



A day to celebrate being a programmer (or working with them)

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```
3.times do
   speaker.call "hip hip"
   audience.respond "hurray!"
end
```

3.times do
 speaker.call "hip hip"
 audience.respond "hurray!"
end

Agenda

- What makes programmers valuable?
- Some concerns about the profession
- Hints of new directions

So who's this guy on stage?

Laurent Bossavit
Twitter:@Morendil



Programmer. Geek, since forever.





a practical quide to creating a space where good programmers can become great programmers

> **Emily Bache** Foreword by Robert C. Martin

The Coding Dojo Handbook

a practical guide to creating a space where good programmers can become great programmers





Emily Bache

Includes three convenient formats

- = PDF (for Mac or PC)
- = EPUB (for iPad, iPhone, and other ebook readers)
- MOBI (for Kindle)

Buy Now

Minimum: \$15.00 Suggested: \$20.00+ # 100% HAPPINESS GUARANTEE

Co-inventor, Coding Dojo



Agile Coach (hate the title, still code)



Home The Alliance Events Resources Community Groups

Planning poker

furthering the practice. (Alliance members are entitled to discounted registration.)

Point estimates

NEWS PROGRAMS MEMBERSHIP SPONSORSHIP

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Ready estimation Role-Feature BDD ATDD

Backlog grooming

In chart

As part of our commitment to supporting the broad adoption of Agile methods, the Agile Alliance hosts an annual conference. Agilists the world over come together for an exciting week of exchanging ideas, meeting peers, and

Given-When-

The Conference Archive is our permanent record of sessions held at the annual conference, it provides easy access to conference descriptions and supporting materials (papers, presentations, and videos).

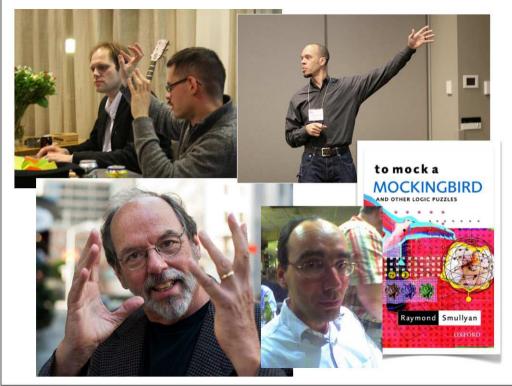
The published Web sites of past conferences are also available, for the most part, in their original form.

Sessions (2101)

Keyword	(e.g. "scrum" or "TDD" or speaker's name)
With records	Show only sessions with records in PDF, PPT or video formats
	Search

Coding for the Agile Alliance

Some of my favorite programmers



So, programmers are cool...

...but...

aeon

Are coders worth it?

In today's world, web developers have it all: money, perks, freedom, respect. But is there value in what we do?

by James Somers 3,600 words Read later or Kindle



What programmers are "worth it"?



Rock stars?



Ninjas?



Become a Certified Agile Software Specialist!

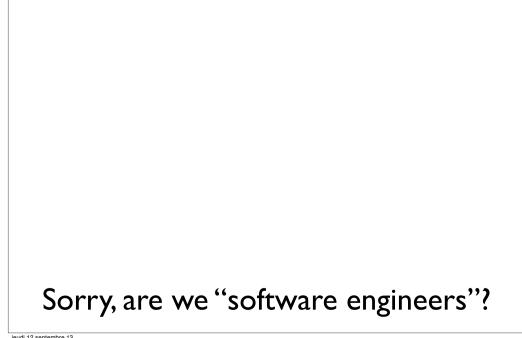
The Fastest Certification On The Web

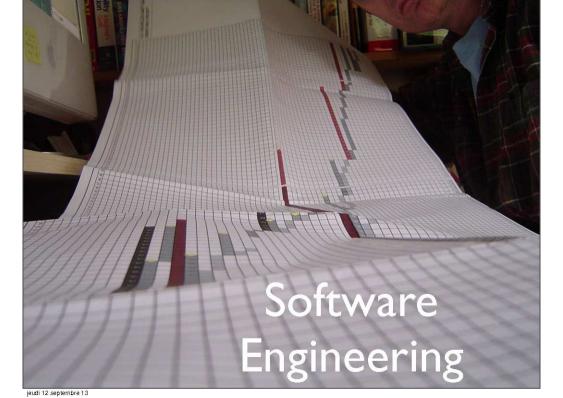
Do you want a prosperous future, increased earning power, more money and the respect of all?

Receive certification as an Agile Software Specialist (ASS)! There are no tests. classes, books or interviews! Get a certificate of expertise in Agile Software Development! Receive the benefits and admiration that comes with certification! No one is turned down!

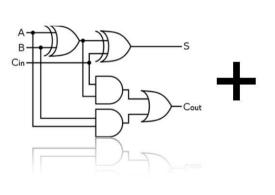
Best of all, when you certify with us, you join our database of certified ASSs.

(Certified) Agile devs?





