

# Entwickler und Architekten

Strategien 2020

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# Oliver Sturm

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# Agenda

Idee: Technologie diskutieren

Was sind Ihre Fragen? Diskussionspunkte?

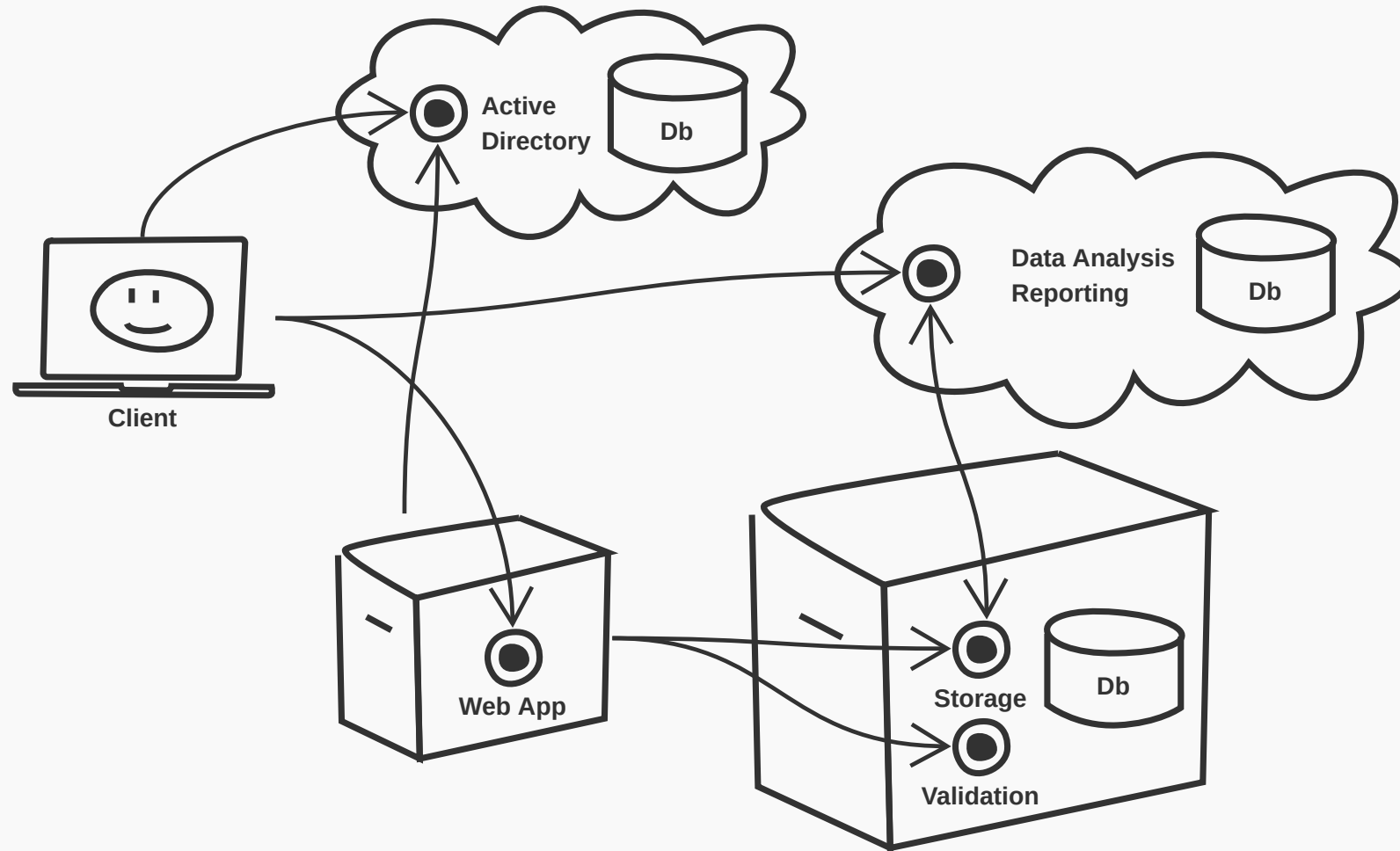
# Anregungen

- Microservices, ja oder nein? Und wie?
  - Cloud - muss das sein? Welche? Worauf kommt's an?
  - Serverless - wird da nicht alles schwieriger?
  - Container und VMs - Docker, Kubernetes, Vagrant, Terraform...
  - Blazor? Ist das die Zukunft? Server mit SignalR oder Client mit WASM?
  - Wie mache ich am besten Mobile?
  - gRPC - Microsoft's neuer (?) Hype
- CQRS? Event Sourcing? Eventual Consistency? Moderne Datenzugriffspatterns
  - React vs Vue vs Angular usw....
  - TypeScript oder doch einfach JavaScript?
  - Oliver Sturm's Best Practices Architekturmodell

