

Lean & Agile

Diego Pacheco



About Me



- ❑ Cat's Father
- ❑ Principal Software Architect
- ❑ Agile Coach
- ❑ SOA/Microservices Expert
- ❑ DevOps Practitioner
- ❑ Speaker
- ❑ Author



diegopacheco



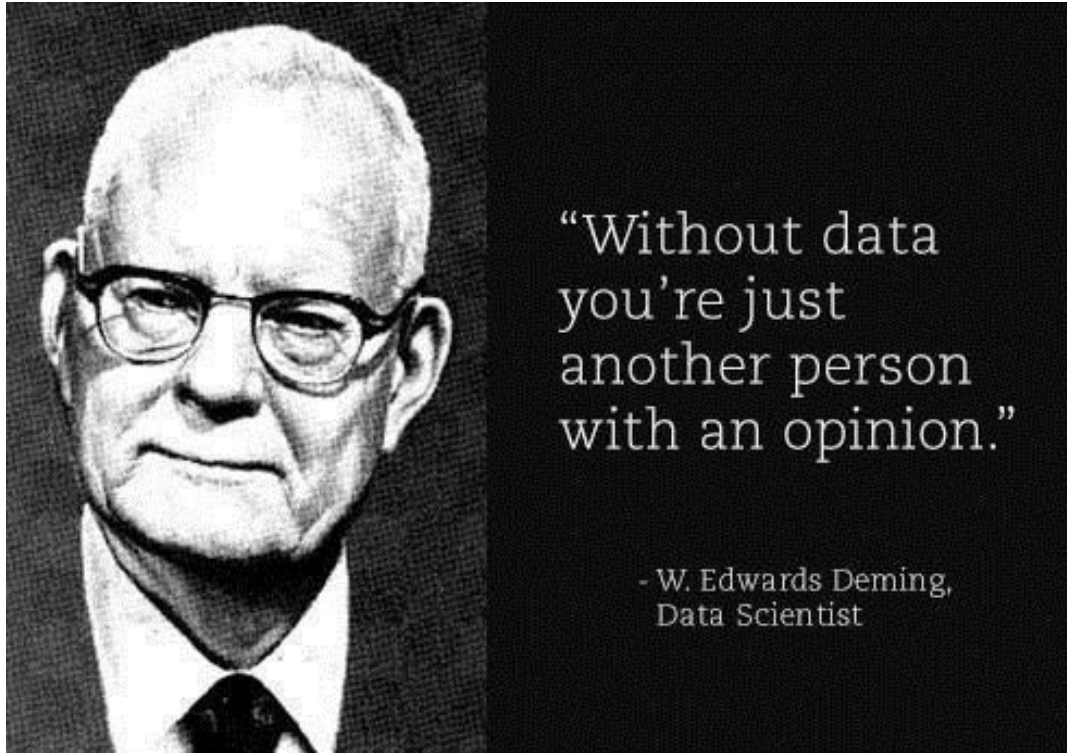
@diego_pacheco



<http://diego-pacheco.blogspot.com.br/>



Lean == Deming



A portrait of Thomas Jefferson, an older man with white hair, wearing a dark coat and a white cravat. The portrait is on the left side of the image, with a blue diagonal banner in the top left corner containing the word "Principles".

Principles

“In matters of style,
swim with the current;
in matters of principle,
stand like a rock.”

– Thomas Jefferson

Lean: Mature Organization

Assumption 1: A mature organization looks at the whole system; it does not focus on optimizing disaggregated parts.

Assumption 2 A mature organization focuses on learning effectively and empowers the people who do the work to make decisions.

