

# Red, Green, Refactor

Introduction to TDD and BDD

# Introduction



Tony "I'm a PC" Mocella

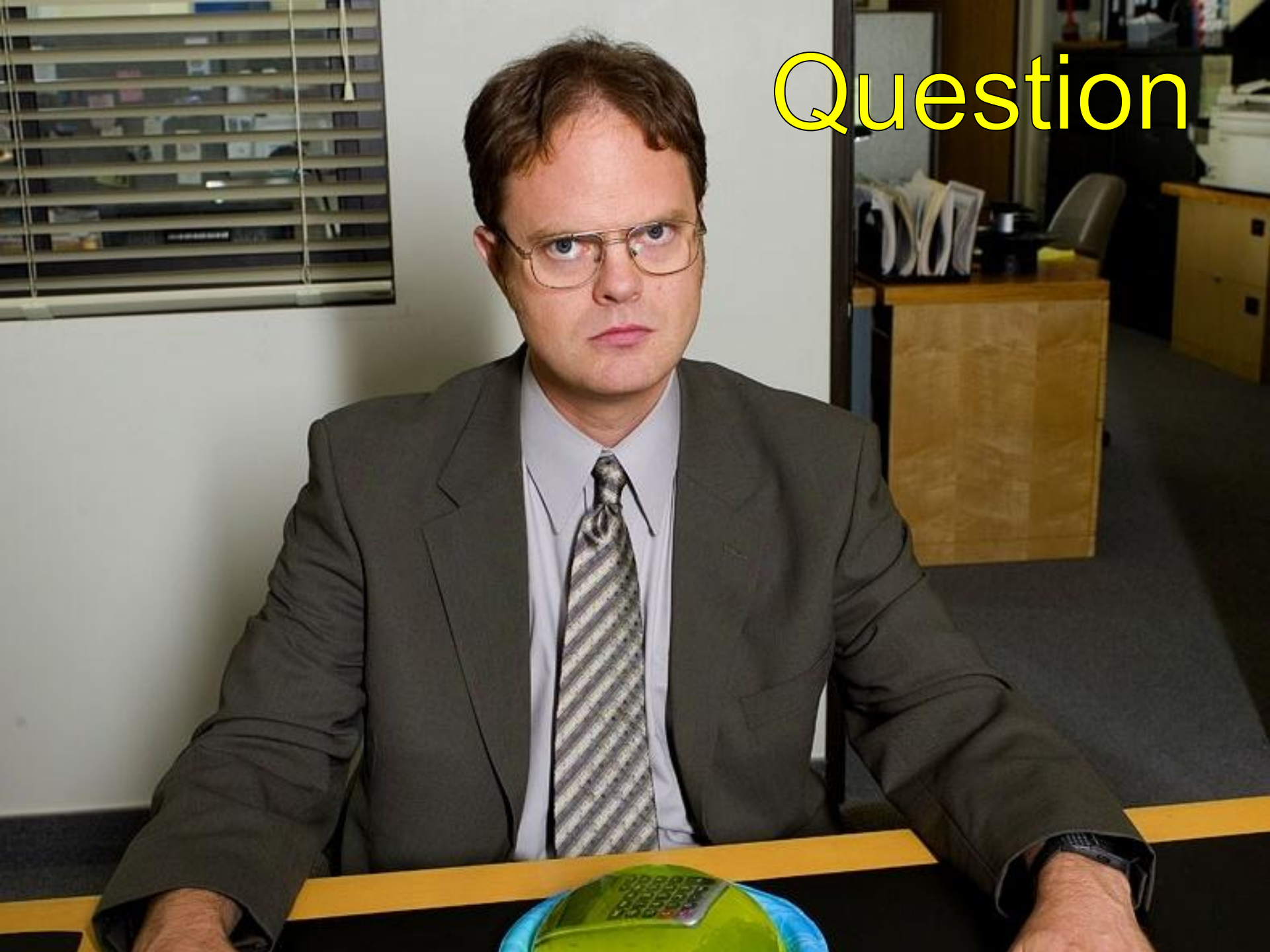
Rod "I'm a Mac" Coffin



# After this session you will..

- ✦ Have a basic understanding of TDD and BDD
- ✦ Have seen TDD and BDD in practice
- ✦ Be able to get started using TDD and BDD on your own projects

