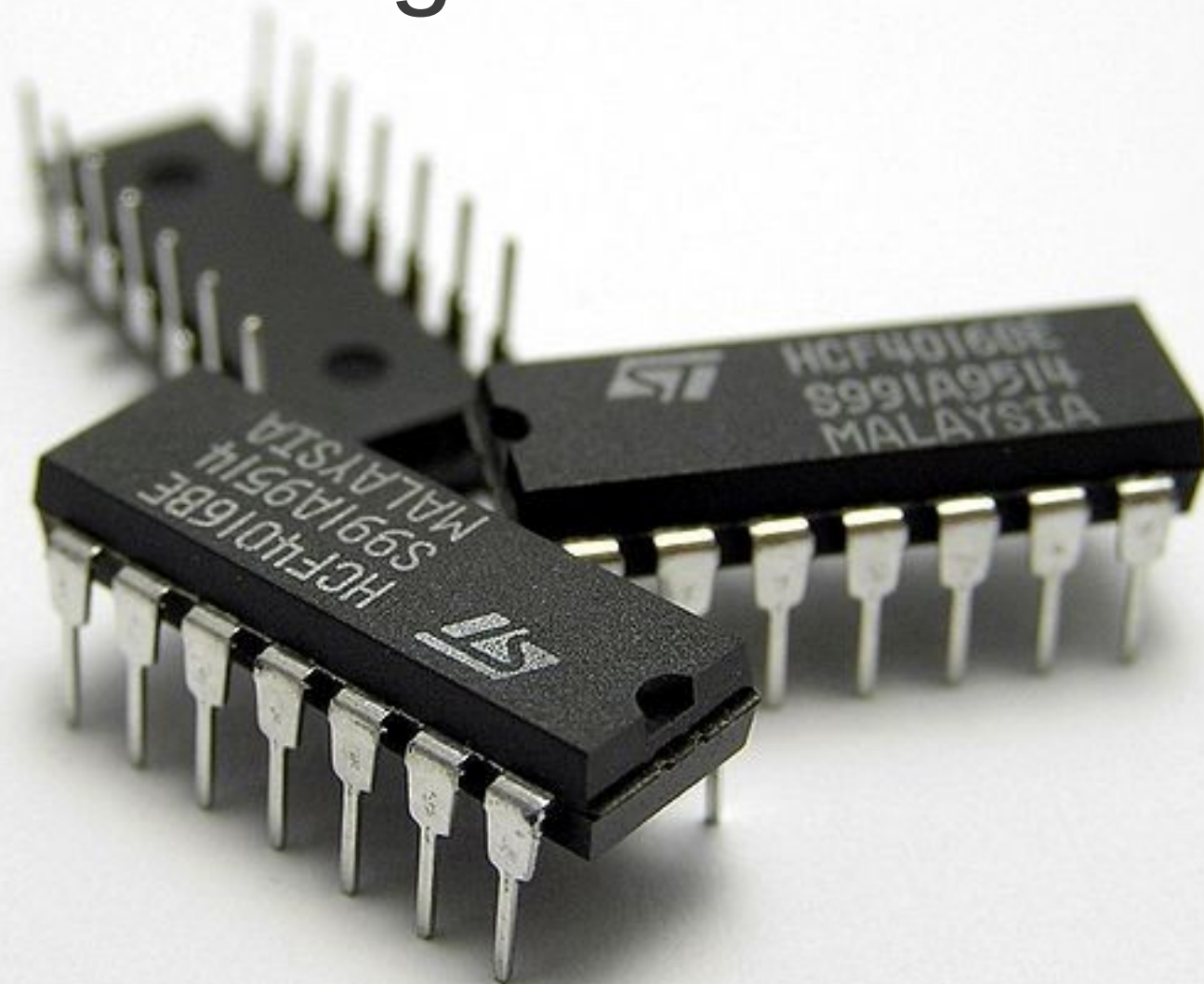Testing in isolation

Who am I

Giorgio Sironi
Bachelor in Computer
Engineering
Advisor @ Allbus
Zone Leader @ DZone

The format

A little bit of theory;

for ($i = 1; $i <= 3; $i++) {

    code in development;

    problem arises;

    refactoring of the code;