Lean



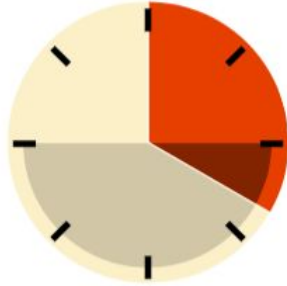
Why do it at all ?
Remove Waste



7 Wastes of Lean



Inventory



Waiting



Defects



Overproduction



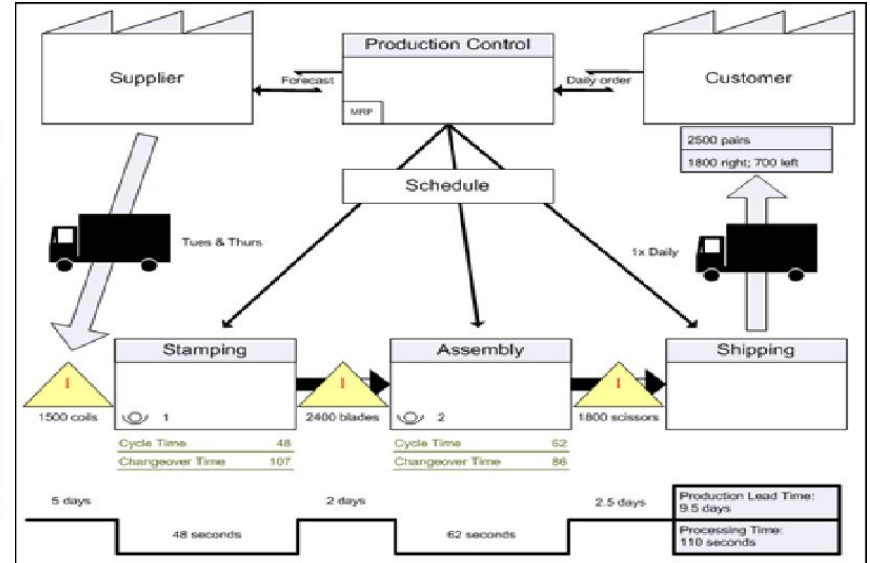
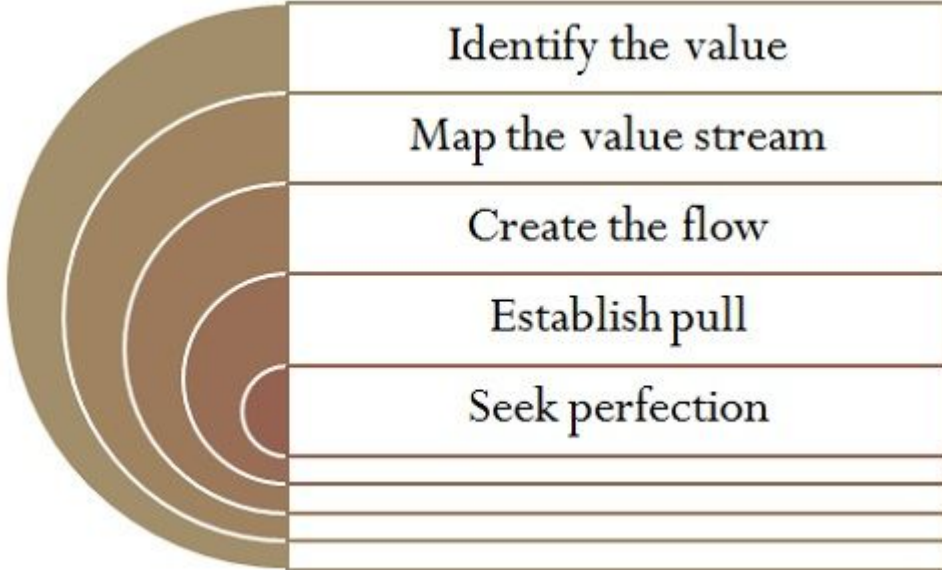
Motion



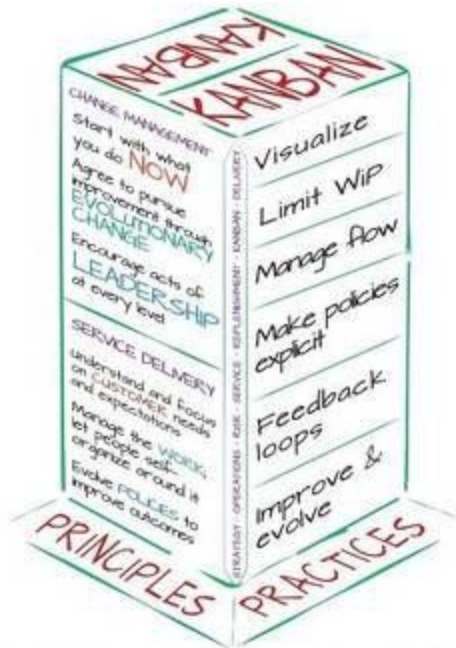
Transportation



Over-processing



ESSENTIAL KANBAN CONDENSED



DAVID J ANDERSON

ANDY CARMICHAEL

How do I test If I'm doing Kanban?

2014 Kanban Litmus Test

1. Have managers changed their behavior?
2. Has the customer interface changed?
3. Has the customer contract changed?
4. Has the service delivery business model changed?

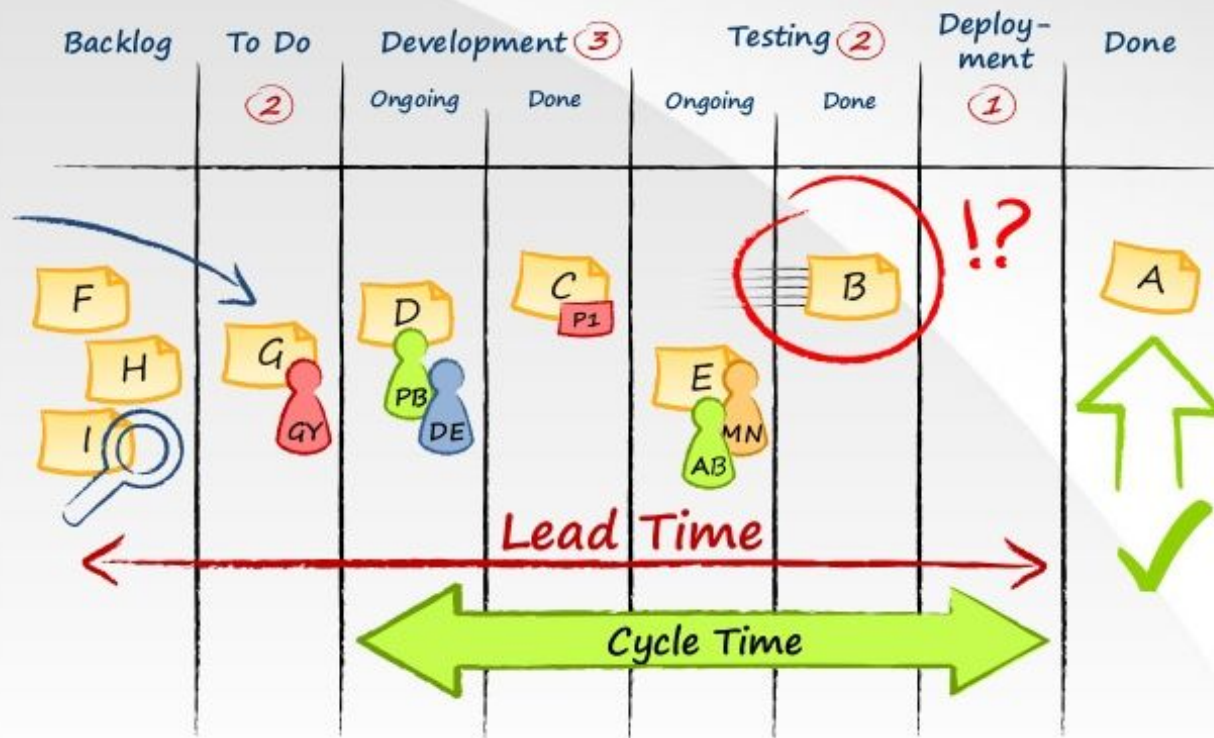
If you can't answer yes to at least 2 of these questions you aren't doing Kanban yet!



