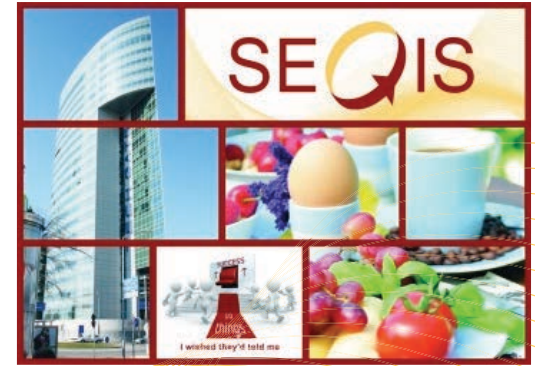




Die Zukunft des Testens (und der Entwicklung)

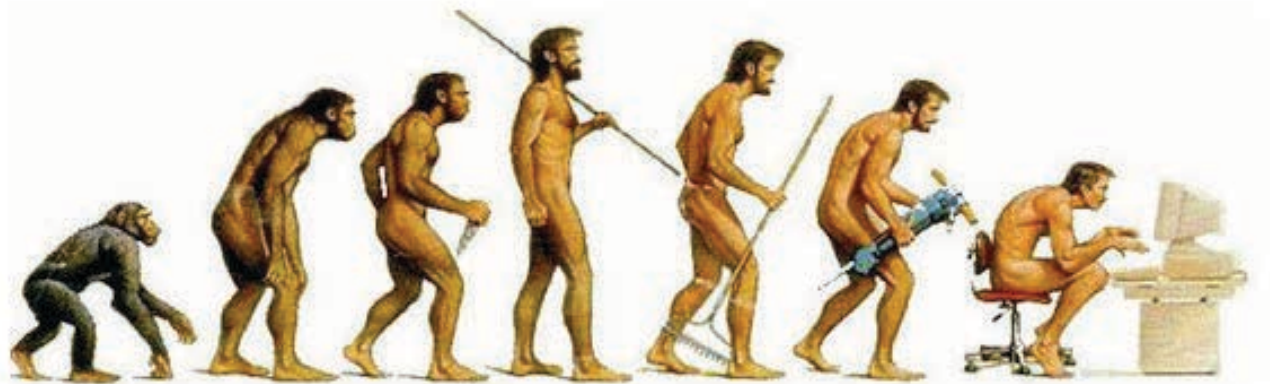
Mag. Alexander Vukovic



Rückblick

- **Geschichte**

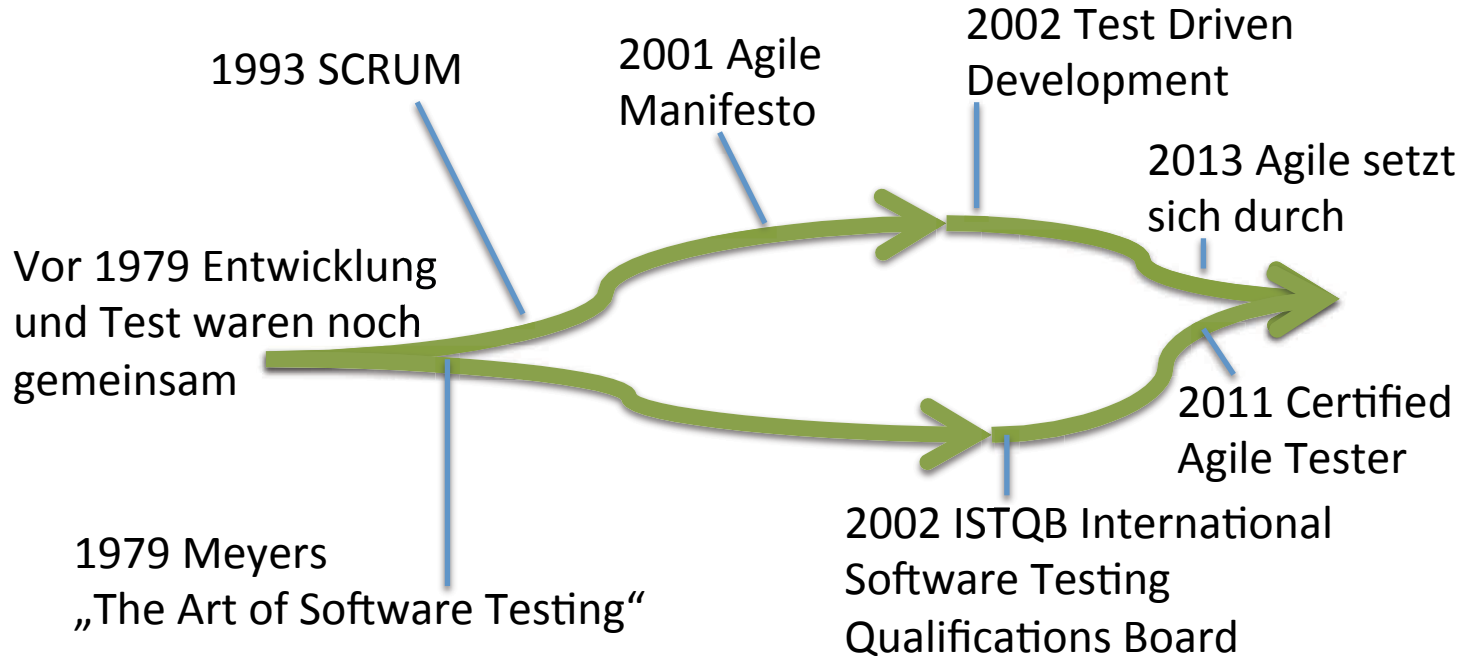
- Agile Testing
- Software Craftmanship
- BDD
- Testmanagement
- Business Value
- Usability
- Testoutsourcing
- Testautomation
- Cloud & Crowd
- DevOps
- Summary



