

Coding Dojo: String Calculator

vienna.rb Dojo#1, Nov. 2013

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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?

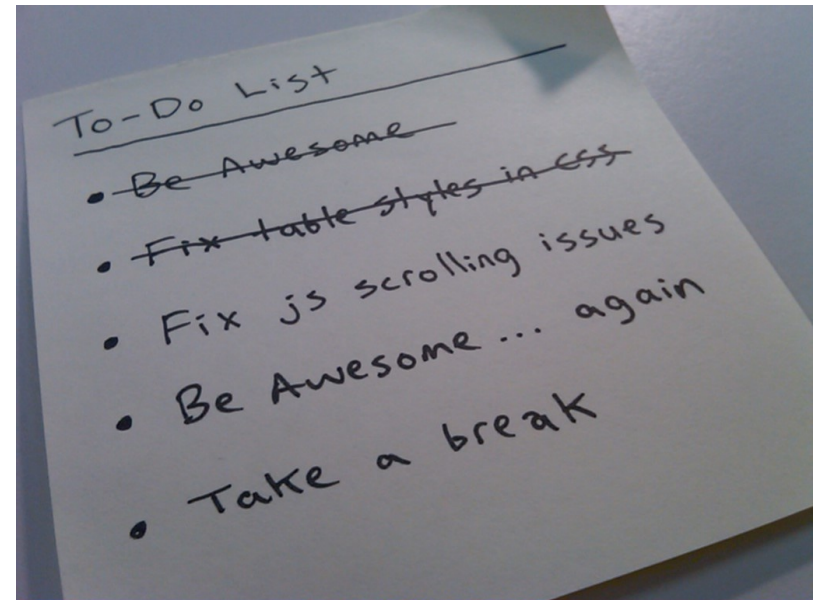
Coding Dojo Mindset

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



TDD Skills

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

TDD should be...

- Add a test
- See it fail
- Add code to make all tests pass
- Refactor mercilessly
- Repeat

... but often is

- Think up design
- Write some tests that verify the design
- Write full implementation
- Test, debug, test, debug, test, debug, ...
- Add TODO to refactor later

String Calculator



Requirements

- Create a String calculator (class) with a method **Add** that accepts a string and returns a number
 - The string contains 0, 1, or 2 numbers.
 - It returns their sum.
 - An empty string will return 0.
 - Example inputs are “”, “1”, or “1,2”.
- Start with simplest test (empty string)

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

→ Practice

More Requirements

- Now change the **Add** method to handle an unknown number of arguments (numbers inside string).
 - e.g. “1,2,3” should return 6.
- Allow the **Add** method to handle also new lines between numbers (instead of commas).
 - e.g. “1\n2,3” should return 6.

Closing Circle

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



Global Day of CodeRetreat #gdcr13 (14.12.2013)

<http://coderetreat.org/events/global-day-of-coderetreat-vienna-2014>



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Kata by

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