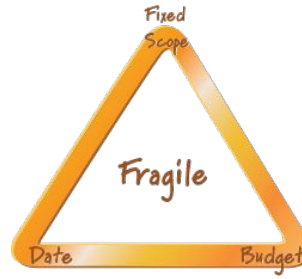
dja@dja.com, @dja_dja

David J Anderson
& Associates, Ltd.

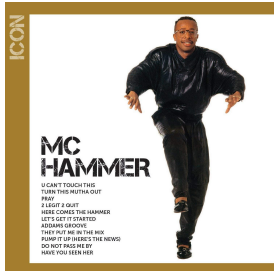
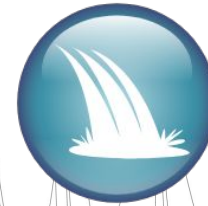
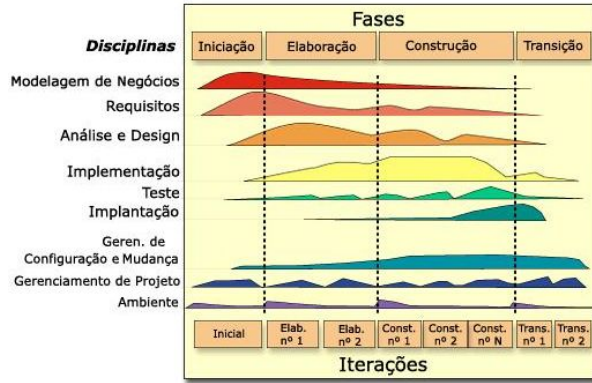
Example Kanban Board