Geschichte Development vs. Test

- Geschichte

- Agile Testing
- Software Craftmanship
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[<http://www.testingreferences.com/testinghistory.php>]

Was bringt die Zukunft?

- **Geschichte**

- Agile Testing
- Software Craftmanship
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Wir wissen nicht, was wir nicht wissen!

Agile Testing

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Agile Testing

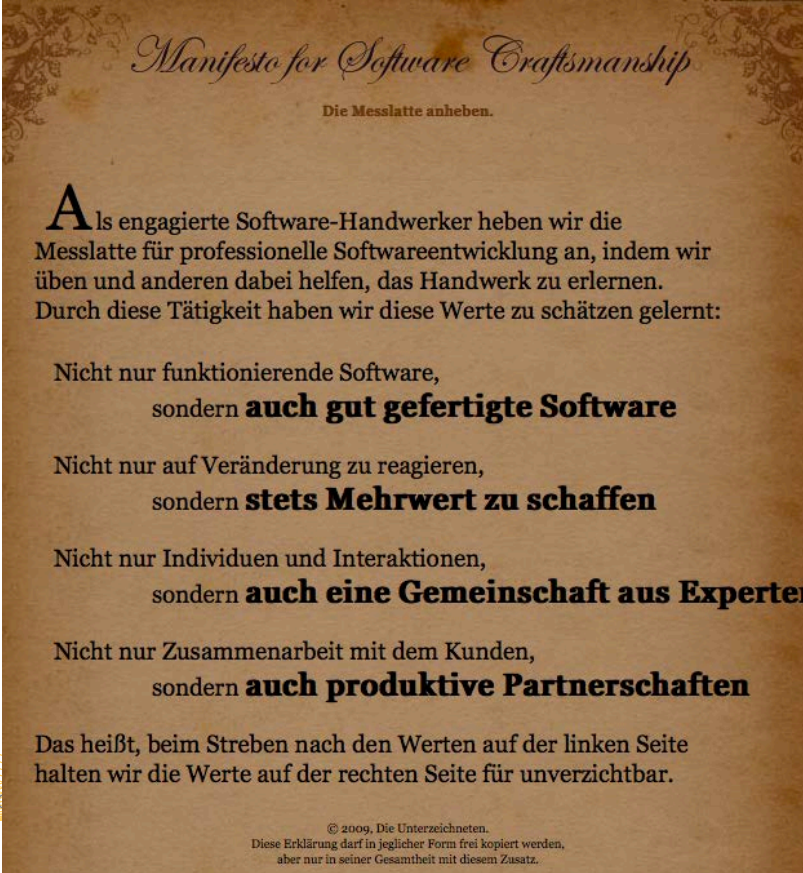
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- Whole Team
- Cross-functional
- Just Enough
- Häufige Änderungen



Software Craftmanship

- Geschichte
- Agile Testing
- **Software Craftmanship**
- BDD
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The image shows a poster titled "Manifesto for Software Craftmanship" with a decorative, aged parchment background. The text is written in a mix of formal and informal fonts, with key phrases in bold. The poster is divided into sections by horizontal lines. The top section has the title and a subtitle "Die Messlatte anheben." The main body of the poster starts with a large 'A' and describes the goal of the manifesto. It then lists five principles, each starting with "Nicht nur" (Not only) and followed by "sondern" (but) and a bolded phrase. The bottom section explains the meaning of these principles and includes a URL and a copyright notice.

