

Coding Dojo/Testing Dojo: Designing Test Cases for the Gilded Rose Kata (with FitNesse)

Agile Testing Days 2014

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Peter Kofler

- Ph.D. (Appl. Math.)
- Professional Software Developer for 15 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



Coding Dojo Rules

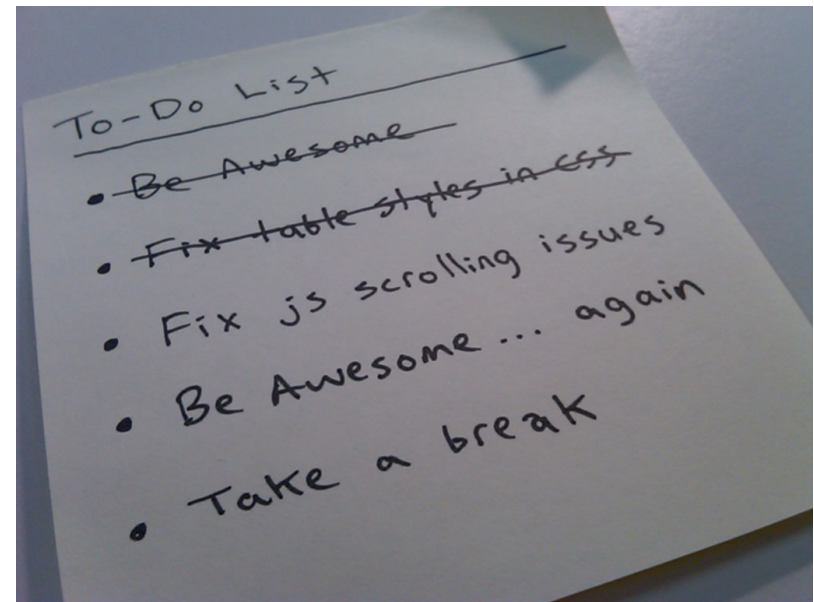


Two Basic Things

- Collaborative = Pair Programming
 - do not talk for too long
 - do not interrupt the other
- Test Driven Development
 - think about test cases
 - write the test ~~first~~ (we only write tests today)

Dojo Structure

- Introduction 15'
- FitNesse Demo 5'
- Coding 35'
- Interim (Retrospective) 5'
- (Optional) Break 30'
- Coding 35'
- Retrospective 25'



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.



Now let's prepare

- Find a pair
- Get the code from
<https://bitbucket.org/pkofler/gilded-rose-fitness>
- Set up the environment
(`compile.bat/sh` **then** `startFitNesse.bat/sh`)
- Open <http://127.0.0.1:8080/>
- Go to the GildedRose sub-wiki

→ Demo:

How to add a test
case in FitNesse

What Will We Do Now?

- Modify existing test cases, play around
- Create some “perfect” tests
 - derive test cases from requirements
 - name test cases accordingly
 - test boundary conditions
 - readable, concise, free of duplication
- Experiment with styles

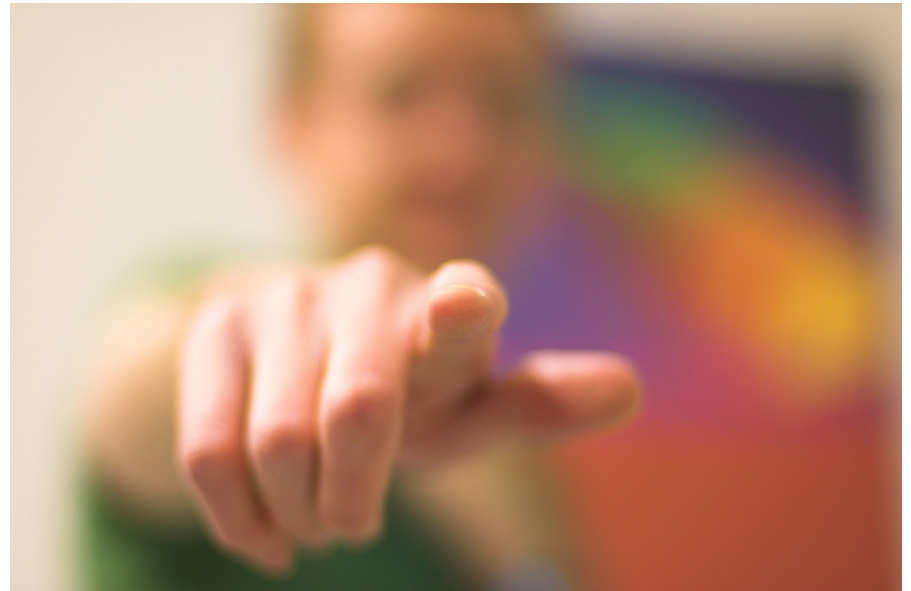
Create a test suite
that is a readable
document at the
same time!

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

→ Practice

Closing Circle

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





Please evaluate my presentation by using the rating function which you can find at my session details on:

<http://www.agiletestingdays.com/session/coding-dojo-for-testers-designing-test-cases-part-i/>

Thank You!



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

CC Images

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