TEST DRIVEN DEVELOPMENT Java Clean code

Outline

Lesson 11

Components

Lesson 12.

Architecture

Lesson 13.

Any fool can write code that
a computer can understand.
Good programmers write code that
humans can understand.
Martin Fowler





Laws for TDD by Kent Beck

- Don't write a line of new code unless you first have a failing automated test
- Eliminate duplication



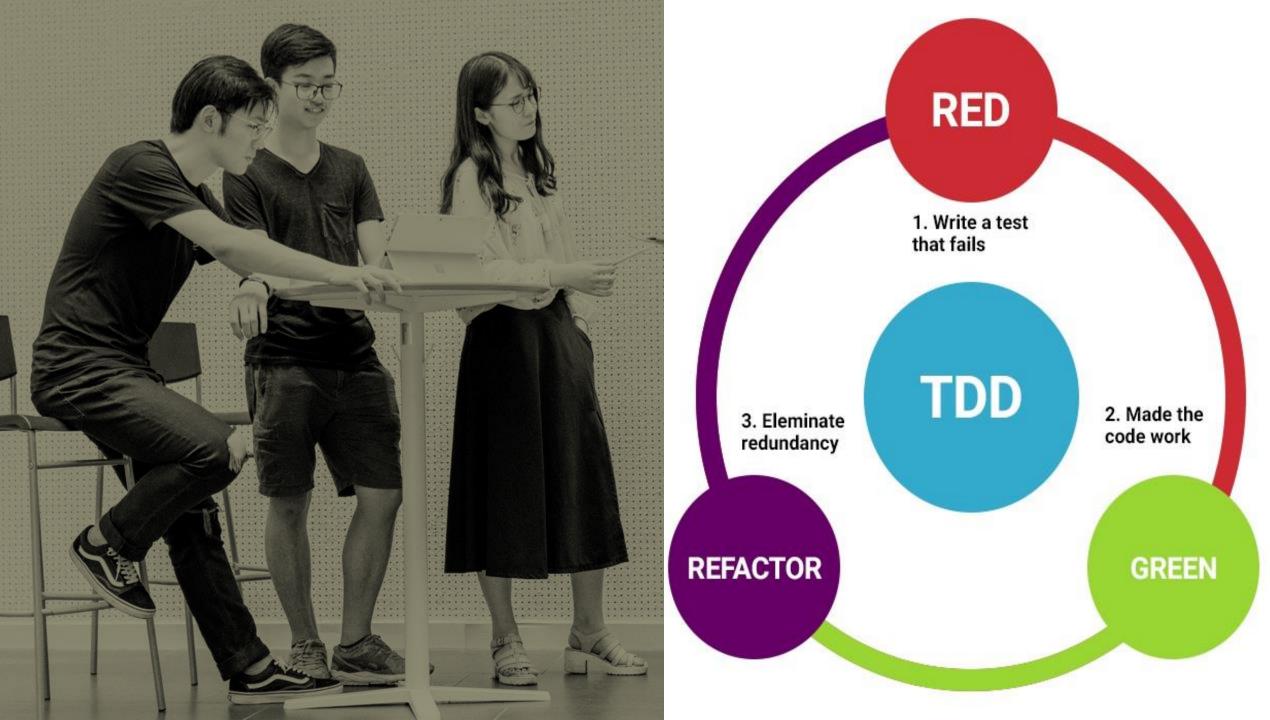
Laws for TDD by Uncle Bob

- You must write a failing test before you write any production code.
- You must not write more of a test than is sufficient to fail, or fail to compile.
- You must not write more production code than is sufficient to make the currently failing test pass.



Laws for TDD by Martin Fowler

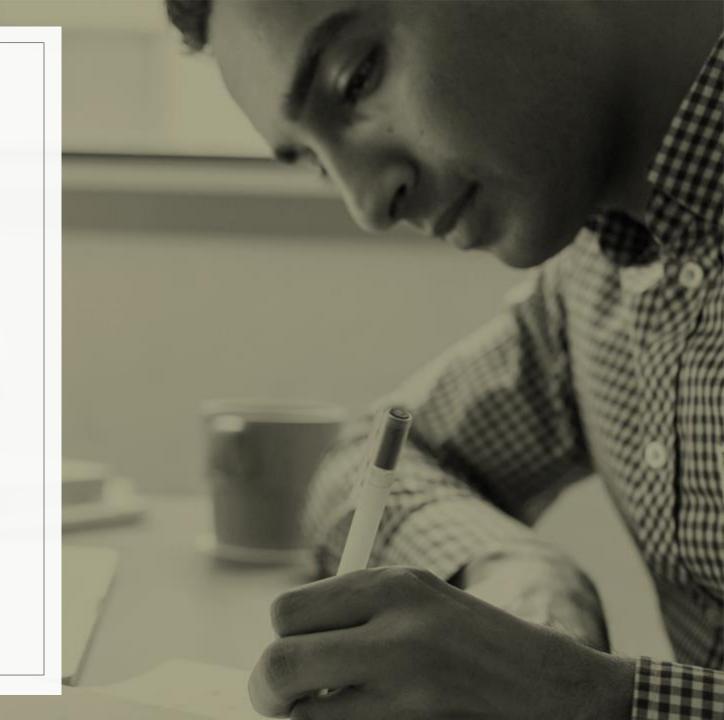
- Write a test for the next bit of functionality you want to add.
- Write the functional code until the test passes.
- Refactor both new and old code to make it well structured.



- Enough to fail
- Enough to pass
- Keep going



- Debug time
- Design documents
- Code change
- Not perfect



TDD legacy code

- Catch 22 or deadlock
- QA should not find bugs
- 85% code coverage





TDD Summary

- Debug time
- Reliable documentation
- Code change



Lesson 11

Lesson 12

Lesson 13

Components

Architecture



