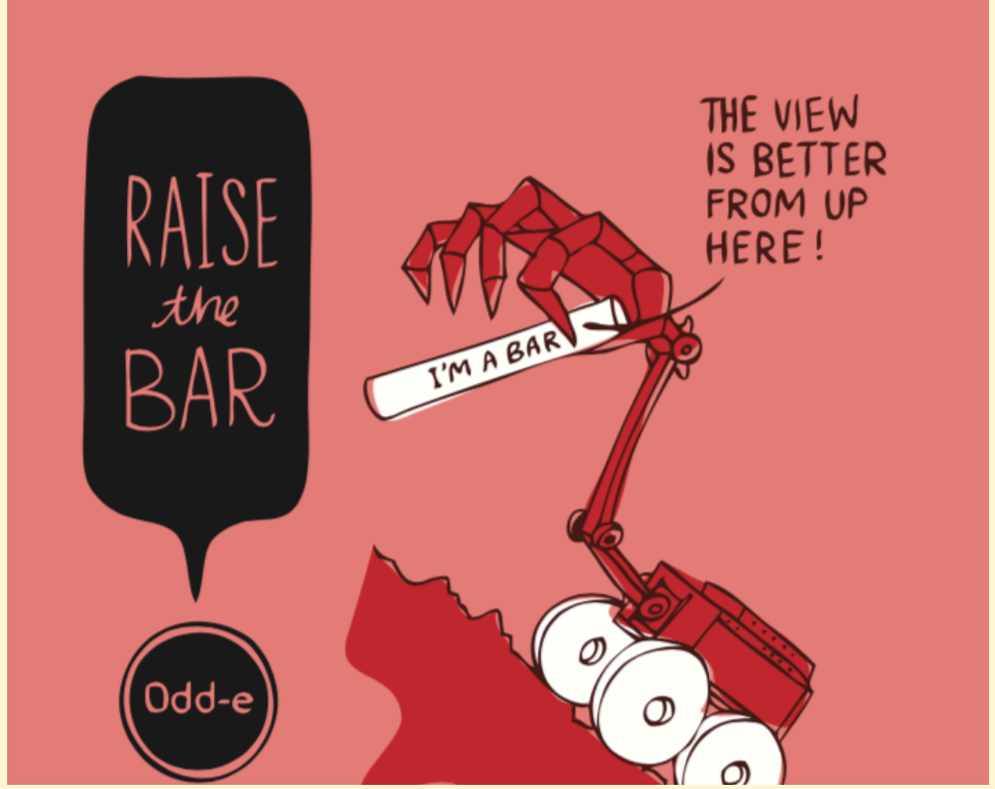
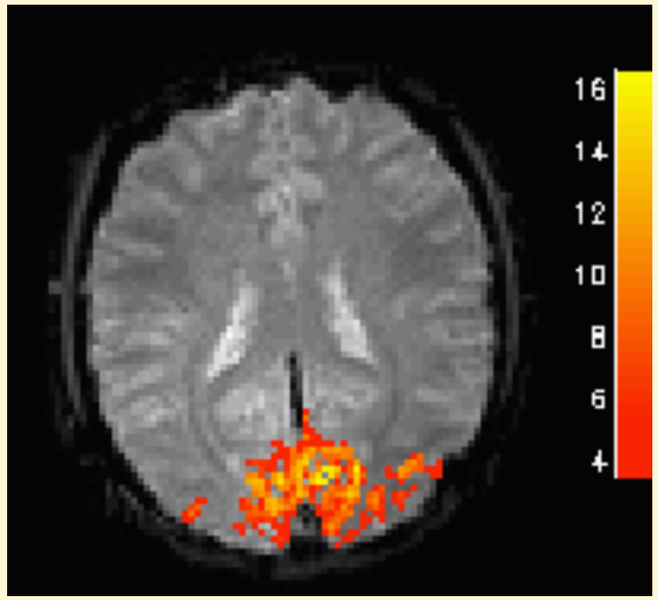


