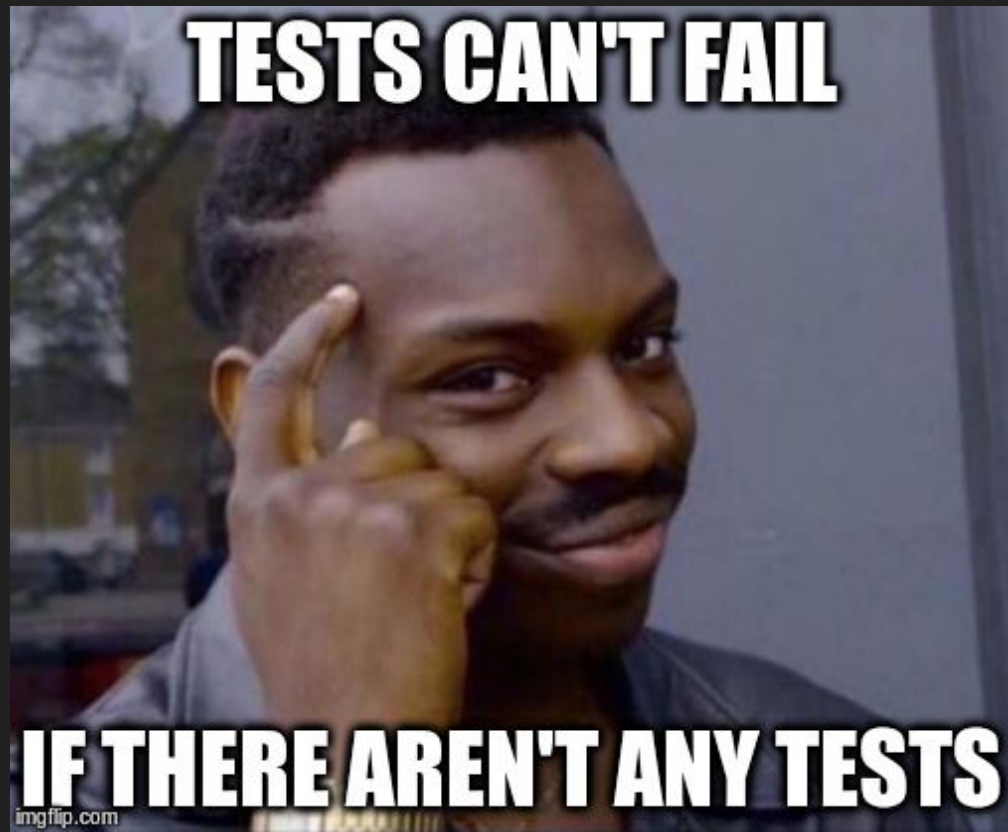# Testing in Django

why, how & what

@codingjoe

Team Lead Internal Tools
@Thermondo
WE ARE HIRING!

but first, statistics
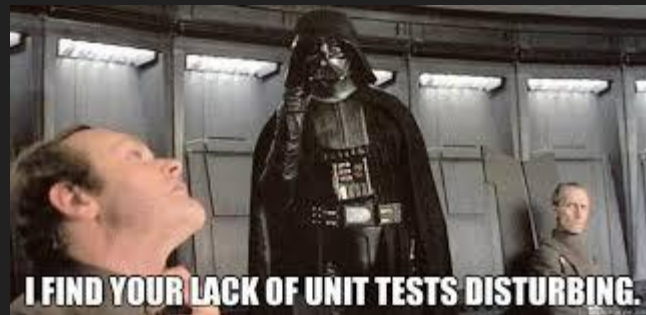
why we test (in memes)

stakeholders

Who cares about tests?

- developers
- managers
- customers

OUR TESTERS FOUND MORE BUGS THAN OUR CUSTOMERS DID!

