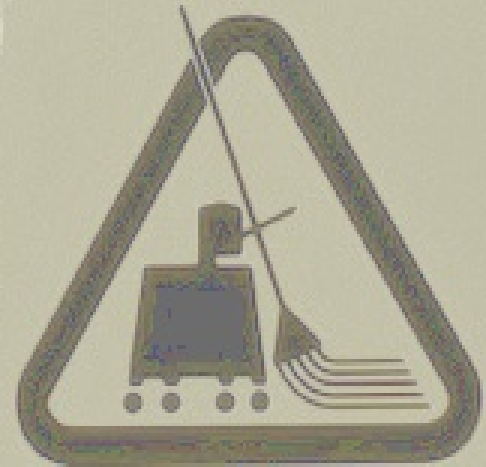


Creating Clean, Readable and Expressive Executable Specifications

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**CLEANING
IN
PROGRESS**



Peter Kofler

- Ph.D. (Appl. Math.)
- Professional Software Developer for 15 years
- “fanatic about code quality”
- Freelance Code Mentor



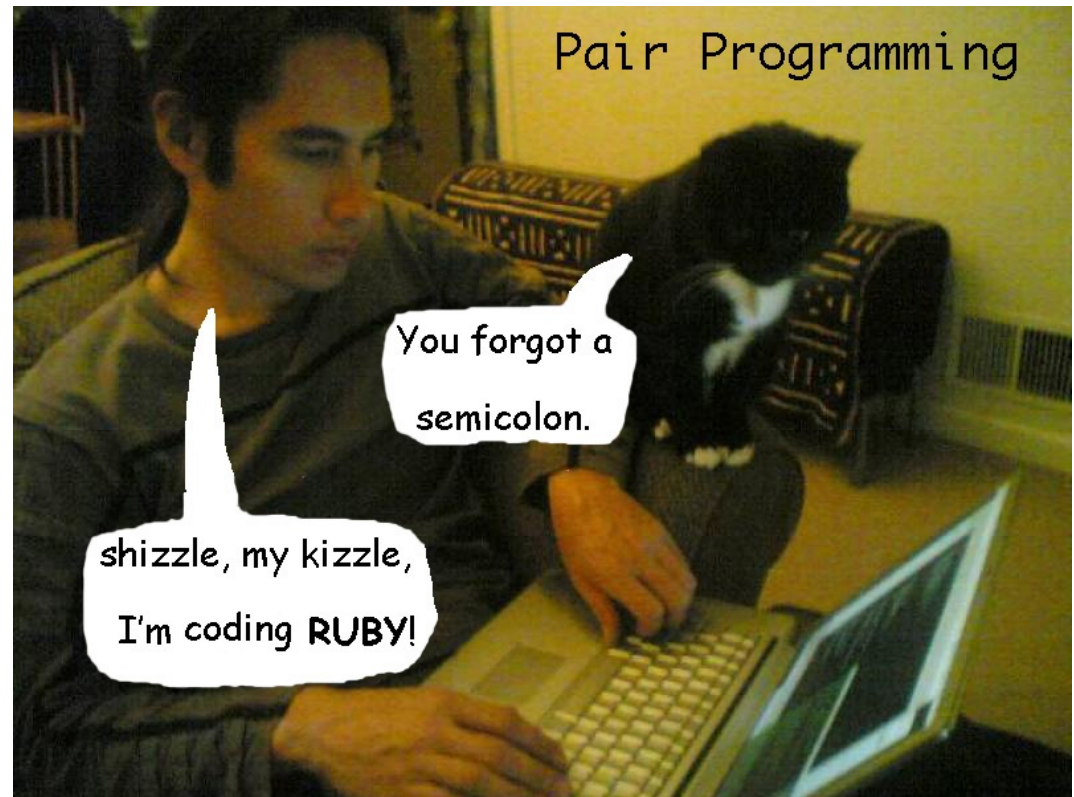
I help development teams with

- Professionalism
- Quality and Productivity
- Continuous Improvement



Mentoring

- Pair Programming
- Programming Workshops
- Deliberate Practice, e.g. Coding Dojos



Developing Quality Software Developers

Coding Dojo Mindset

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



Clean, Readable and Expressive?

(Buzzword Alarm ;-)



Readable?

- **Easily** read; **legible**:
e.g. a readable typeface.
- **Enjoyable** or **interesting** to read:
e.g. a readable story.
- What if a test suite would be a readable document at the same time?

Expressive?

- Full of expression; **meaningful**:
e.g. an expressive shrug.
- **Effectively** conveying **thought**:
e.g. an expressive glance.
- What if tests revealed their intend?
Would express what should happen?

Clean?

- **Free from dirt** or marks:
e.g. a clean kitchen floor.
- **Without imperfections** or errors:
e.g. a clean edge.
- What if all your tests would be nicely structured and consistent?

Expectations?



Welcome to the Gilded Rose



The existing inventory system

- We have **items** to sell. Items degrade in quality the older they get.
- All items have a **SellIn value** which denotes the number of days we have to sell the item.
- All items have a **Quality value** which denotes how valuable the item is.

Requirements

- At the end of each day our system lowers both values for every item.
- Once the sell by date has passed, Quality degrades twice as fast.
- The Quality of an item is never negative.
- The Quality is never more than 50.

Special Item: Brie

- *Aged Brie* actually increases in Quality the older it gets.



Backstage Passes

- *A backstage pass* increases in Quality as it's SellIn value approaches (by a complex formula)
- but Quality drops to 0 after the concert.



Special Item

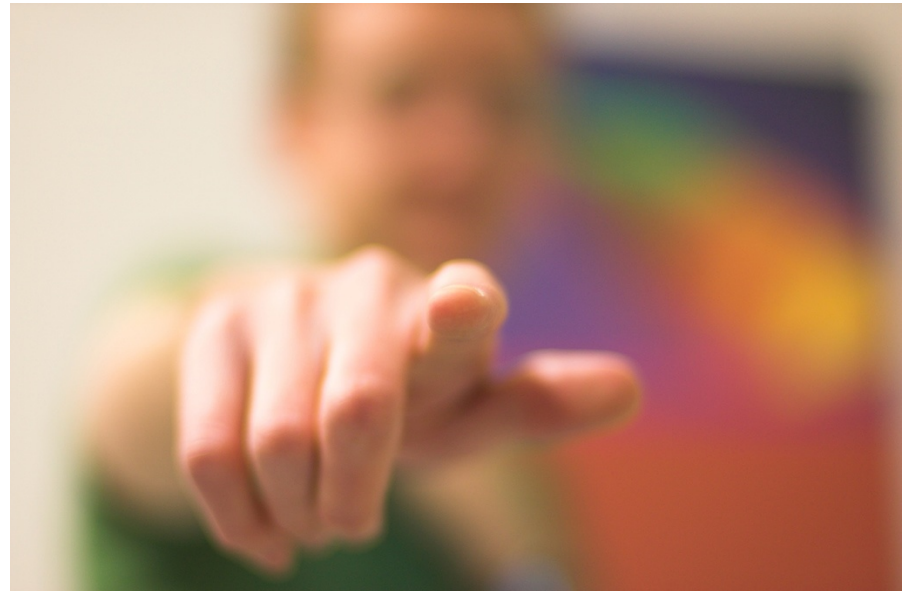
- *Sulfuras*, a legendary item, never has to be sold or decreases in Quality.



Create a test suite
that is a readable
document at the
same time!

Closing Circle

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





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Kata by

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<http://coding-is-like-cooking.info/2013/03/writing-good-tests-for-the-gilded-rose-kata/>

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