

Lets TDD in GO

2017/10 GoBxl

Thanks to our Host



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Objectives

- Fun with **GO** :)
- Introduction to TDD (short)
- Try TDD and apply it to **GO**

TDD principles

- Write tests BEFORE the code
- Automate Tests that run quickly and often

TDD Advantages

- You are your first user
- Your code becomes the documentation
- It protects from regression (Changing Tests is NOT Refactoring)

TDD Workflow

- Write the test
- Make it fails (Why?)
- You write the **smallest** amount of code to make it pass
- Refactor

TDD Tooling for GO

- `go test....`
 - `-v` for verbose
 - `-timeout 2s`
 - `-short` ,`testing.Short()`, `t.Skip()`
 - `t.Parallel()`

Kata and Fun

- A **code kata** is an exercise in **programming** which helps programmers hone their skills through practice and repetition. The **term** was probably first coined by Dave Thomas, co-author of the book The Pragmatic Programmer, in a bow to the Japanese concept of **kata** in the martial arts.

[https://en.wikipedia.org/wiki/Kata_\(programming\)](https://en.wikipedia.org/wiki/Kata_(programming))

Kata 1 : String Calculator

By Roy Oshero

- Rules
 - Try not to read ahead
 - Do one thing at the time. Learn incrementally...
 - Test for correct inputs. No error management here but...

- Create a simple string calculator that can take 0, 1,2 or any numbers and return their sums

Add(numbers string) (int,error)

- “”, ”1”, ”x”, ”1,2”, “x,y’
- Support any number
- Support new line “\n” instead of “,”
- Support any separator: should be specified at beginning “//;\n1;2”
 - The separator declaration is optional all test should still pass
- Calling Add with <0 should return error “No negative numbers”
- Numbers bigger than 1000 should be ignored
- Delimiters can be of any length “//[***]\n1***2”
- Handle multiple delimiters “//[;][[]\n1|2;3”
- Handle multiple delimiters of any length

