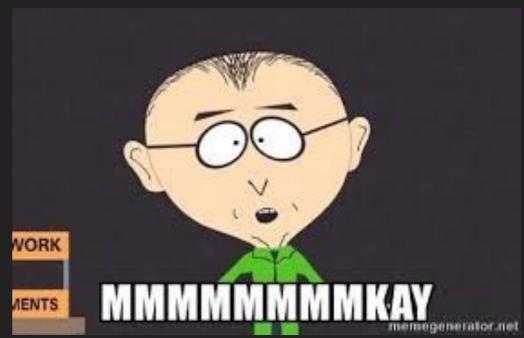
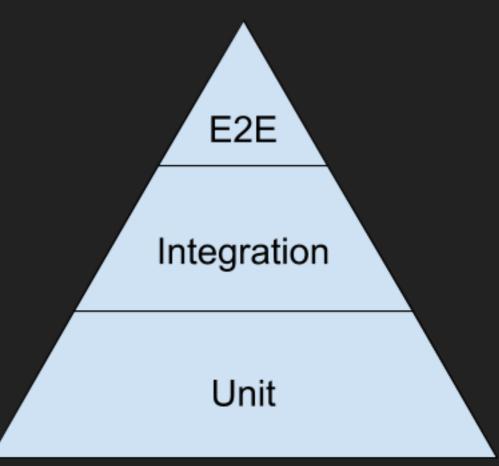
DONATAS KUČINSKAS

TEST-DRIVEN DEVELOPMENT

- Testing is good:
 - Saves development time
 - Avoid bugs
 - Less manual testing = happy developer
 - Increases developer
 confidence in codebase ->
 new features faster -> happy
 product owner





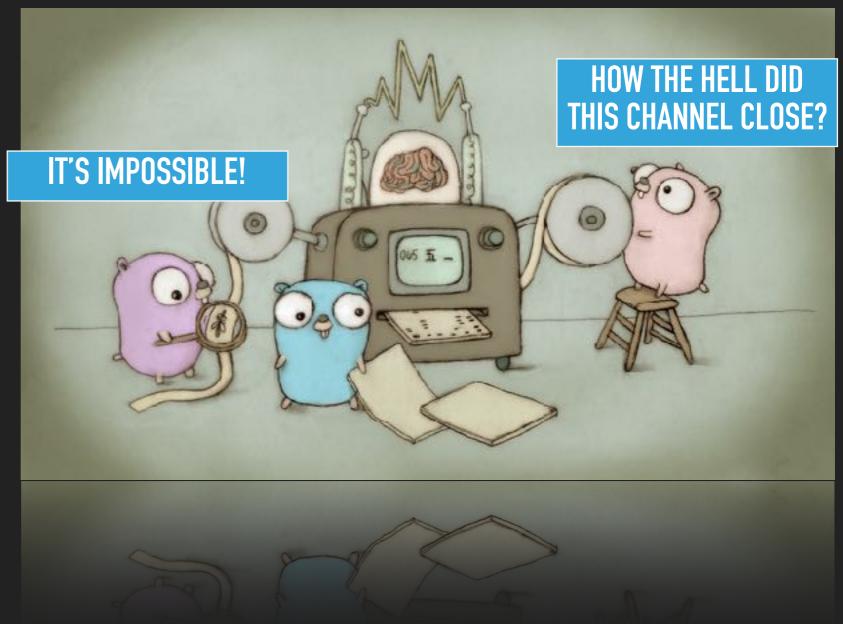
PROBLEMS WHEN TESTING WITH NO TDD

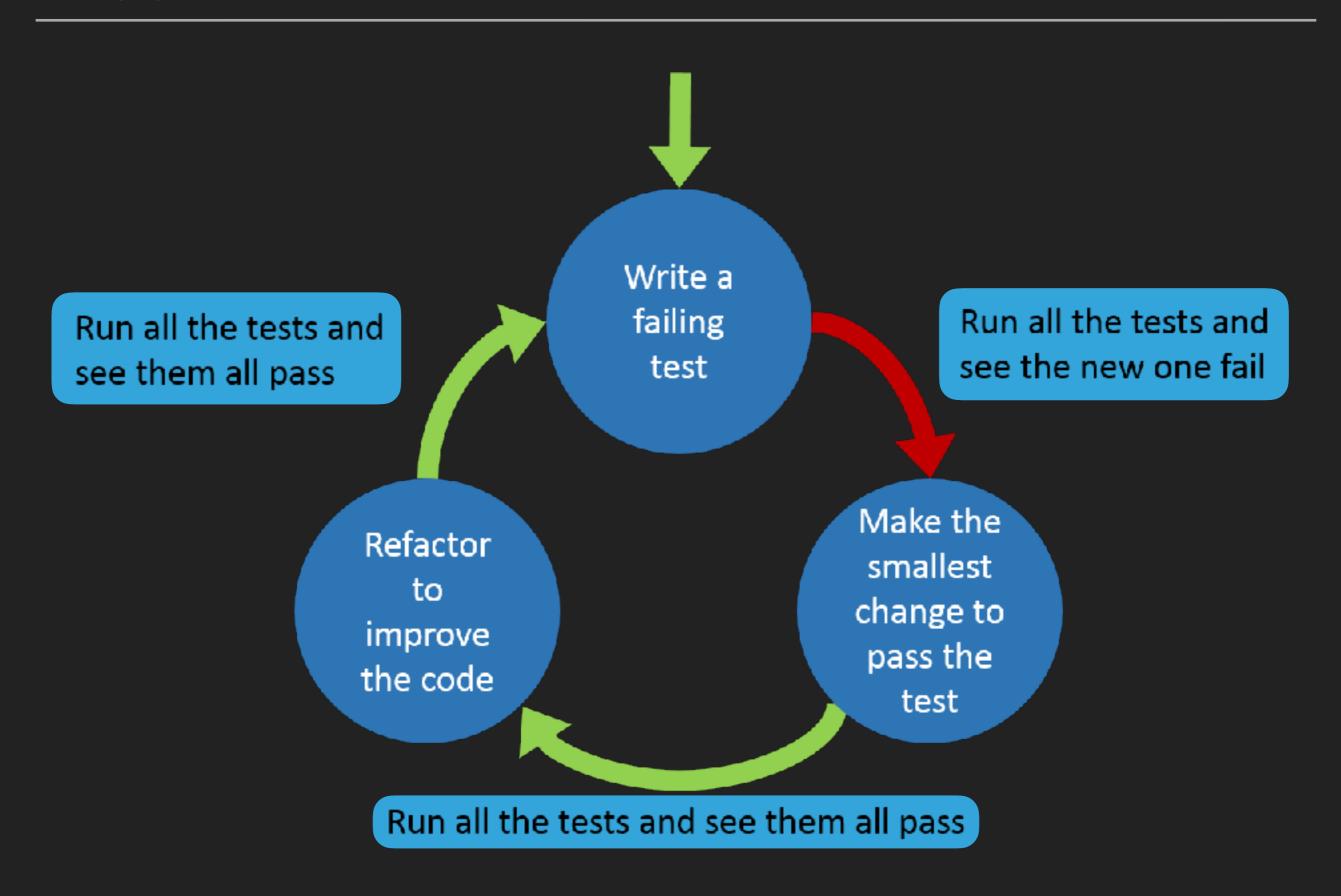
- Scenario #1: annoying debugging of stupid errors (when implementing many things at once, before ensuring any of it works)
- Scenario #2: too many tests, but still some areas are not covered

