

Reports of the Death of Testing Have Been Highly Exaggerated

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innovative
testing

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Cloud Testing
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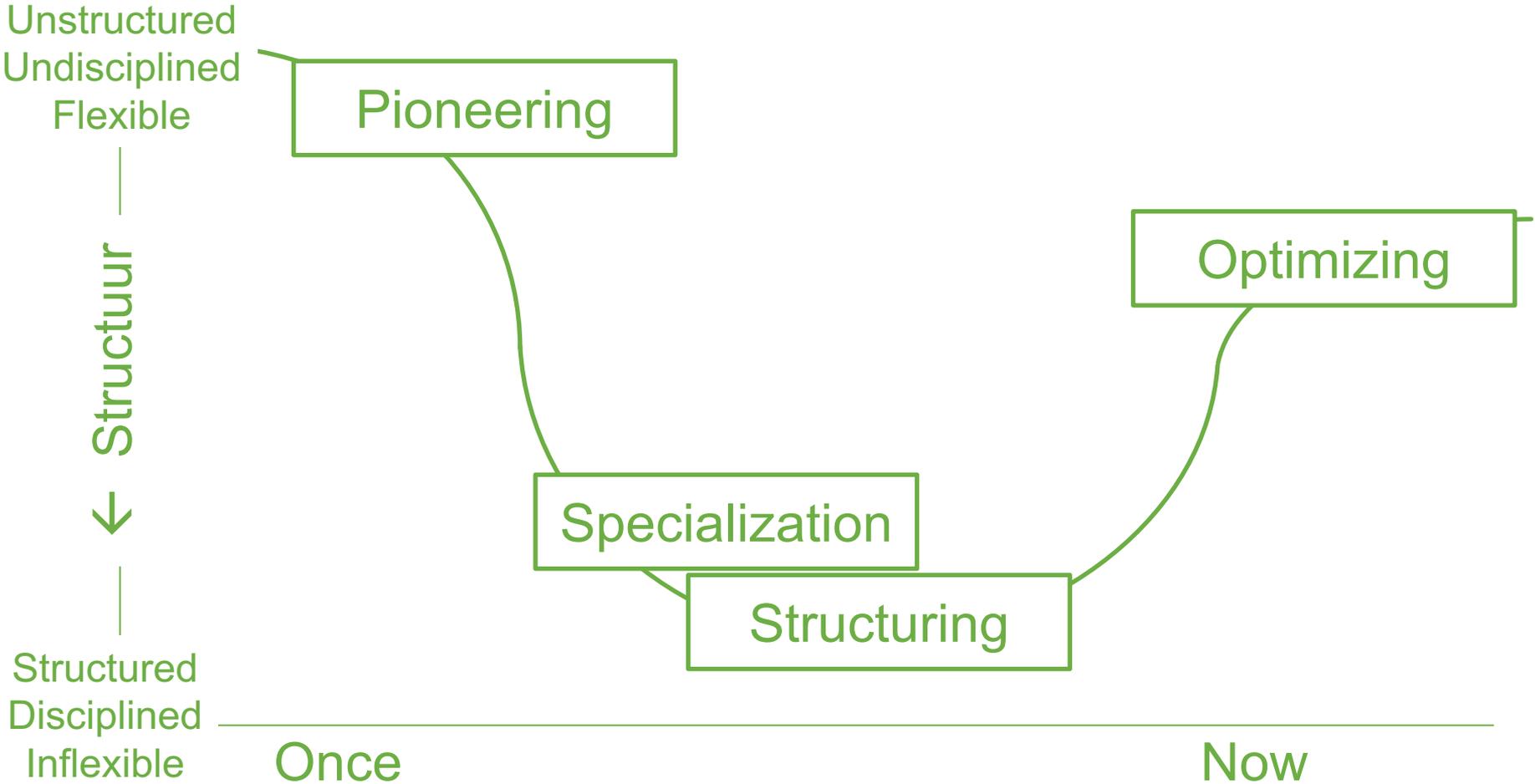
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Reports of the Death of Testing

