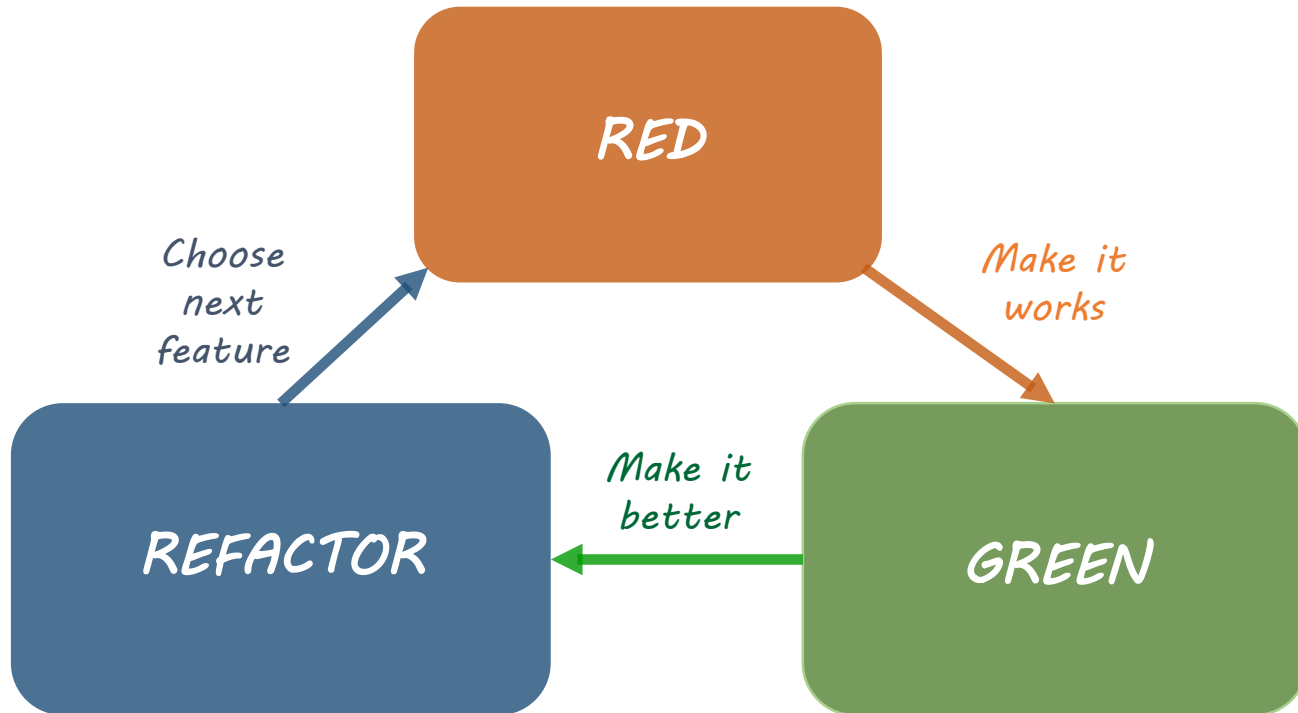


**Increase your capacity to deliver
more value for your client**

Test Driven Development

Test Driven Development?



Are You Sure?



The Secret ... No Rush To Code

PREPARE HIS BRAIN IS ESSENTIAL

DIGGING DEEPER
YOUR SUBJECT

SPEAKING
WITH OTHERS

USE THE
"SHOULD"