Manifesto for Software Craftmanship

Die Messlatte anheben.

Als engagierte Software-Handwerker heben wir die Messlatte für professionelle Softwareentwicklung an, indem wir üben und anderen dabei helfen, das Handwerk zu erlernen. Durch diese Tätigkeit haben wir diese Werte zu schätzen gelernt:

Nicht nur funktionierende Software,
sondern **auch gut gefertigte Software**

Nicht nur auf Veränderung zu reagieren,
sondern **stets Mehrwert zu schaffen**

Nicht nur Individuen und Interaktionen,
sondern **auch eine Gemeinschaft aus Experten**

Nicht nur Zusammenarbeit mit dem Kunden,
sondern **auch produktive Partnerschaften**

Das heißt, beim Streben nach den Werten auf der linken Seite halten wir die Werte auf der rechten Seite für unverzichtbar.

[\[http://manifesto.softwarecraftmanship.org/#/de\]](http://manifesto.softwarecraftmanship.org/#/de)

© 2009, Die Unterzeichneten.
Diese Erklärung darf in jeglicher Form frei kopiert werden,
aber nur in seiner Gesamtheit mit diesem Zusatz.

Software Craftmanship

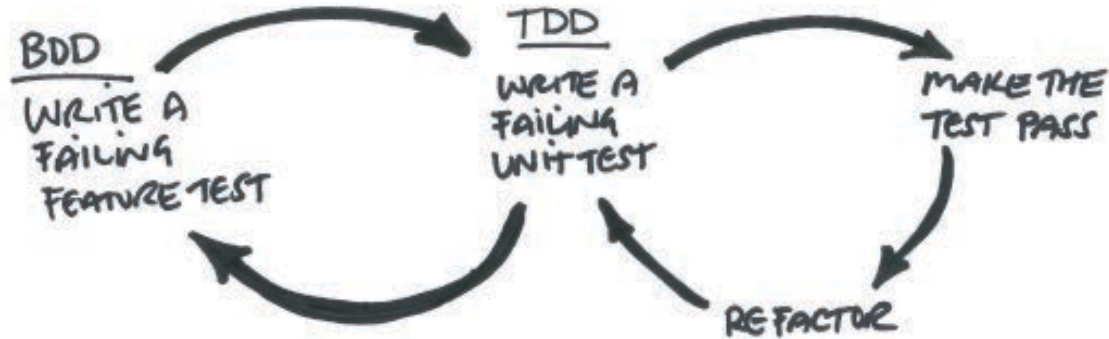
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- Vom Engineer zum Craftsman
- Clean Code
- Pragmatic Programming
- Test Driven Development



ATDD, BDD, Executable Requirements

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ATDD, BDD, Executable Requirements

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- Ausführbare Spezifikationen
- Reduktion der Wartungsaufwände von Spezifikation und Unittests
- Given When Then



Testmanagement

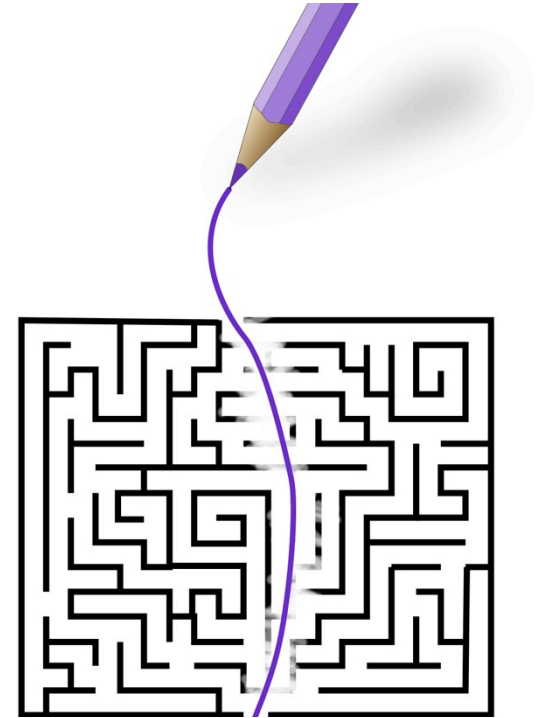
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Testmanagement