Have Been Highly Exaggerated

Have you heard? It's all over the social media. We are the "last generation of testers." Testing is dead. No more classical testing—too much inflexible process. Context driven? That is a code phrase for do whatever. Agility? Developers do testing, and testers become developers. DevOps? Development and operations join forces—and test is not in the picture. And, companies don't test anymore—they outsource. Ruud Teunissen believes we must save the indispensable craft of testing. Non-functional tests require special skills; new paradigms like cloud and mobile must be explored and tested; Enterprise-to-enterprise integration tests become more vital as systems grow larger and more complex. And who's going to do that testing? Testing skills are needed to work effectively and efficiently in these new contexts. Learn to save the testing skills within your organization and do what you've always done best—save the day by preventing defects from going live.

Let's have a look at the evolution of testing



Once upon a time testing was pioneering

- Unknown, no buy-in, no budget, no process, no tools
- Fully integrated in the development process
 - Generalists, joined effort
 - Prototype, exploratory driven
 - No dedicated testing staff
- Struggling to get involved
- Not a partner, no influence
- Discussing risks not done
- Only in emergencies

Extremely Agile

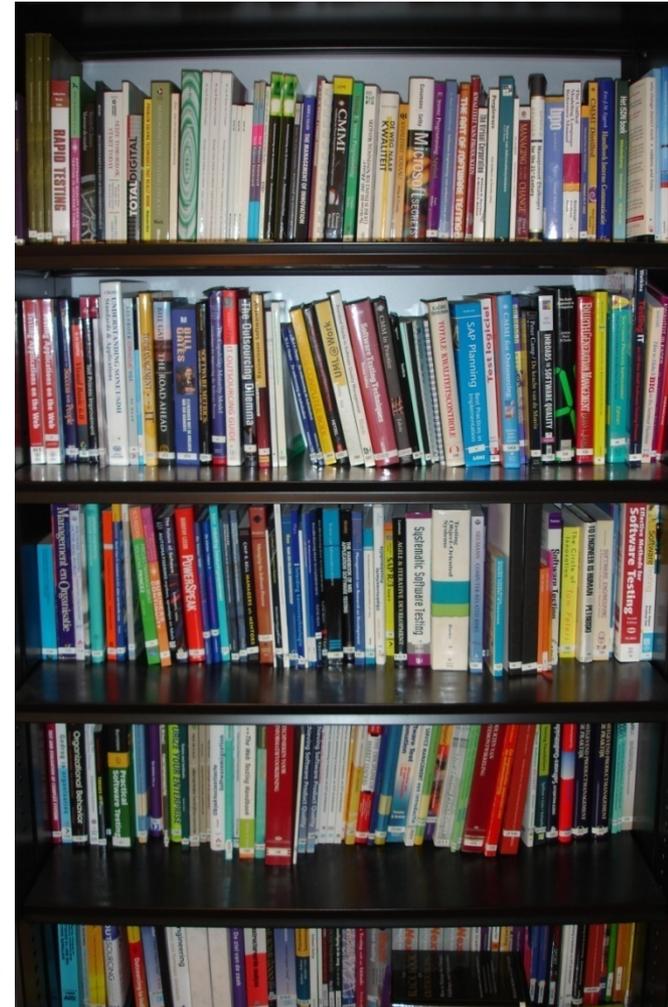


Since bugs lead to disasters ...



... we started specializing and structuring

- Structuring the process
- Standardization (Books)
 - Defining the test function
 - Certification
 - Independent
 - Functionality and non-functionality
 - Test automation
- Test process improvement models
 - TPI, TMM, TMMi, TOM, TIM, TSM, ...



Testing?