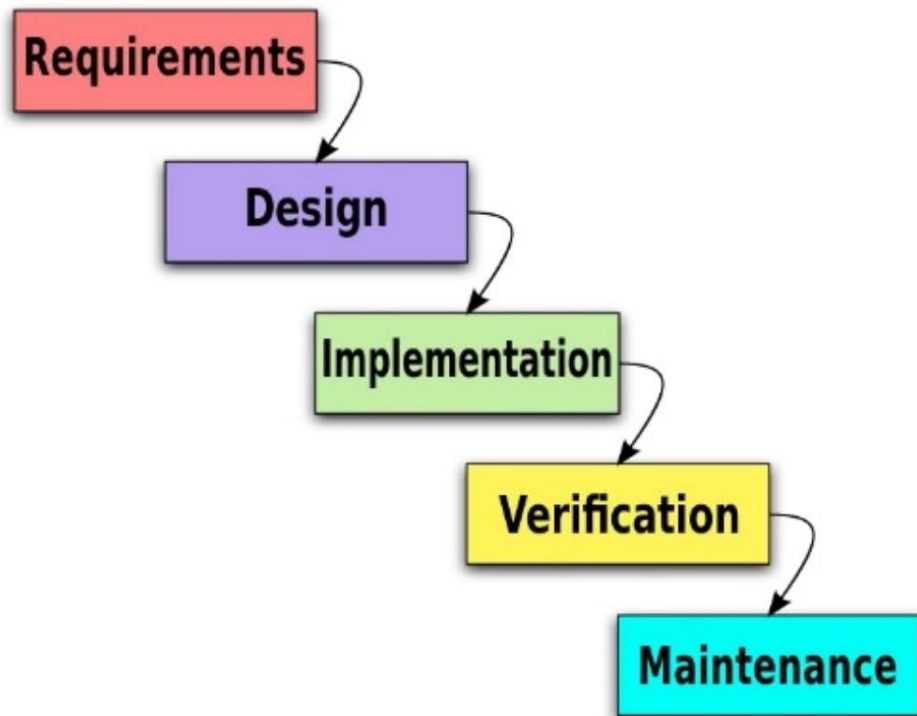
90s..2k



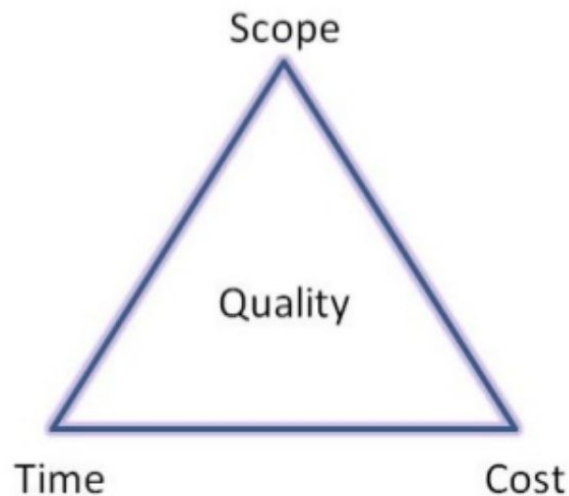
RUP




Waterfall



- ☐ What is software?
- ☐ Buy X Sell
- ☐ ALL FIXED
- ☐ Low Feedback
- ☐ BDUP
- ☐ Dev X Ops X ...



A background image showing a group of people in a meeting, with some individuals pointing at a screen or document. The image is slightly blurred and has a warm, yellowish tint.

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it.
Through this work we have come to value:

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Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

**“Discipline is doing
what you don’t want
to do when you
don’t want to do it.”**

Posted in the wrestling room at
Graham High School, St. Paris, OH

The **AGILE** Manifesto

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Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

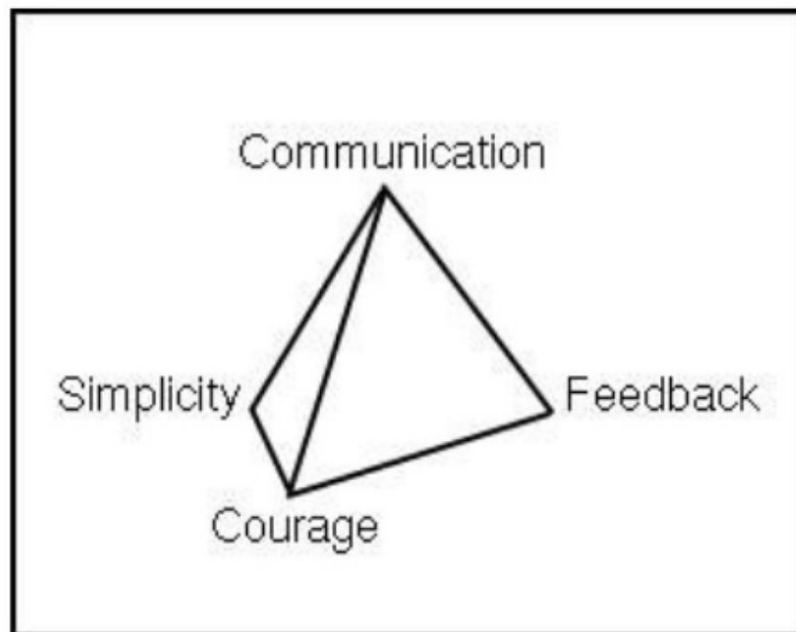
Kent **Beck** Mike **Beedle** Arie **van Bennekum** Alistair **Cockburn**
Ward **Cunningham** Martin **Fowler** James **Grenning** Jim **Highsmith**
Andrew **Hunt** Ron **Jeffries** Jon **Kern** Brian **Marick** Robert **C. Martin**
Steve **Mellor** Ken **Schwaber** Jeff **Sutherland** Dave **Thomas**

12 Principles of Agile Software

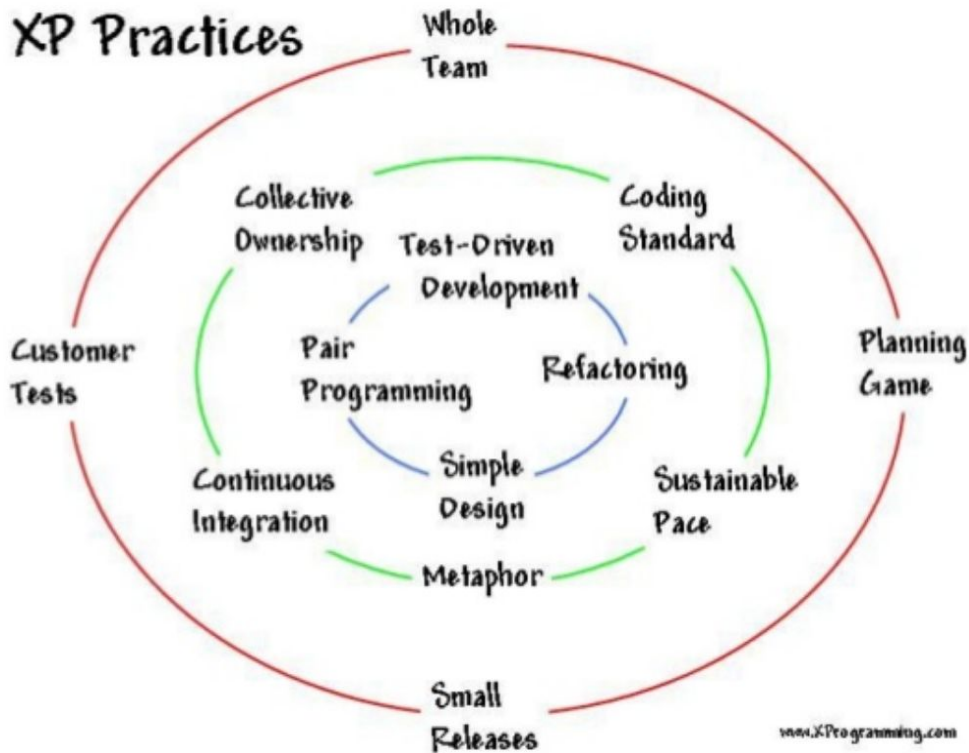
- 01** Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
- 02** Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- 03** Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- 04** Business people and developers must work together daily throughout the project.
- 05** Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
- 06** Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- 07** Working software is the primary measure of progress.
- 08** The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.
- 09** Continuous attention to technical excellence and good design enhances agility.
- 10** Simplicity—the art of maximizing the amount of work not done—is essential.
- 11** The best architectures, requirements, and designs emerge from self-organizing teams.
- 12** At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.