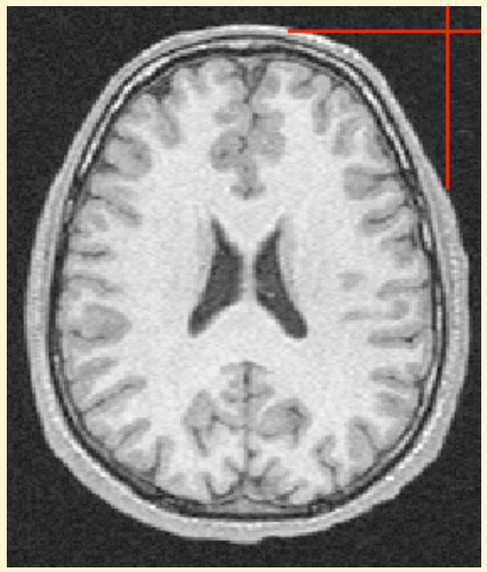
Developing Developers

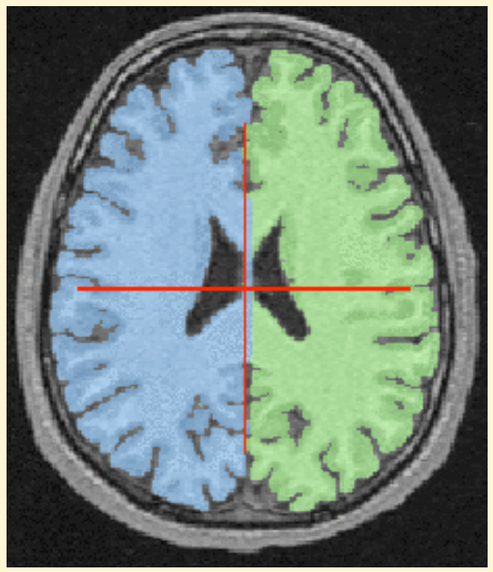
Juggling 101

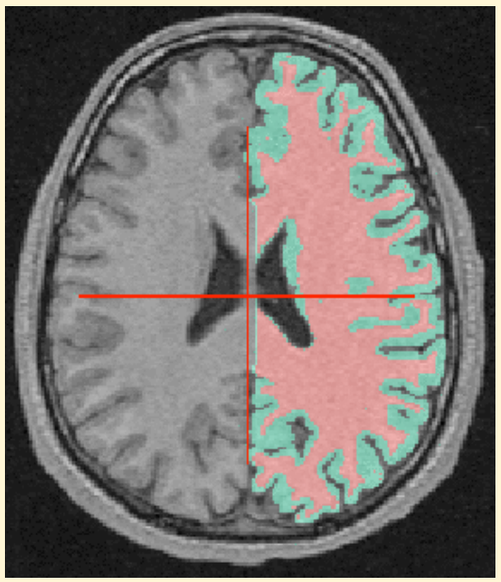
20 years ago…

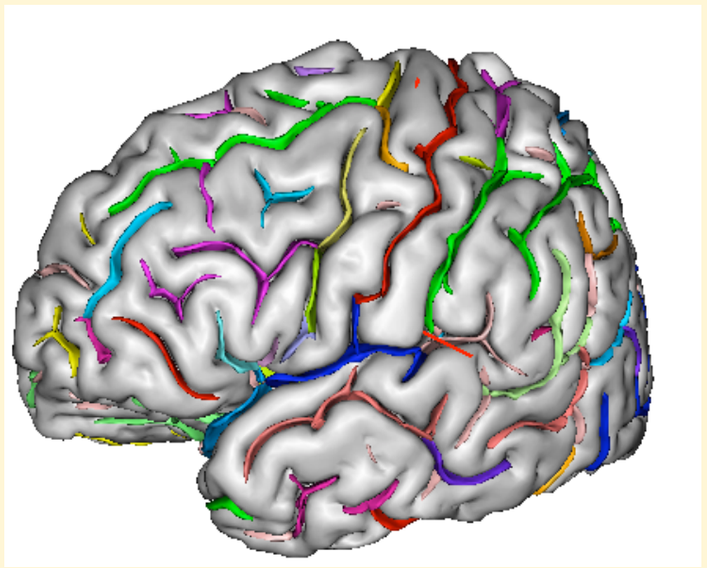


