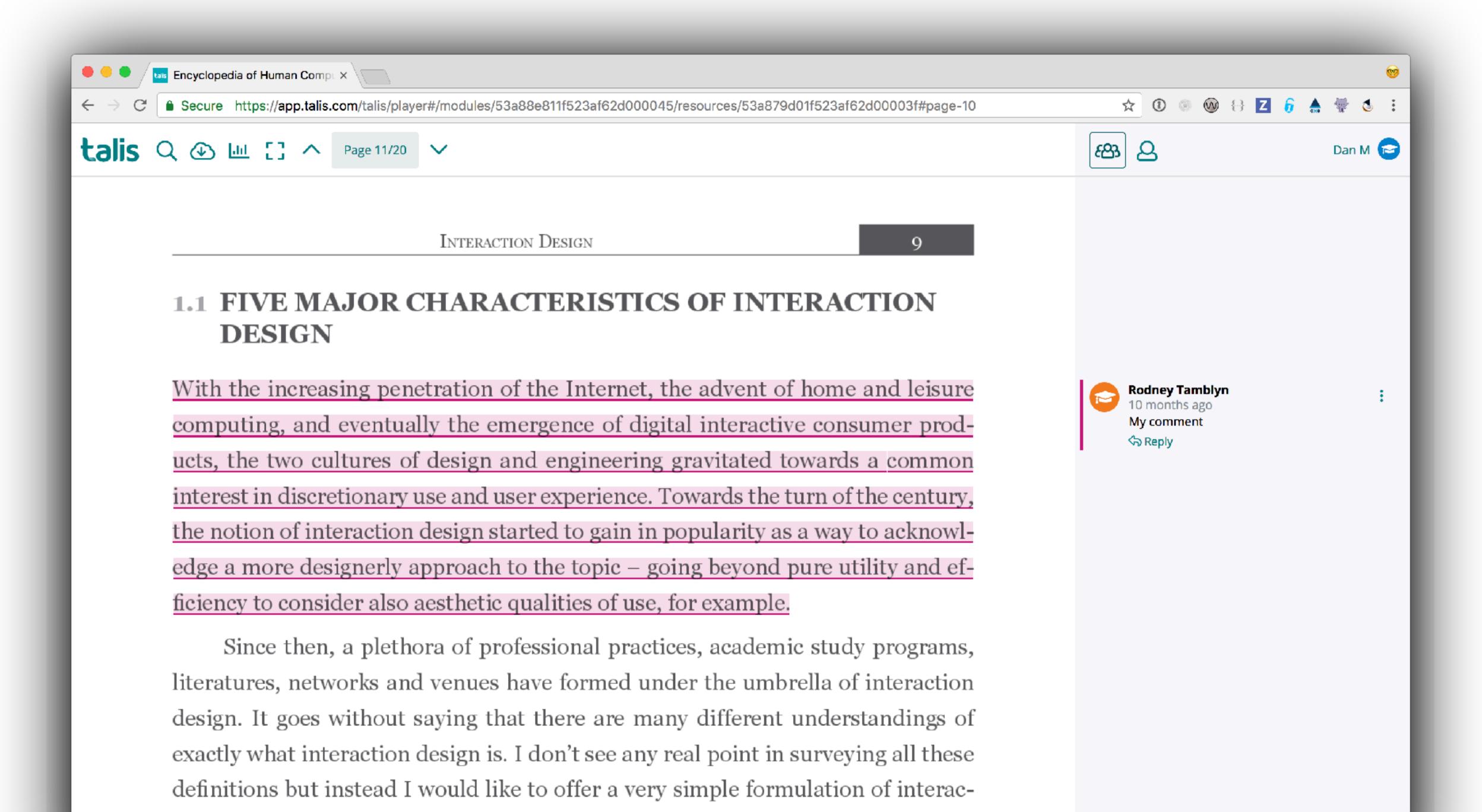


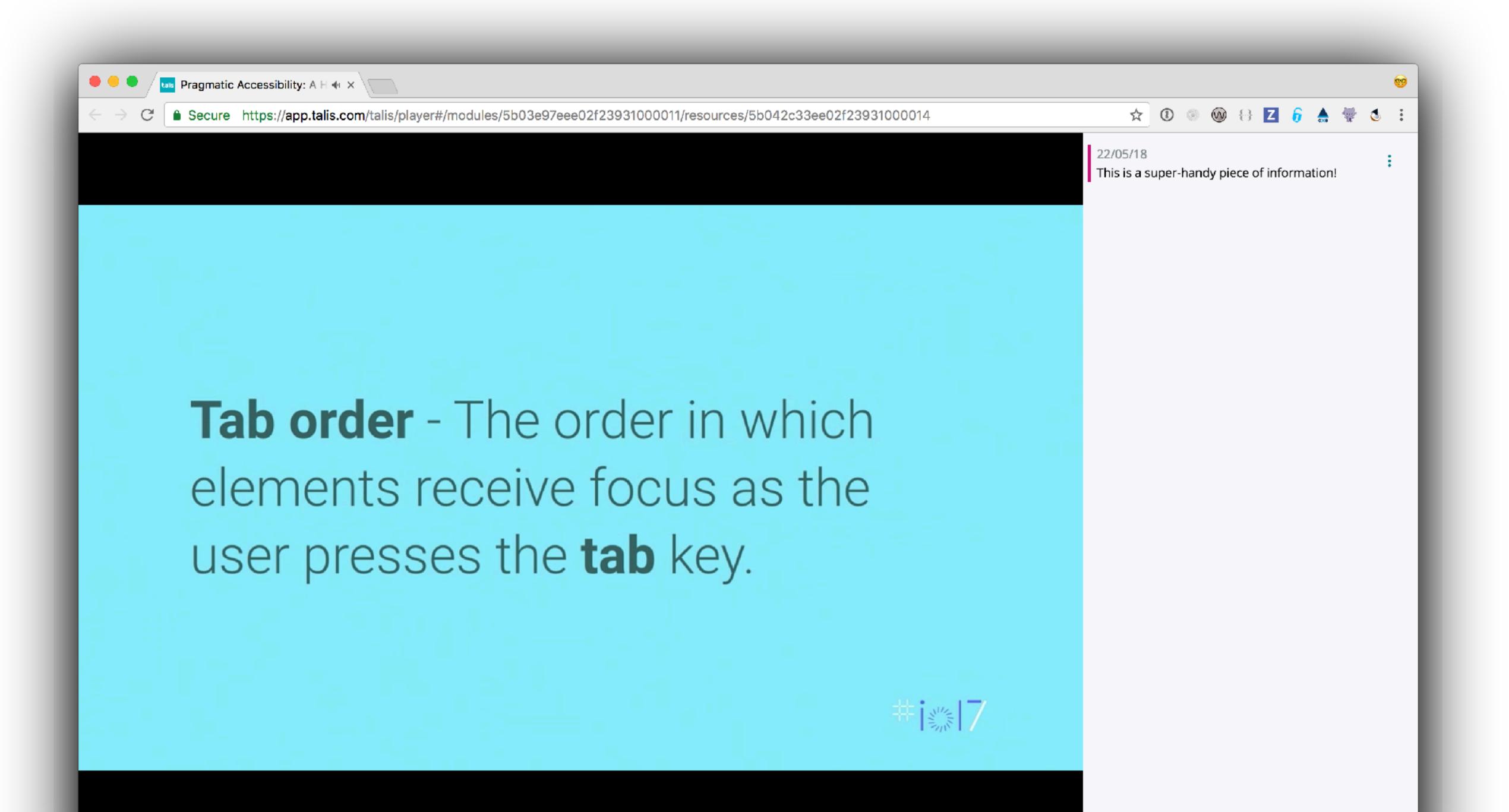
Accessibility Testing

## Accessibility Basics

### Bake it in from the start...

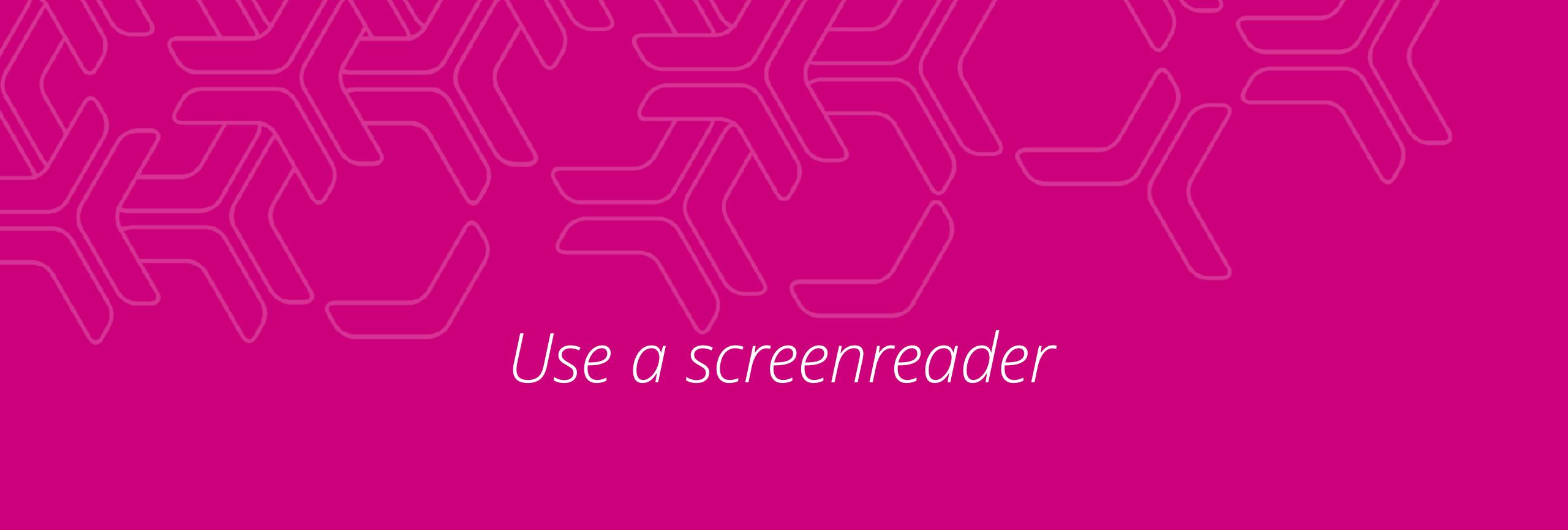






# Manual testing

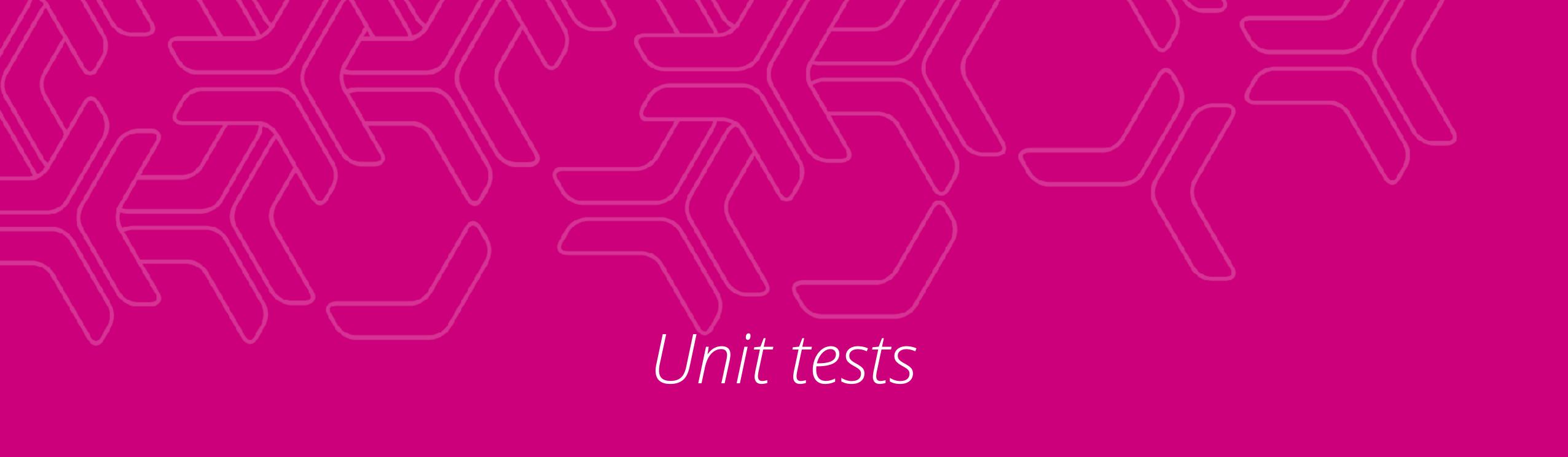
### Tab through a page with the keyboard



### Semi-automated testing



### Properly automated testing



```
000
it('should pass aria-label to the inner button', inject(function() {
   var template = '<custom-button label="Squishy Face"></custom-button>';
   var compiledElement = make(template);
   expect(
     compiledElement
        .find('button')
        .attr('aria-label')
   ).toEqual('Squishy Face');
}));
```

```
000
var axe = require('axe-core');
describe('Custom button', function() {