The Secret ... No Rush To Code

"SHOULD" AS A MESSAGE TO OURSELF

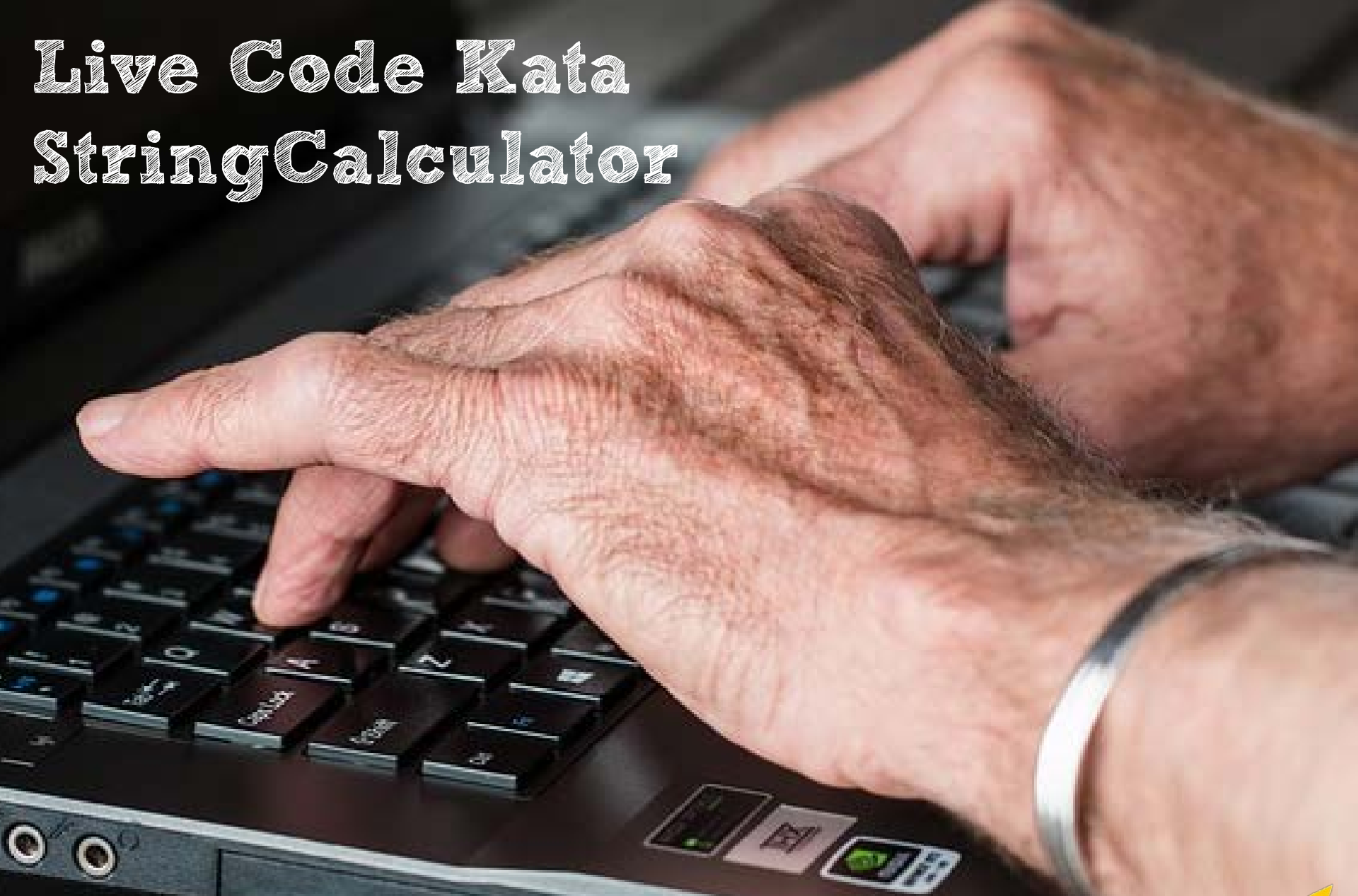
```
[Test]
public void Should_apply_a_discount_for_2_batches_of_cerises()
{
    store.RegisterDiscountRebateForMoreProducts("Cerises", 2, 20);
    basket.Add("Cerises", 4);
    basket.Add("Pommes", 2);
    basket.Add("Bananes", 1);

    Check.That(basket.Price()).IsEqualTo(610);
}
```