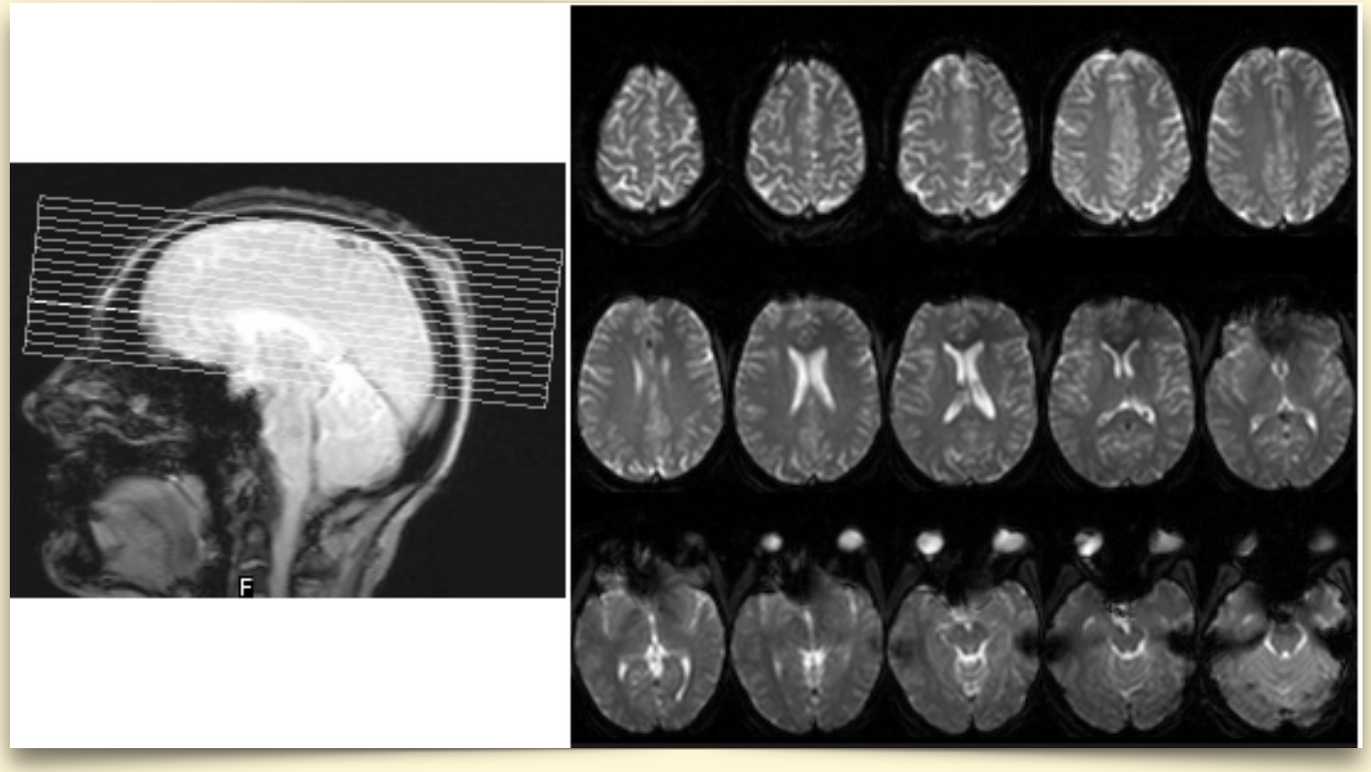
me

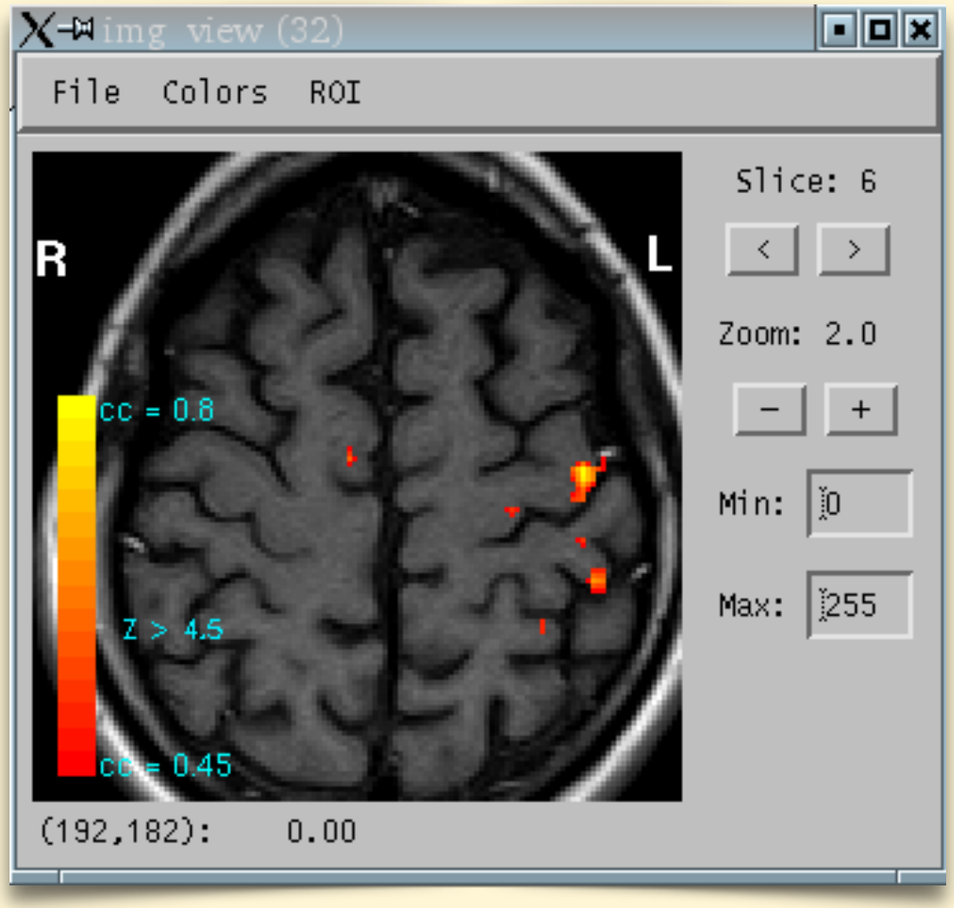


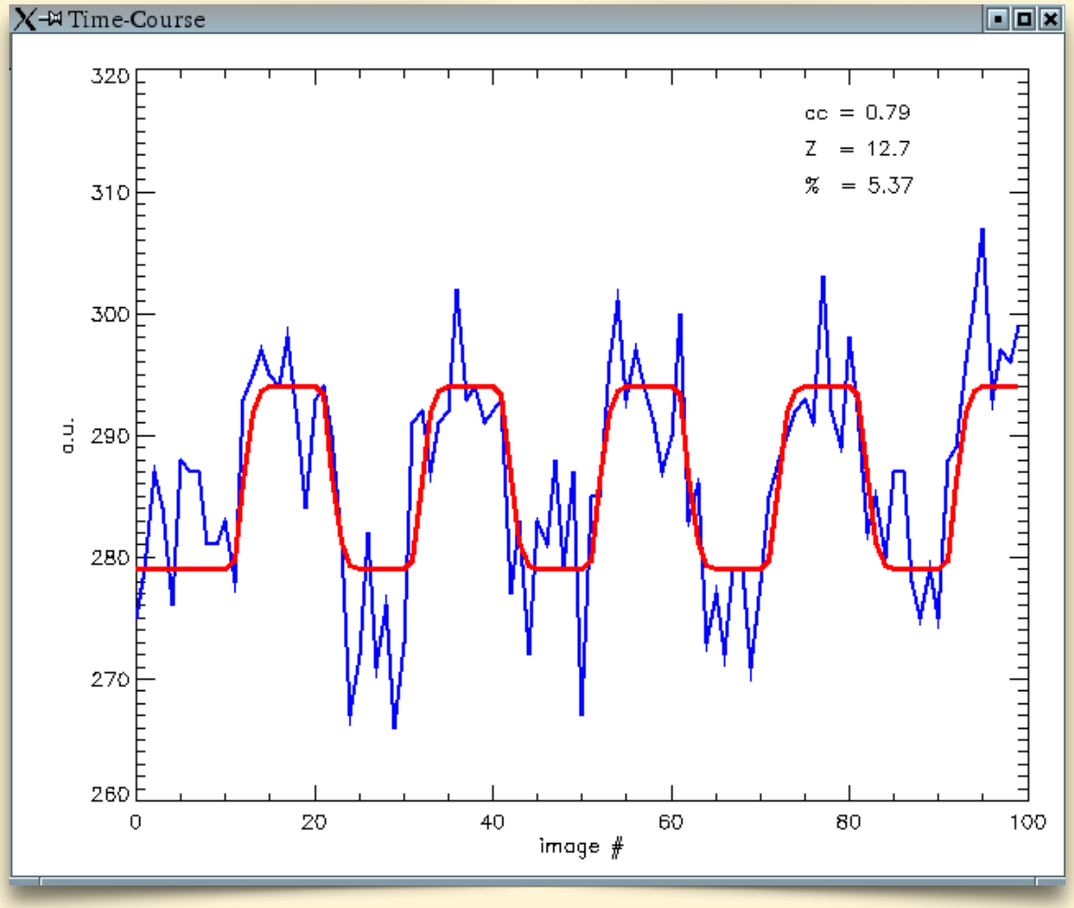







F


img view (32)
File Colors ROI
R
L
cc = 0.8
Z > 4.5
cc = 0.45
Slice: 6
Zoom: 2.0
Min: 0
Max: 255
(192,182): 0.00


