

# End-to-End Testing with Cypress

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# agenda today

General overview of testing apps

Identify the difference between Jest and Cypress

Install and configure Cypress 🙌

Design End-to-End tests with Cypress

Write End-to-End tests with Cypress 🙌

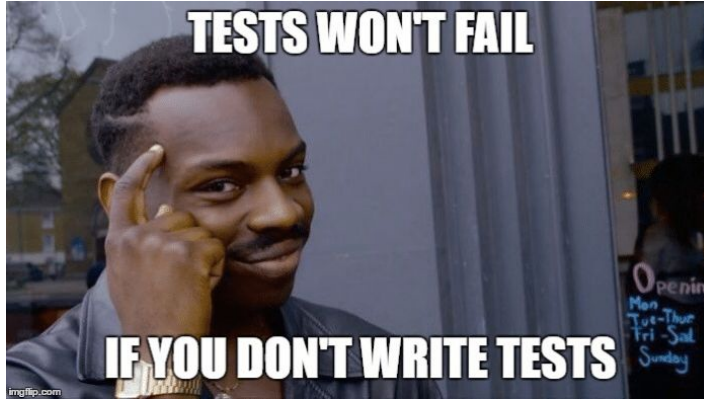
QnA

🙌 = Hands on Demo

# guinea pig

→ App that we will be testing today

<https://github.com/lighthouse-labs/album-search>



Why we need to test our apps?



**Guillermo Rauch**

@rauchg

Write tests. Not too many. Mostly integration.

4:43 PM · December 10th, 2016

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 444

 1,287



<https://kentcdodds.com/blog/write-tests>

# Different Types of test

Here are some of the tests that we may have worked with in the past:

- Unit tests
- Integration tests
- Functional tests
- End-to-end tests

# What is E2E & Cypress ?

- End-to-end testing is a technique that tests the entire software product from beginning to end to ensure the application flow behaves as expected.
- Cypress is an end-to-end testing framework for web test automation. It enables front-end developers and test automation engineers to write automated web tests in JavaScript, the main language used for developing websites.

# Difference between Jest & Cypress

Here are some of the key differences between Jest & Cypress



- CLI based
- Zero Configuration
- Focuses on Unit & Integration Tests
- Isolated Testing i.e. parallel tests
- Fast & cheap
- Con: cumbersome snapshotting large codebases

- Browser based
- Might need some configuration
- Focus on end-to-end testing
- User-flow testing
- Slow & Expensive
- Con: IE, Safari, or Opera not supported



# additional resources

Cypress Documentation

<https://docs.cypress.io/guides/overview/why-cypress#In-a-nutshell>

Cypress Cheatsheet

<https://cheatography.com/aqbal/cheat-sheets/cypress-io/>



Questions?



hands on practice