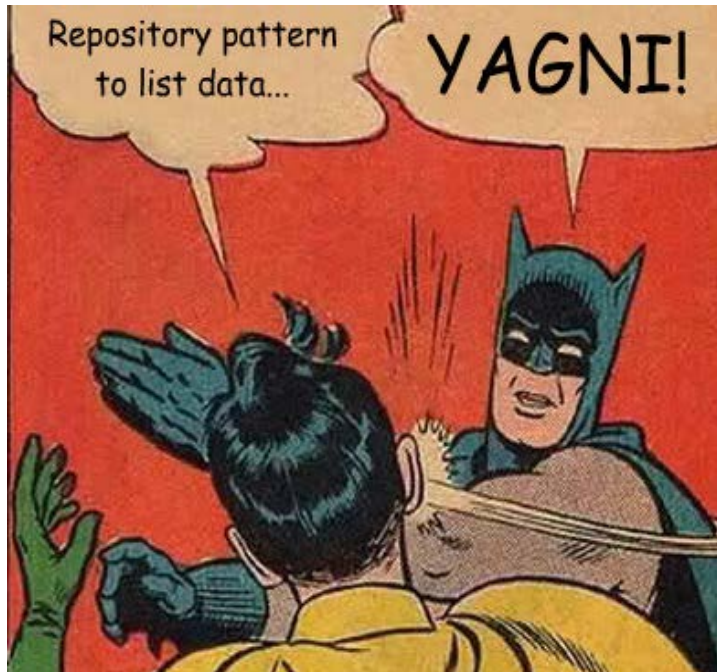
*TO IDENTIFY THE BEHAVIOR
JUST BEFORE CODING*

Live Code Kata

StringCalculator



TDD is Efficient



THE KISS PRINCIPLE | **KEEP
IT
SIMPLE,
STUPID**

MINIMALISM

TDD is Efficient



SHORT FEEDBACK LOOP

Let's start to implement the code

```
public string add(string words, int col)
{
}
```

First strike

```
public string add(string words, int col)
{
    -----
    -----
    --
}
```

Second strikes

```
public string add(string words, int col)
{
    -----
    ----
    --

    -----
    ----
    --
}
```

Third strikes

```
public string add(string words, int col)
{
    -----
    -----
    --

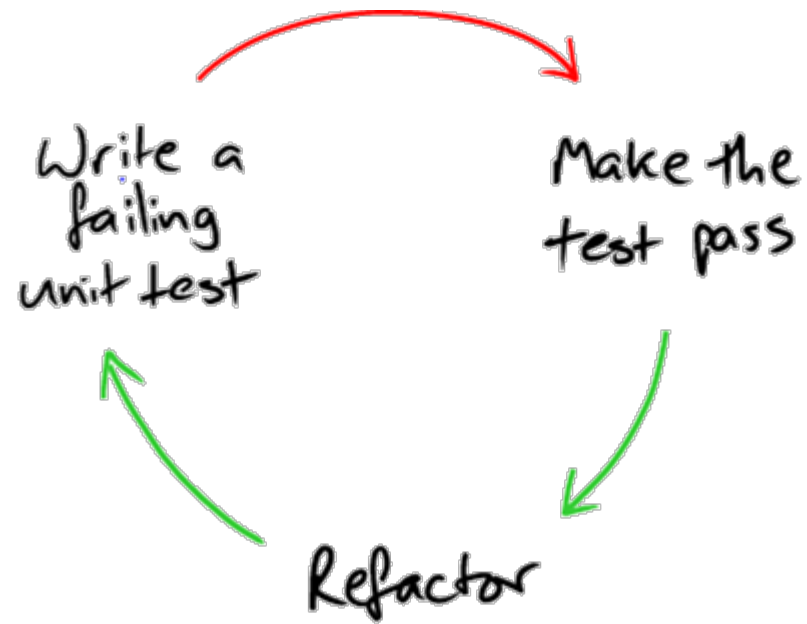
    -----
    -----
    --

    -----
    -----
    --
}
```