Time-Course
cc = 0.79
Z = 12.7
% = 5.37
a.u.
image #
320
310
300
290
280
270
260
0
20
40
60
80
100

Programming experience

1995: delphi, C

1996: html (CERN)

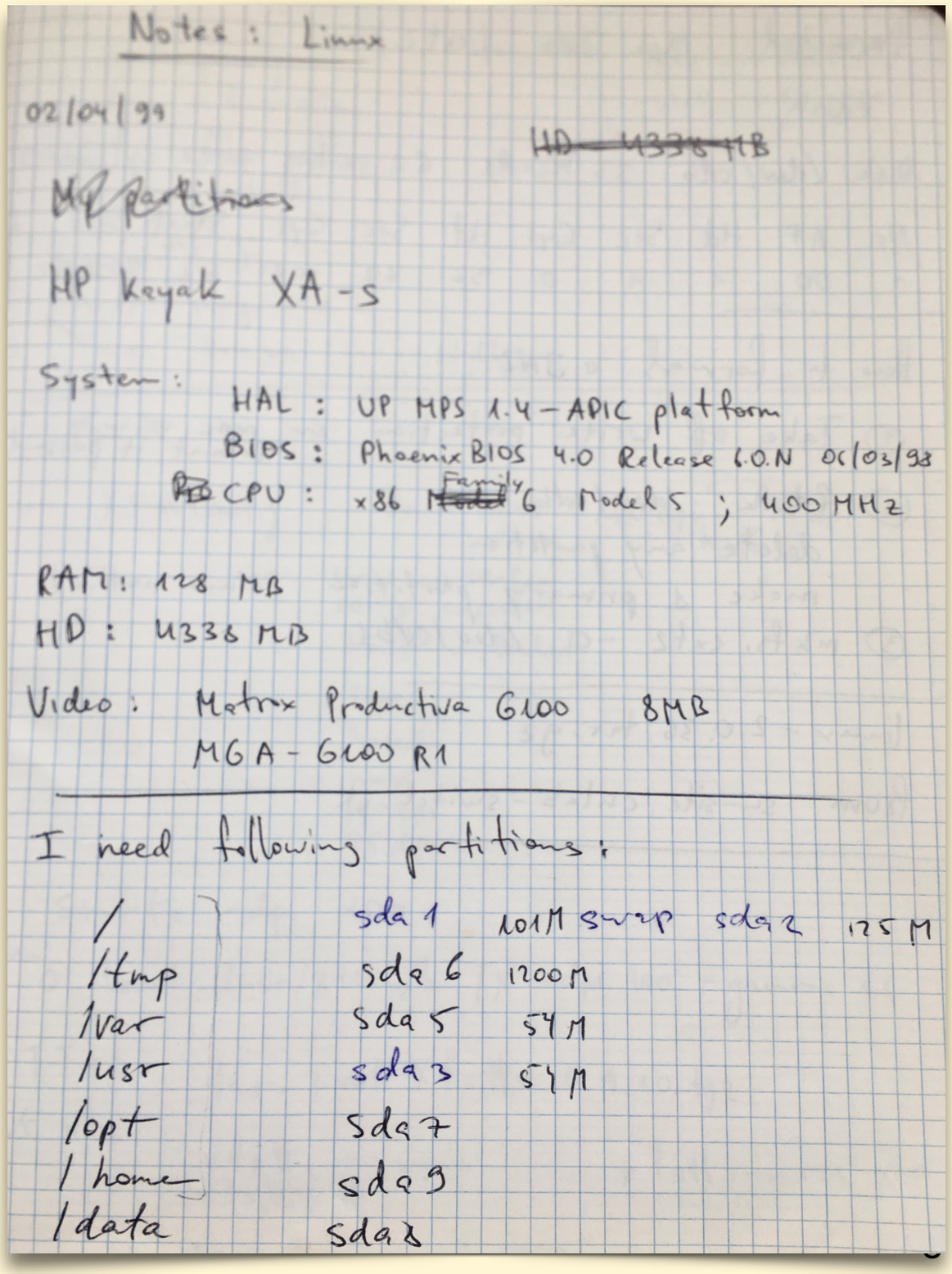
1997: IDL, sh/ksh/tsch, emacs

1998-2010: IDL, C/C++, bash,

perl, python, latex, vim

2010-2016: python, numpy et al

2016-now: python, ruby, js, java, kotlin



Lucky, educated and clueless

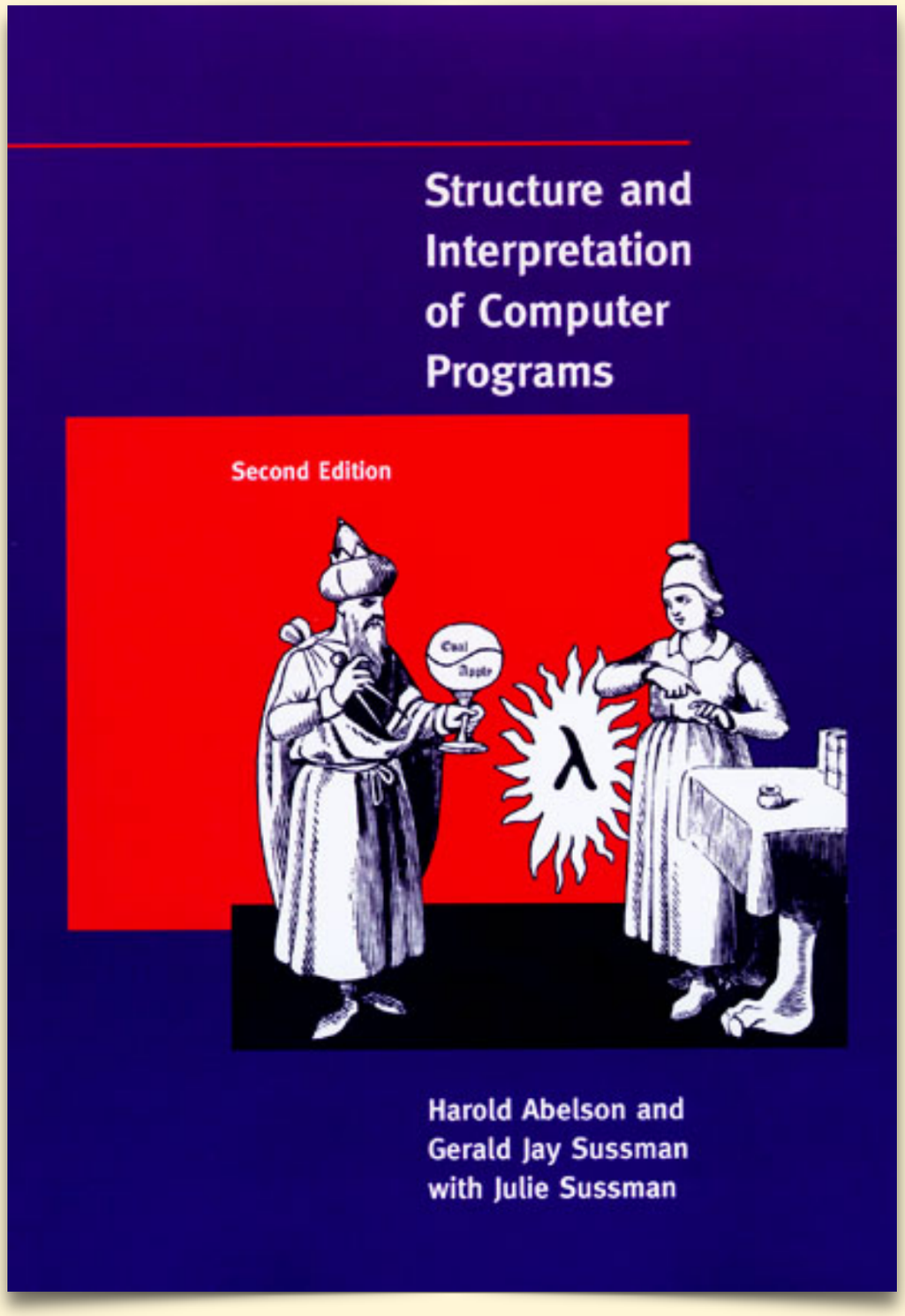
https://home.cern/science/computing/birth-web

*permanent head damage

In theory, theory and practice are the same…

“ Programs must be written for people to read, and only incidentally for machines to execute.”

— Hal Abelson



http://www.wlgf.org/wlg_intro.html

https://commons.wikimedia.org/wiki/File:SchlossVillandryGarten02.jpg

BT/AT

