# TDD in Three

## Test Driven Development Workshop

# 3 hours

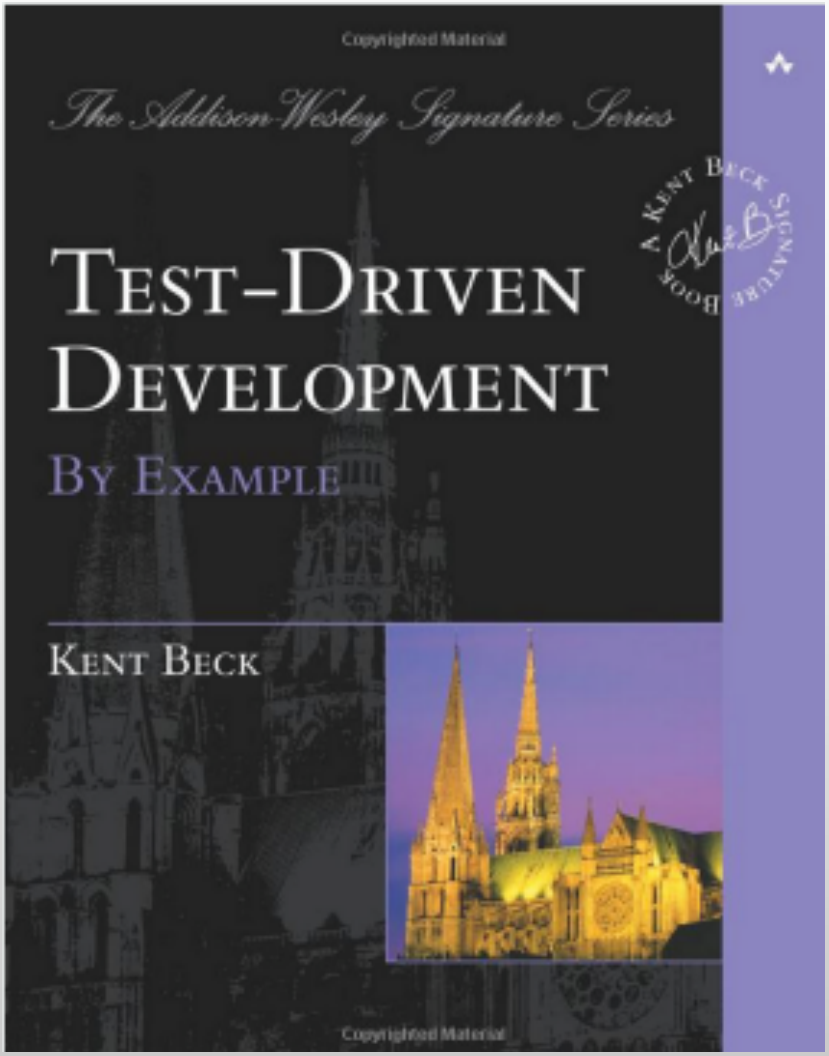
HELLO
my name is
?

