inovex

People & Products

Lessons learned from the daily IT madness

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Continuouously fail..

by applying best practices!

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Based on true stories...

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Agile Product Development

(e.g. Scrum)

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Scrum
Reality Check

- ~~Product owner defines well-defined user stories~~ *Bad specification.*
- ~~Regularly backlog refinements~~ *No refinements at all.*
- ~~Everyone knows the current progress~~ *Staled tickets. No estimates.*
- ~~Clear communication paths~~ *Multiple roles on the same person.*
- ~~Software development is so much faster~~ *Meeting madness.*
- ~~Everybody is happy~~ *No retros -> no improvements.*

agilemanifesto.org

Scrum

Agile Manifesto (agilemanifesto.org)

- **Individuals and interactions** over processes and tools
- **Working software** over comprehensive documentation
- **Customer collaboration** over contract negotiation
- **Responding to change** over following a plan

Francesco Veronesi (francesco_veronesi)

DevOps

DevOps
Reality Check

- ~~DevOps everywhere~~ *Some like 9to5.*
- ~~Everybody lives the spirit~~ *"I don't want to do ops"*
- ~~Actually manage infrastructure~~ *Insufficient access rights/trust.*
- ~~Getting things done (faster)~~ *Tools/Know-how missing.*
- ~~Ops people aren't needed anymore!~~ *Who builds the tools? Who is on-call?*
- ~~Everybody is happy~~ *Nope.*

COMPLEX

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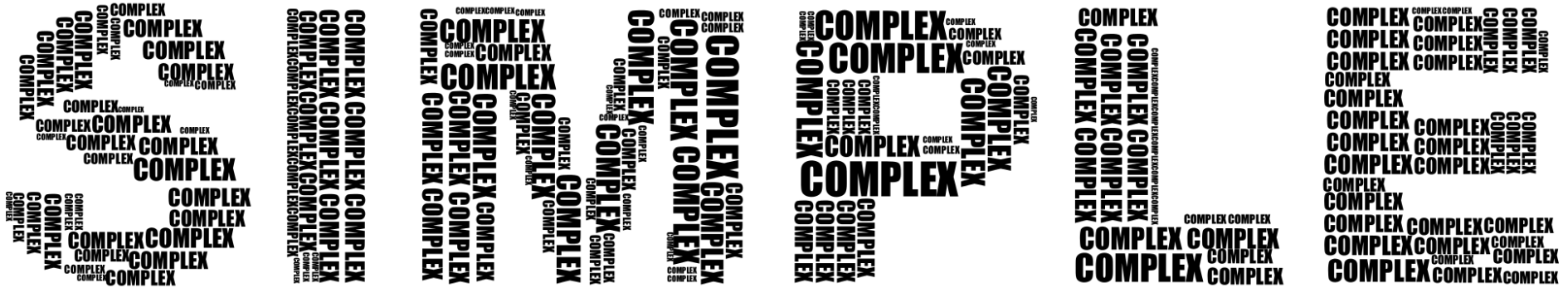


