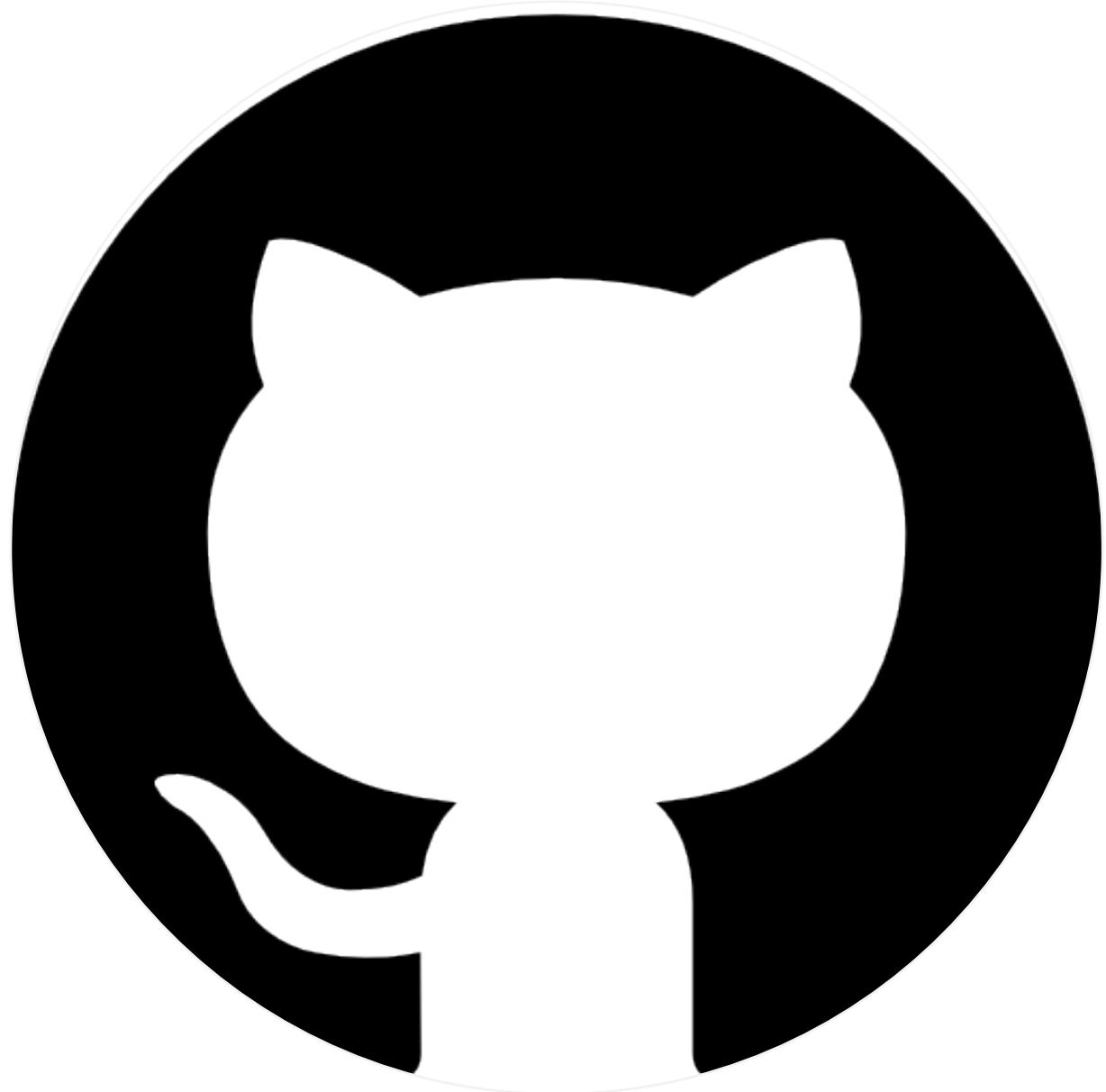
**Components can use one or
many attribute directives**

RouterLink is an attribute directive

Types of Angular Directives

Structural Directives

Attribute Directives



Course Github Repository

github.com/lara-newsom/angular-accessibility

Starting branch:
[custom-directives-step-one](#)

Ending branch:
[custom-directives-step-two](#)