http://www.printfection.com/codesmack/All-Code-Is-Guilty/_s_58243

# 1,000

or

# 10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By Example
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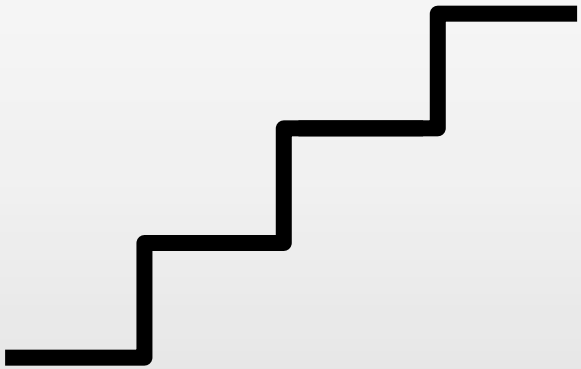
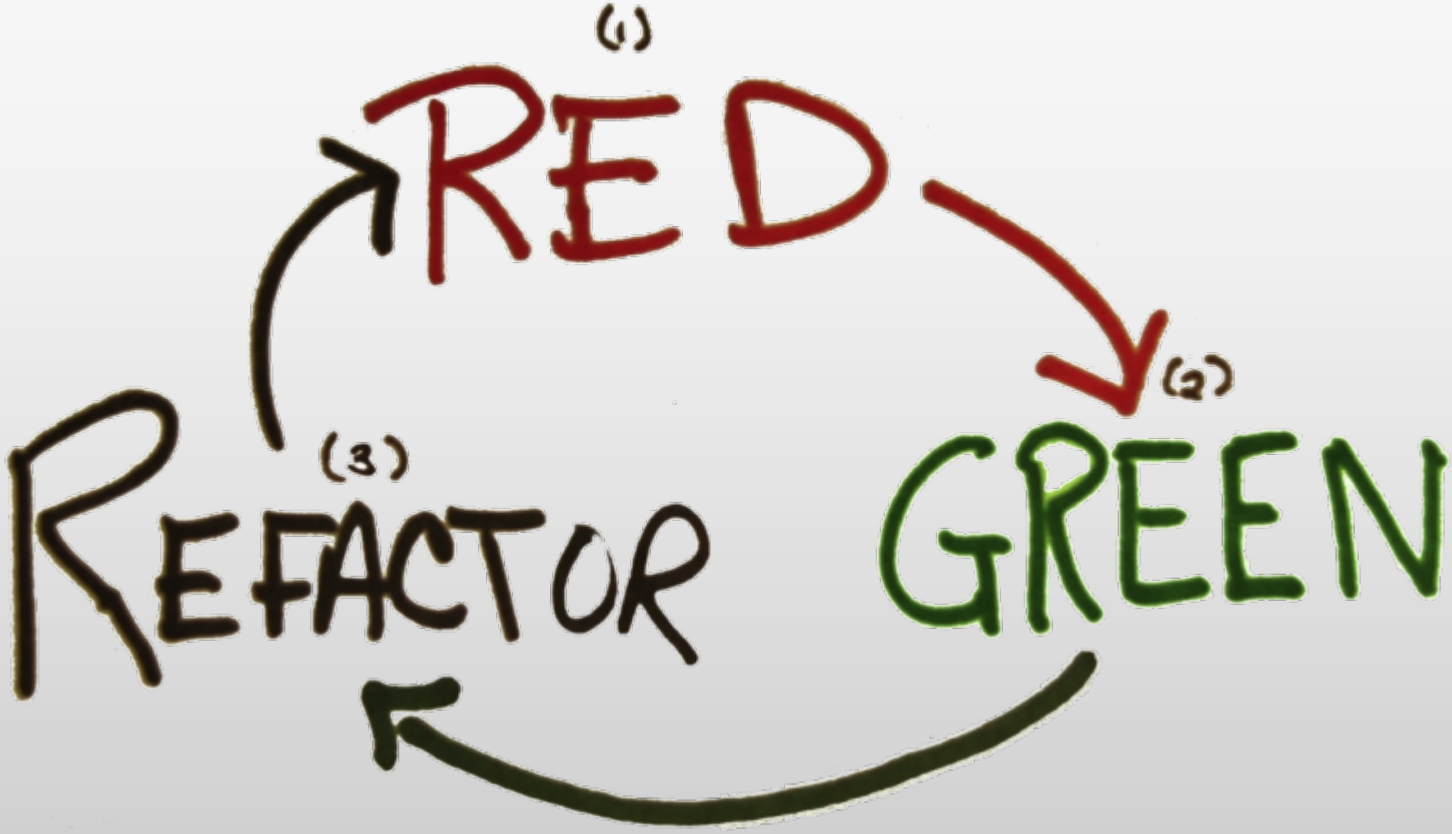
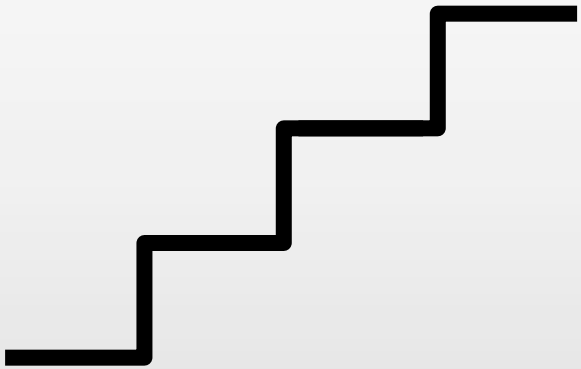


