

A person with short blonde hair, wearing a white t-shirt with red sleeves and dark pants, is seen from behind, climbing a wide stone staircase. The background shows a grassy hillside and a stone wall. The entire image is semi-transparent, serving as a background for the text.

# Coding Dojo: Baby Steps

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# Peter Kofler

- Ph.D. (Appl. Math.)
- Professional Software Developer for 14 years
- “fanatic about code quality”
- I help development teams



Coding Dojo?  
Expectations?

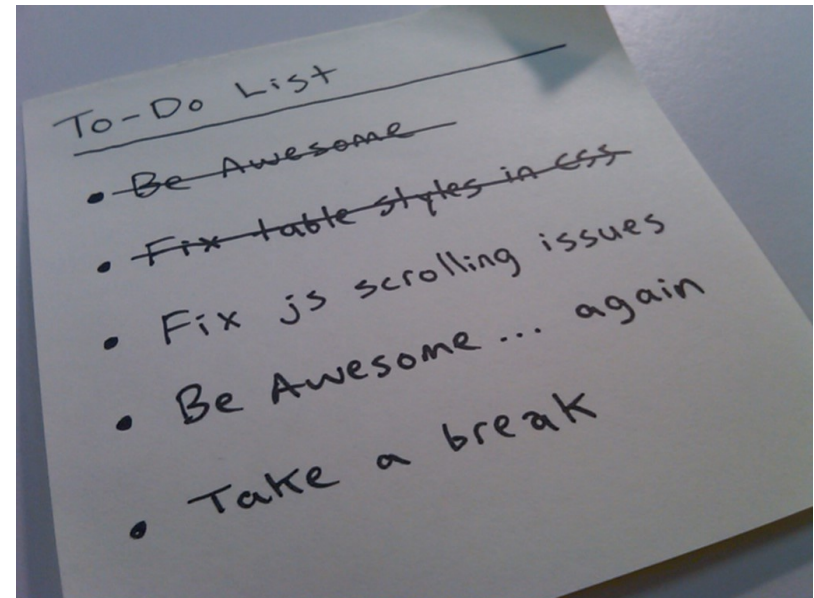
# Coding Dojo Mindset

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




# Dojo Structure

- Introduction 15'
- Coding 45'
- Interim (Retrospective) 15'
- Break 15'
- Coding 45'
- Retrospective 30'



# TDD Skills

- Driving Development with Tests 
- Designing Test Cases
- Designing Clean Code
- Refactoring Safely

# TDD should be...

- Add a little test for one concept/idea
- See it fail
- Add a little code to make all tests pass
- Refactor mercilessly
- Repeat

## ... but often is

- Write some high level test
- Write code for several different things
- Test and debug
- Test and debug
- Test and debug
- Add TODO to refactor later



# Taking Baby Steps



# Steps

1. Set up a timer for certain interval.
2. Write exactly one test
  - If the timer rings and the **test is red** then **revert**.
  - If the **test is green** before timer rings then **commit**.
3. Restart timer (no discussions in between timers)
4. Refactor
  - If timer rings and the **refactoring is not complete** then **revert**.
  - If the **refactoring is complete** before timer rings then **commit**.
5. Restart the timer (no discussions in between timers)
6. Go to 2 (next test) or 4 (continue refactoring)

# Assignment: Tic-Tac-Toe



# Tic-Tac-Toe

- <http://en.wikipedia.org/wiki/Tic-tac-toe>
- Board 3x3
- X plays first, O plays second
- Implement
  - 2 Player Game
  - Determine Winner
  - AI Bot Player



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

# Prepare

- Find a pair.
- Choose a programming language.
- Set up the environment.
- Set up source control repository (hg/git).
- Set up a timer for 2 minutes interval.
- Timer must run continuously.  
Don't stop to talk!

→ Practice

# Closing Circle

- What did you learn today?
- What surprised you today?
- What will you do differently in the future?







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Game by

# Adrian Bolboaca

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<http://blog.adrianbolboaca.ro/2013/03/taking-baby-steps/>

# CC Images

- Dojo <http://www.flickr.com/photos/49715404@N00/3267627038/>
- Todos <http://www.flickr.com/photos/kylesteddesign/3724074594/>
- Baby <https://www.flickr.com/photos/11904001@N00/3983980813/>
- Game <http://www.flickr.com/photos/benclinch/476855843/>
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