Three strikes and you refactor

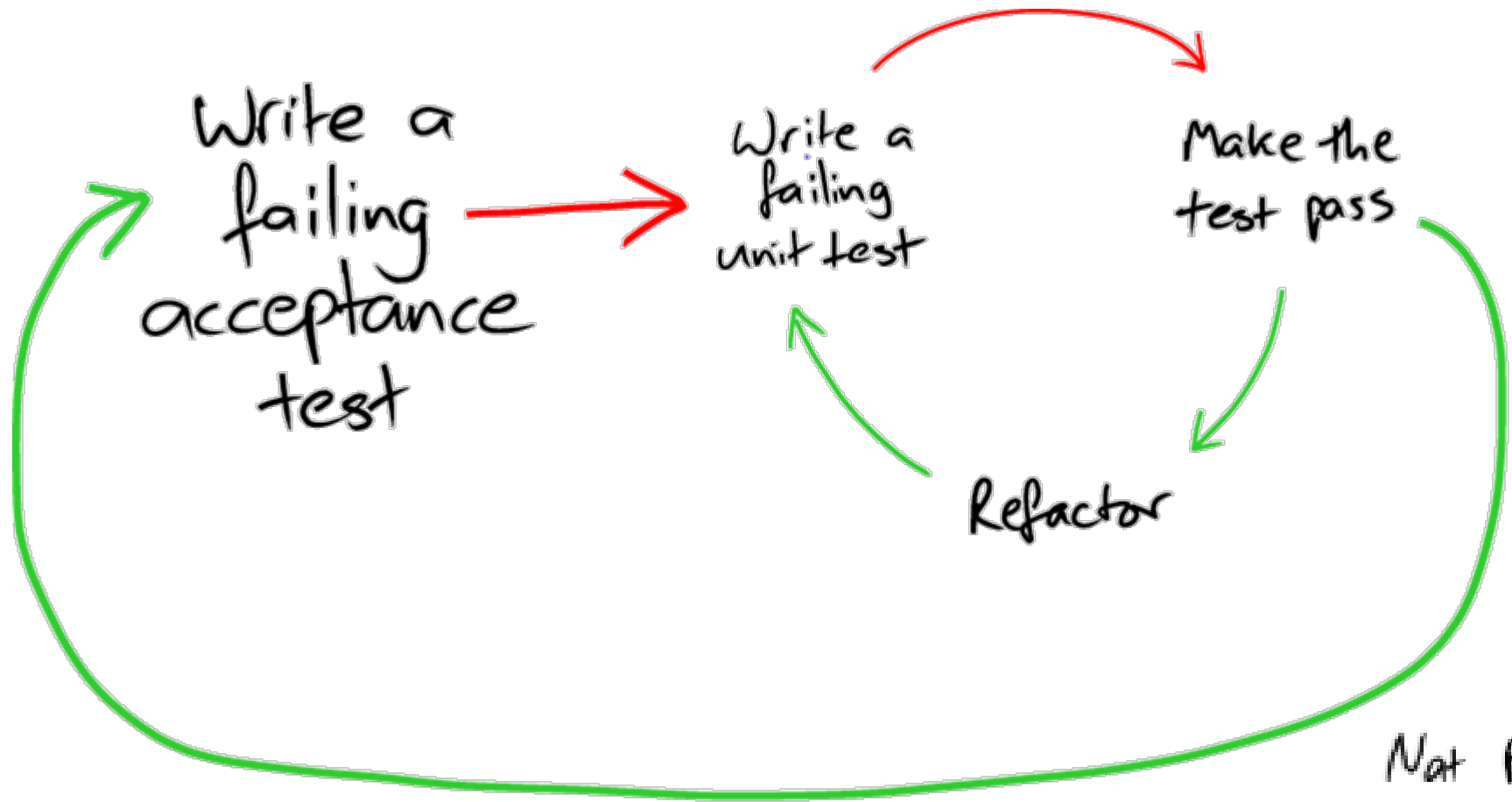
```
public string add(string words, int col)
{
    while(n++ < col)
    {
        -----
        -----
        --
    }
}
```

Classic TDD



Nat Pryce

Double Loop/Outside In TDD



TDD is **Not** Design

ANTI-CORRUPTION LAYER

SOLID

MONOIDS

CLOSURE OF OPERATIONS ...