Demo

Angular Directive Composition API



Angular Docs: Attribute Directives

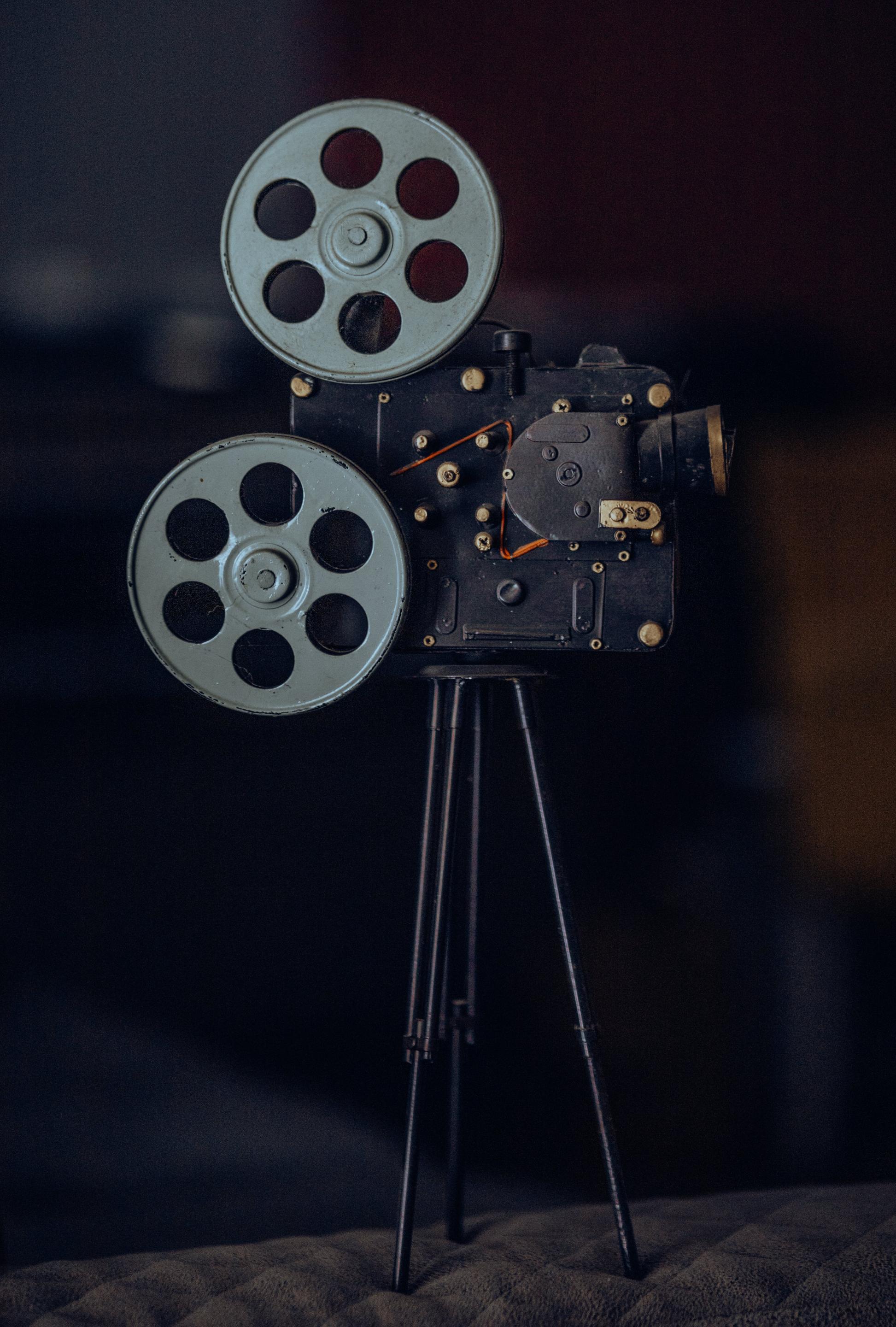
angular.dev/guide/directives/attribute-directives

Angular Docs: Directive Composition API

angular.dev/guide/directives/directive-composition-api



Content Projection

A vintage film projector with two reels on a tripod stand. The projector is dark-colored with visible mechanical parts and wiring. It has two large circular reels at the top, each with several circular holes. The projector is mounted on a tripod stand with three legs. The background is dark, and the projector is illuminated from the side, creating a dramatic effect.

