# Coding Dojo Vienna: Bank OCR Outside-In

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Peter Kofler

• Ph.D. (Appl. Math.)

 Professional Software Developer for 15 years



- "fanatic about code quality"
- I help development teams

### Coding Dojo Mindset

- Safe place outside work
- We are here to learn
- Need to slow down
- Focus on doing it right
- Collaborative Game



## "London" Constraint\*



\*) London School TDD is Outside-In but Classic TDD can be as well

#### Outside-In TDD

- build the system from the "outside-in", following the user interaction through all the parts of the system
- (maybe) create a Guiding Test
- start with top level interactions/collaborators
- create fake dependencies or mock them
- implement using TDD until all tests green
- move "inside" to previously faked collaborator

# Assignment



#### Bank OCR

• You work for a bank, which has a machine to assist in reading letters. The machine scans the paper documents, and produces a file with a number of entries which each look like this:

- Each entry is 4 lines long, each line has 27 characters. The first 3 lines contain an account number written using **pipes and underscores**, and the fourth line is blank. Each account number should have 9 digits, all of which should be in the range 1-9.
- Write a program that can take this file and parse it into actual account numbers.

#### Prepare

- Find a pair.
- Choose a programming language.
  - Java: https://bitbucket.org/pkofler/bankocr-kata-setup
  - JS: https://bitbucket.org/carlosble/bankocr-kata
  - Py: http://technivore.org/posts/2013/12/23/coding-kata-bank-ocr.html
- See BankOcrTest.java (failing test)
  - guiding test as starting point.
- Work through outer API

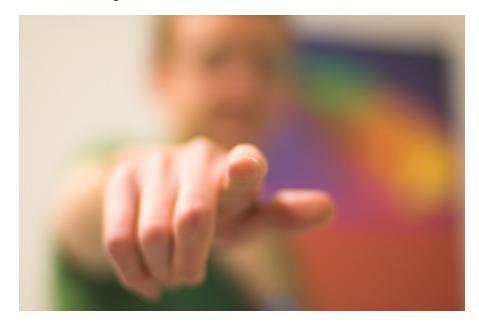
# Don't Focus on Getting it Done. Focus on Doing It Perfectly.

## Closing Circle

• What did you learn today?

What surprised you today?

• What will you do differently in the future?





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