YOU STILL NEED DESIGN SKILLS!

THE 4 RULES OF SIMPLE DESIGN

PATTERNS

HEXAGONAL ARCHITECTURE

Code Kata

FizzBuzz

Rules: Any number divisible by three is replaced by the word fizz and any divisible by five by the word buzz. Numbers divisible by both become fizzbuzz. A player who makes a mistake has to take a drink. Einstein will choose a random number to start with – for example: 4, buzz, fizz, 7, 8, fizz, buzz, 11, fizz, 13, 14, fizzbuzz...

How Master TDD



THE
10KHRS.
RULE



Workouts Impact Our Brain!



**LIKE AN HOTSPOT
OPTIMIZATION!**

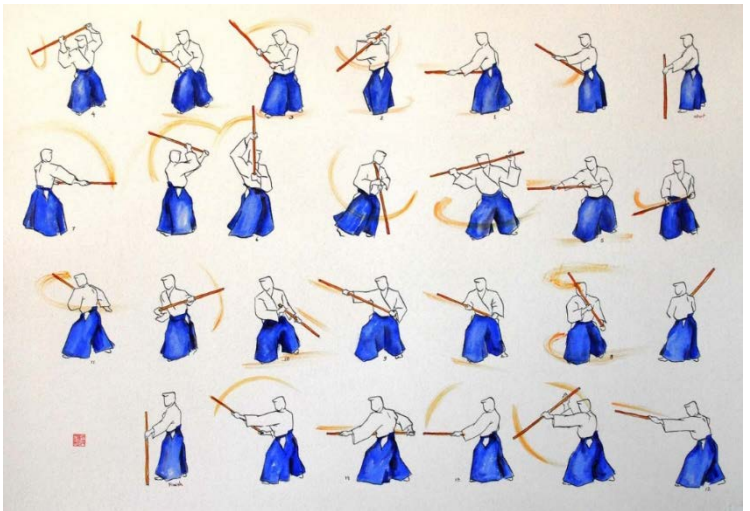
As a tool ...

