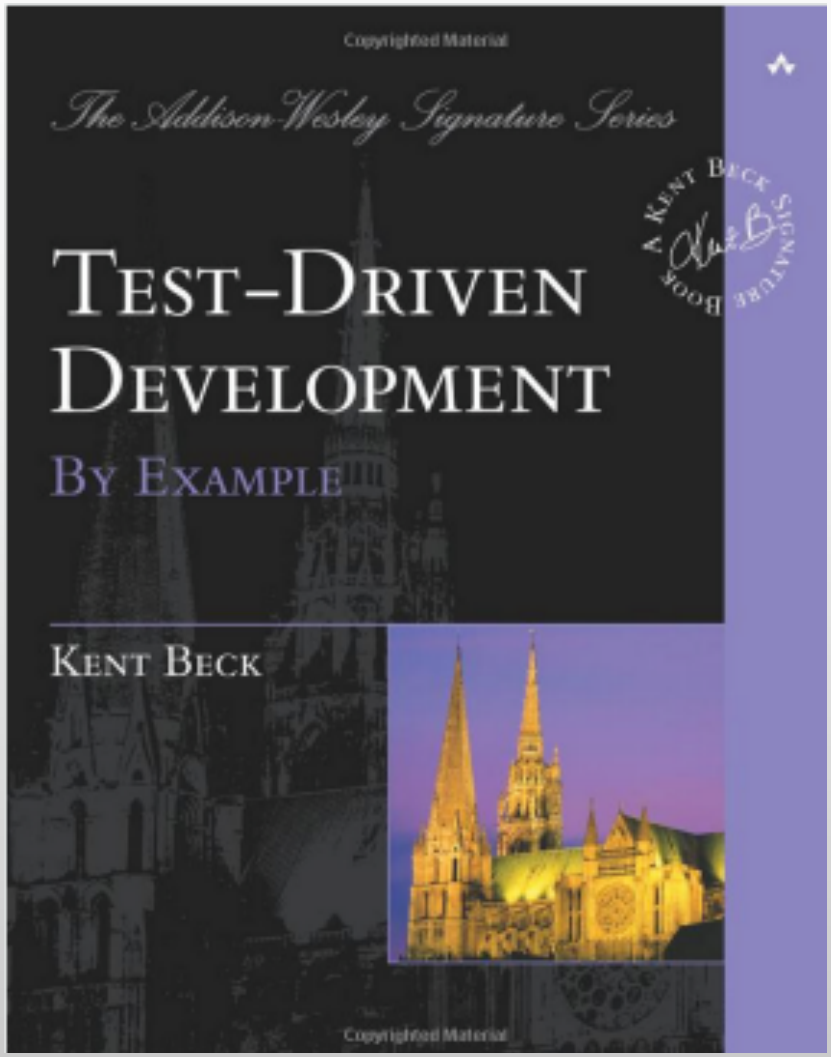
Iowa Code Camp – Fall 2014
TDD Workshop

Cecil G. Williams
Cory Gideon

http://www.printfection.com/codesmack/All-Code-Is-Guilty/_s_58243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Test-Driven Development
