



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

Elisabeth Hendrickson  
Quality Tree Software, Inc.  
www.qualitytree.com  
esh@qualitytree.com



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# Agility for Testers

Presented at PNSQC 2004  
Elisabeth Hendrickson  
Quality Tree Software, Inc.  
[www.qualitytree.com](http://www.qualitytree.com)

## *New (or New-ish) in 2004*

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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

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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

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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

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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

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Cucumber released



Twist released (early access)

Robot Framework open sourced

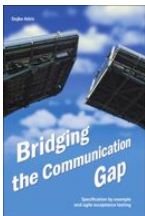


Slim update to Fitnesse

UX Community descends on Agile2008 conference. Alan Cooper keynotes.

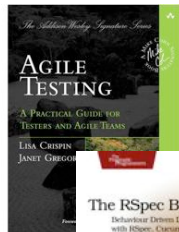


2009



Gojko Adzic, *Bridging the Communication Gap*

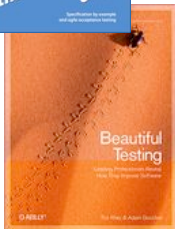
Lisa Crispin and Janet Gregory, *Agile Testing*



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*

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### Methods and Tools Survey

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

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

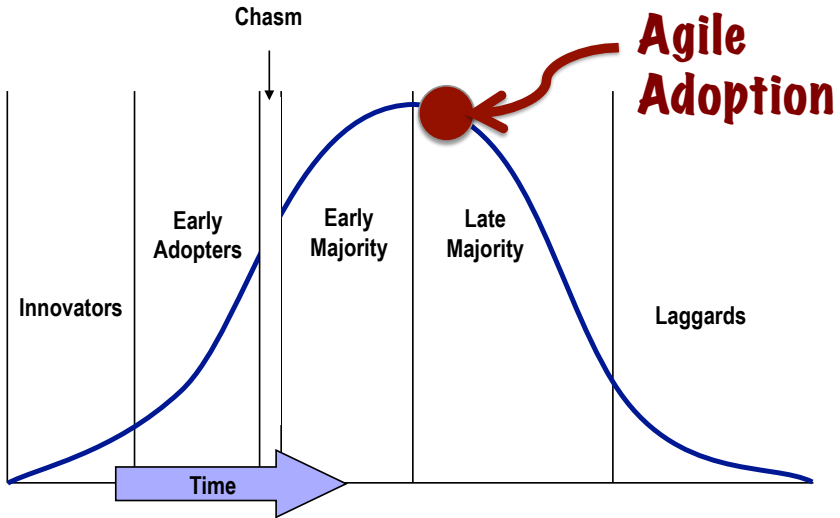
*In 2008 that number was up to 70%*

### 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... ?*

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*Well, er, no...*

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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*

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**frAgile**  
**ScrumBut**  
**Scrummerfall**