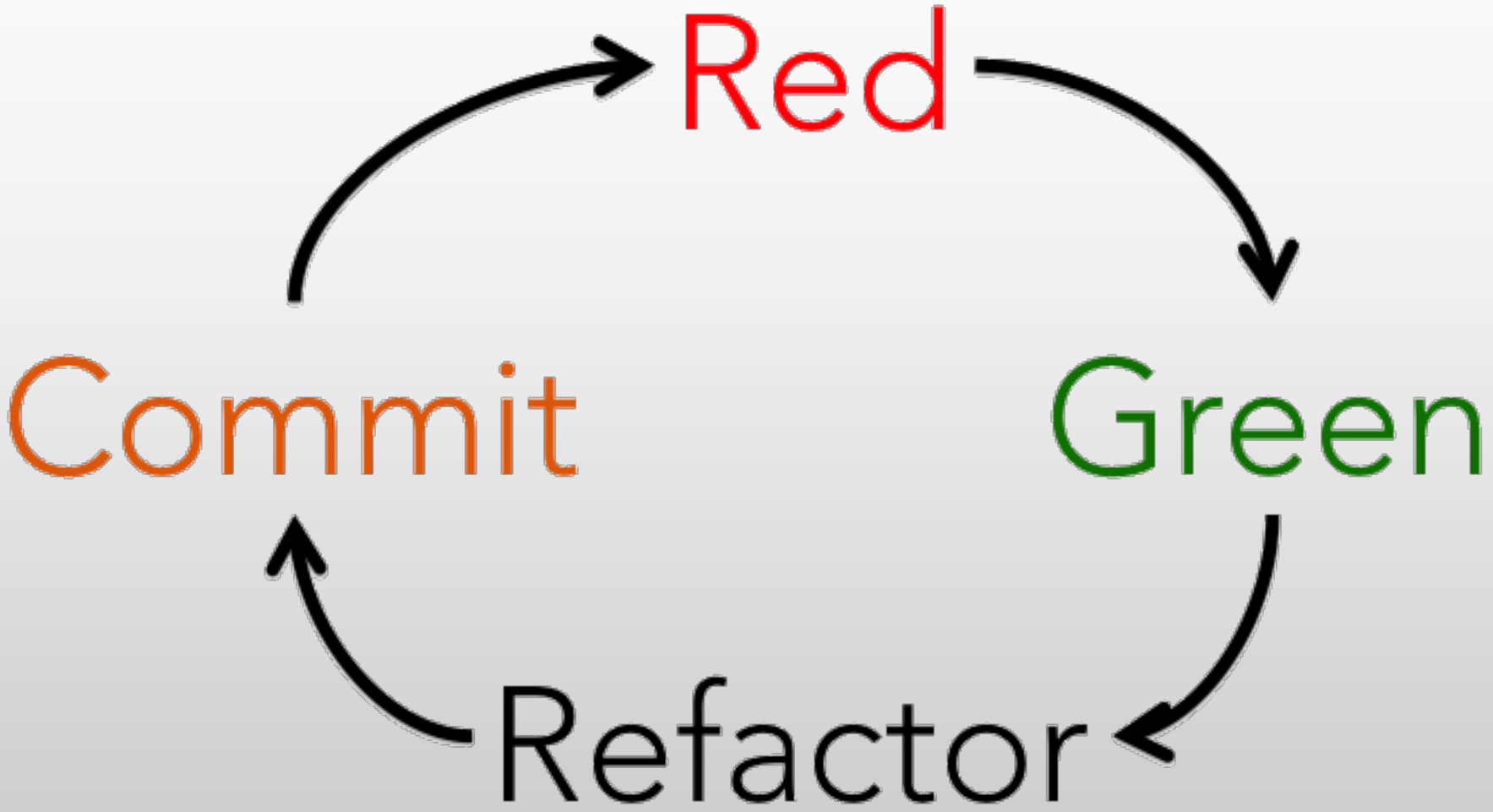
# 3 steps

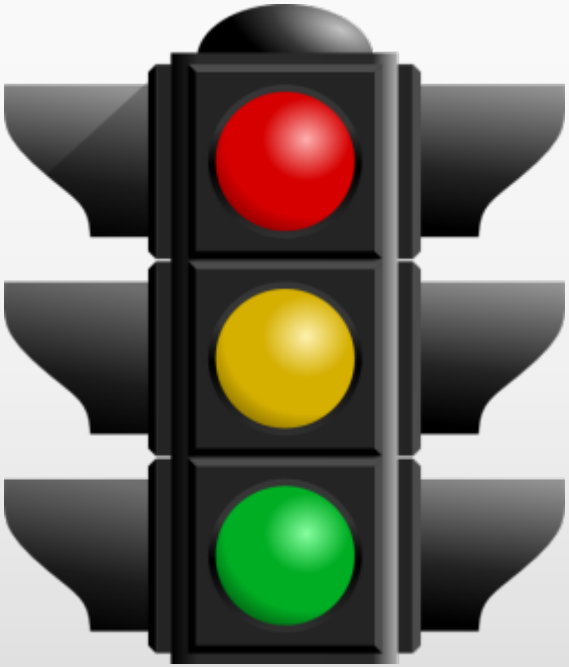



http://agileinaflash.blogspot.com/2009/02/red-green-refactor.html



# 4 steps


Red
Green
Refactor
Commit

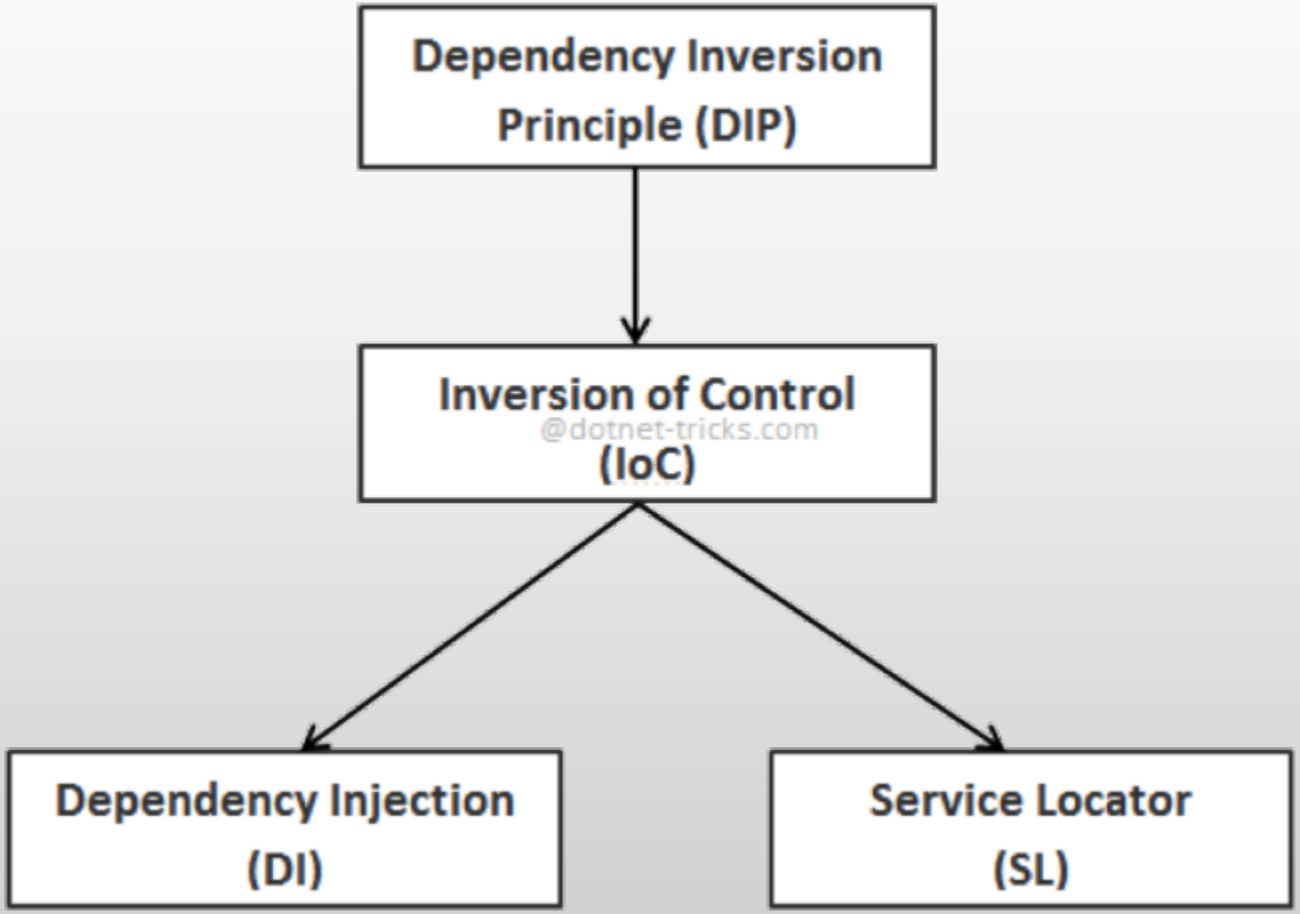


# 3 rules

## Uncle Bob's Three Rules of TDD

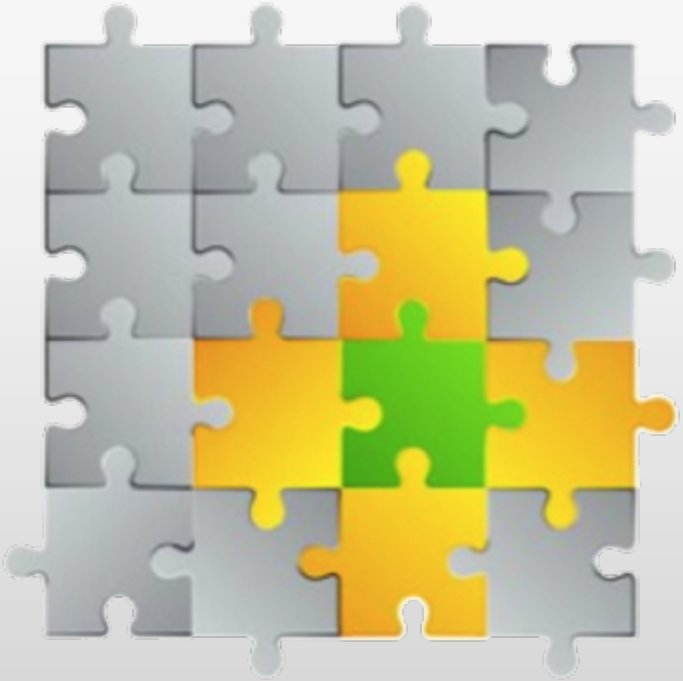
- Write **no** production code, except to pass a failing test.
- Write only **enough** of a test to demonstrate a failure.
- Write only **enough** production code to pass a test.

# 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

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 Code Exercise**

**Setup**

- **Java SDK 6 or above**
- **Intellij IDEA Community Edition**
- **jUnit 4**

**Test Drive Creating a Calculator**

- **Create a Calculator class with an Add method.**
- **The method can take 0, 1 or 2 numbers, and will return their sum.**
- **For example: “” or “1” or “1,2”.* For an empty string it will return Zero.**
- **Allow the Add method to handle an unknown amount of numbers.**