Question



# What is a unit-test?



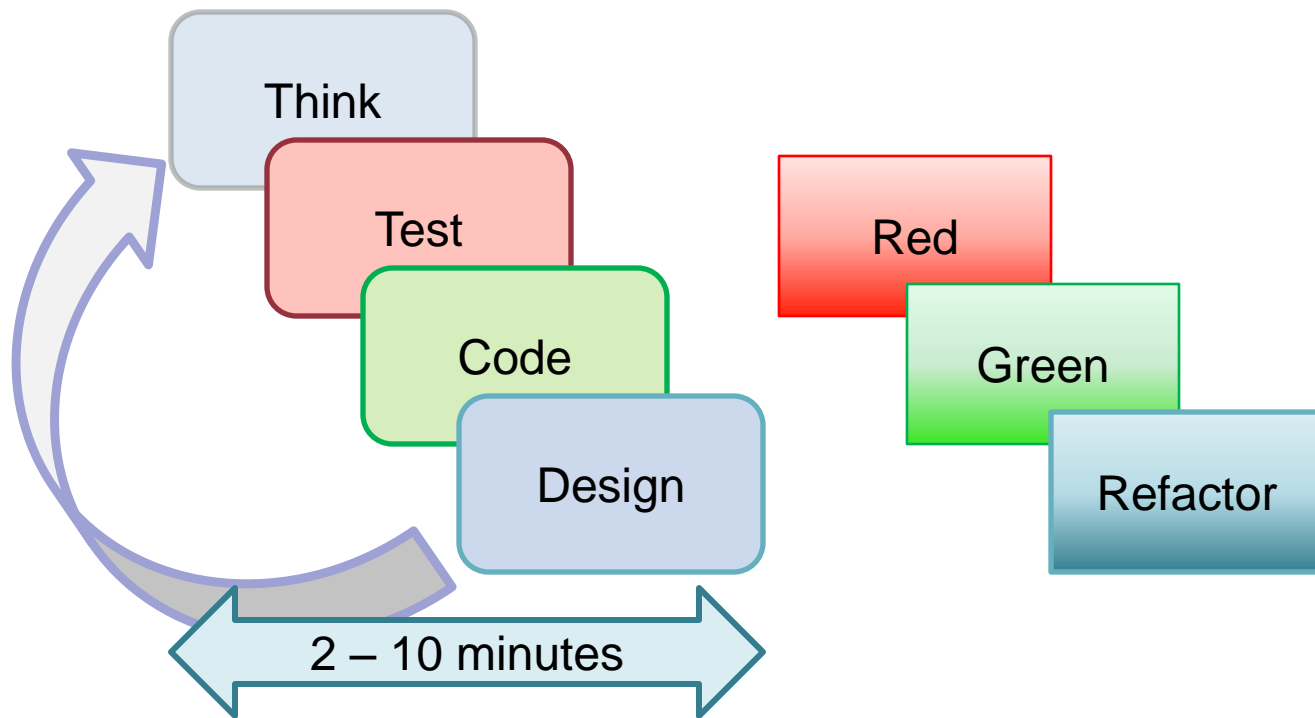
# What is a unit-test?

- ✦ A test for a particular class
- ✦ A test which doesn't involve external dependencies
- ✦ A fast test
- ✦ A test with a single action and assertion
- ✦ Etc.

