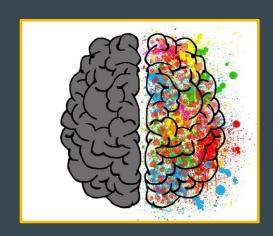


The new Skill-Set for the new QA Specialist



Joel Montvelisky
PractiTest - Chief Solution Architect

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About Me!



QA / Testing

(last 20+ years)

- Tester
- QA Manager
- Blogger
- Speaker
- Solution

Architect



PractiTest

- Chief Solution Architect
- QA Manager

Other Stuff

- Testing 1on1 Podcast
- State of Testing™
- Online Test Conference



- ✓ SaaS QA Management Solution
- ✓ Simple & Intuitive yet Professional & Flexible
- ✓ Integrates with Jira, Selenium, Jenkins, Pivotal Tracker, QTP, Bugzilla, Ranorex, SoapUI, etc...
- ✓ Best Darn Support in the Business ᠍

SONY



















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A Skill Set...

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Do we need a new Skill Set?





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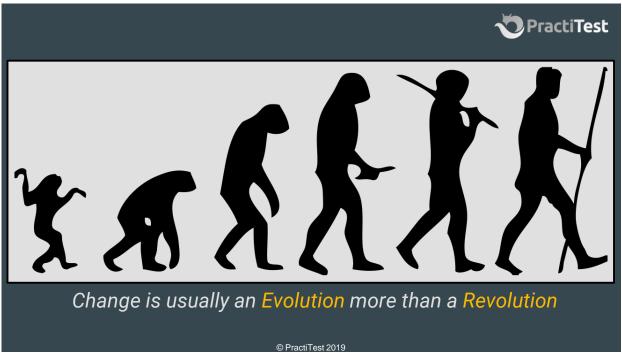
The World is Changing.

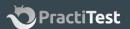
(& thanks God for that!)



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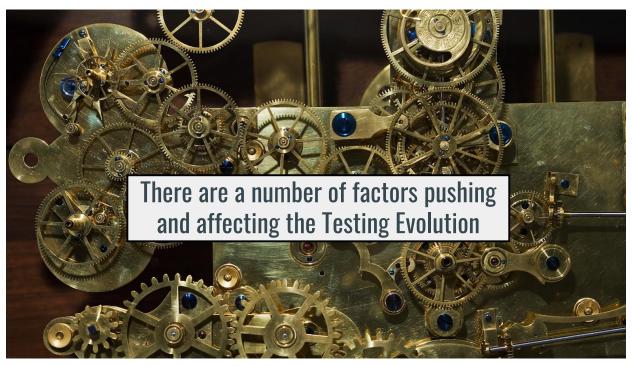


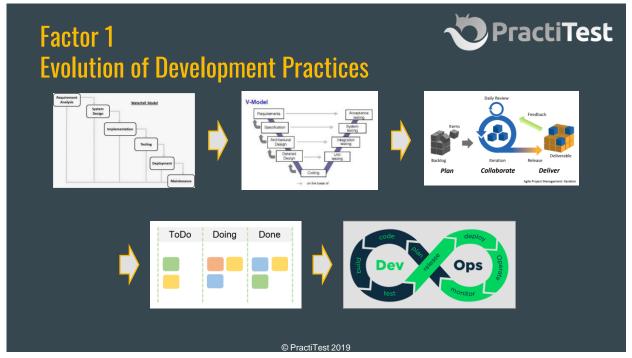
Testing as a profession is also constantly evolving...