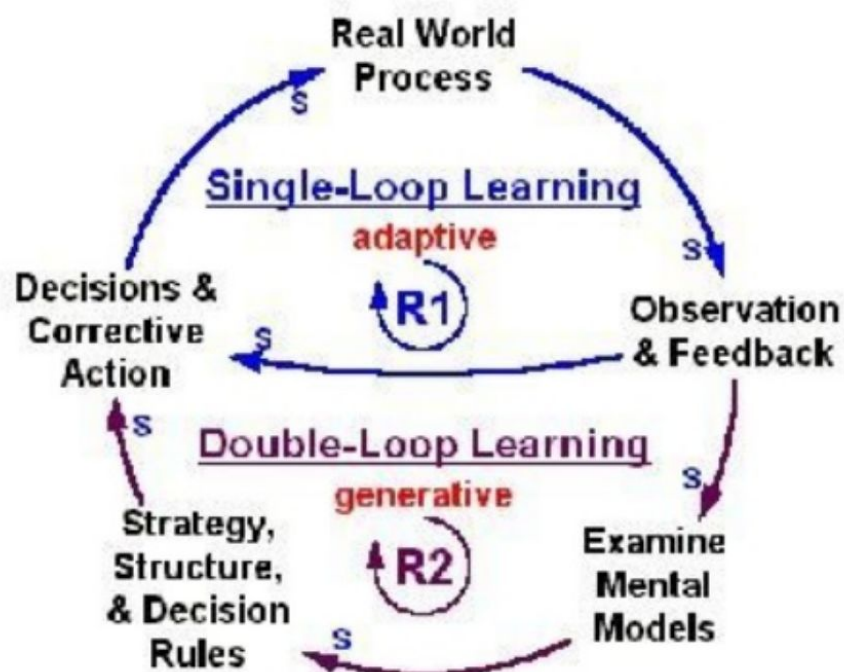
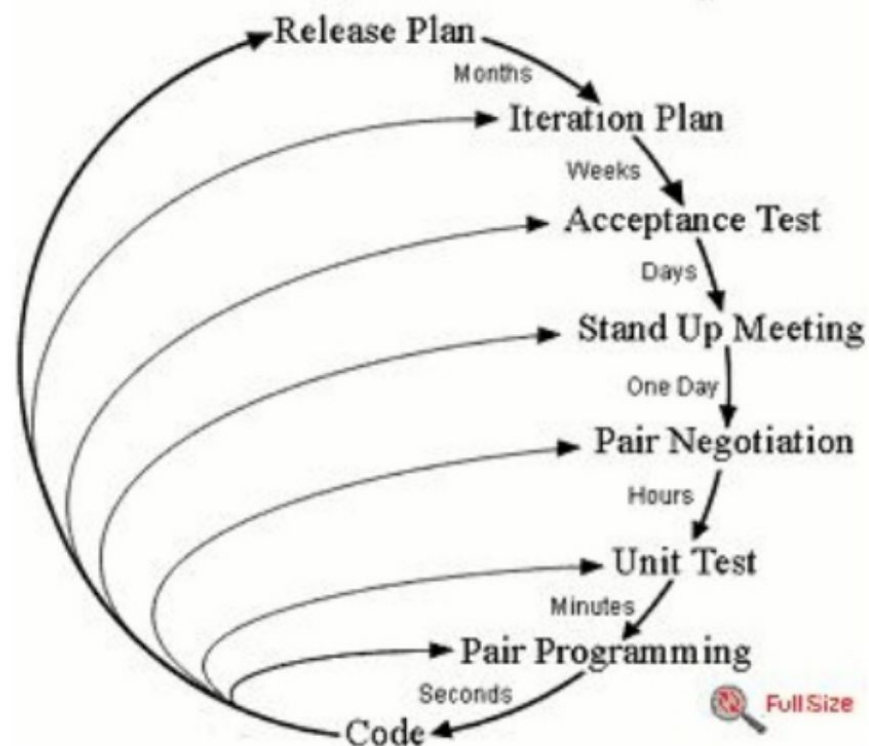
XP