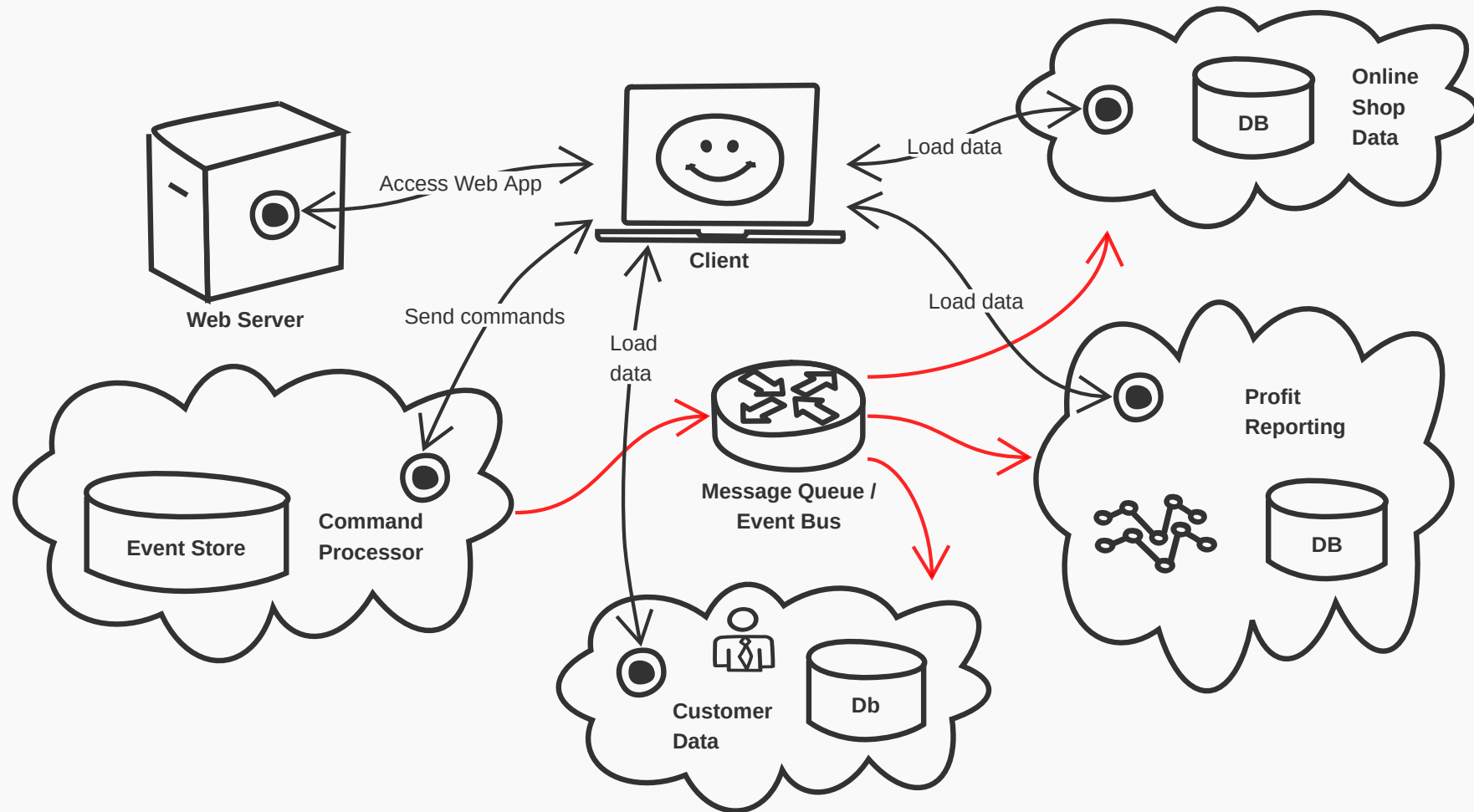
# Fragen

- *noch keine*

# Dienststruktur

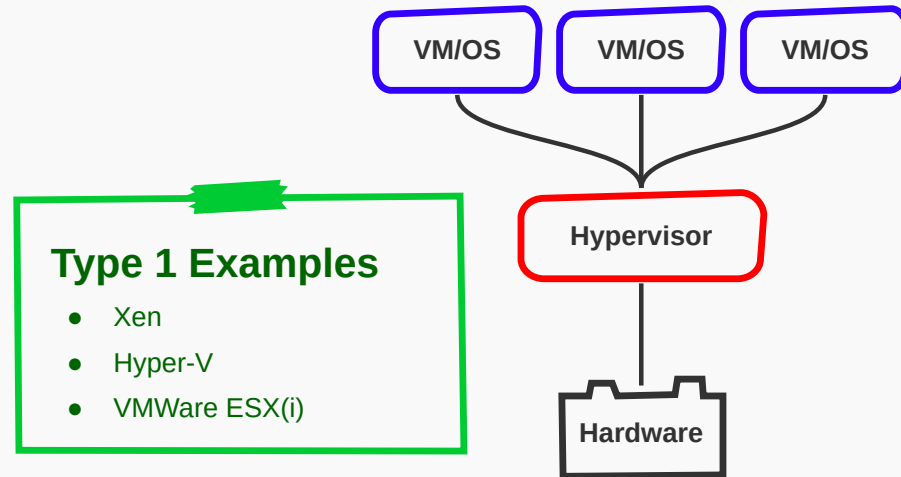