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- ISTQB vs. Agile
- Teststrategie
- Artefakte
- Prozess
- Mindset



Testmanagement

- Geschichte
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- Vom Testmanager zum Test Master oder Test Coach
- Teams selbstorganisierend, selbst-managed
- Weiterentwicklung der Testingskills



Business Value

- Geschichte
- Agile Testing
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- **Business Value**
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- Testing stellt noch mehr den Kundenmehrwert in den Vordergrund (UAT)
- Denken und Handeln im Sinne des Kunden
- Risiko-basiertes Vorgehen



Usability

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Usability

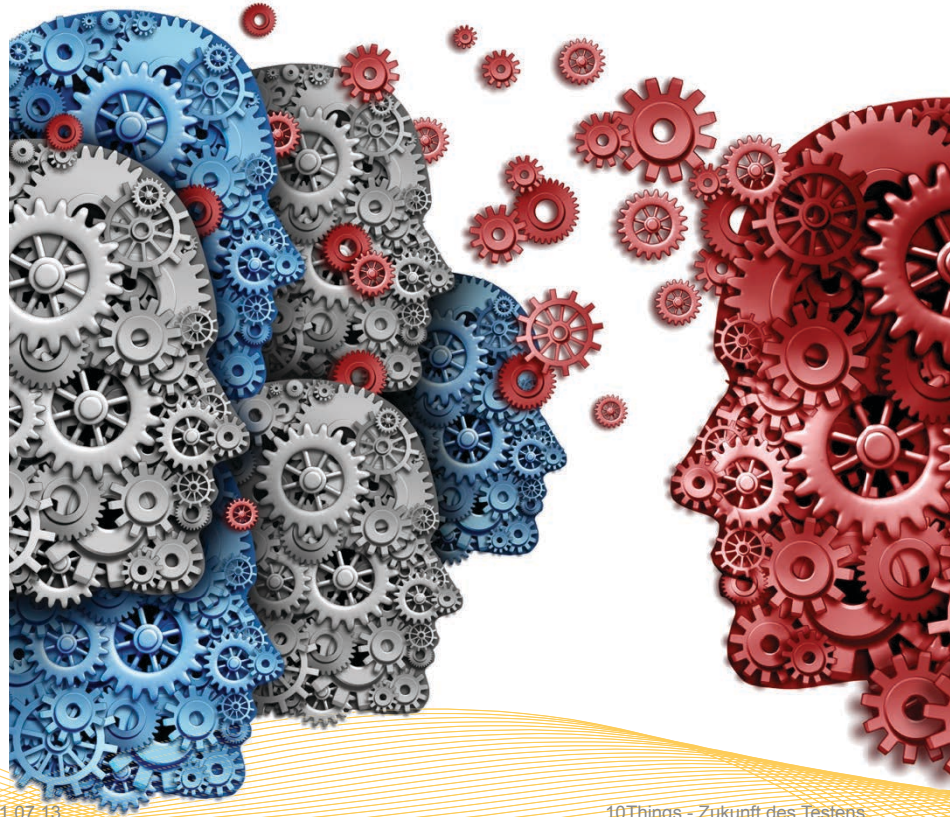
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- Plattformen sind im Wandel
- Smartphones und Tablets revolutionieren den PC-Markt
- „The user interface is the product“