Part II

Rewiring brains

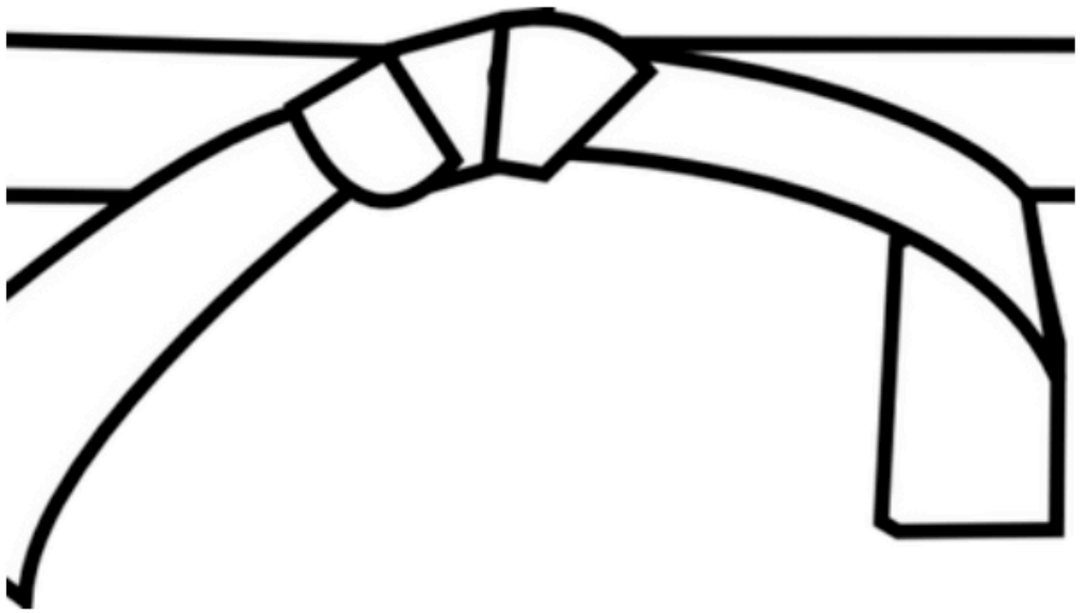
buildingblocs
Algorithm
Pattern

“For an idea to go from someone’s head into the computer
it must go through someone else’s hands” — Llewellyn Falco

TDD vs BDD people…

LB
PM
CRUD
Traefik
Migrate
Read VM
Write VM + Mongo
Read Mongo
Write VM + Mongo
New App
Test (I+U)
Praxis V2
PCF
Praxis
CS
Read Mongo
Write Mongo
30+ endpoints
Recon
M+A
Resource?
Visibility resolver
PRAXIS
APP
ECOLM
RME
IPQ Maker
IPQ Chec
Approval
RM
VISIBILITY
ASSIGNER
TYPE: GROU
VALUE: COLI
TYPE: CIF
To Delete
Check State Before Delegate
PM with Store
Rest Backed Process Manager
CURRENT USER
ARM1
ARM2
Task
PI
PI → T1
Audit_log
Factory
PPM
CPM
Mongo
Heimdal
Assigned To
Actionability
Initr: PI to Cr
Task Pd Registry
In Memory!

