
Javascript Testing

For Those Who Do Not Like to Test
Michael Oostdyk (Õ-stĭk)





Michael Oostdyk (Ō-stīk)

- No Formal Computer Science Degree
 - Started dev 10 years ago
 - Primary backend framework CakePHP
 - Primary frontend framework React
 - Love saving people (and myself) time
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Suggest a (fun) method to start testing

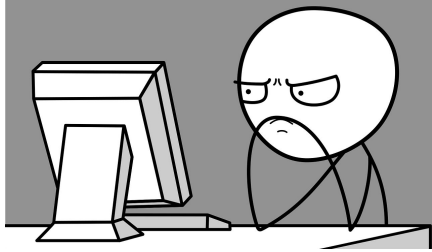
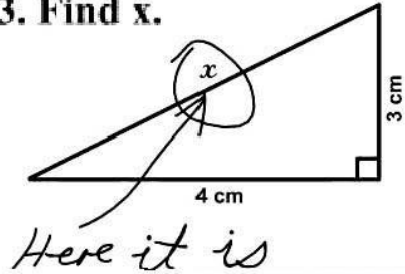
- without changing anything
 - Or requiring technical debt
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Overview

- {What/When} Test This, Test That. Test Here, Test There
 - {How} Unit vs Integration vs UI Testing
 - {Where} Unit/Integration Tests
 - {Where} UI Tests
 - Tidbits
 - Resources
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3. Find x .



Test Test Test Test Fail Test Pass

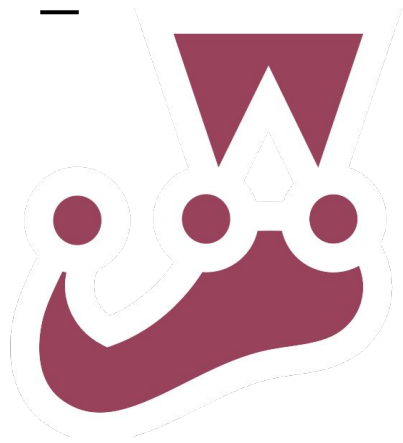
- (willingness) What do I want to know about my application?
 - (hurdles) What will save me the most amount of time with the least amount of effort?
 - (simplify) How hard/annoying/complicated is it to test manually?
 - (future) How likely am I going to have to test this again?
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All the unit tests are passing

Unit vs Integration vs UI Testing

- Unit Tests - Pretending the mirror is a girl and asking it out on a date and providing all the answers.
 - Integration Tests - Get your friend to be the girl and ask him out on a date.
 - UI - With an exact replica of yourself. Find a real girl. Walk up to the girl. Smile. Ask real girl out on the date. Dodge boyfriend's punch. Fail. Lay on floor.
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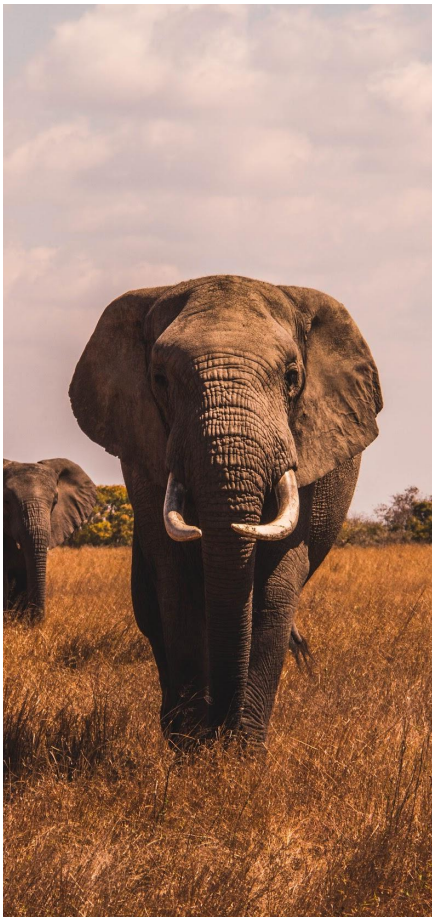
Unit/Integration Tests

- Jest - Delightful JavaScript Testing
 - Typescript support via ts-jest
 - Test structure, assertions, mocks and more!
 - Any framework or just pure javascript
 - Snapshots are just one form of 'expectation'
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UI Tests

- TestCafe - end-to-end web testing
 - More real world at the expense of speed
 - No deps (selenium webdriver anyone? Phantom?)
 - Framework agnostic
 - Integrates with providers like Browserstack for cross browser tests
 - Headless and non headless modes
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tidbits

- Test Cafe Studio
 - Debugger
 - Devtools and source maps
 - Sources -> snippets
 - Screenshots
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Resources

- An Overview of JavaScript Testing in 2018
 - <https://medium.com/welldone-software/an-overview-of-javascript-testing-in-2018-f68950900bc3>
- TestCafe
 - <https://github.com/DevExpress/testcafe>
- Jest
 - <http://jestjs.io/docs/en/getting-started.html>