    it('should have no accessibility violations', function(done) {
        axe.run('custom-button', {}, function(error, results) {
            if (error) return error;
         expect(results.violations.length).toBe(0);
        });
    });
```



```
000
it('should focus the next tab on [arrow right]', async function() {
   const found = await helper.pressKeyUntil(this.driver, Key.TAB,
       ⇒ document.activeElement.getAttribute('role') === 'tab'
   expect(found).to.be.true;
   await this.driver.executeScript(_ ⇒ {
     window.firstTab = document.querySelector('[role="tablist"] > [role="tab"]:nth-of-type(1)');
     window.secondTab = document.querySelector('[role="tablist"] > [role="tab"]:nth-of-type(2)');
   });
   await this.driver.actions().sendKeys(Key.ARROW_RIGHT).perform();
   const focusedSecondTab = await this.driver.executeScript(_ ⇒
     window.secondTab === document.activeElement
   expect(focusedSecondTab).to.be.true;
 });
```

```
000
var AxeBuilder = require('axe-webdriverjs');
var Webdriver = require('selenium-webdriver');
describe('My page', function() {
  it('should have no accessibility violations', function(done) {
    var driver = new Webdriver.Builder().forBrowser('chrome').build();
    driver.get('http://localhost:8080')
       .then(function(done) {
        AxeBuilder(driver)
           .analyze(function(results) {
            expect(results.violations.length).toBe(0);
            done();
        });
});
```

## Real user feedback



Use keyboard & screenreader

Browser plugins

Unit tests

Integration tests