Testoutsourcing

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Testoutsourcing

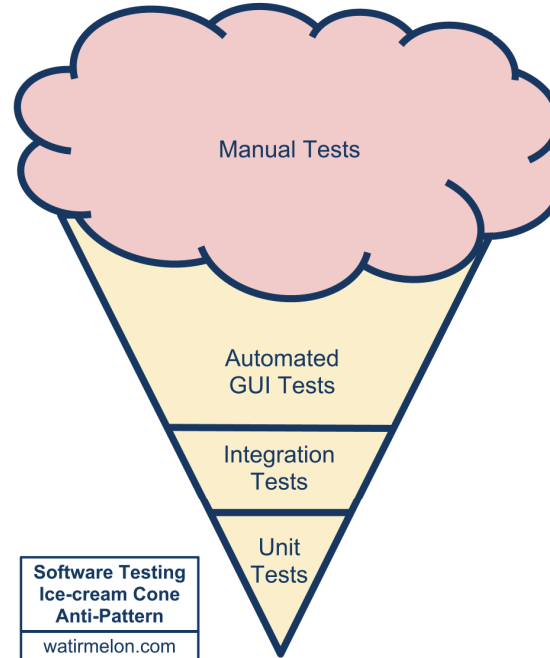
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- Agile Testing Team Members
- Agile Test Coach
- Agile Performance Testing



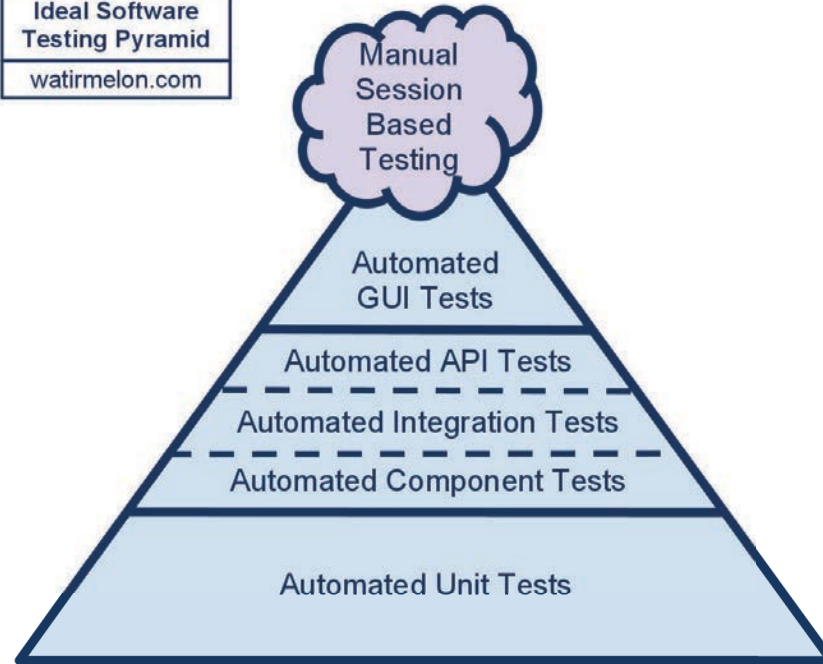
Testautomation - Paradigmenwechsel

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Testautomation - Paradigmenwechsel

Ideal Software
Testing Pyramid
watirmelon.com



- Geschichte
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Cloud & Crowd

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- **Cloud & Crowd**
- DevOps
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- Security-Probleme steigen
- Cloudsysteme für Tests problematisch
- Crowd für den Wettbewerb



Cloud & Crowd

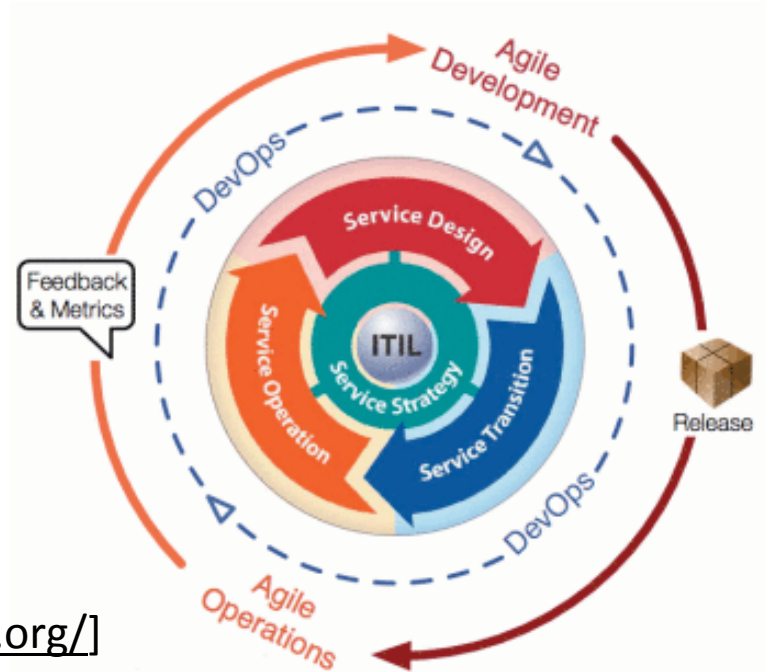
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- Mehr Tests von Cloud-Applikationen
- Kritische Daten müssen vor der Cloud geschützt werden