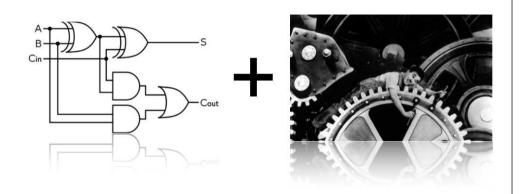
Software engineering



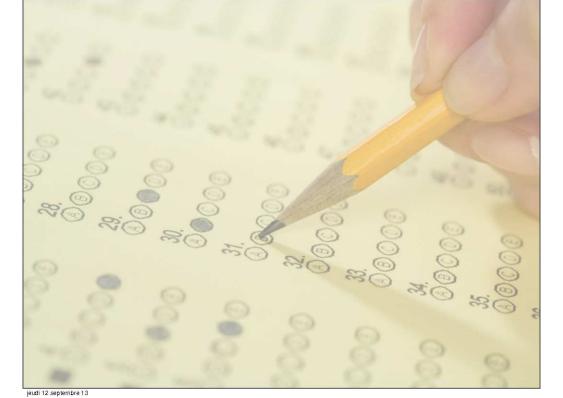


As originally conceived

Software engineering



As realized



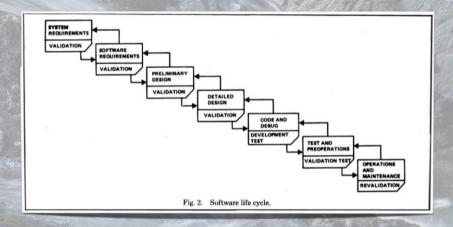
Topics covered:

- Requirements
- Design
- Construction
- Testing
- Maintenance
- Configuration Management
- Engineering Processes
- Quality Assurance
- Safety, Security and Privacy



jeudi 12 septembre 13

(From Boehm, 1976)



"While TDD is of great interest to the software engineering community, it seems to be a topic that is too close to industrial practice to be of interest to a research conference."

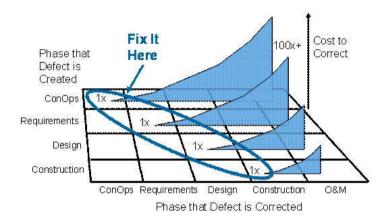
-- Anonymous reviewer rejecting proposal for a workshop on TDD at ICSE



MOBI (for Kindle)

Minimum: \$5.00

Riddled with myths ("leprechauns")



Relative cost to fix errors: U.S. Fed.Hwy. (2007), after McConnell

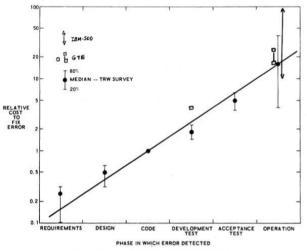


Fig. 3. Software validation: the price of procrastination.

Relative cost to fix errors: Boehm (1976)

What did the data actually say?

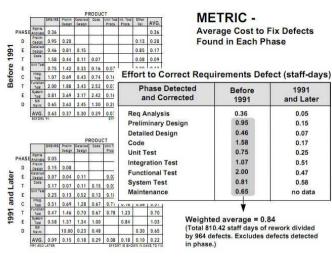
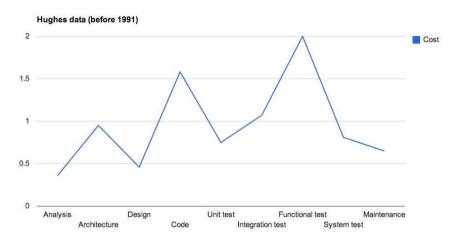


Figure 25 Analysis of Quality Indicator data resulted in requirements review efficiency improvements that reduced overall effort.

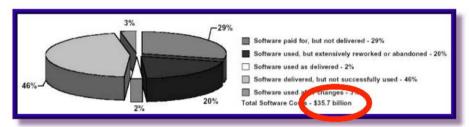
54 CMU/SEI-98-TR-006

Hughes Aircraft (1998)



Hughes Aircraft (1998)

Agile Leprechauns



\$35.7 billion - 75% waste (DoD projects)

"Requirements Risks Can Drown Software Projects" (Leishman, 2002)



"A 1999 review of failure rates in a sample of earlier DoD projects drew grave conclusions: Of a total \$37 billion for the sample set, 75% of the projects failed or were never used, and only 2% were used without extensive modification."

-- C. Larman, 2003

Also cited by Benefield, Korhonen, Knoernschild, Gilb, Sutherland, Leitass, Leinonen, Martin (ObjectMentor), etc. (indirect cite via Larman in many cases) BY THE COMPTROLLER GENERAL

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Report To The Congress

OF THE UNITED STATES

Contracting For Computer Software Development--Serious Problems Require Management Attention To Avoid Wasting Additional Millions

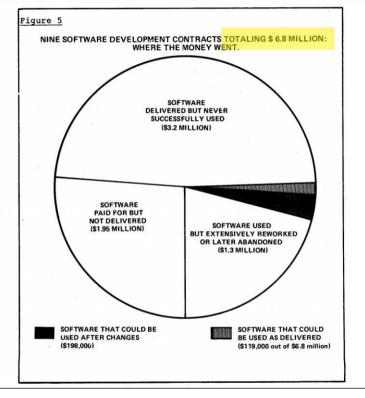




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FGMSD-80-4

GAO examined nine cases of software development in detail. Eight had problems, but their overall performance cannot be taken as representative—some came to GAO's attention because they were failures. Nevertheless, the cases illustrated many of the same causes of difficulty that GAO's questionnaire respondents had identified.