Complaints list:

- Insufficient specs*
- Tremendous time pressure*
- Not according to standards*
- Inappropriate test environments*
- Too late and incomplete delivery*
- No tools available*
- Slow repair of defects*
- Not enough people*
- Low quality unit tests*
- Too late involvement*
-*
-*

- Becoming a referee
- Process Improvement freaks
- Inflexible
- Metrics mania
- Spreadsheet management
- Complaining and blaming
- *Tunnel vision*



Changing context

Technology push

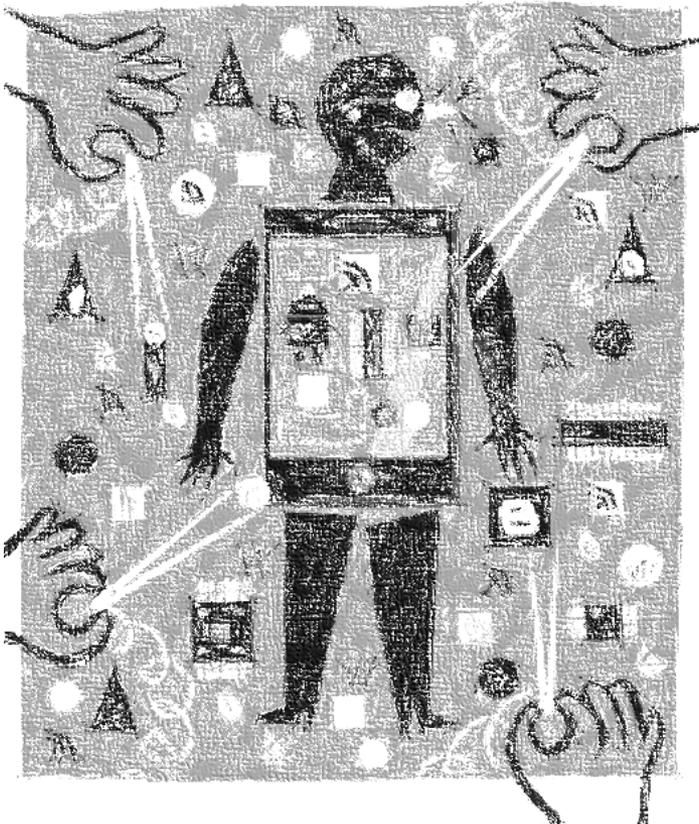


Efficiency push



Changing context

Technology push



- Architecture
 - SOA
 - Virtualization
 - Web technology
 - Devices
- Cloud
- SoLoMo
- Integration

Changing context

- Outsourcing
- Package software
- Cloud
- Agile, Scrum
- DevOps
- Continuous delivery
- Collaboration

Efficiency push



And testing is challenged!

Keynote EuroSTAR 2011
Pursuing quality?
(you won't get there by testing)

James Whittaker
Engineering Director, Google

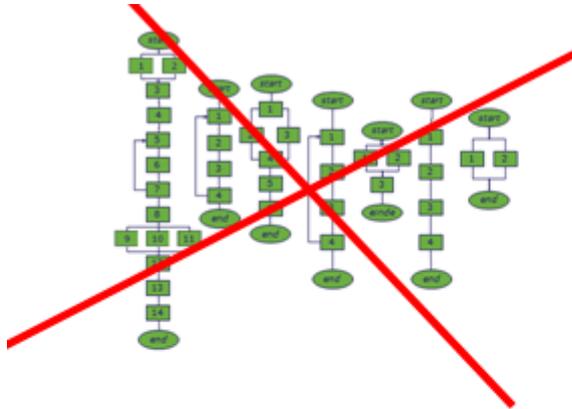


TestNet (Dutch SIGIST)
Model Driven Development,
the end of the test profession?

Johan den Haan
CTO, Mendix



Testing is challenged



Process = out

When the process becomes too rigid and turns into a burden in stead of an aid, the process is abandoned in stead of adapted.



James Marcus Bach @jamesmarcusbach

When I see that a tester is "certified" I draw unflattering inferences about his confidence and education.

