

# TDD Training Course

## Introduction

# Who are we?

- Burak Turhan, Univeristy of Oulu, Finland
- Davide Fucci, University of Oulu, Finland
- Natalia Juristo, UPM, Spain
- Oscar Dieste, UPM, Spain
- Hakan Erdogmus, CMU, US
- Ayse Tosun Misirli, University of Oulu, Finland
- Markku Oivo, University of Oulu, Finland

# Background

- Research project FSecure – University of Oulu
  - Study the application of the experimental paradigm in software industry
- Course/Experiment
  - This training week is both a course and an experiment

# Course or Experiment?

- Your view
  - A training course on Test-Driven Development with a refresh on unit testing
  - Heavy hands-on exercises during the training
- Researchers' view
  - An experiment on TDD
  - You are the subjects of such experiment
  - We will be collecting information

# Information Collection

- Your opinions
  - On several topics
  - Through questionnaires
  - Every day
- Data
  - On the development tasks you will be performing

# Privacy

- For us you are just an ID
  - The assignment of names to IDs has been done inside FSecure
- We are interested in the aggregated data
  - Your individual performance is of no interest for the experiment
  - Experiments results work with means, standard deviations, etc
- Only experiment results will be given back to FSecure
  - Only aggregated information

# Do not Comment

- Please, do not comment details of this course with colleagues from other FSecure sites
- We will be running similar experiments in other sites
- We need the conditions to be similar among experiments
  - Attendees should know the same you know at the start of this week

# TDD Course/Experiment

***Many Thanks for Signing !!!***



# Schedule

MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY	
	900 - 15	Intro		TDD Training	Daily Work with TDD	Daily Work with TDD	TDD Exercise (Solo)		
		Pre-quest							
	915 - 30	UT Training							
	930 - 45								
	945 - 00								
	1000 - 15								
	1015 - 30								
	1030 - 45	Coffee Break							
	1045 - 00	UT Exercise (Randori)		TDD Exercise (Randori)					
	1100 - 15								
	1115 - 30								
	1130 - 45								
	1145 - 00								
	1200 - 15	Lunch							
	1215 - 30								
	1230 - 45								
	1245 - 00								
	1300 - 15	UT Exercise (Randori)		TDD Exercise (Randori)		Daily Work with TDD	TDD Exercise		
	1315 - 30								
	1330 - 45								
	1345 - 00								
	1400 - 15	Coffee Break		Coffee Break		Daily Work with TDD	Daily Work with TDD	TDD Exercise	
	1415 - 30	UT Exercise (Solo)		TDD Exercise (Solo)					
	1430 - 45								
	1445 - 00								
	1500 - 15								
	1515 - 30								
	1530 - 45								
	1545 - 00					TDD Exercise & questionnaire	Task difficulty questionnaire	Learning curve questionnaire	Post-treatment questionnaire
	1600 - 15								
	1615 - 30					TDD Eercise & questionnaire	TDD Feedback	Retrospective	
	1630 - 45	Task difficulty questionnaire		Task difficulty questionnaire					
	1645 - 00	Post-treatment questionnaire		Learning curve questionnaire					
	17								

# Start/ End Times?

MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
900 - 15	Intro	TDD Training		Daily Work with TDD		Daily Work with TDD		TDD Exercise (Solo)		
	Pre-quest									
915 - 30	UT Training									
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1230 - 45										
1245 - 00										
1300 - 15										
1315 - 30	UT Exercise (Randori)	TDD Exercise (Randori)		Daily Work with TDD		Daily Work with TDD		TDD Exercise		
1330 - 45										
1345 - 00										
1400 - 15										
1415 - 30	Coffee Break	Coffee Break								Daily Work with TDD
1430 - 45										
1445 - 00										
1500 - 15										
1515 - 30										
1530 - 45				UT Exercise (Solo)	TDD Exercise (Solo)		TDD Exercise & questionnaire		Task difficulty questionnaire Learning curve questionnaire Post-treatment questionnaire	
1545 - 00										
1600 - 15										
1615 - 30										
1630 - 45										
1645 - 00	Task difficulty questionnaire	Task difficulty questionnaire		TDD Feedback		Retrospective				
	Post-treatment questionnaire	Learning curve questionnaire								
17										