DevOps

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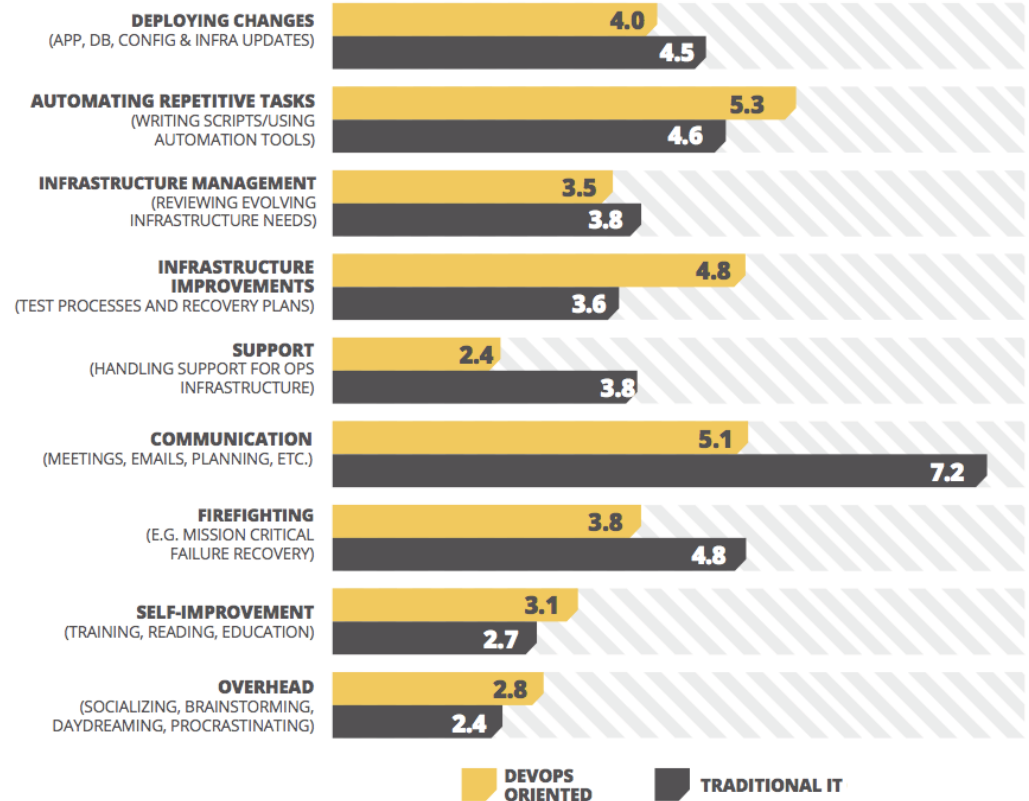
[<http://dev2ops.org/>]

DevOps

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[<http://devops.com/>]

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DevOps

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- Der logische nächste Schritt
- Cross-functional
- Erfolgsfaktoren wie Hardware, Config, Betrieb werden frühzeitig berücksichtigt

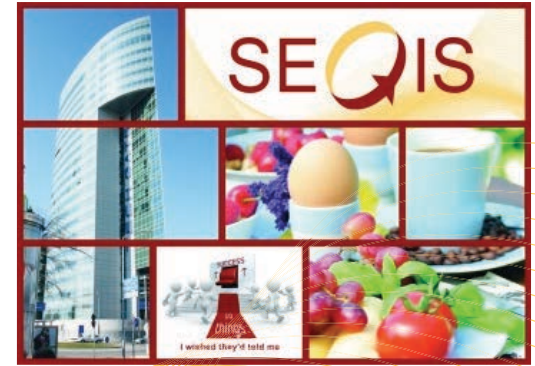


[<http://devops.com/>]

10Things in der Testingzukunft....

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Die Zukunft des Testens (und der Entwicklung)

Mag. Alexander Vukovic