27 Apr



Certification = wrong

Testing is challenged

- Context Driven
 - Right solution, practice, coverage, cooperation, skills
 - Exploratory
 - Session based
 - Rapid

Anything we didn't like in the past we're not going to use anymore now that we are Context Driven



Context Driven is interpreted by management as less



Testing is challenged

When DEV and OPS become one, QA becomes redundant because of the shortened feedback loop



Tester = ?



If debugging is the process of removing **bugs**, then programming must be the process of putting them in.

Program testing can be a very effective way to show the presence of bugs, but it is hopelessly inadequate for showing their absence.



Only do what only you can do.

Edsger Dijkstra,
1930-2002

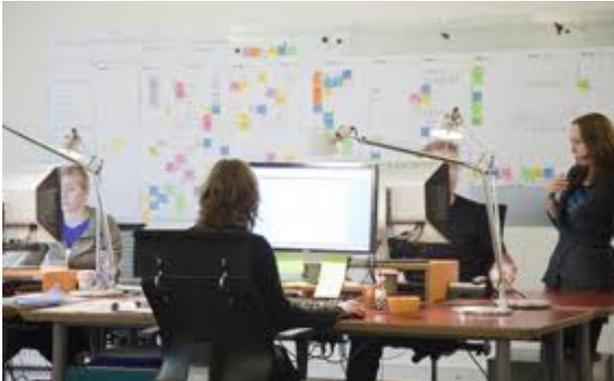
Testing is challenged

Agility and SCRUM require that everyone can perform all activities. Especially testers.



Tester = agilist

The Agile Manifesto – a statement of values		
Individuals and interactions	over	Process and tools
Working software	over	Comprehensive documentation
Customer collaboration	over	Contract negotiation
Responding to change	over	Following a plan





Offshoring, outsourcing



Package software

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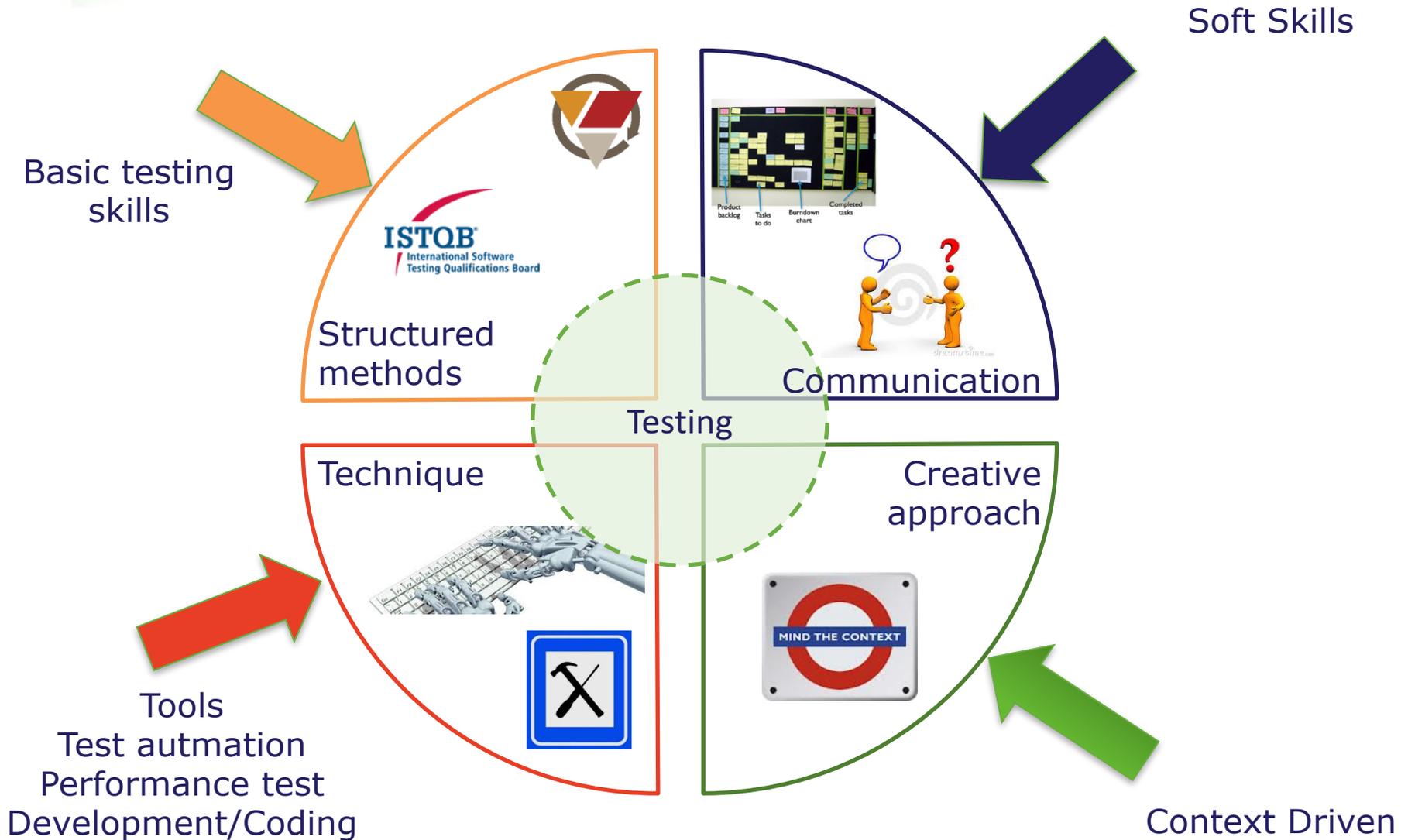