# Some basic rules

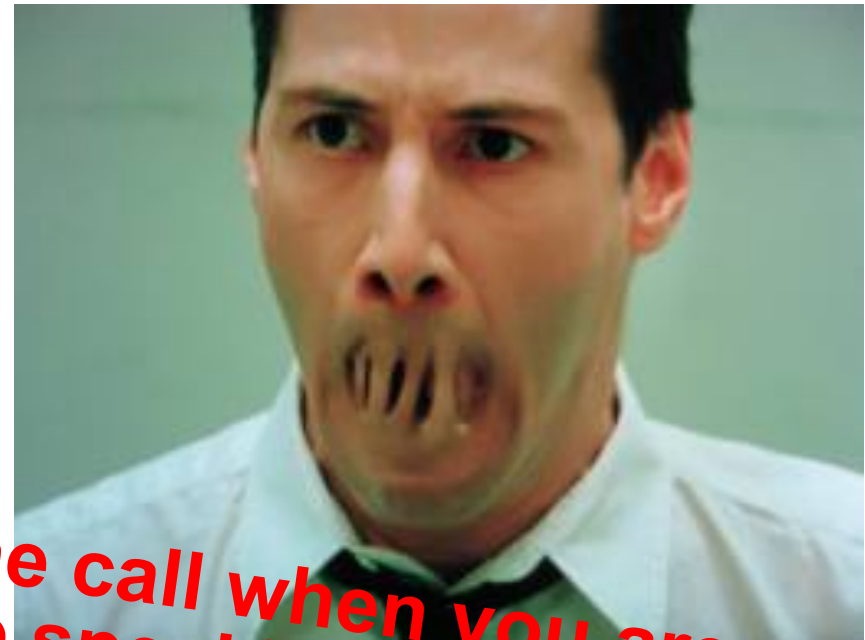
- Do not talk about the course/experiment with colleagues since they will be running the experiment later



***Do not talk about fight club!***

# Some basic rules

- Specially during critical tasks
  - No mail or other disturbance, please
  - even no phone calls



**What good is a phone call when you are unable to speak!**



**Please 😊**

# Double Checking

- Do you know your User ID?
- Do you have a working copy of the Virtual Machine?

Please fill in the questionnaire at

<http://tinyurl.com/tddWeek1>

git clone <https://github.com/UniOULU-TOL/GildedRose.git>



git clone <https://github.com/UniOULU-TOL/MarsRoverApi>

# Please copy your data to network folder

- 1. Create a folder and name it with your UserID**
- 2. Create a (sub)folder and name it “Day1”**
- 3. Copy your MarsRoverAPI project folder under Day1**

[\*\*/dffile01/tmp/toroki/tdd-experiment-and-training/  
results/\*\*](#)

Please fill in the questionnaire at

<http://tinyurl.com/tddWeek2>

git clone <https://github.com/dfucci/BSK.git>

# Please copy your data to network folder

- 1. Create a (sub)folder and name it “Day2”**
- 2. Copy your BSK project folder under Day2**

**[/dffile01/tmp/toroki/tdd-experiment-and-training/  
results/](#)**

Please fill in the questionnaire at

<http://tinyurl.com/tddWeek3>

<http://tinyurl.com/tddWeek4>

Please fill in the questionnaire at

<http://tinyurl.com/tddWeek5>

Please fill in the questionnaire at

<http://tinyurl.com/tddWeek6>



git clone <https://github.com/UniOULU-TOL/MusicPhoneTask.git>

# Please copy your data to network folder

- 1. Create a (sub)folder and name it “Day5”**
- 2. Copy your MusicPhoneTask project folder under Day5**

**[/dffile01/tmp/toroki/tdd-experiment-and-training/results/](#)**

# Please take a snapshot of your VM

**...and export. We'll help you if you need assistance.**

Please fill in the questionnaire at

<http://tinyurl.com/tddWeek7>

<http://tinyurl.com/tddWeek8>

<http://tinyurl.com/tddWeek9>

If TDD was a pill,  
would you take it to improve your health?



# Kind reminder

- Do not talk about the course/experiment with colleagues since they will be running the experiment later



***Do not talk about fight club!***

# Retrospective

# What went well?

Keep



How can we do it better next  
time?

Improve

# What are the puzzles?

Clarify

# Appreciations?

For your colleagues



**Kiitos paljon!**

Feel free to contact us anytime:

<http://turhanb.net>