The rise of NoX

- "No documentation"
- NoBugDatabase
- NoSQL
- NoEstimates



Are we doomed?

What's the problem, really?

- "A perfectly rational person is one who always has a good reason for what he does. [...] Most of us like to think of ourselves as rational professionals."
- -- Parnas & Clemens, "A rational design process: how and why to fake it"



We are not this guy



It's not what you know.
It's not what you're called.
It's not what you do.

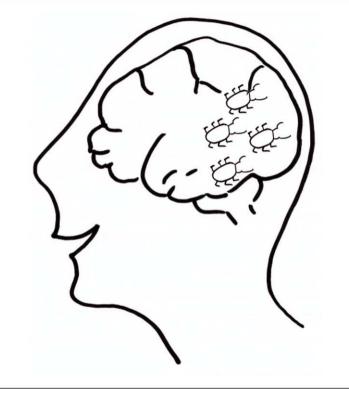
It's how well you think.

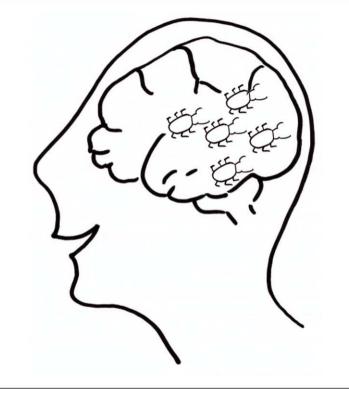


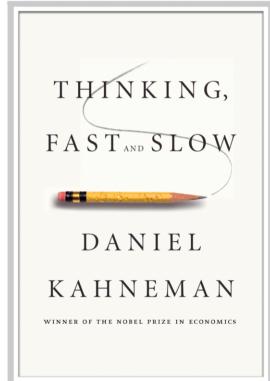












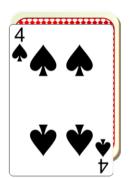






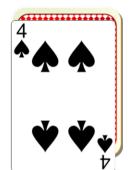






















Confirmation bias: Wason test

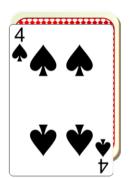






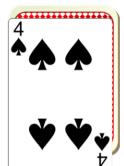








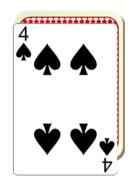














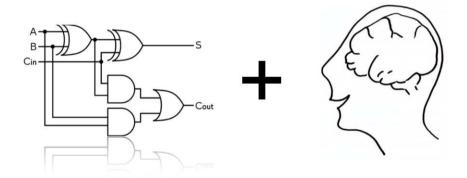
"Vowel on one side => even number on the other"





Instant improvement

What we need:

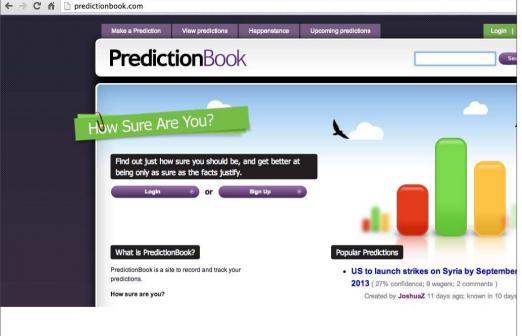




Example

- Bug: we suck at estimating, especially when it comes to future events
- Workarounds: management pressure, schedule games, NoEstimates

 Actual bug fix: "rewire" our intutions about probabilities, by repeated practice



The Art of Being Wrong

"If you are the smartest person in the room, you are in the wrong room"



Coding dojos - keep learning

"If you manage people or are a parent (which is a form of managing people), drop everything and read Mindset."

—Guy Kawasaki, author of The Art of the Start

mindset THE NEW PSYCHOLOGY OF SUCCESS

HOW WE CAN
LEARN TO FULFILL
OUR POTENTIAL

*parenting

*business

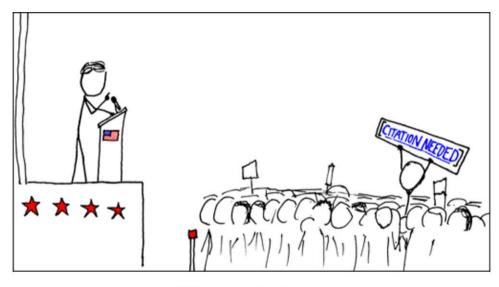
*school

*relationships

"Will prove to be one of the most influential books ever about motivation."

—Po Bronson, author of NurtureShock

CAROL S. DWECK, Ph.D.



Skepticism



"We are all in the gutter, but some of us are looking at the stars" -- Oscar Wilde

Thank you!

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