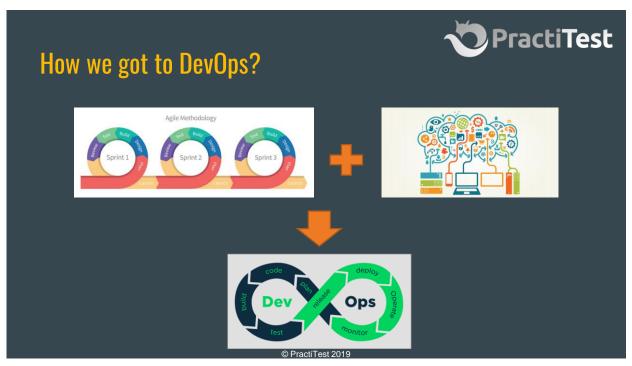
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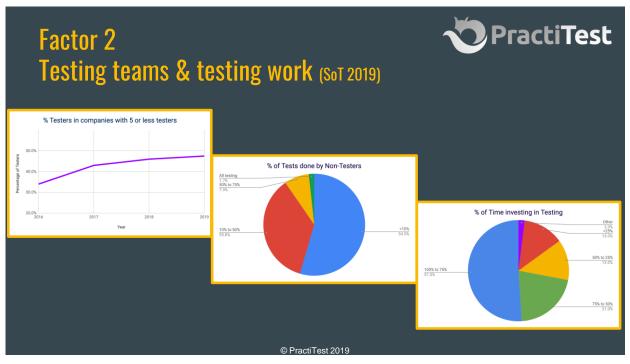
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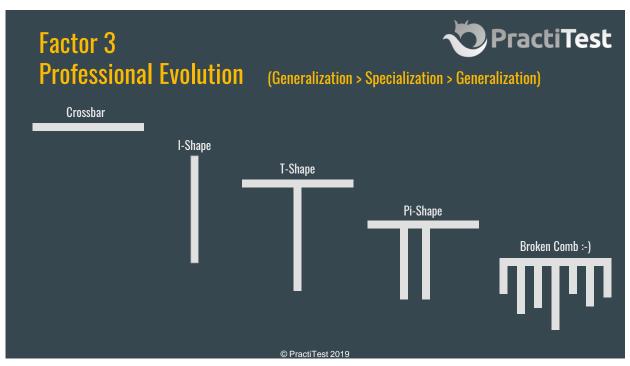


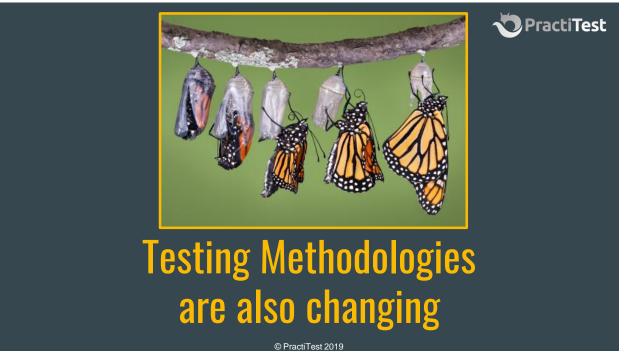














What is Modern Testing? (this is not a presentation about MT!)



<u>The Mission</u> - To Accelerate the Achievement of Shippable Quality

Seven Principles of MT

- 1. Our Priority is improving the business.
- We accelerate the team, and use models like Lean Thinking and the Theory of Constraints to help identify, <u>prioritize and mitigate bottlenecks</u> from the system.
- We are a force for continuous improvement, helping the team adapt and optimize in order to succeed, rather than providing a safety net to catch failures.
- 4. We care deeply about the quality culture of our team, and we coach, lead, and <u>nurture the team</u> towards a more mature quality culture.

- We believe that the customer is the only one capable to judge and evaluate the quality of our product
- We use <u>data extensively</u> to deeply understand customer usage and then close the gaps between product hypotheses and business impact.
- We expand testing abilities and knowhow across the team; understanding that this may reduce (or eliminate) the need for a dedicated testing specialist.

https://www.angryweasel.com/ABTesting/modern-testing-principles/

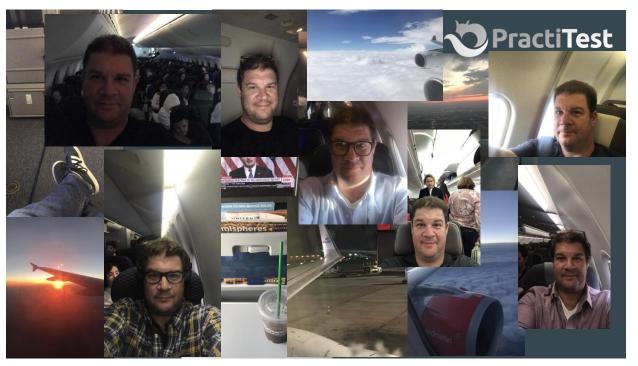
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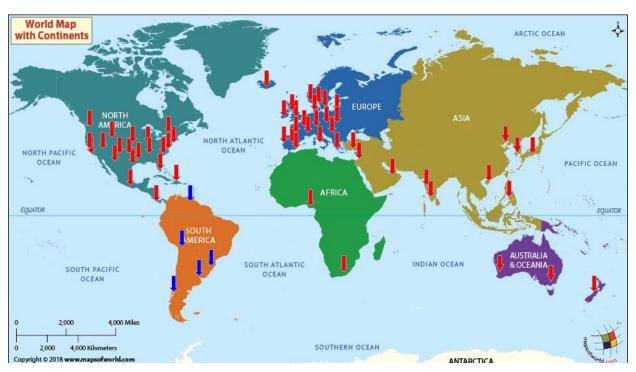