By Example
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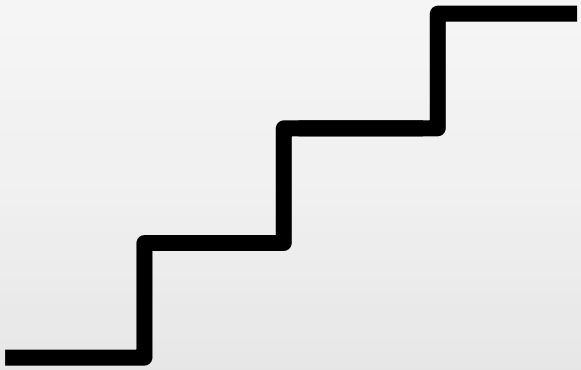
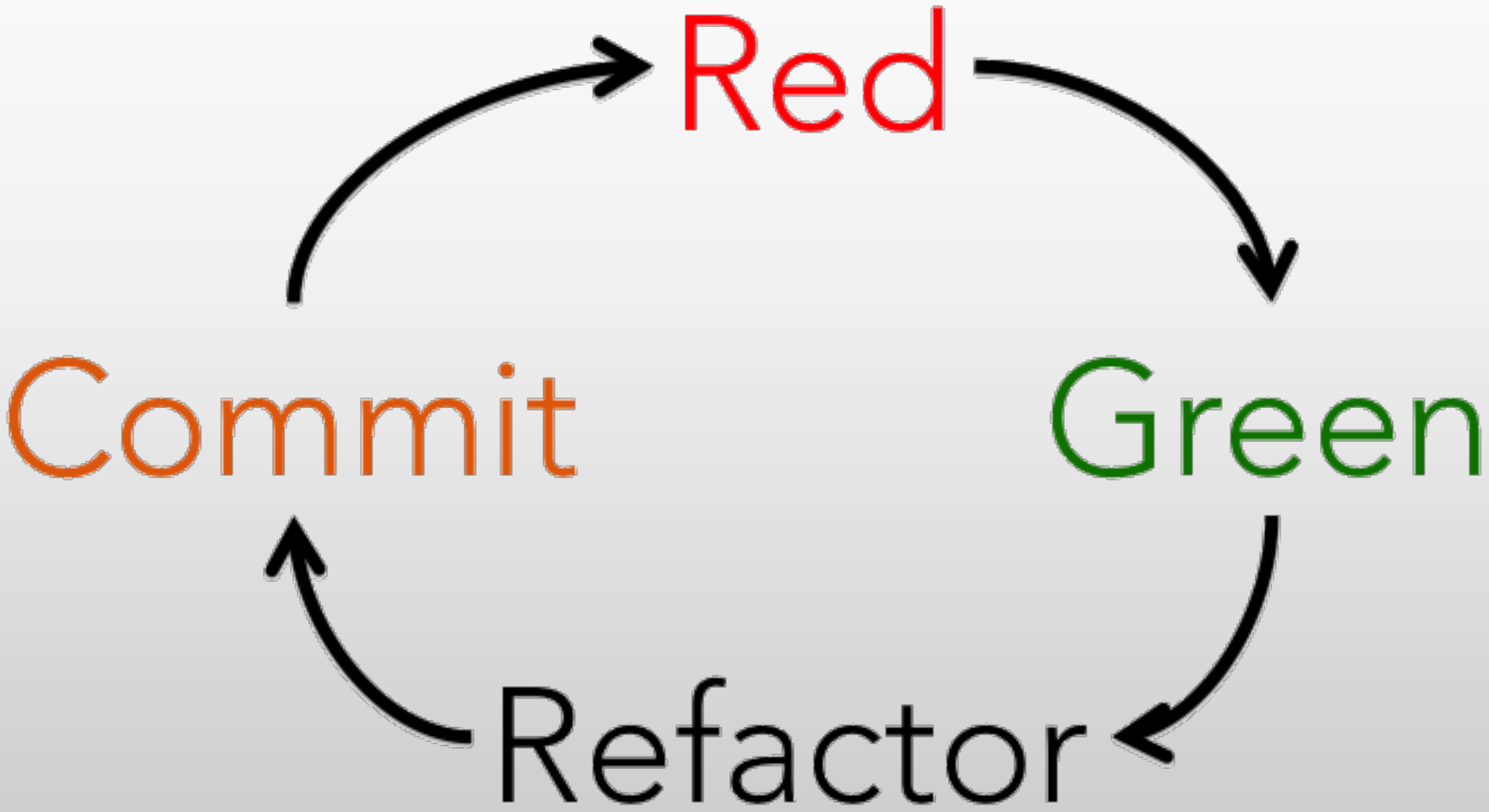
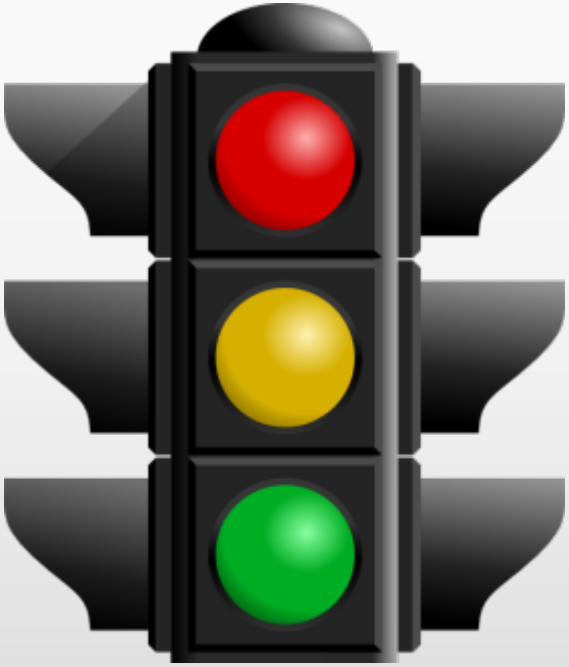


