



Agile, Testing, and Quality: Looking Back, Moving Forward

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Agility for Testers

Presented at PNSQC 2004
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New (or New-ish) in 2004



Agile-Testing Yahoo! Group
Started (2001)

Agile Fusion (2003)

Watir released (2004)

Martin Fowler posts
“Mocks Aren’t
Stubs” (2004)

Ken Schwaber, *Agile Project
Management with Scrum* (2004)



2005



The Agile Development Conference and XP/Agile Universe Merged into the Agile20XX Conference s

First Agile Open Conference (Belgium)



Rick Mugridge and Ward Cunningham, *Fit for Developing Software.*

2006



Dan North's article introducing BDD published in Better Software Magazine.

RSpec Released.



Selenium & Selenium RC Released.



Green Pepper Released.

Jonathan Kohl posts "Post-Agilism."



2007



First Agile Open
Northwest & Agile Open
CA Conferences

Concordion Released

Lasse Koskela *Test Driven*



Jim Shore and Shane Warden,
Art of Agile



TD-DT Summit

Agile Alliance Functional Testing Tools
program founded, first meeting

Kanban takes root

2008

Cucumber released



Twist released (early access)

Robot Framework open sourced

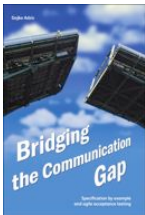


Slim update to Fitnesse

UX Community descends on Agile2008 conference. Alan Cooper keynotes.

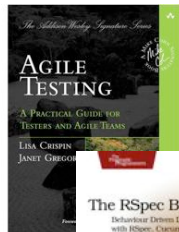


2009



Gojko Adzic, *Bridging the Communication Gap*

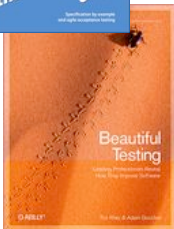
Lisa Crispin and Janet Gregory, *Agile Testing*



David Chelmsky, Dave Astels, et al *The RSpec Book*



Adam Goucher and Tim Riley, *Beautiful Testing*



Software Craftsmanship Conference



Software CRAFTSMANSHIP north america



Brian Marick starts the Artisanal Retro-Futurism crossed with Team-Scale Anarcho-Syndicalism (ARxTA) Movement

Agile Skills Project Launched

Evidence of Widespread Adoption

Methods and Tools Survey

<http://www.methodsandtools.com/dynpoll/oldpoll.php?Agile2>

In 2005, 55% reported investigating, piloting, implementing/deployed Agile

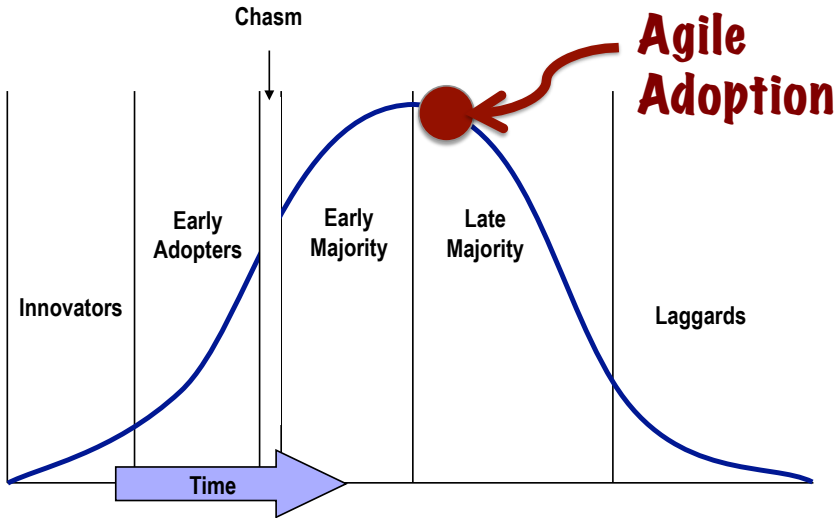
In 2008 that number was up to 70%

2008 Dr. Dobbs Agile Adoption Survey

<http://www.ambysoft.com/surveys/agileFebruary2008.html>

“69% of respondents indicated that their organizations are doing one or more agile projects”

Agile is Mainstream



Source: Geoffrey Moore, *Crossing the Chasm*

And That Means... ?



Well, er, no...

We can't do a full regression within the Sprint!

That's because it's a legacy system with no automation.



And we have too many more stories to do.

Because the business insists they all have to be delivered this sprint.

Agile Diluted

frAgile
ScrumBut
Scrummerfall

Eight Key Testing Practices in Agile

ATDD

TDD

Exploratory
Testing

Automated
System Tests

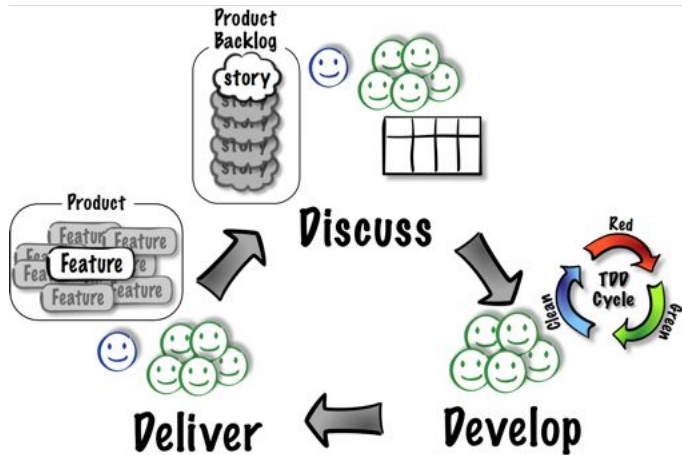
Automated
Unit Tests

Collective
Test
Ownership

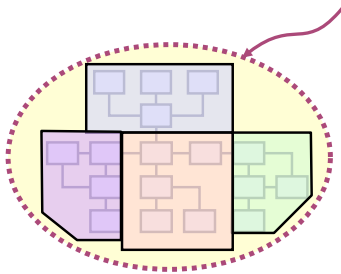
Continuous
Integration

Rehearse
Delivery

Acceptance-Test Driven Development (ATDD)