# CQRS und Event Sourcing

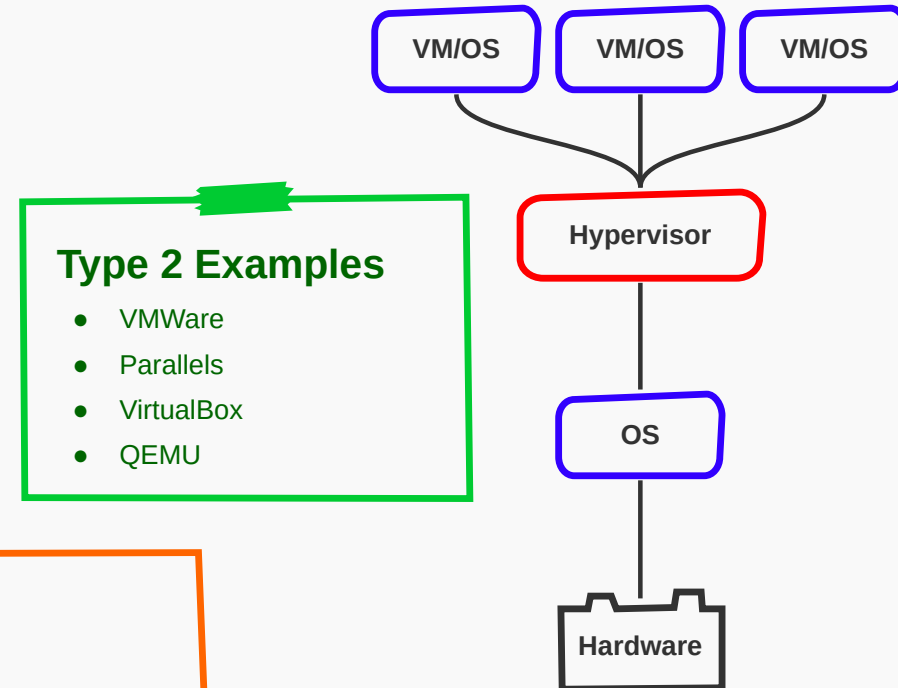


# Hypervisors

## Type 1 Native Hypervisor



## Type 2 Hosted Hypervisor