XP Practices

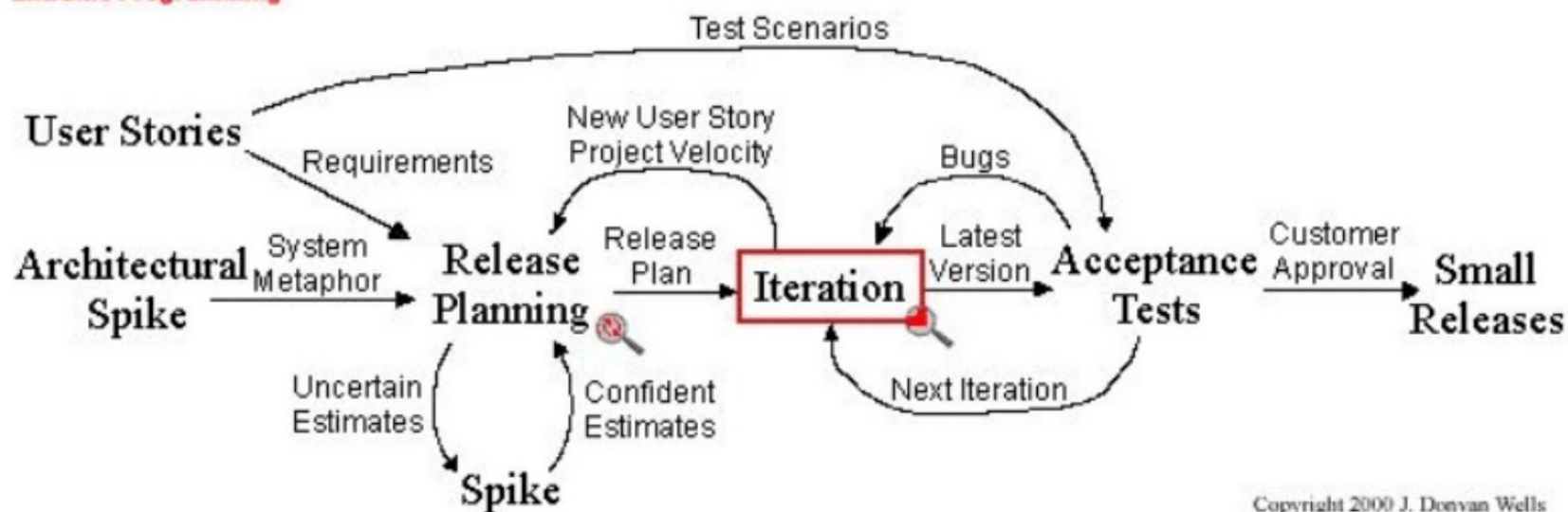


Planning/Feedback Loops





Extreme Programming Project

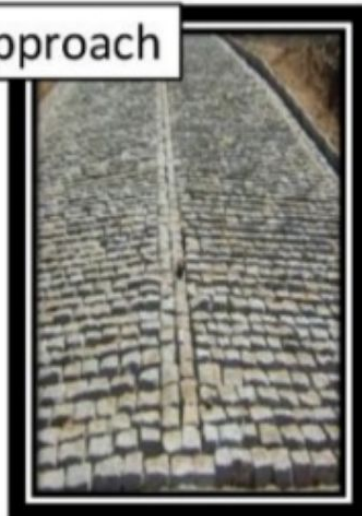


XP Dimensional Quality

XP Evolutionary Approach



Chão Batido



Paralelepípedo



Autoestrada



XP SMART / INVEST

Help people to work around stories...

Como usuário <USER>
Eu quero <FUNCTIONALITY>
(Então isso <BENEFIT>)

INVEST in Good Stories, and SMART Tasks

I - Independent
N - Negotiable
V - Valuable
E - Estimable
S - Small
T - Testable

S - Specific
M - Measurable
A - Achievable
R - Relevant
T - Time-boxed



XP Paring

pair programming

driver

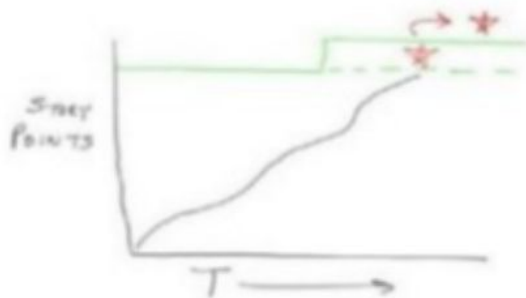
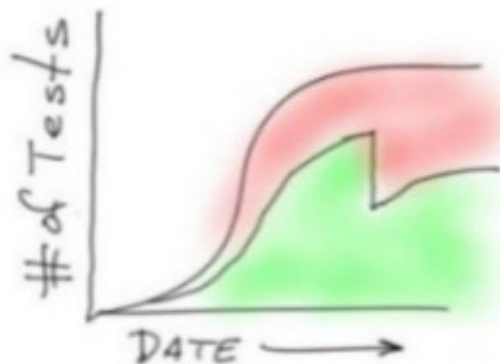
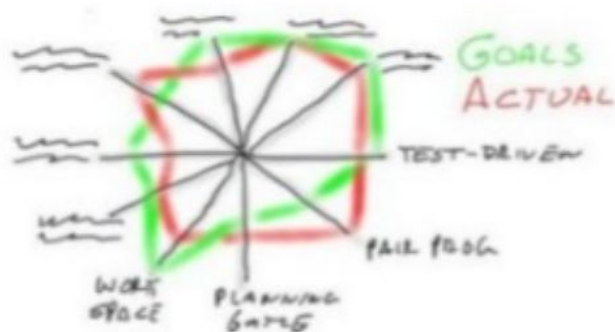
typing
micro-concerns
syntax
formatting
line-by-line
getting the
test to pass