Scenario #3: feature implemented, everything works - it's tests time now... Yay

...:(

Scenario #4: ...





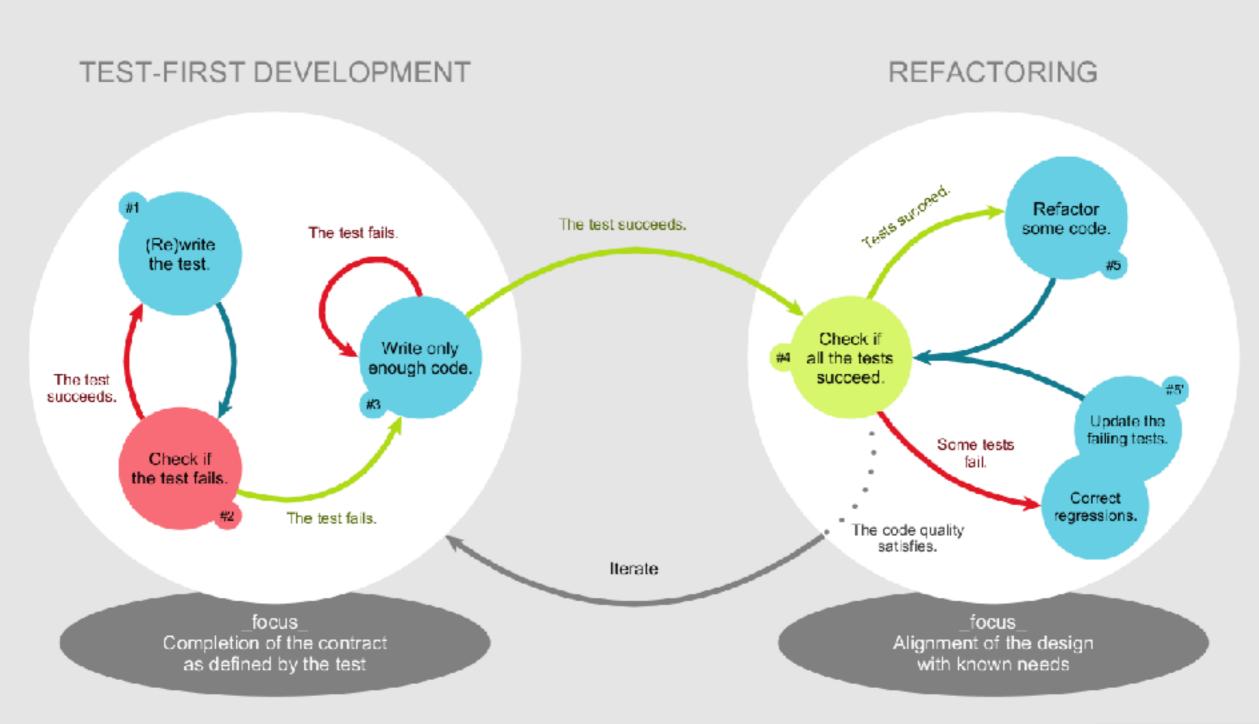
- Ensures all code is tested
- Ensures all tests are essential, avoids having too many tests
- Makes development easy by adding requirements incrementally
- Makes testing satisfying
- Increases confidence in code:
 - Ensures refactoring does not break something
 - Ensures better design
 - Ensures faster feature release

Microsoft:

The results of the case studies indicate that the prerelease defect density of the four products decreased between 40% and 90% relative to similar projects that did not use the TDD practice. (https://www.microsoft.com/en-us/research/wp-content/uploads/2009/10/Realizing-

Quality-Improvement-Through-Test-Driven-Development-Results-and-Experiences-of-Four-Industrial-Teams-nagappan_tdd.pdf)

IT'S SHOWTIME!





```
if reader.isDoingTesting {
    go reader.startTDD()
} else {
    go reader.startTesting()
}
```

- TDD helps everybody
- TDD is fun
- Give it a try



