Welcome!



Peter Kofler

• Ph.D. (Appl. Math.)

Professional Software
Developer for 15+ years



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

I help development teams with

Professionalism

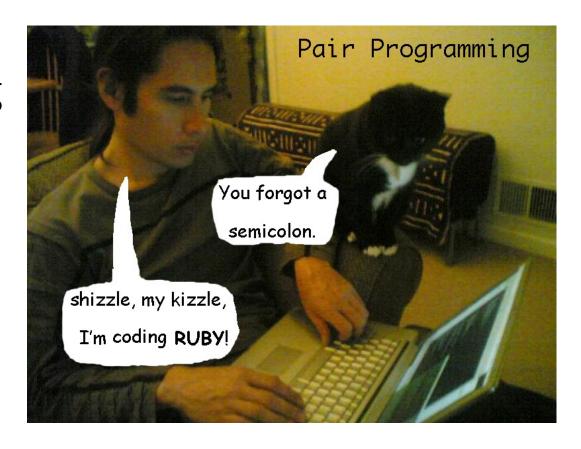
Quality and Productivity

Continuous Improvement



Mentoring

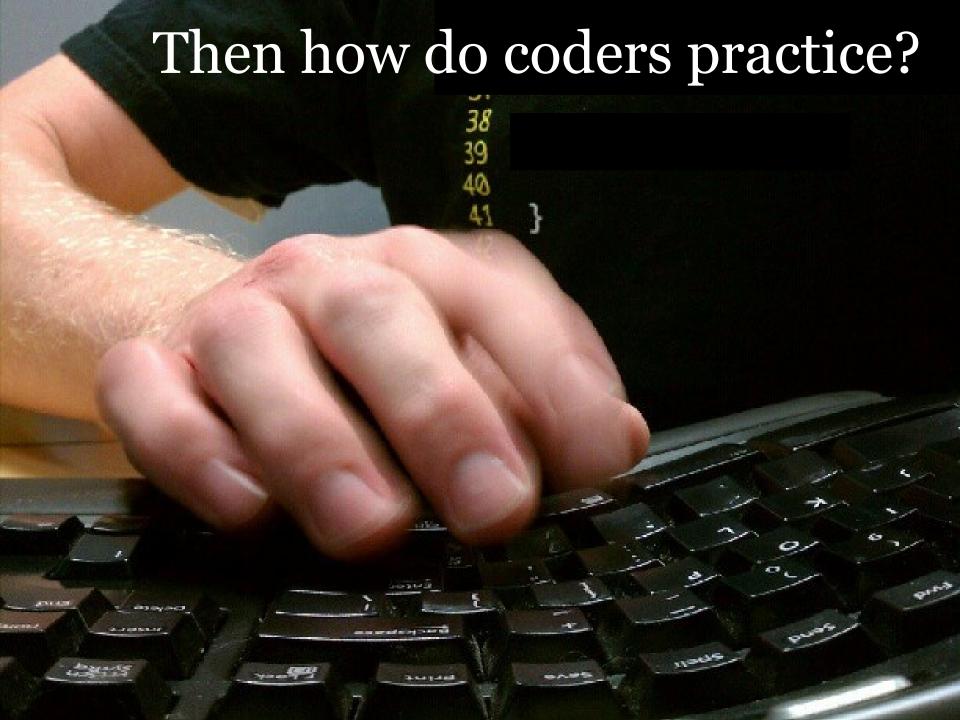
- Pair Programming
- Programming Workshops
- DeliberatePractice, e.g.Coding Dojos



Developing Quality Software Developers





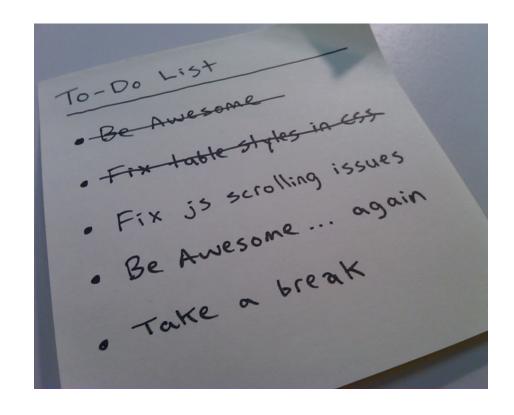


Why repeat the same kata?

- de-emphasise the generation of code
- concentrate on
 - the process of writing the code
 - naming test cases
 - the Red/Green cycle

Day Structure

- Introduction
- 3 Sessions of
 - Coding
 - Retrospective
- Lunch
- 3 Sessions
- Retrospective



Code Retreat Principles

- Learn through pairing (switch pairs)
- Practice
- Experiment
- Have fun!



- honing the craft together

Coding Dojo Mindset

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



Constraints

- Challenges during a dojo or coderetreat
- Moving to the extreme is a way of learning
- Examples
 - Missing Tool (No Mouse, ...)
 - Missing Feature (No IFs, ...)

Why delete the code?

- No. Listen.
- Stop trying to go faster, start trying to go slower.
- Don't think about finishing, think about improving.
- Think about practising. As a team.
- That's what this day is for. Nothing else.

