



WHAT HAS AGILE DONE FOR TESTING?

Agile Tour 2013

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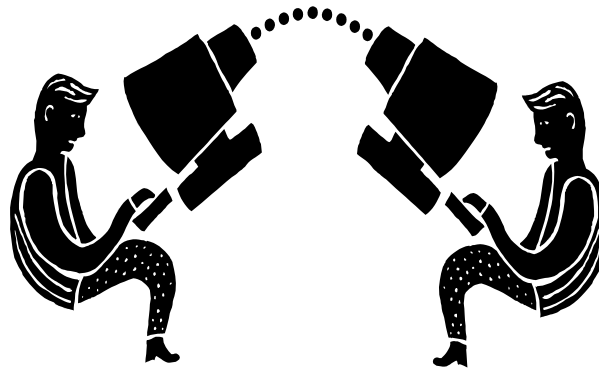
WHO AM I?



WHAT PROCESS ARE BEING USED?

- Agile - 35%
- No Formal Process - 31%
- Iterative – 21%
- Waterfall – 13%

Survey of 1,298 professional developers. Forrester, Jan 2010



ABSTRACT

As IT professionals we are always trying to improve the software development lifecycle, faster times to market, better quality and producing software more cost effectively. Agile methodologies have supported this objectives by encouraging team to continuously review, question and consider how software is produced. However, for over the last decade or so, testers seem to struggle with the Agile practices. This presentation and discussion will consider;

- What is the role of the tester in software development and process improvement?
- What is it with Agile methodologies that appear to cut across the gain of most testers?
- And ultimately can Agile support better testing?

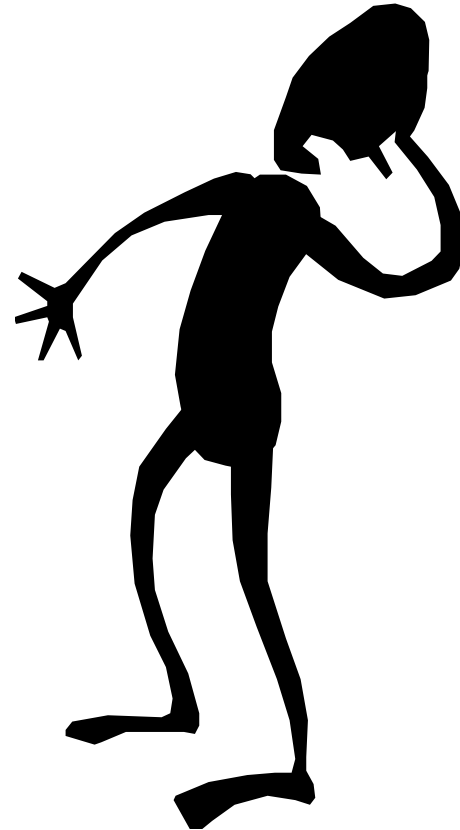
WHAT DOES BUSINESS REQUIRE FROM THE SDLC?



*Original Quote 'Faster, Better, Cheaper, chose two!'

WHAT ARE THE THINGS THAT STOP USE DELIVERING?

- Bad Requirements
- Bad Design
- Poor Quality from Development
- Lots Of Defects
- Moment of Engagement
- Estimation
- Running out of time
- Anything Else???



AS TESTERS HOW DO WE DELIVER THIS?

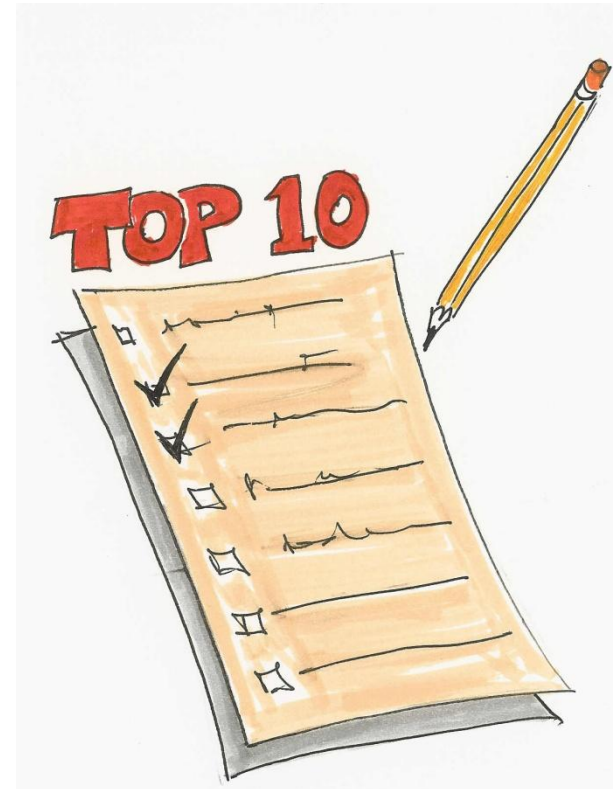
- Risk Based Testing
- Design Techniques
- Automation
- Early lifecycle testing – reviews, inspections, unit testing
- Coverage
- More organised – Test Management Tools – Defect Management
- Early involvement
- Does Better mean
 - Technology
 - Business Domain Knowledge

AGILE METHODOLOGIES

- Scrum
- Agile Modelling
- Feature-Driven Modelling
- Test-Driven Development
- eXtreme Programming
- Lean Development
- Microsoft Solutions Framework (MSF) for Agile
- Agile Data Method
- Adaptive Software Development (ASD)
- Six Sigma
- Crystal
- Behaviour-Driven Development (BDD)
- Dynamic Systems Development Method (DSDM)
- Agile Unified Process

TOP 10 TECHNIQUES BEING USED

- Daily Stand-up
- Iteration Planning
- Unit Testing
- Release Planning
- Burn-down
- Retrospectives
- Continuous Integration
- Automated Builds
- Velocity - estimation
- Coding Standards



WHAT ARE THE ELEMENTS TESTERS CAN TAKE FROM AGILE?

- Culture
- Communication
- Automation
- Technical Skills
- Getting the product out the door

THE CULTURE OF AGILE

*BETTER - QUALITY

- What are testers looking for
 - Inclusive – Testers are required to be there at the start
 - Focused on delivering working product
 - Agile teams want testing
 - Quality part of the whole project team
- Change required by Testers
 - Requirements/Code evolve
 - Multiple project phases happening at once requirements/design/coding/testing
 - Engage with developers and project stakeholders
 - Speed
 - Getting it done

COMMUNICATION

- What are testers looking for
 - To know what is going on
 - Early involvement
 - Quick way to get answers
- Change required by Testers
 - Daily you have the team in front of you
 - You have to go get the information
 - You need to stand up and be counted

AUTOMATION

*TEST AUTOMATION

- What are testers looking for
 - To introduce automation easily
- Change required by Testers
 - Require automation from start
 - All types of automation used
 - Can often use multiple tools

TECHNICAL SKILLS

- What are testers looking for
 - Someone else to handle the technology – testers make use of the solutions
 - Developers to understand how to develop a quality product
 - Test environment available from day 1 almost 100% of the time

- Change required by Testers
 - Require automation from start requires testers to have technical skills
 - Technology ‘savvy’ testers to work more closely with the developers

GETTING THE PRODUCT OUT THE DOOR

- What are testers looking for
 - To be the gate keepers
 - Perfect product
- Change required by Testers
 - Just doing enough to keep customer happy
 - Letting go of the quality gate keeper role – provide information on the level of quality

QUESTIONS?