}

Requirement: TDD

Isolation

Unit tests > functional, end-to-end ones

- simpler tests
- less paths to test
- faster
- localize defects

Test Doubles in one phrase

- Dummy

  only passed around

- Stub

  returns canned results

- Mock

  expects some particular calls
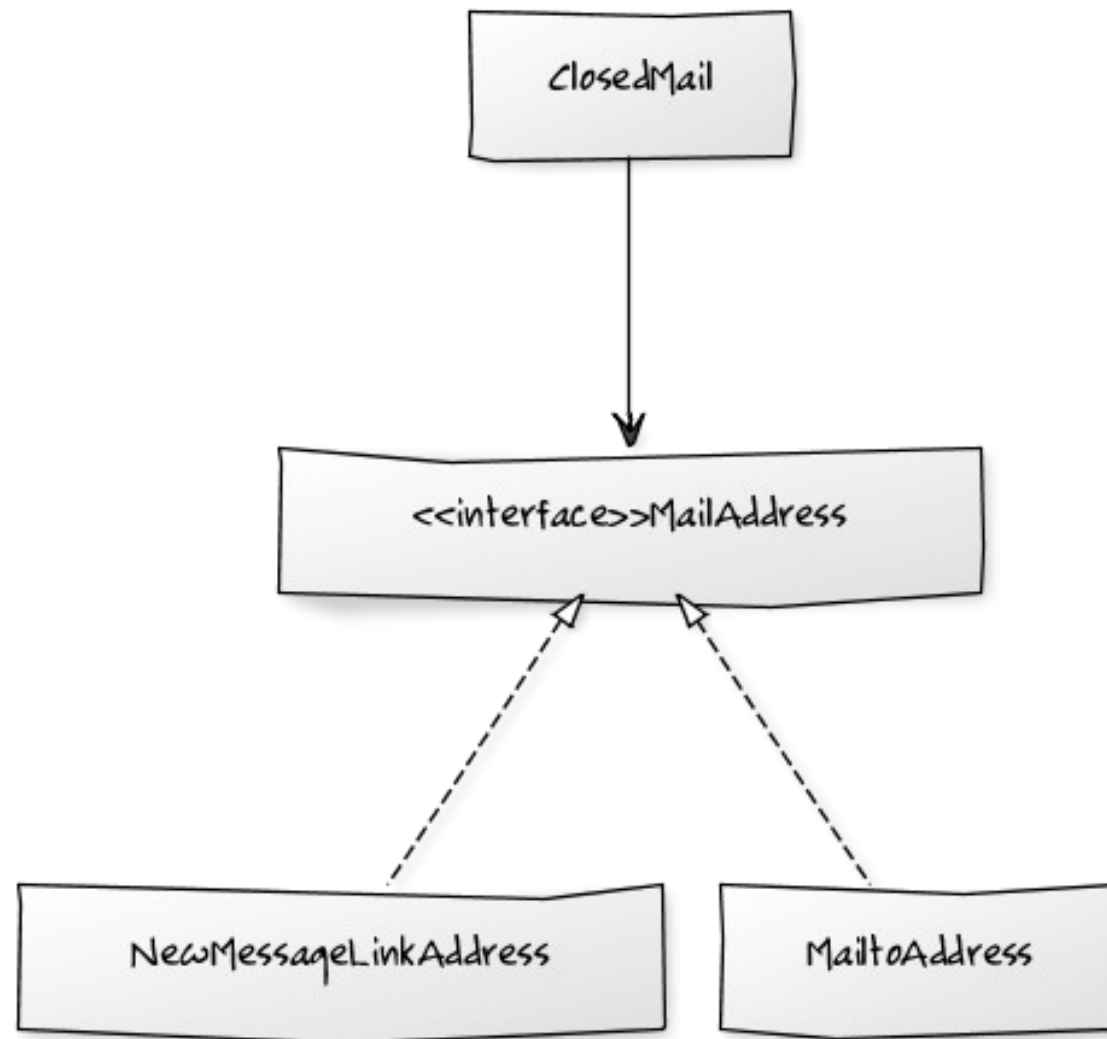
- Fake

  implements the collaborator without hassles

Scott Wolf — TotallyLooksLike.com — Michael J. Fox