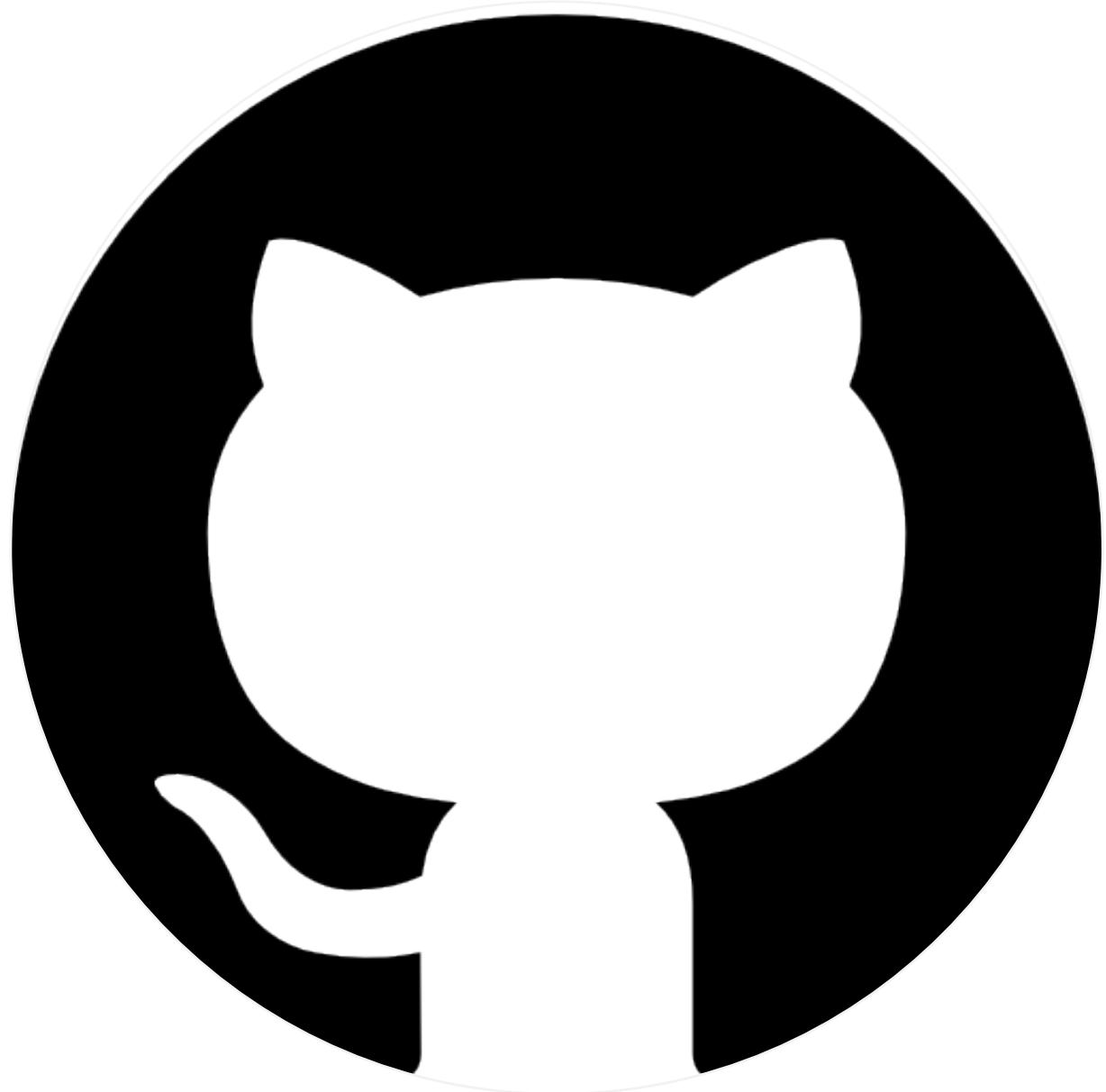
Content Projection

Creates a wrapping component

**Custom content is projected into
one or many `ng-content` elements**

**Accessibility can be built into
the wrapping component**

Content slots can be named for specificity



Course Github Repository

github.com/lara-newsom/angular-accessibility

Starting branch:
[custom-directives-step-two](#)

Ending branch:
[custom-directives-step-three](#)



Accessible Component Libraries

We don't have to
build every component
from scratch



Angular Material

material.angular.io



Even when using accessible component libraries, it is still important to perform manual accessibility testing



Styling Applications with Angular Material

www.pluralsight.com/courses/angular-material

Summary

- Built a custom component**
- Added a custom attribute directive**
- Used the directive composition API**
- Created a container element using content projection**
- Implemented an Angular Material component**

Up Next:

Leveraging the Angular Router for Accessibly Navigation