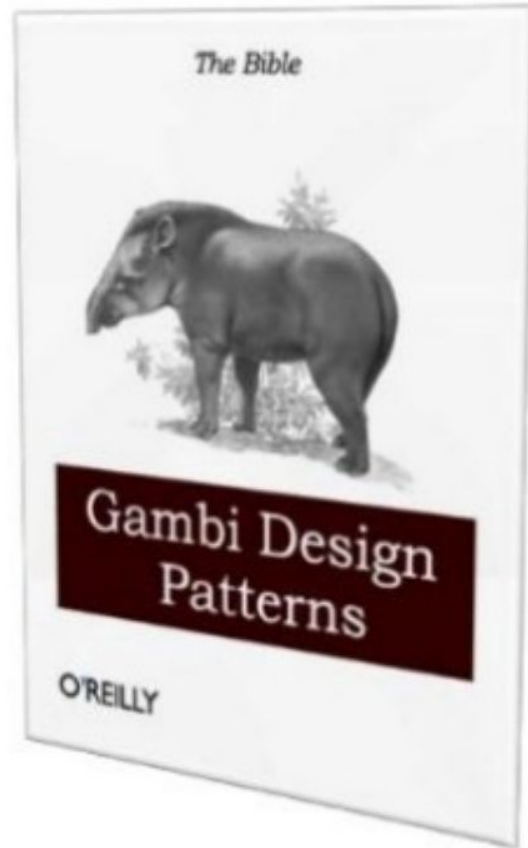
navigator

thinking
macro-concerns
right class?
refactor?
algorithm?
using design
patterns

Big Visible Charts

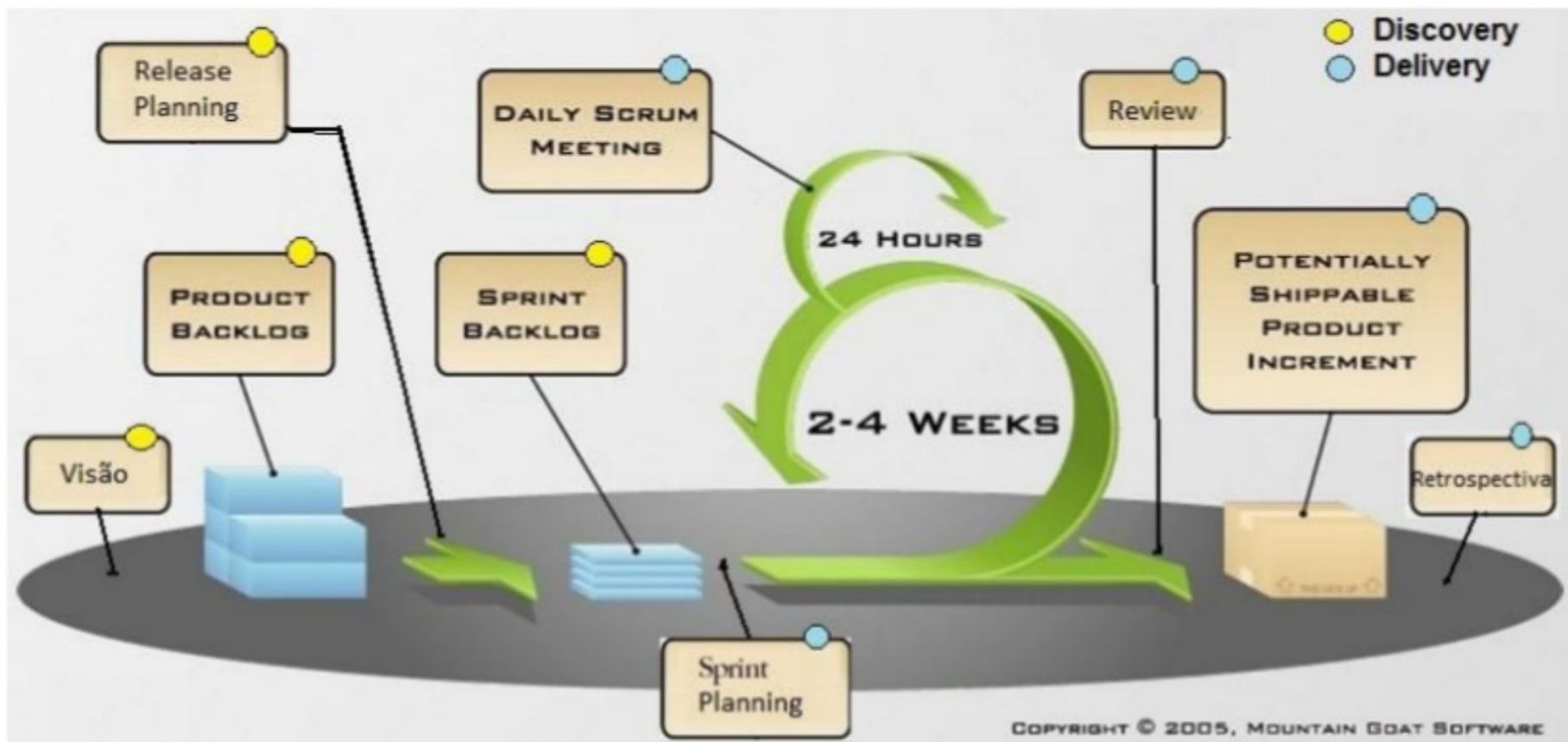
PRACTICE RADAR CHART



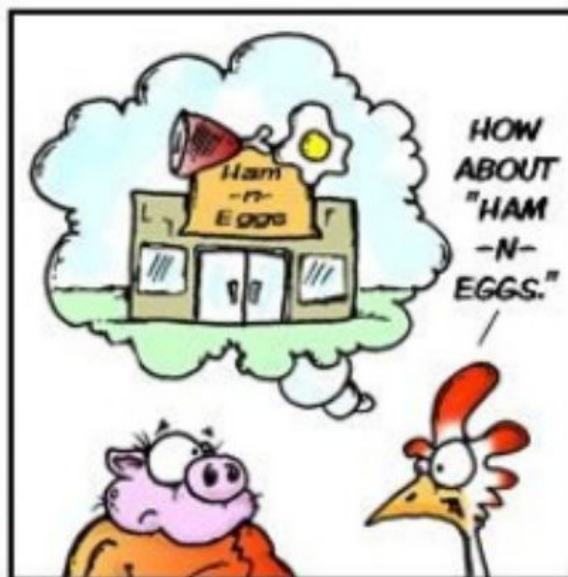


Technical Debt