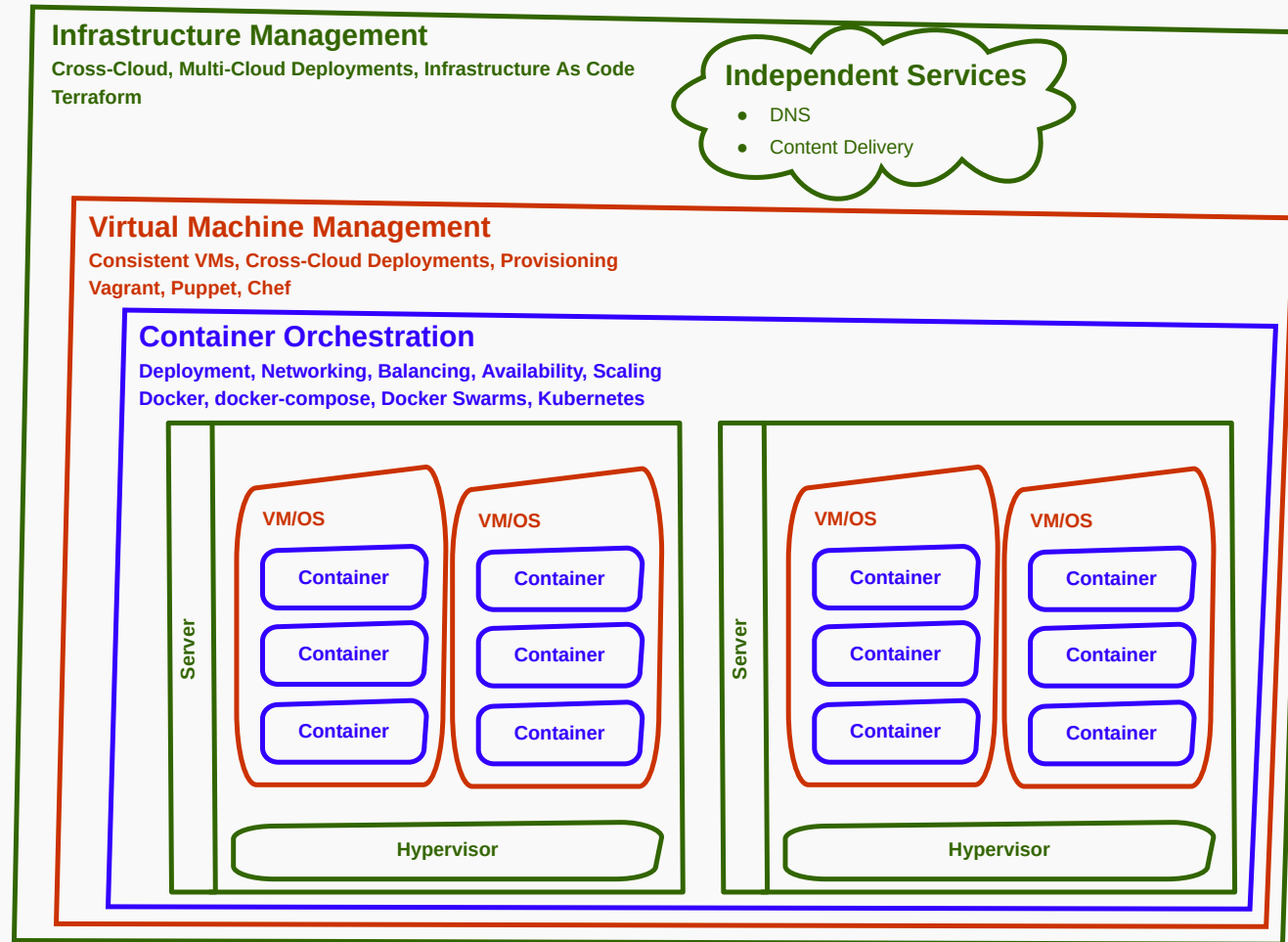


### A bit complicated

- KVM - can be type 1 or 2
- Hyper-V really is type 1