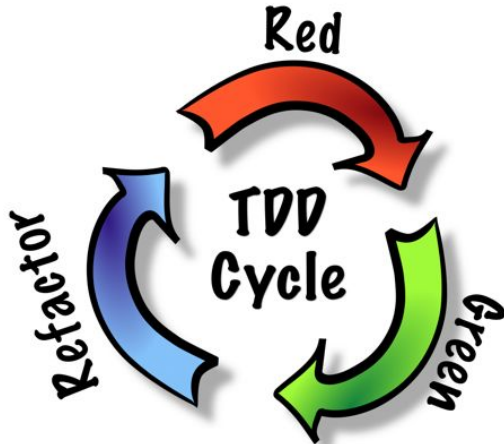


Automated System-Level Regression Tests

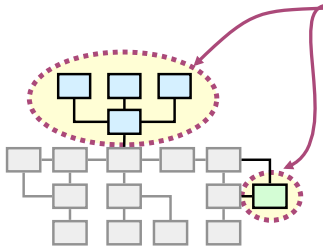


- Are **business-facing**, written by various members of the team in collaboration
- Express expectations about externally verifiable behavior
- Represent executable requirements

Test Driven Development (TDD)



Automated Unit Tests



- Are ***code-facing***, written by programmers to support the coding effort
- Express expectations of the internal behavior of the code
- Isolate element(s) under test
- Execute quickly and often

Exploratory Testing



Simultaneously...

...learning about the software

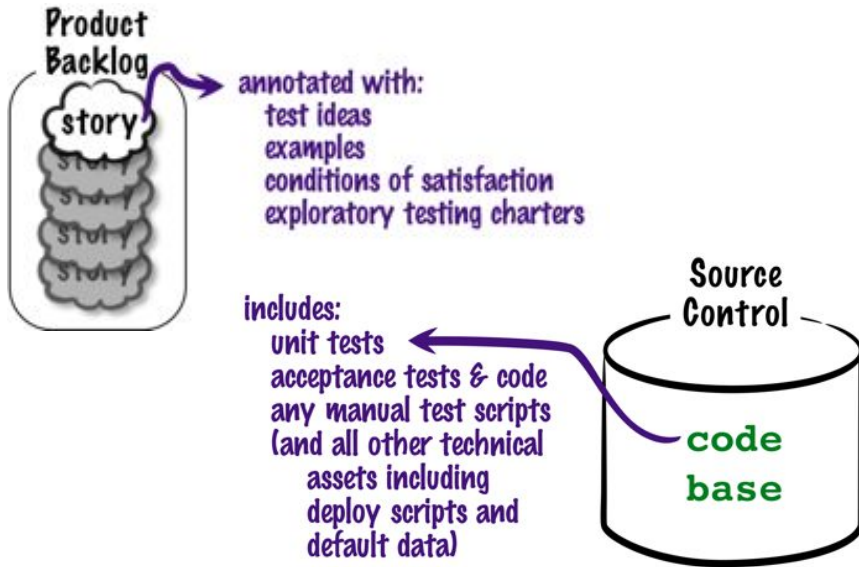
...designing tests

...executing tests

*using feedback from the last
test to inform the next*

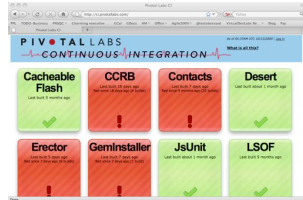
*(See Jon and James Bach's work on Session-Based
ET)*

Collective Test Ownership



Continuous Integration (CI)

CI tools do automated builds, execute tests, and report the results

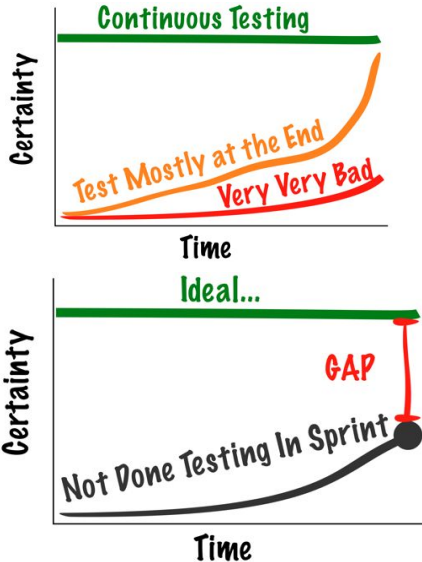


Developers practicing CI merge their changes locally & execute tests before checking in

Rehearse Delivery

**Until we ship or deploy,
we don't know what
impediments we'll run
into on release.**

Consider Certainty v. Time



Within a
Release

Within a
Sprint

What Does Agile Really Mean?

Agile software teams...

- ...Deliver value in the form of releasable software at frequent regular intervals (at least monthly)...
- ...At a sustainable pace...
- ...While adapting to the changing needs of the business.

And the Future?



Practices...

Methods...

Communities...

Tools...

Many thanks to everyone on Twitter who suggested key events for the Agile timeline.