# TDD



# TDD



# Demo - TDD

## Perform Check-out Pricing – Get total for orders

Acceptance Criteria:

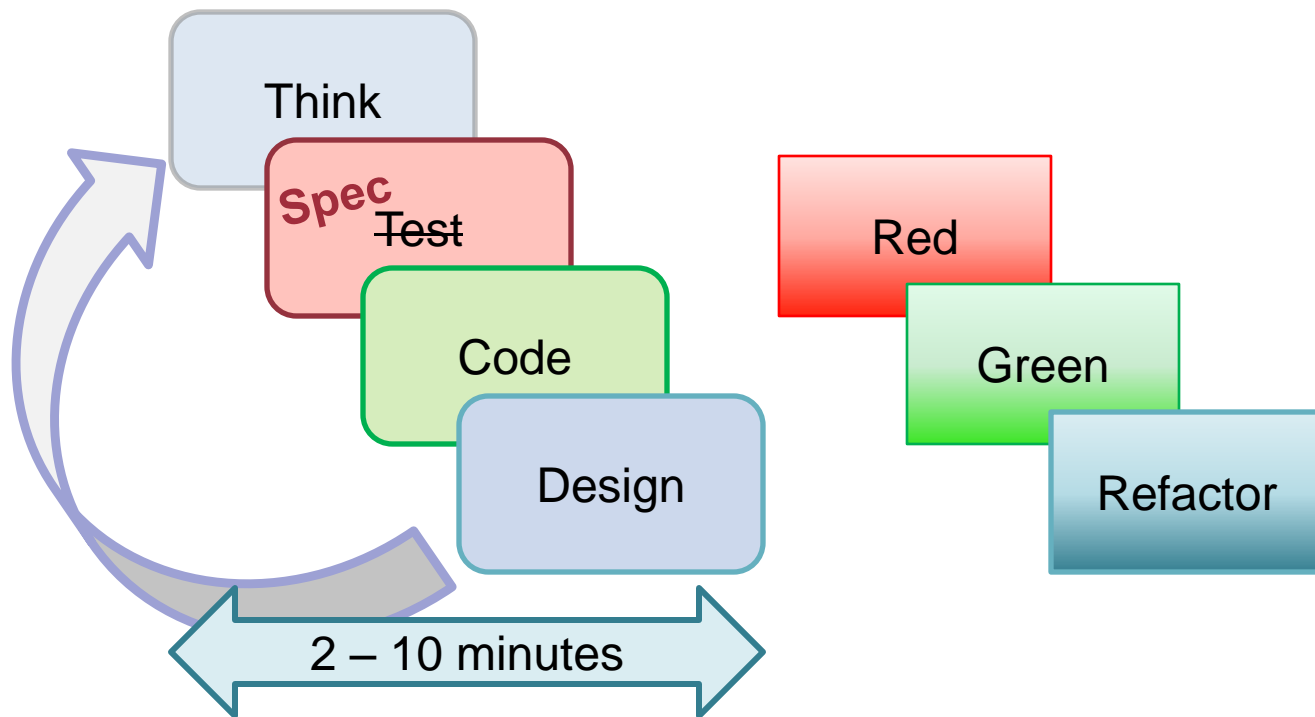
Test that orders with two or less items are non-discountable