## *Eight Key Testing Practices in Agile*

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ATDD

TDD

Exploratory  
Testing

Automated  
System Tests

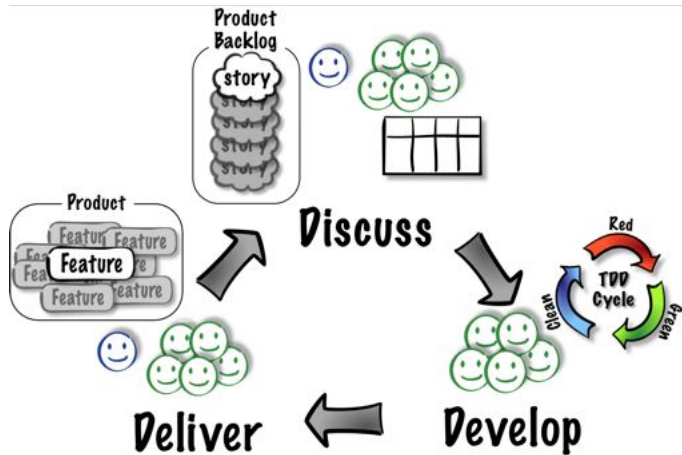
Automated  
Unit Tests

Collective  
Test  
Ownership

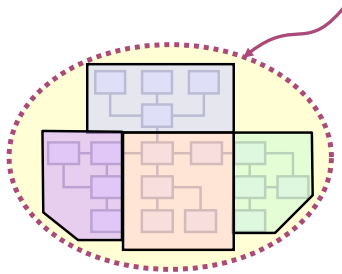
Continuous  
Integration

Rehearse  
Delivery

## Acceptance-Test Driven Development (ATDD)



## Automated System-Level Regression Tests

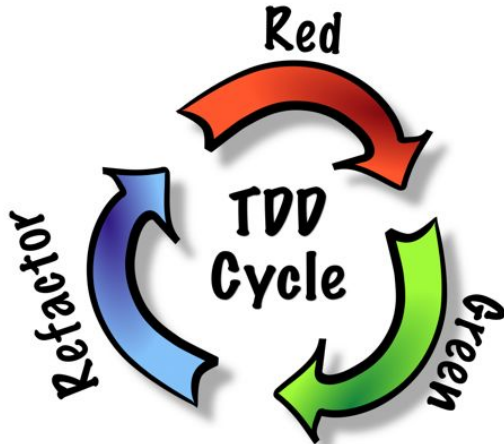


- Are ***business-facing***, written by various members of the team in collaboration
- Express expectations about externally verifiable behavior
- Represent executable requirements



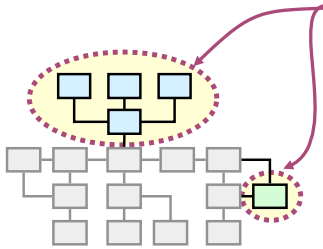
## Test Driven Development (TDD)

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## Automated Unit Tests

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- 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*

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*Simultaneously...*

...learning about the software

...designing tests

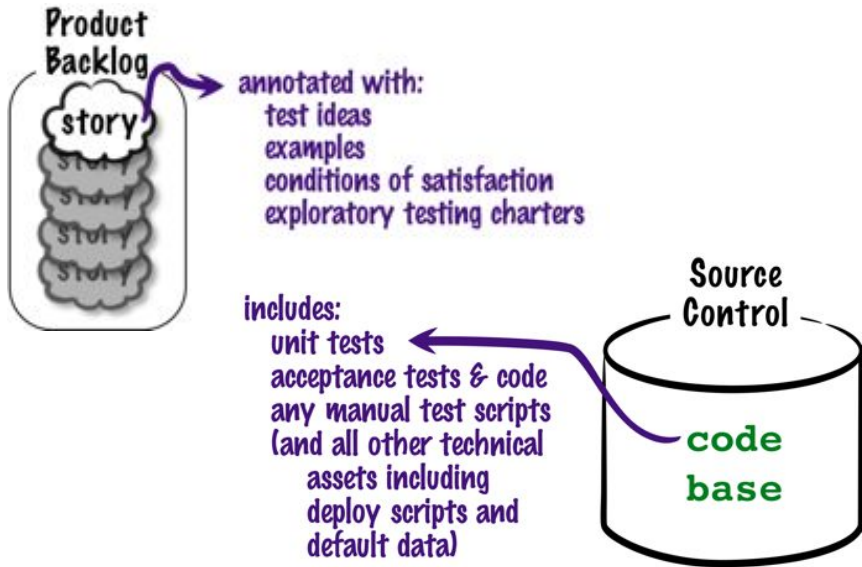
...executing tests

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

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

## Collective Test Ownership

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# Continuous Integration (CI)

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



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

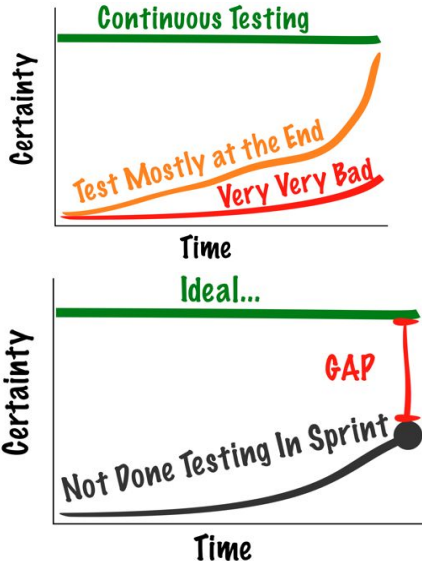
## *Rehearse Delivery*

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

## Consider Certainty v. Time

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Within a  
**Release**

Within a  
**Sprint**

## *What Does Agile Really Mean?*

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### *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?*

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**Practices...**

**Methods...**

**Communities...**

**Tools...**

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