

Testing



Testing

- Tools en omgeving
- @angular/.../testing
- Testing strategies

Testing - Tools and environment



- Unit test runner
- Loads files
- Starts browser
- Reporters



- e2e test runner
- API for interaction with browser
- Simulate a user



- Testing SDK
- Test structure
- Assertions
- Matchers

Tests - Jasmine

```
describe('The tested feature', () => {  
  beforeEach(() => { // setup code });  
  
  describe('could be nested', () => {  
    it('is a test', () => { ... });  
  });  
});
```

Tests - Jasmine

```
expect(array.length).toBe(2);           // ===  
expect(array).toEqual([]);              // ==  
expect('some text').toMatch(/[A-Z]{4}/); // regex  
expect('some text').toContain('some');  // indexOf
```

@angular/.../testing toolbox



Testing - @angular/.../testing

- TestBed
- Angular test helpers
- `async()` / `fakeAsync()`

Unit testing - TestBed

- **Configure Module**
- **Create Components & Directives**
- **Mock dependencies**
- **Angular change detection control**



Unit testing - Angular Test helpers

- HttpClientTestingModule
- RouterTestingModule
- "TestHostComponent"



Testing Strategies



Advised testing strategies



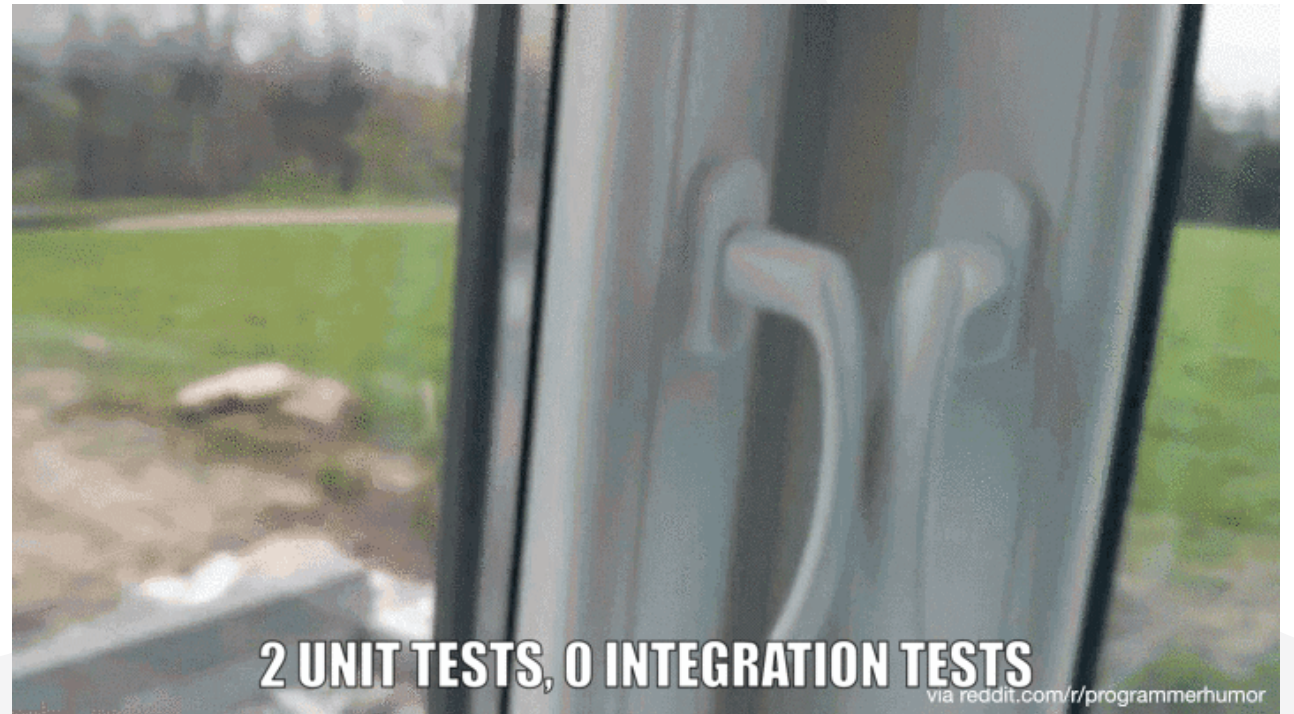
- Services
- Utilities
- Business behaviour



- Integration
- Components
- Routes
- User behaviour

Recap - Testing

- Karma + Jasmine + Protractor
- @angular/.../testing
- Test strategies



Code