CODE KATA

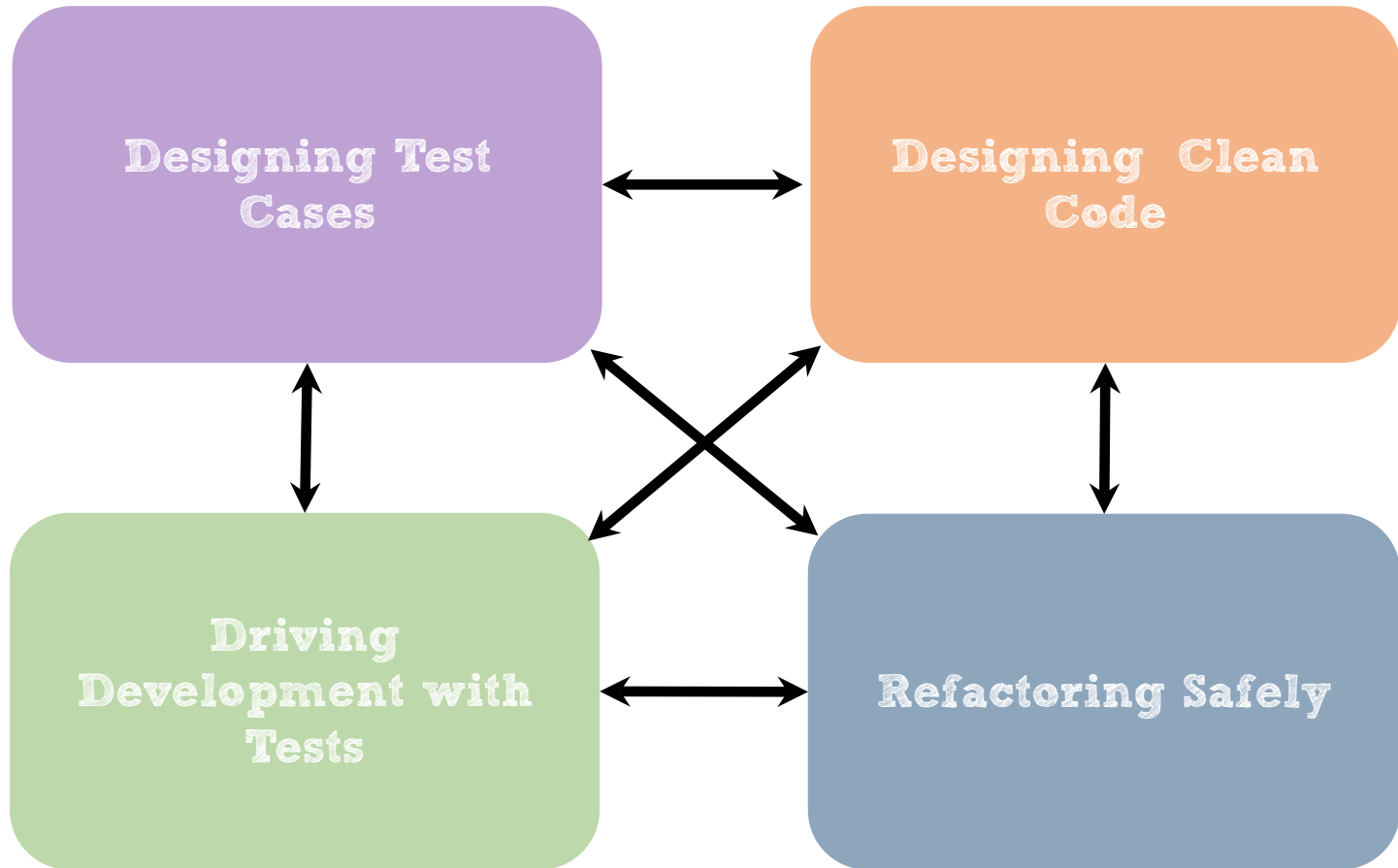


**HOW TO TURN YOUR DEVELOPERS
IN LESS THAN 6 MONTHS
IN PERFECT SOFTWARE CRAFTSMEN?**

CODING DOJO



TDD Break Down



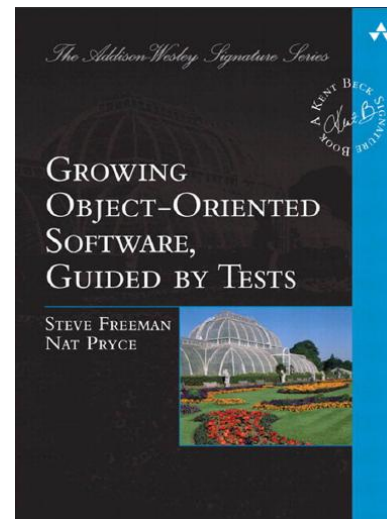
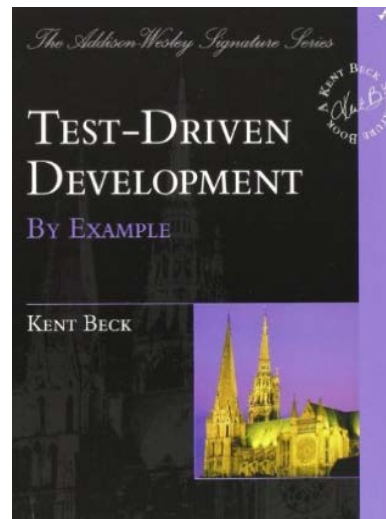
Take way

TDD is like a series of moves from one state to another

You can demonstrate TDD on a simple code kata

TDD has component skills you can practice separately

**To go further
Coding Dojo**



TDD Cheat Sheet

0

DIGGING DEEPER YOUR SUBJECTS

1

DOUBLE LOOP
OUTSIDE-IN

2

COMMUNICATION
SHOULD

3

METHODS
BEHAVIOURS

4

TRAIN REGULARLY (KATA, DOJO)