EXIT



Software Craftsmanship Singapore

Singapore, Singapore · 399 members · Public group

Organized by
Seyed Hossein Ghotbi

Share:

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You're a member

Next Meetup

See all

6
OCT

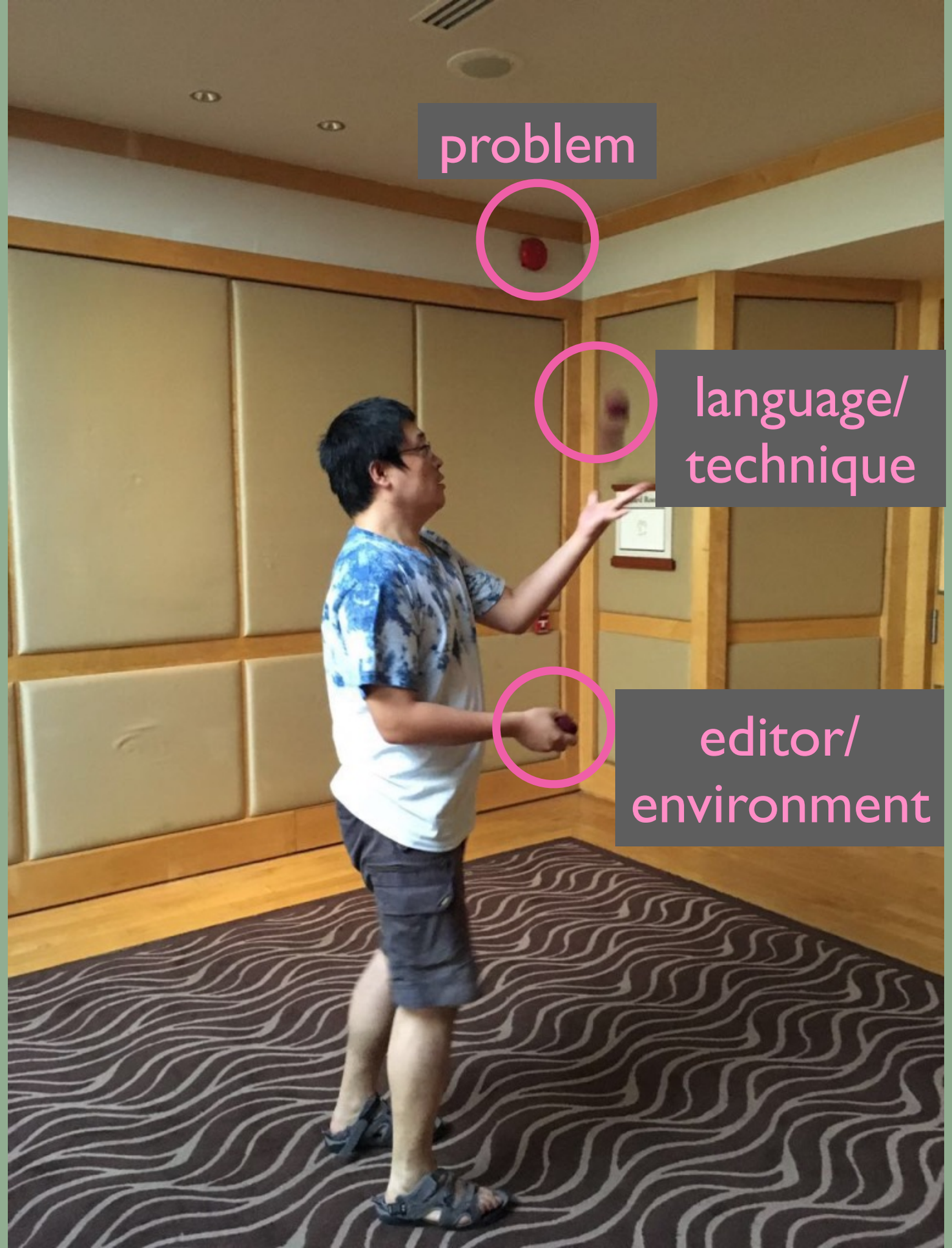
Saturday, October 6, 2018, 10:00 AM

Coding practice session

Hosted by Seyed Hossein Ghotbi

You + 2 going

Odd-e Singapore - Goodland Building
18 Roberts Lane, #05-01 · 218297


problem
language/
technique
editor/
environment

home

https://cyber-dojo.org

Incognito (3)

cyber-dojo

the place to practice programming

i'm on my own

we're in a group

https://cyber-dojo.org/setup_d

https://cyber-dojo.org/setup_default_start_point/show/?from=individual

Incognito (3)

create my new session

language, test-framework?

- Javascript, Cucumber
- Javascript, Mocha+chai+sinon
- Javascript, assert
- Javascript, assert+jQuery
- Javascript, jasmine
- Javascript, qunit+sinon
- Kotlin, Kotlintest
- PHP, PHPUnit
- Pascal (FreePascal), assert
- Perl, Test::Simple
- Python, assert
- Python, behave
- Python, pytest
- Python, unittest
- R, RUnit
- Ruby, Approval
- Ruby, Cucumber

exercise?

