Coding Dojo:
Adding Tests to the
Ugly Trivia Legacy Code
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Peter Kofler

- Ph.D. (Appl. Math.)

- Professional Software Developer for 14 years

- "fanatic about code quality"

- I help development teams
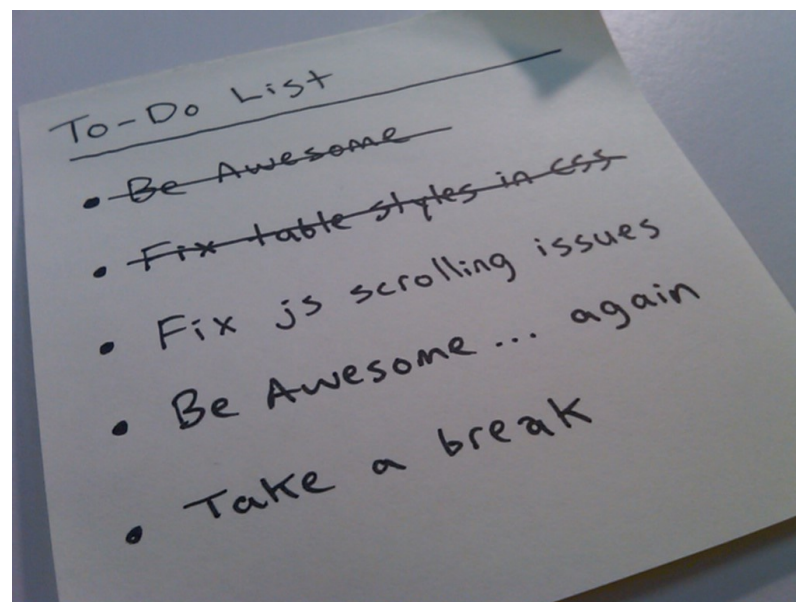
Expectations?

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 60'
- Break
- Interim (Retrospective) 15'
- Coding 60'
- Break
- Coding 60'
- Retrospective 30'

Legacy Code Skills

- Understanding Legacy Code

- Breaking Dependencies

- Bringing Code Under Test ⬅

- Refactoring Mercilessly

Ugly Trivia

Legacy Codebase "uglytrivia"

- Get the code
  https://github.com/jbrains/trivia

- An implementation of Trivial Pursuit

  - http://en.wikipedia.org/wiki/Trivial_Pursuit

  - players take turns to answer trivia questions

  - questions are split into categories

  - players collect coins for right answers

Requirements

- Choose a testing framework

- Create tests, cover all cases

    - May need to extract code to do that

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

$\rightarrow$ Practice

Extract Pure Functions

- find a piece of code that can be moved into a separate function by using "Extract Method"

- replace all external dependencies within this function with independent parameters

- add a test for that function

- refactor the tested code as needed

Extract Class

- isolate functionality that somehow relates and can be separated from other behaviour

- turn isolated methods into pure functions

- extract these pure functions into a separate class

- add tests for that new class

Closing Circle

- What did you learn today?

- What surprised you today?

- What will you do differently in the future?

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Idea by

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https://github.com/jbrains/trivia

CC Images

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- Todos http://www.flickr.com/photos/kylesteeddesign/3724074594/

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