customers

developers

WHEN YOU FINALLY DELIVER A RELEASE
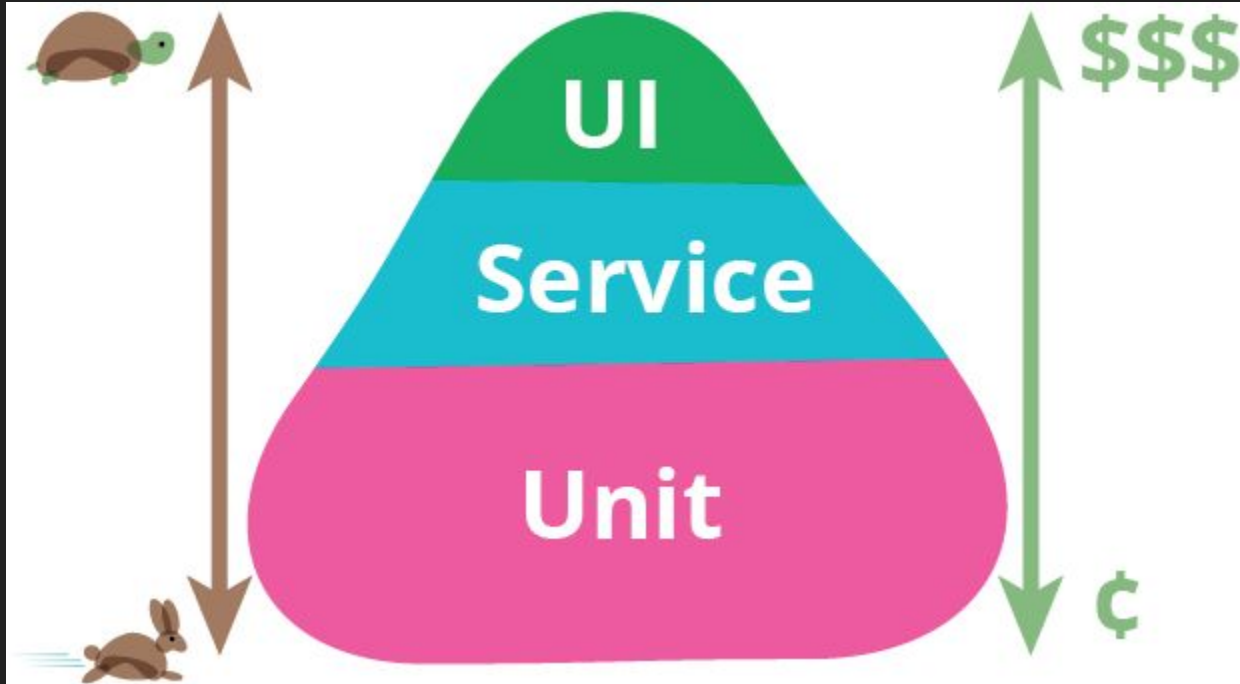
IT'S OVER... IT'S DONE

managers

how to

do it right

What are your tests supposed to do? – Which are there?

- Ensure working code
  to develop with confidence.
- Ensure working features
  to release with confidence.
- Refactor code without
  regression and side effects.
- They better be fast (writing & execution).
- They should improve your code.

- unit testing
- integration testing
- system testing
- acceptance testing
- instrumentation testing
- UAT
- regression testing
- alpha testing
- beta testing
- A/B testing
- functional & non-functional testing
- accessibility testing
- performance testing
- pen testing
- usability testing
- destructive testing

the test pyramid or how often do you release?

unit tests

- **Ensure working code to develop with confidence.**
- Ensure working features to release with confidence.
- **Refactor code without regression and side effects.**
- **They better be fast (writing & execution).**
- **They should improve your code.**

- **unit testing**
- integration testing
- system testing
- acceptance testing
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- destructive testing

(lazy) acceptance testing

- **Ensure working code to develop with confidence.**
- **Ensure working features to release with confidence.**
- **Refactor code without regression and side effects.**
- **They better be fast (writing & execution).**
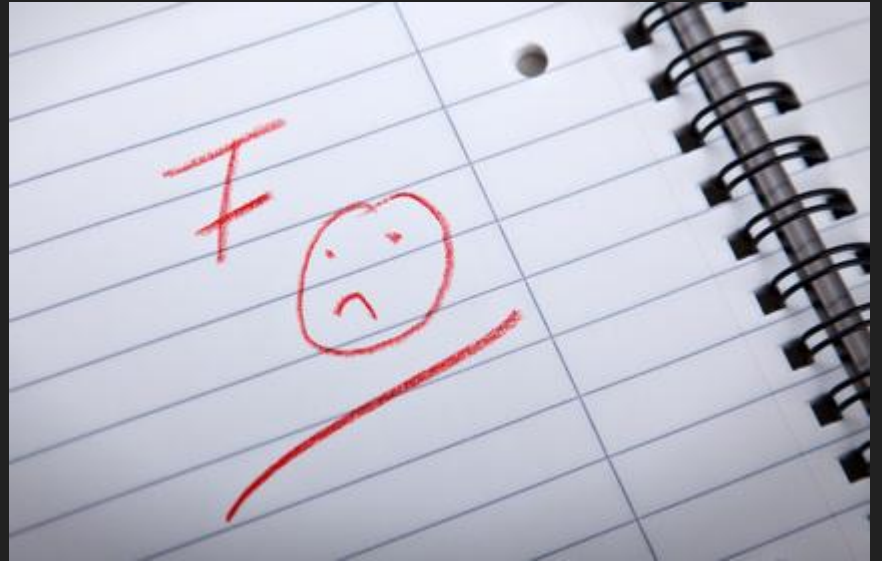- **They should improve your code.**

- **unit testing**
- integration testing
- system testing
- **acceptance testing**
- instrumentation testing
- UAT
- regression testing
- alpha testing
- beta testing
- A/B testing
- functional & non-functional testing
- accessibility testing
- performance testing
- pen testing
- usability testing
- destructive testing

good tests

and how to write them

good tests

- atomicity
- isolation
- integrity (mutebility)
- fast
- readable

unit tests

live coding!