How to take advantage

- Embrace freedom of deleting the code
- Do what you always wanted but couldn't
- Get out of your comfort zone
- Pair with strangers in languages you do not know
- What you learn is your responsibility
 - Think about what you want to practice

Think About Learning Topics

- Why are you here?
- What do you want to learn?
- What do you expect from today?
- How can this happen?
- How can I help you?

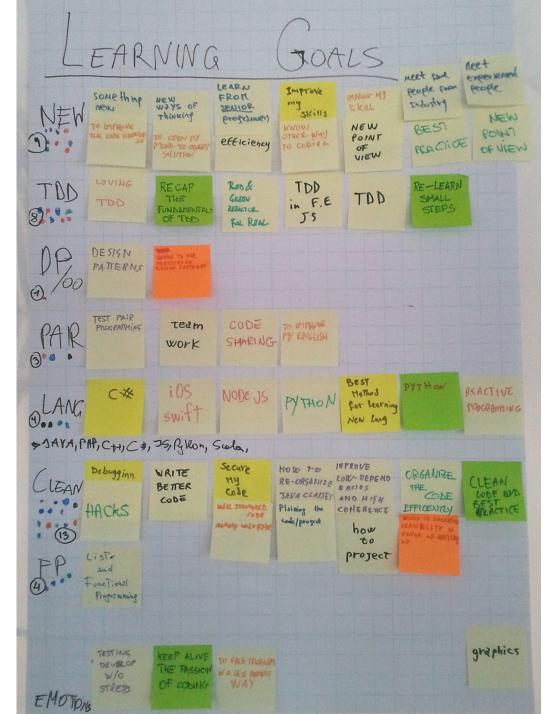
• Write your concrete needs on Post-its!



What do you want to learn?

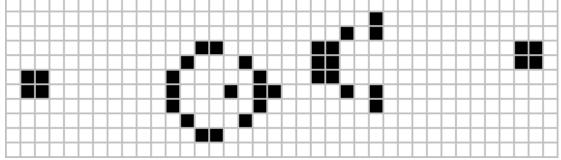
- TDD
- Pair Programming
- Clean Code
- Design
- Other Languages
- •





Conway's Game of Life

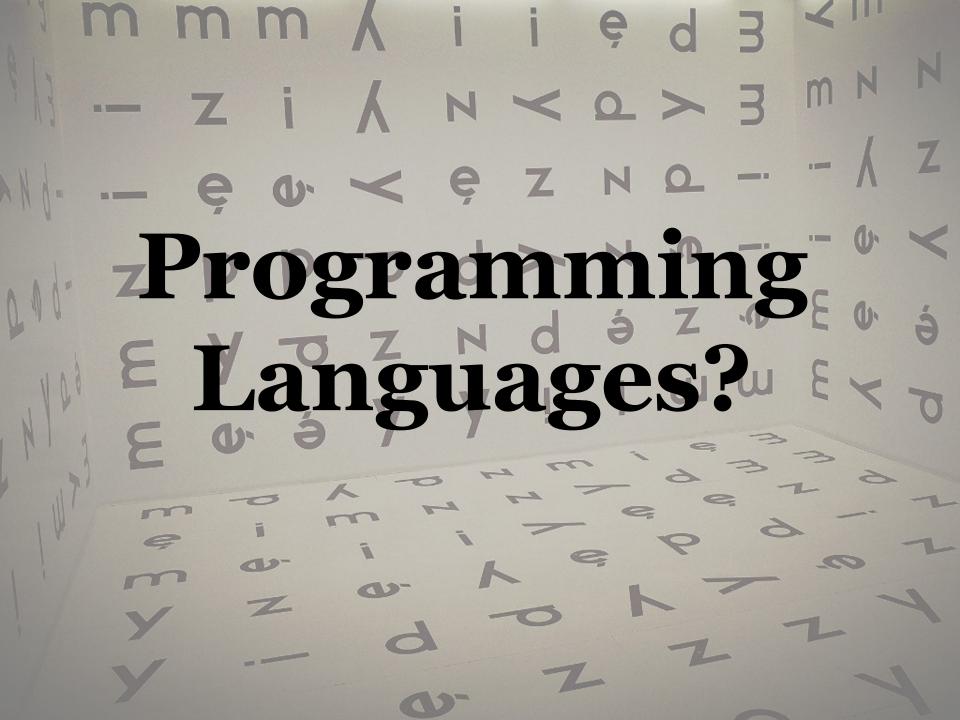
- infinite, two-dimensional grid of cells
- interacts with its eight neighbours
- at each step in time, transitions occur
- four rules for cells depending on number of live neighbours



http://en.wikipedia.org/wiki/Conway%27s_Game_of_Life

Rules of Cell Interaction

- Any live cell with fewer than two live neighbours dies by under-population.
- Any live cell with two or three live neighbours lives on to the next generation.
- Any live cell with more than three live neighbours dies, as if by overcrowding.
- Any dead cell with exactly three live neighbours becomes a live cell, by reproduction.



Get Ready!

- Find a pair.
- Agree on language.
- Use one computer.
- Set up empty project.
- Write a failing test.
- Implement Game of Life.
- Use TDD if possible.



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

Our Sessions

- do your best
- Verbs instead of Nouns
- Solution Seeker
- Ping Pong Mute
- Clean Code: 4 lines/2 param per method
- No If (Fun Session)

Closing Circle

• What did you learn today?

What surprised you today?

• What will you do differently in the future?







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