Test that orders with three or more items are discounted at 10%

# Demo – nHibernate TDD



# BDD

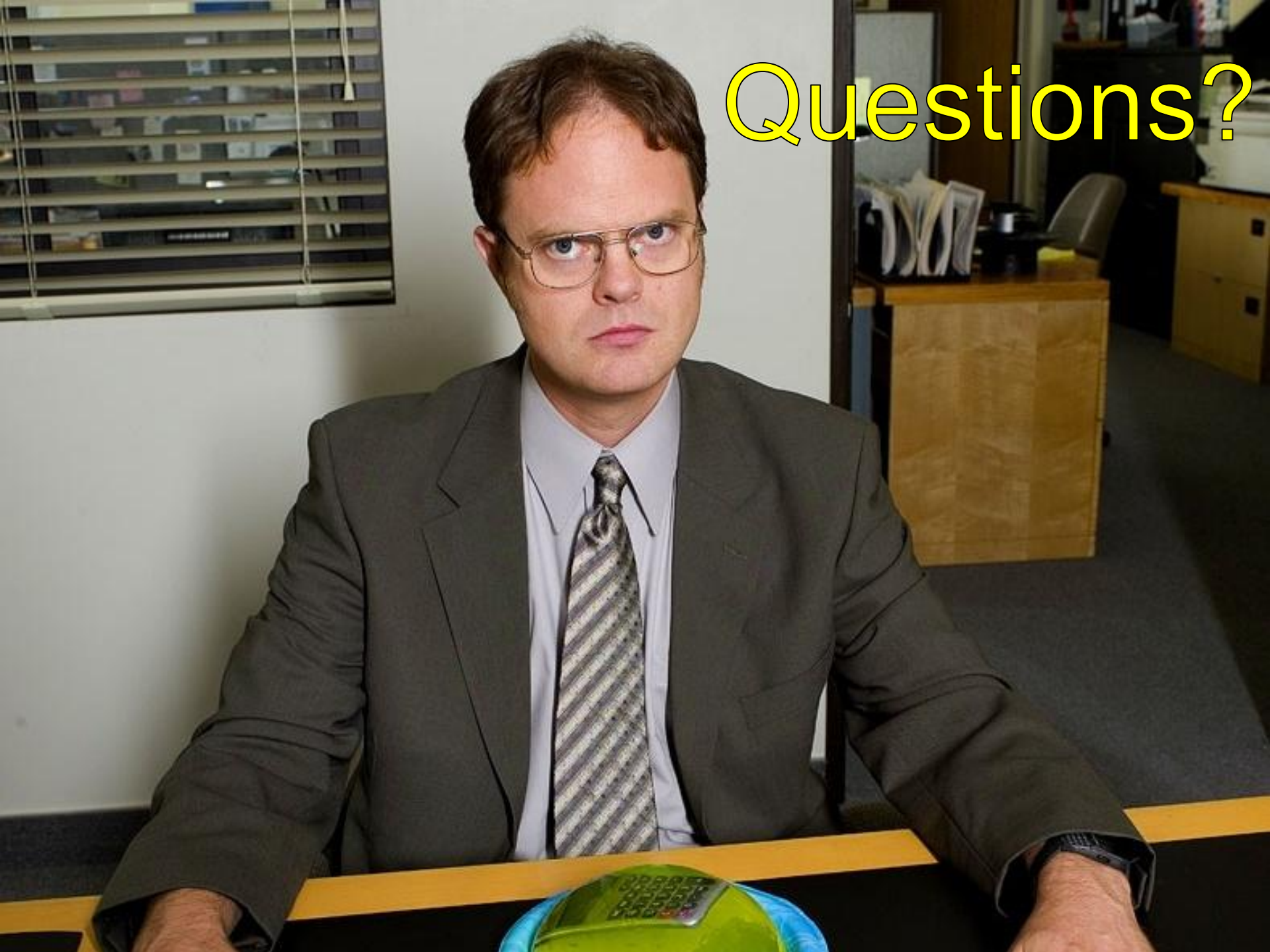


# In Summary...

## ✧ Steps of TDD

- ✧ Write a test
  - ✧ Make it compile
  - ✧ Run it and see that it fails for the right reason
  - ✧ Make it pass
  - ✧ Refactor
  - ✧ Repeat
- ✧ BDD focuses on behavior in place of implementation

Questions?



# Resources

## ✧ Books

- ✧ [Brownfield Application Development](#) by Kyle Baley (coming soon)
- ✧ [Working with Legacy Code](#) by Michael Feathers

## ✧ Tdd

- ✧ [Test Driven Development](#) by Kent Beck
- ✧ MSTest, [NUnit](#), etc

## ✧ BDD

- ✧ [Dan North](#)
- ✧ [nBehave](#)
- ✧ [eazyb](#)

## ✧ Tools

- ✧ Visual Studio Pro + include MSTest
- ✧ [ReSharper](#)
- ✧ [Gallio](#)

# Contact Us

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