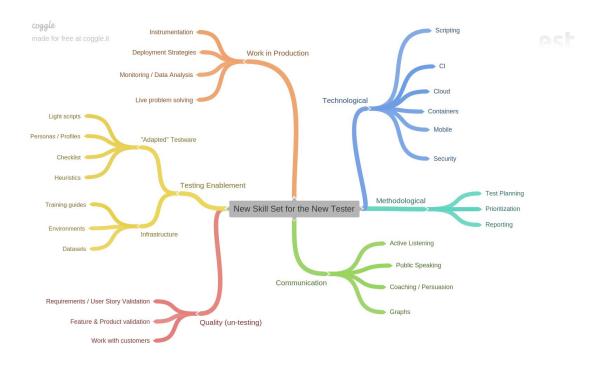
I get to travel a lot and talk to tons of testers worldwide...

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Technological Skills



- 2. Cl platforms & process (Jenkins, TeamCity, CircleCl, Bamboo, etc)
 - Quality measures
 - Deployment process
- 3. Security Testing



- 4. Mobile
 - Deployments
 - Devices
 - Tech

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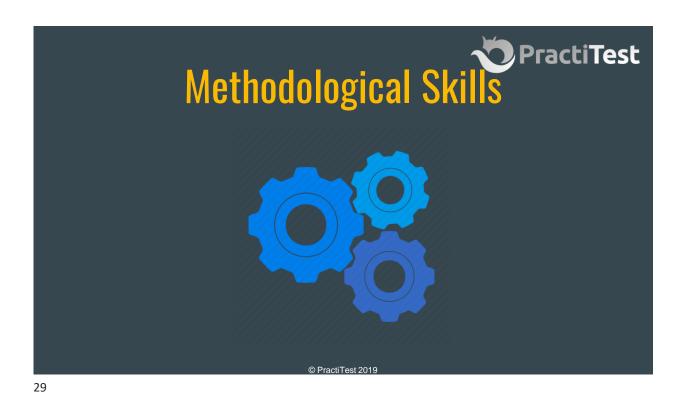
Technological Skills

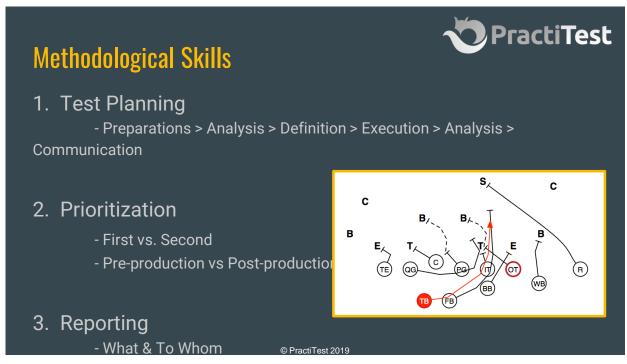


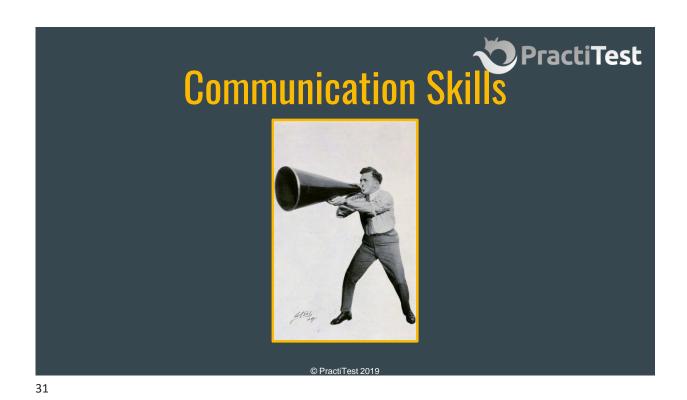
- 5. Cloud (AWS, Azure, Google Cloud, etc)
 - Dev vs. Testing vs. Staging vs. Prod environments
 - Elastic computing
 - Available resources
- 6. Containers (Docker, Cubernets, etc)
 - Different "ready" environments
 - Setups for dev-testing
 - Speed...