Cloud computing

Be aware, testing is an indispensable craft



Testing and testers



Testing and t

Analytical

quick insight in what and how to test

Accuracy

factual, precise, tot the point, ...

Creative

able to create test ideas, results, cases, ... “out of thin air”

Critical

seeing is believing,
“check, check, double-check”

Curious

every good tester is an explorer
“to boldly go where no man has gone before”

Testing and t

Analytical

quick insight in what and how to
test

Accuracy

factual, precise, tot the point, ...

Creative

The Nose

If I touch it, it will break

seeing is believing,

“check, check, double-check”

Curious

every good tester is an explorer

“to boldly go where no man has
gone before”

Testing is challenged

- Context Driven Revisited

The Seven Principles of the Context-Driven School

1. The value of any practice depends on its context.
2. There are good practices in context, but there are no best practices.
3. People, working together, are the most important part of any project's context.
4. Projects unfold over time in ways that are often not predictable.
5. The product is a solution. If the problem isn't solved, the product doesn't work.
6. Good software testing is a challenging intellectual process.
7. Only through judgment and skill, exercised cooperatively throughout the entire project, are we able to do the right things at the right times to effectively test our products.

testing is a human activity that requires a great deal of skill to do well



Changing role
Not character

Distributed

- Business/RQMS
- Development
- Operations



Changing role
Not character

Distributed
Technical

- Automation
- Cloud
- SoLoMo
- Security



Changing role
Not character

Distributed
Technical

Programming
– Automation
– Development



Changing role
Not character

Distributed
Technical
Programming
Social

- Team player
- Communication

Save the Testing Skills

Cooperate
Facilitate
Innovate
Optimize



About the speaker

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Ruud Teunissen is best described as a passionate software tester. Throughout his career he has played almost any possible role in testing (tester, test manager, test trainer, coach, sales, manager, test consultant, ...) in a variety of environments and companies. Ruud is coauthor of several books on structured testing, including *Software Testing: A Guide to the TMap[®] Approach*. Currently he is senior test consultant with Polteq Test Services BV and focuses on test improvement and management in any context. Ruud is frequently invited to speak at conferences. Within Polteq, Ruud is responsible for *TI4Automation*, the approach for successful implementation and improvement of test automation based on hands-on experiences and good practices.