Let's begin... I told you there was little theory

Follow at
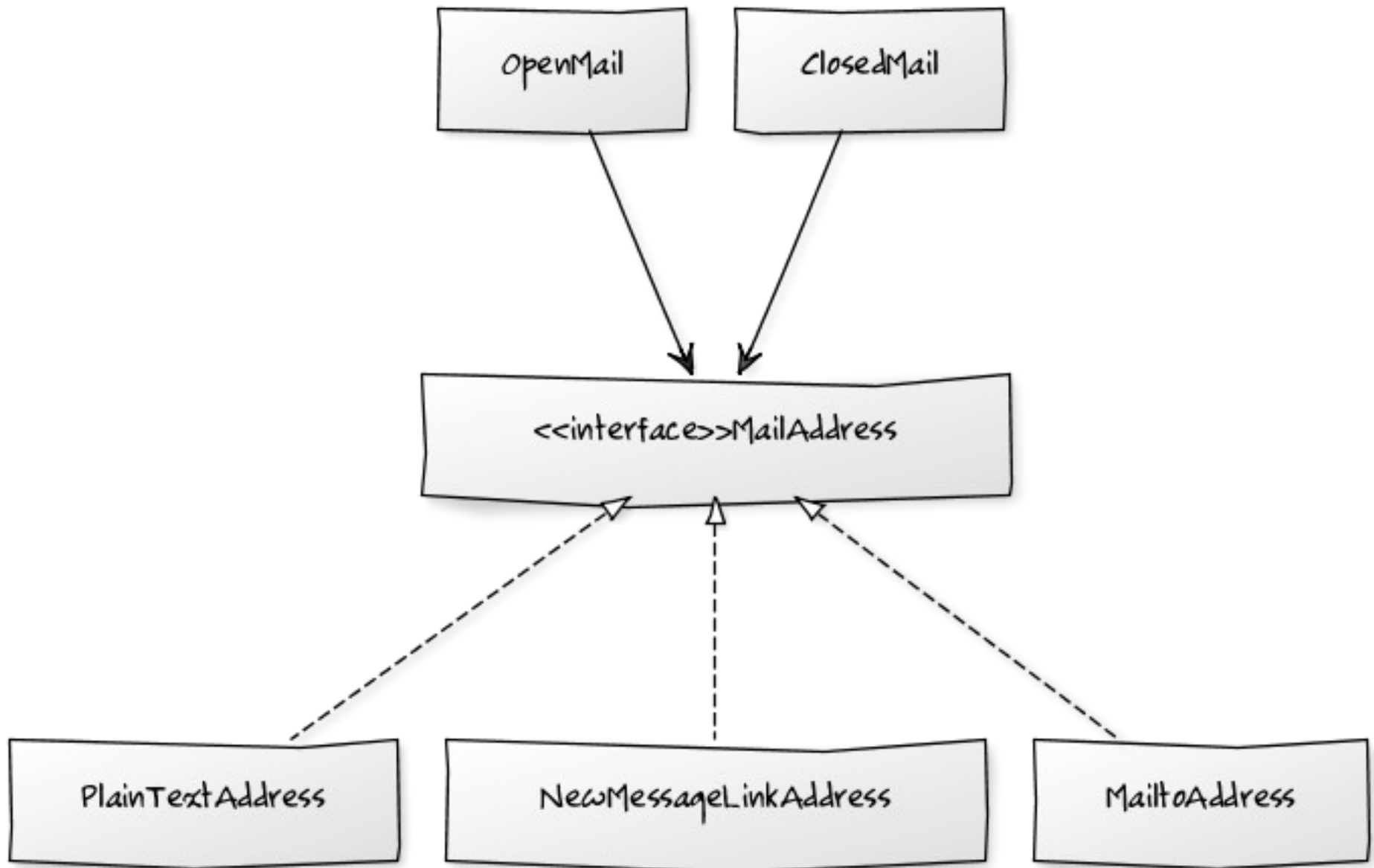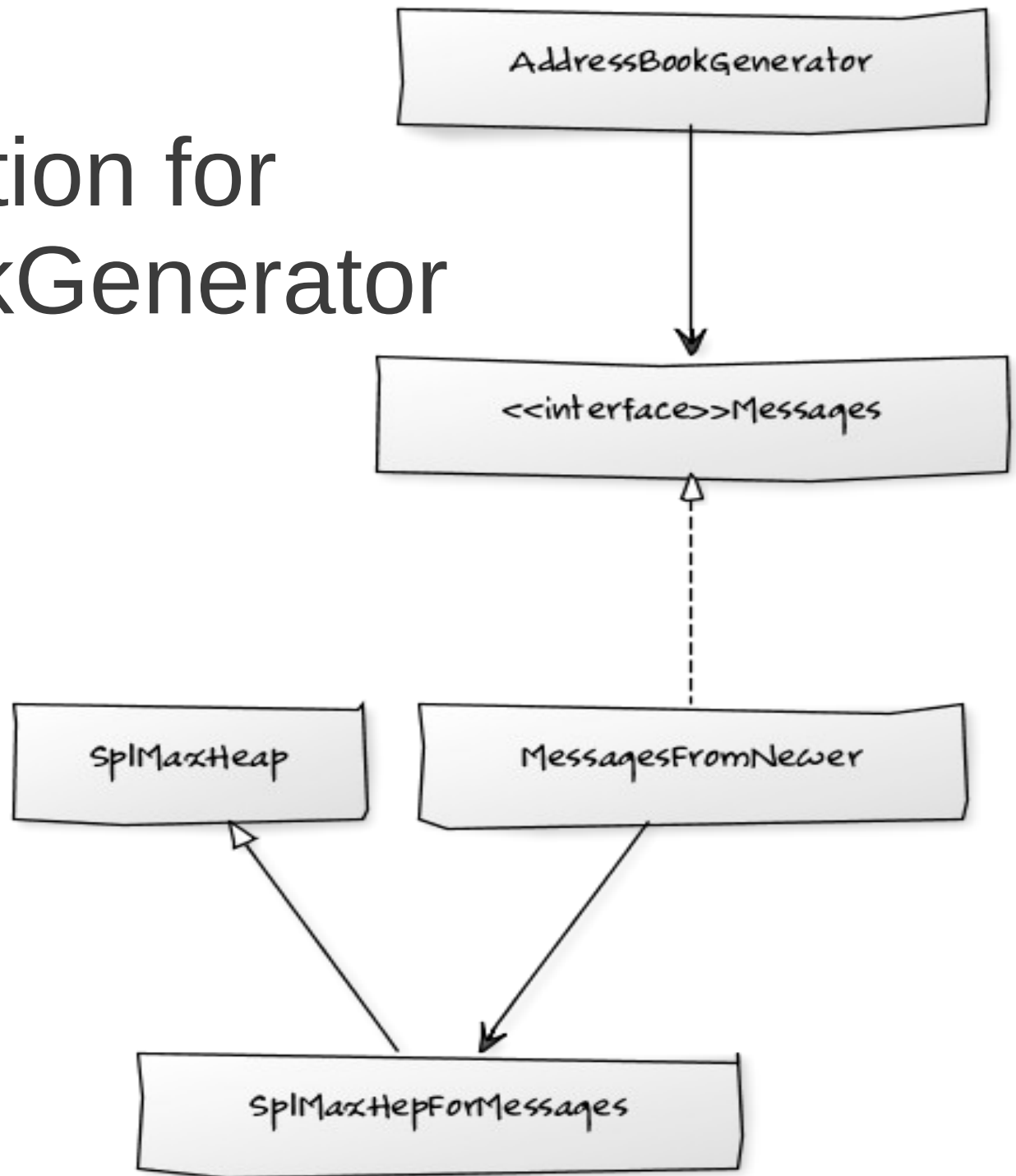https://github.com/giorgiosironi/testing-in-isolation

The solution for ClosedMail

If we extend it...

The solution for AddressBookGenerator

The solution for OrderRepository

References

All the code seen today

http://github.com/giorgiosironi/testing-in-isolation

Integration tests are a scam

http://www.infoq.com/presentations/integration-tests-scam

Growing object-oriented software, guided by tests

http://www.growing-object-oriented-software.com/

Pattern of Enterprise Application Architecture by Fowler

http://martinfowler.com/eaaCatalog/

Hexagonal architecture

http://alistair.cockburn.us/Hexagonal+architecture

Thanks for your attention