# String Calculator

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

**Legacy Code Exercise**

**Setup**

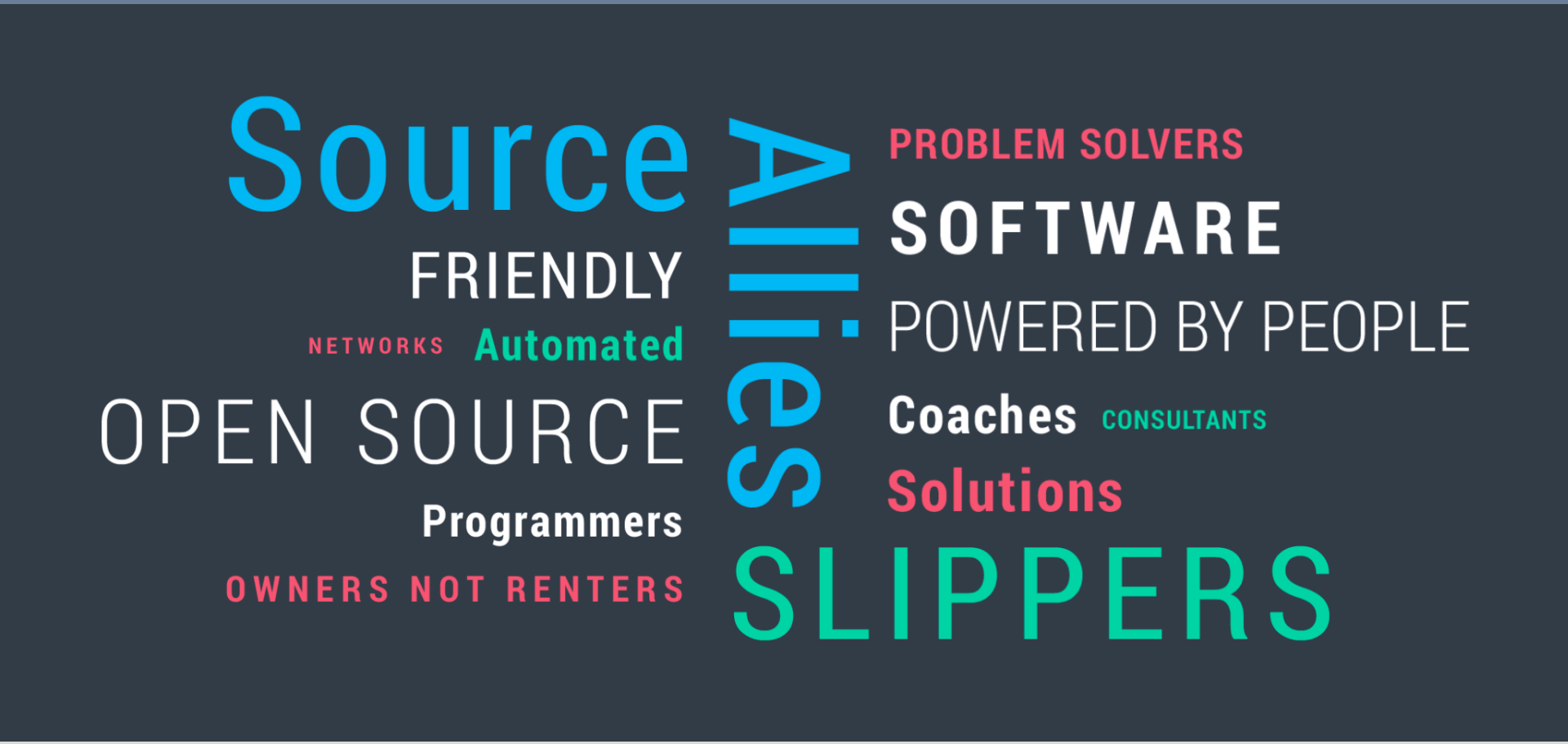
- **Intellij IDEA Ultimate Edition**
- **CDI: Context and Dependency Injection plugin for Intellij IDEA Ultimate Edition**

**Test Drive Encapsulating a String Calculator**

- **Create a String Calculator class with an Add method that takes in Strings.**
- **Utilize CDI to inject the String Calculator into the Calculator.**
- **Have the Calculator class delegate to the String Calculator class.**

**Optional**

- **Create a Numeric Calculator class with an Add method.**
- **Utilize CDI to inject the Numeric Calculator into the Calculator.**
- **If the Add method is called with string parameters, delegate to the String Calculator; if the Add method is called with numeric parameters, delegate to the Numeric Calculator.**

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