Docker & Kubernetes

Docker & Kubernetes

Reality Check

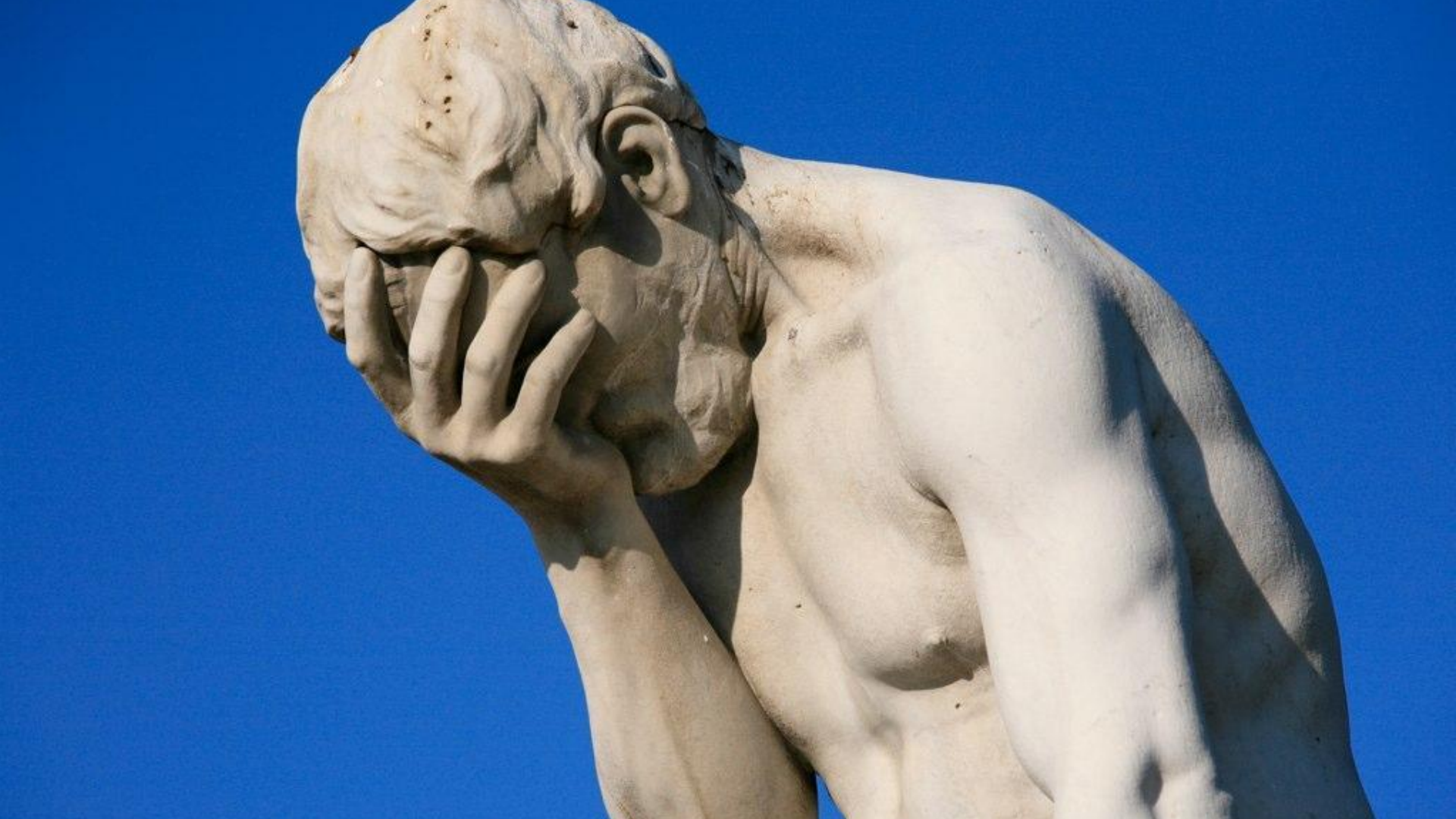
- ~~Perfect workload~~ *Cloud-native? A monolith in a container..*
- ~~Scale indefinitely~~ *Not capable of HA.*
- ~~Easy deployment~~ *Container as VM replacement.*
- ~~Downtime-free~~ *No HA, no rolling update!*
- ~~Easy rollbacks~~ *What about state?*
- ~~Ops people aren't needed anymore!~~ *Who runs K8s? "I hate YAML"*
- ~~Everybody is happy~~ *Docker & K8s changes a lot..*

Continuous Integration & Delivery

Continuous Integration & Delivery

Reality Check

- ~~Transparency~~ *Silo-thinking. Bad Git/CI integration.*
- ~~Easier build failure troubleshooting~~ *Long-running jobs. Flapping tests.*
- ~~Fast development~~ *Local environment != CI environment*
- ~~Automated build/test/release/deploy~~ *Databases? External APIs?*
- ~~Rapid releases~~ *MGMT says no. Environments level over 9000?*
- ~~More code reviews~~ *Distributed team? Bad capacity planning?*
- ~~Parallelization~~ *"Can I have JDK version x?" - CI still not containrized.*



Conclusions

- **Individuals and interactions** over processes and tools!
- Ask which problem should be solved!
- Keep it simple stupid!
- Do it incremental!
- Accept failures! (early, often, fast)

If you want to increase your success rate, double your failure rate.

Thomas J. Watson

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DevOps

Why does it matter?

- ➔ Devs are the better Ops!
- ➔ Automation everywhere! (APIs)
- ➔ Emancipation!
- ➔ It saves money! ☺
- ➔ Everybody does! ☺

Docker & Kubernetes

Why does it matter?

- ➔ Lightweight!
- ➔ Faster!
- ➔ Google made it!
- ➔ Docker/Kubernetes is made from our people!
- ➔ Self-managed build and runtime!
- ➔ Easier to scale!
- ➔ API for everything, it's PaaS!
- ➔ It saves money! ☺
- ➔ Everybody does! ☺

Scrum

Why does it matter?

- ➔ Transparency!
- ➔ Short development cycles!
- ➔ More accurate estimates!
- ➔ Emancipation!
- ➔ It saves money! ☺
- ➔ Everybody does! ☺