- LCD Digits
- Leap Years
- Magic Square
- Mars Rover
- Mine Field
- Monty Hall
- Number Chains
- Number Names
- Phone Numbers
- Poker Hands
- Prime Factors
- Print Diamond
- Recently Used List
- Remove Duplicates
- Reordering
- Reverse Roman
- Reversi

```
Given a letter print a diamond starting with 'A'
with the supplied letter at the widest point.

For example: print-diamond 'E' prints

    A
   B B
  C   C
 D     D
E       E
 D     D
  C   C
   B B
    A

For example: print-diamond 'C' prints

  A
 B B
C   C
 B B
  A
```

Tweet accu PRAQMA

print diamond

```
$ diamond B

 A
B B
 A
```

```
$ diamond C

  A
 B B
C   C
 B B
  A
```

print diamond

```
  A
 B B
C   C
 B B
  A
```

```
  C
 B B
A   A
 B B
  C
```

```
  X
 X X
X   X
 X X
  X
```

```
A
BBB
CCCC
BBB
A
```

```
A
BAB
CBABC
BAB
A
```

```
X
X*X
X***X
X*X
X
```

hello FizzBuzz

```python
def fizzbuzz(n):
    if n % 15 == 0:
        result = 'FizzBuzz'
    elif n % 5 == 0:
        result = 'Buzz'
    elif n % 3 == 0:
        result = 'Fizz'
    else:
        result = str(n)
    return result

```

```python
from fizzbuzz import fizzbuzz

examples = [
    (1, '1'),
    (2, '2'),
    (3, 'Fizz'),
    (6, 'Fizz'),
    (5, 'Buzz'),
    (10, 'Buzz'),
    (15, 'FizzBuzz'),
    (30, 'FizzBuzz'),
]


def test_fizzbuzz():
    for number, result in examples:
        assert fizzbuzz(number) == result

```

hello FizzBuzz

```
1 def fizzbuzz(n):
2     if n % 15 == 0:
3         result = 'FizzBuzz'
4     elif n % 5 == 0:
5         result = 'Buzz'
6     elif n % 3 == 0:
7         result = 'Fizz'
8     else:
9         result = str(n)
10    return result
11
```

```
1 def fizzbuzz(number):
2     if is_divisible_by(number, 15):
3         return 'FizzBuzz'
4     if is_divisible_by(number, 5):
5         return 'Buzz'
6     if is_divisible_by(number, 3):
7         return 'Fizz'
8     return str(number)
9
10
11 def is_divisible_by(n, d):
12     return n % d == 0
13
```