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Communication Skills

- 1. Active Listening
 - Get the information you need
- 2. Coaching / Persuasion (???)
 - Get others to test for you
 - Teaching people to test based on their constraints





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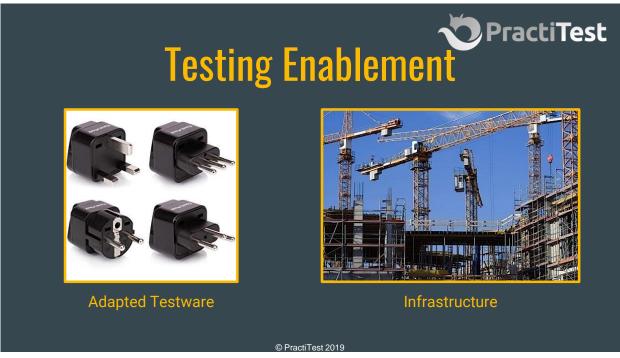


Communication Skills

- 3. Graphical presentations
 - How it looks is as important as what you say
 - Different people different data different times
- 4. Public speaking
 - Internal communication with teams
 - External communication with customers & audiences

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Adapting your Testware



- 1. Personas / Profiles
 - Help others visualize the people behind the tests
 - Make it more concrete

2. Light scripts

- Focus people on very specific tasks
- Scale down the tasks to fit the person



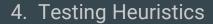
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Adapting your Testware



- 3. Checklist
 - Some people simply do not like testing steps
 - Build on their knowledge of the application



- Help people test for themselves



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Providing Testing Infrastructure



- 1. Training & Guides
 - Specially for non-tech people
- 2. Testing Environments
 - Remember "containers"...?



- 3. Testing Data
 - Empty databases seldom bring interesting bugs

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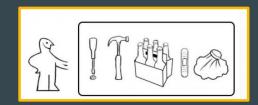
Work in Production

1. Product instrumentation

- Prepare for what you will need to know later.
- Think about metrics.

2. Deployment strategies

- Minimize risk & damages
- Be ready to roll back as quick as possible



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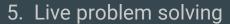


3. Monitoring

- Understand what is happening as it's happening
- Alerts & displays

4. Data Analysis

- Making sense of information out of tons of data



- More of an Art than a Science



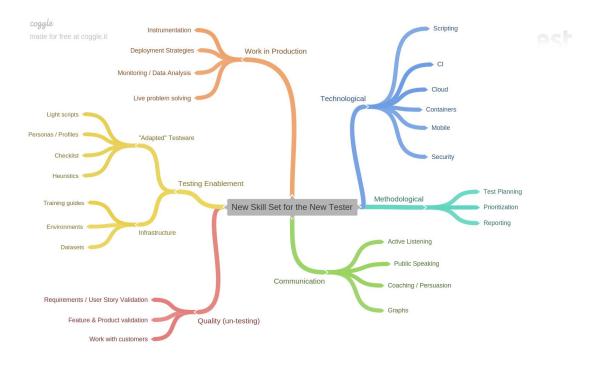


Quality (un-testing)



- 1. User Story Validation
 - Making the right thing, and the thing right
- 2. Feature & Product Validation (post release)
 - Measure usage and adoption
 - Provide real feedback into the development loop
- 3. Work with Customers
 - CSM
 - Support

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Prepping for the Future



Keep your eyes Open

Knowing you will need

FOCUS & ADAPT



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To summarize



- Testing is evolving, based on a number of simultaneous factors.
- New Skills are needed to cope with the changes and not make fools of ourselves.
- Skills will make us expand into new territories, and use our expertise on new areas.
- No One really knows where the future will take us but you can be ready by looking for it.



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Thank you!

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