

Coding Dojo

RailsWayCon 2010

Michael Mahlberg & Jens-Christian Fischer

warning

A black and white portrait of a man with long, dark, curly hair and a mustache. He is looking directly at the camera with a serious expression. The background is a plain, light color.

Audience Participation

Dojo?
Kata?



<http://www.flickr.com/photos/bengarney/3017352943/>

it's not about rails



http://www.flickr.com/photos/chris_gin/2490980153/

Kata 形

- Form
- Choreographed pattern of movements

Dojo 道場

- The Place of the Way

But Why?

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The Black Page

By Frank Zappa

♩=60 G² B^{b2} G²

4 B^{b2}

5

8

11

13

14

16

19

20

Detailed description: This is a musical score for the piece 'The Black Page' by Frank Zappa. The score is written for guitar in standard notation, using a 11/16 time signature. The key signature is complex, with various fretted notes indicated by sharp, flat, and double-flat symbols. The score is divided into measures, with measure numbers 4, 5, 8, 11, 13, 14, 16, 19, and 20 marked at the beginning of their respective lines. The notation includes many beamed sixteenth and thirty-second notes, as well as triplets and other rhythmic groupings. The piece is characterized by its unusual time signature and the specific fretting of notes, which is a hallmark of Zappa's style.

Kata - Form

- Allows you to practice
- Allows you to free your mind of tediousness
- Muscle Memory

Different Katas

- Problem Solving Kata
- Tools Kata

Problem Solving

*If can't think of at least 3 solutions,
you haven't yet understood the
problem*

– G. Weinberg

Tools



The Way of the carpenter is to become proficient in the use of his tools, first to lay his plans with a true measure and then perform his work according to plan.

– Go Rin No Sho

Now that we have
covered the theory

Coding Dojo

Randori Style

Rules

- Choose a problem (Actually, we have chosen)
- Pair programming - Driver / Navigator
- Test Driven
- Red-Green => Switch Roles
- New Person coming in after 2 cycles
- Time limit (2 Minutes)

*I wrote some code
Threw it away
Rewrote it again
In front of other people
It was clever code
They frowned at it*

<http://bossavit.com/dojo/archives/000792.html>

No Spoilers!

100 Doors

There are 100 closed Doors & 100 Monkeys

100 Doors

The first monkey goes through all doors and
opens them

100 Doors

The second monkey goes through every 2nd door, and changes it (open when closed, close when open)

starting with the second

#2, #4, #6,

100 Doors

The third monkey changes every 3rd door

Starting with the third

#3, #6, #9,

Your Mission

List all open doors

100 Doors

`;assume all memory is initially set to 0`

```
openloop: inc $1
          inc $200,X
          inc $1
          inc $1
          txa
          adc $1
          tax
          cpx #$65
          bmi openloop
```

Resources

- <http://codingdojo.org/>
- <http://programming.dojo.net.nz/welcome/index>
- <http://codekata.pragprog.org>
- http://bossavit.com/dojo/archives/2005_02.html
- <http://web.cs.wpi.edu/~gpollice/Dojo.html>
- <http://wiki.agilefinland.com/?CodingDojo>

Contact Us

Jens-Christian Fischer

InVisible GmbH

@jcfischer

jens-christian@invisible.ch

<http://blog.invisible.ch>

Michael Mahlberg

Consulting Guild AG

@MMahlberg

mm@michaelmahlberg.de

<http://agile-aspects.blogspot.com>