tips for practice sessions

Practice regularly

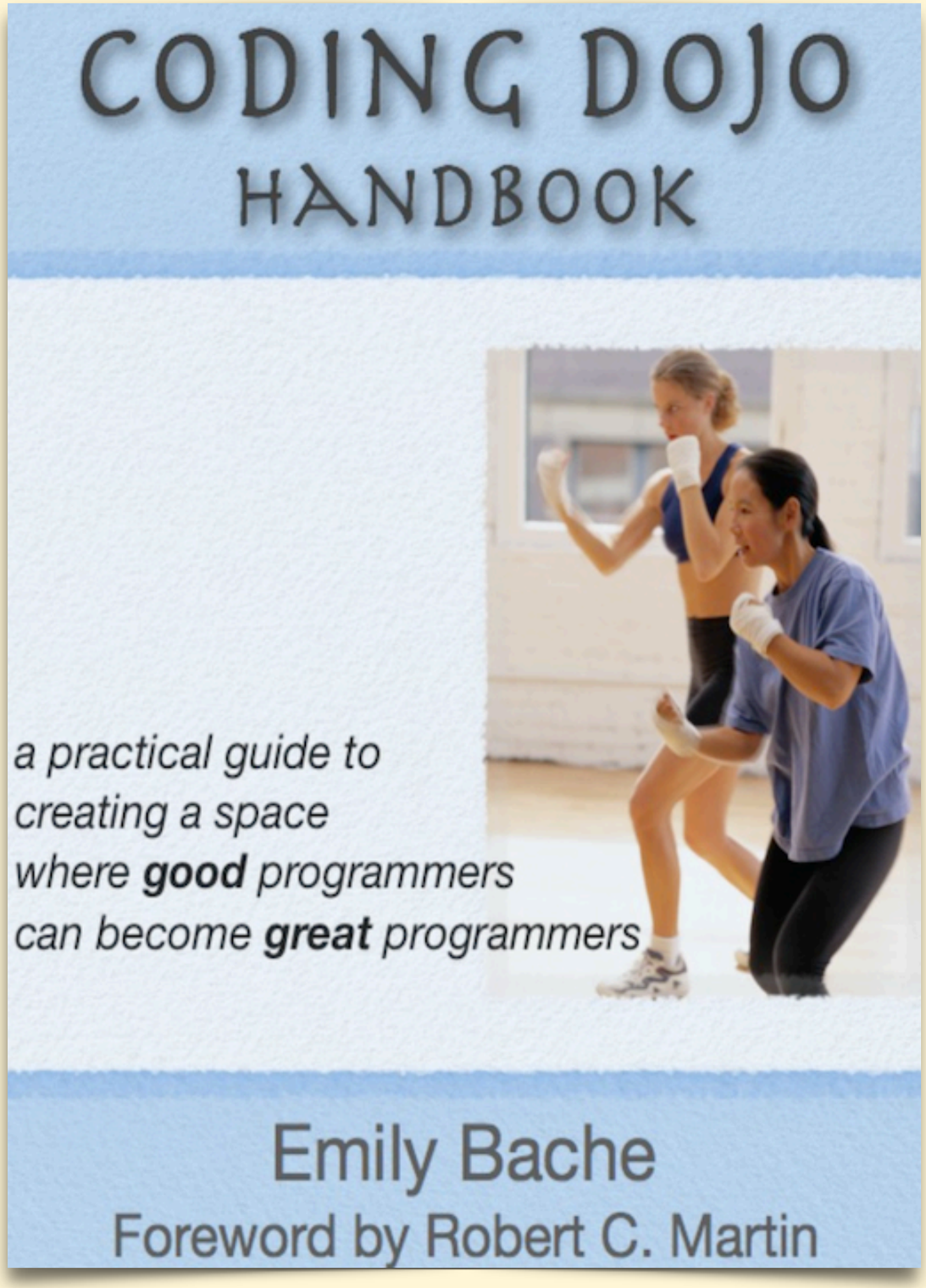
Do it in a group

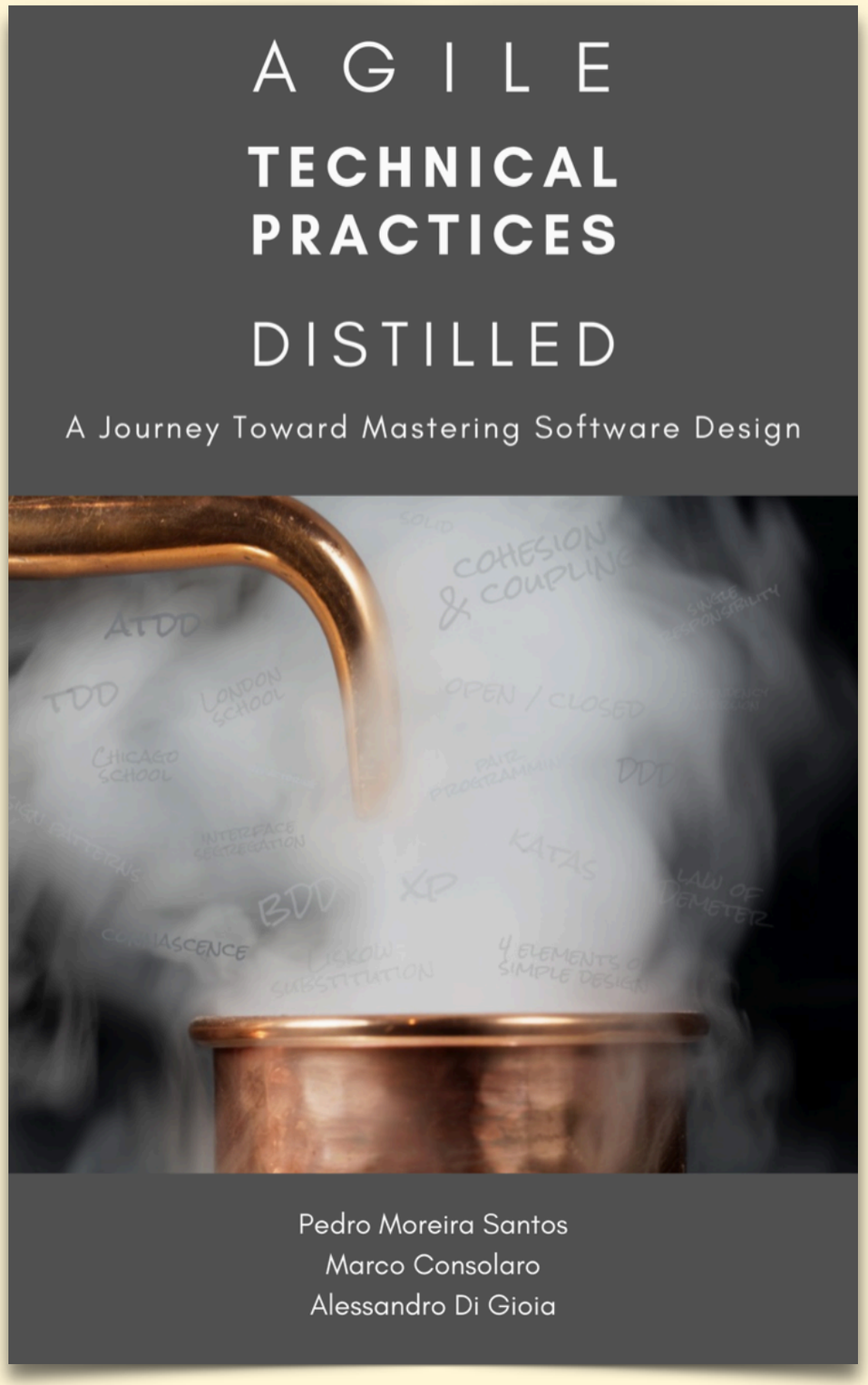
Allow others to surprise you

Retrospect

Try several new things at the same time

Let naive and/or disruptive people in


CODING DOJO
HANDBOOK
a practical guide to
creating a space
where good programmers
can become great programmers
Emily Bache
Foreword by Robert C. Martin


AGILE
TECHNICAL
PRACTICES
DISTILLED
A Journey Toward Mastering Software Design
Pedro Moreira Santos
Marco Consolaro
Alessandro Di Gioia

SoCraTes - The Conference for

https://www.socrates-conference.de/home

Incognito (3)

SoCraTes 2019 | Format | Location | Values | Accessibility | FAQ | History | Imprint | Privacy policy | 2019 schedule | Guest

SoCraTes 2019

has ended.

But we will be back for the

10th International Conference for Software Craft and Testing

August 27 - 30, 2020 • Soltau, Germany

(Hint: It's always the last weekend of August!)

See the 2019 schedule!

Partner Conferences

SoCraTes Chile
Santiago de Chile

SoCraTes Canaries
Gran Canaria, Spain

SoCraTes Italy
Rimini, Italy

SoCraTes UK
Dorking, England

Software Craftsmanship Unconference
Atlanta, GA, USA

JS CraftCamp
Munich, Germany

SoCraTes Day Switzerland
Zurich, Switzerland

SoCraTes Austria
Linz, Austria

SoCraTes France
Rochegude, France

SoCraTes BE
La Roche-en-Ardenne, Belgium

CodeFreeze
Kiilopää, Finland

SoCraTes Conference Switzerland
Ftan, Switzerland

I T.A.K.E. Unconference
Bucharest, Romania

Our Sponsors

Coderetreat

10th Anniversary in 2019!

a day-long, intensive practice event, focusing on the fundamentals of software development and design, away from the pressures of 'getting things done'

Global Day of Coderetreat

November 16th (or 15th), 2019

For the 10th anniversary, we will promote events that happen either on Friday, Nov 15th or Saturday, Nov 16th. Traditionally, the Global Day of Coderetreat takes place on Saturdays, but we also want to invite companies to promote educational opportunities for their employees by hosting a public coderetreat on Friday. We further want to open the event to people who can not participate in events over the weekend.

As a local event organizer, it is up to you to decide whether to host an event on Friday or Saturday, or even both 🎉 .

Ack

Learning is not compulsory… neither is survival.

— W. Edwards Deming

Thank you

ivan@odd-e.com