4 steps



http://blogs.sourceallies.com/2014/06/updated-tdd-mantra/

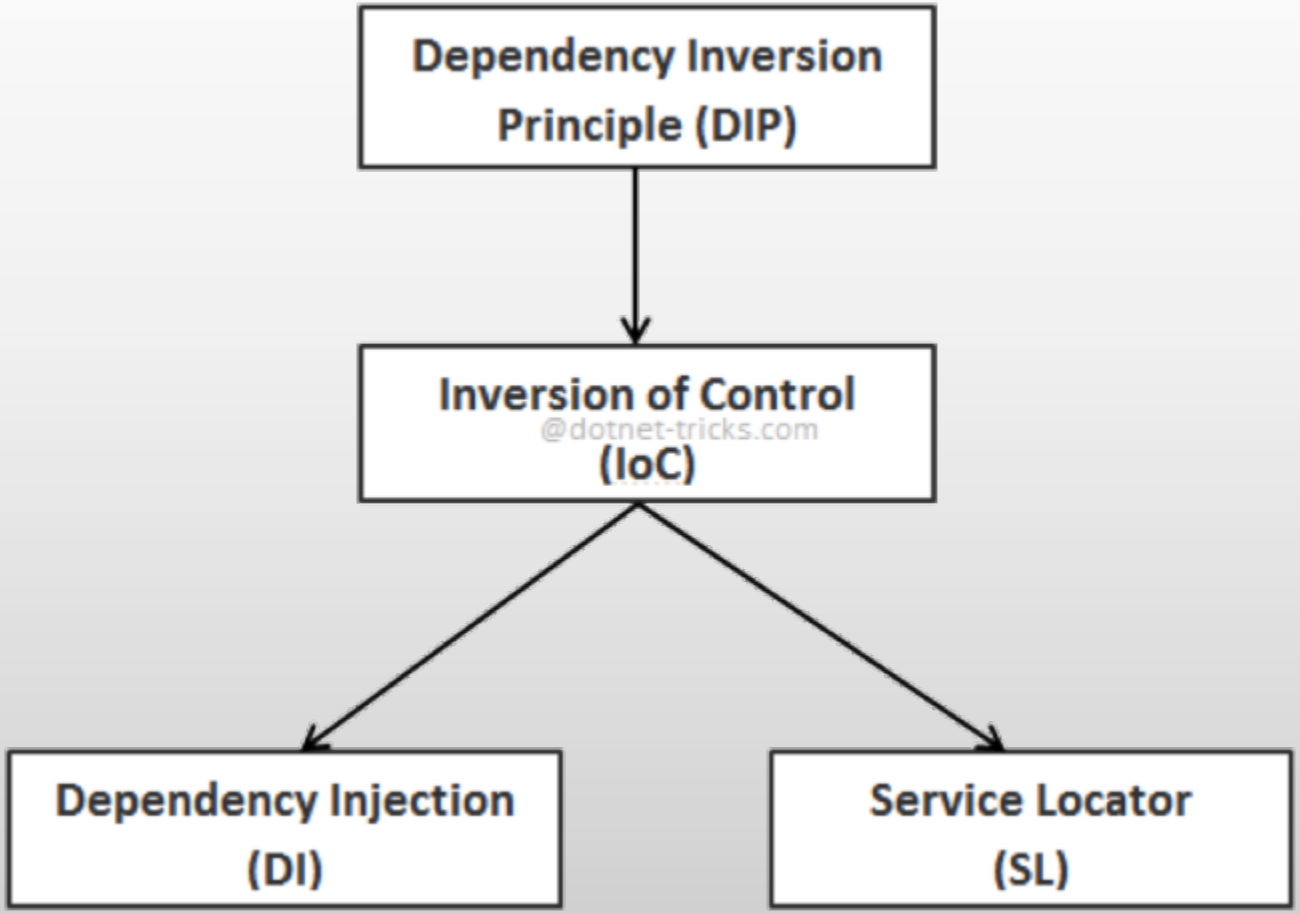


3 rules

Uncle Bob's Three Rules of TDD

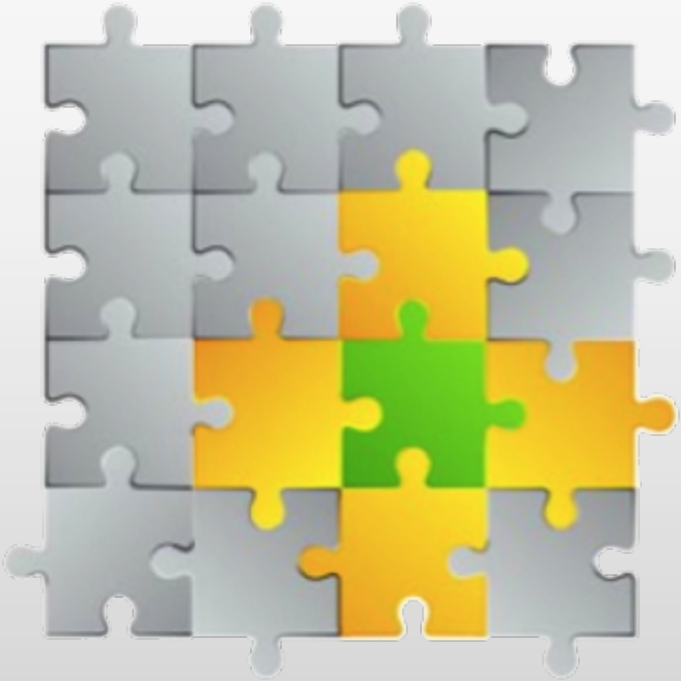
- Write **no** production code, except to pass a failing test.
- Write only **enough** of a test to demonstrate a failure.
- Write only **enough** production code to pass a test.

3 things



http://www.dotnet-tricks.com/

REAL SYSTEM



Green = class in focus
Yellow = dependencies
Grey = other unrelated classes

CLASS IN UNIT TEST

Green = class in focus
Yellow = mocks for the unit test

http://zeroturnaround.com/

JUnit

IntelliJIDEA

Mob Programming

A Whole Team Approach

Illustration © 2012 - Andrea Zuill

mobprogramming.org Twitter: @WoodyZuill

String Calculator

Roy Osherove
http://osherove.com/tdd-kata-1/

New Development

1. Create a simple String calculator with an Add method.

2. The method can take 0, 1 or 2 numbers, and will return their sum. For example: “” or “1” or “1,2”.

3. For an empty string it will return Zero.

4. Allow the Add method to handle an unknown amount of numbers.

String Calculator

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Legacy Testing

Encapsulate Calculator

1. Create a simple numeric calculator with an Add method.
2. Inject the numeric calculator into the String Calculator.
3. Utilize CDI to inject the numeric calculator into the String Calculator.

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