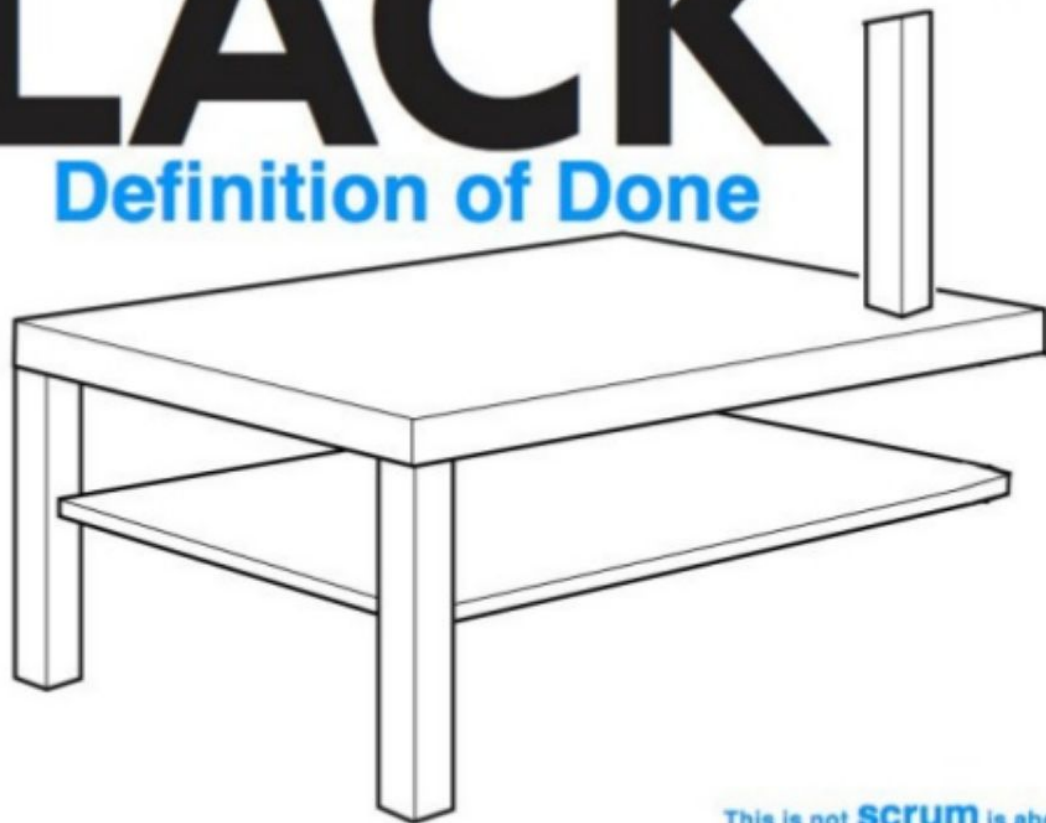


By Clark & Vizdos

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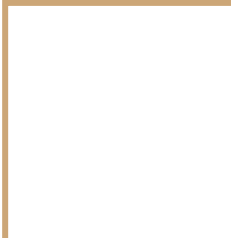
LACK^{ING}

Definition of Done



This is not **scrum** is about

0	$\frac{1}{2}$	1	2	3	5
8	13	20	40	100	?



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