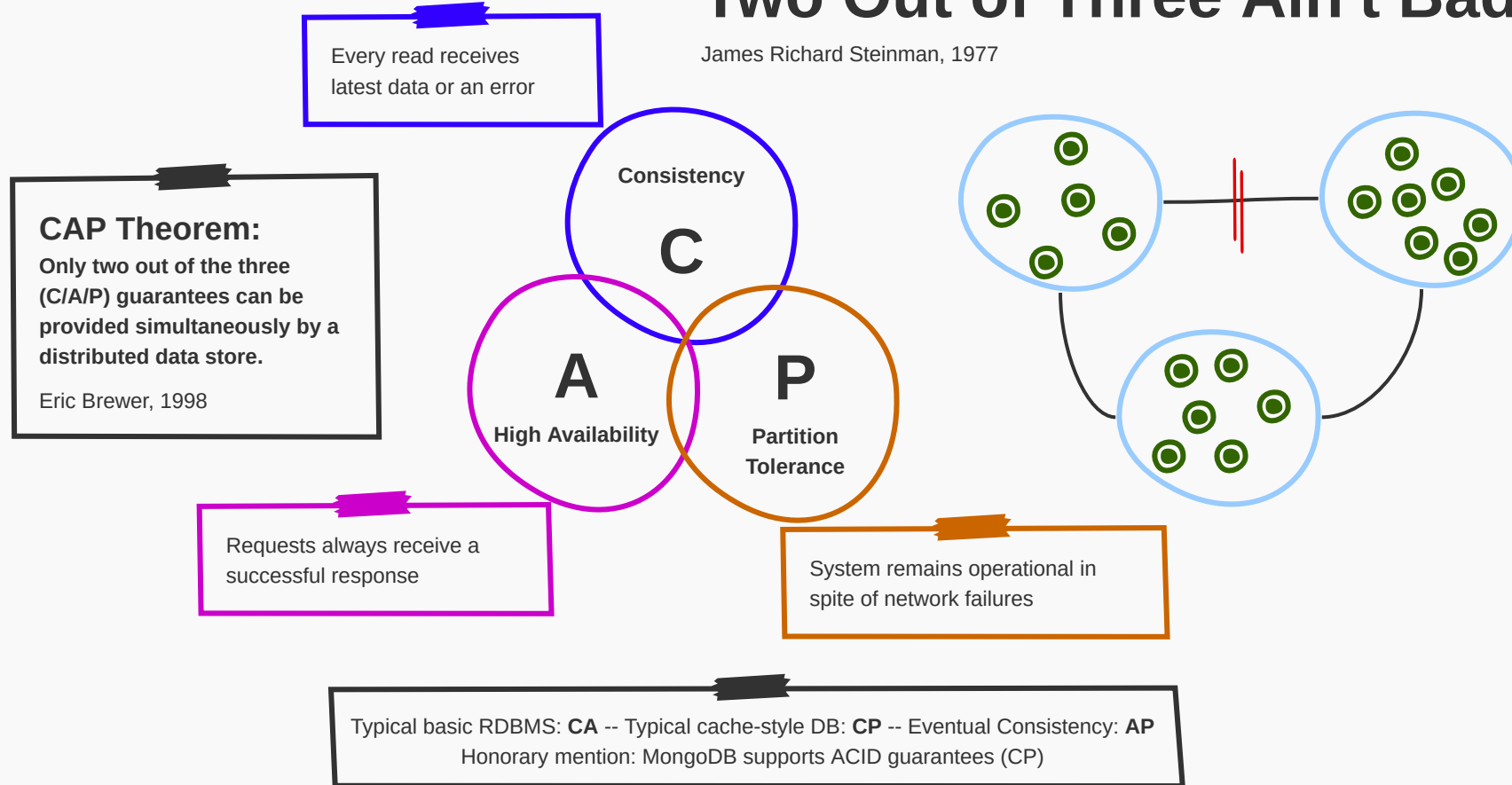
# Container und VMs



# CAP Theorem

## Two Out of Three Ain't Bad

James Richard Steinman, 1977



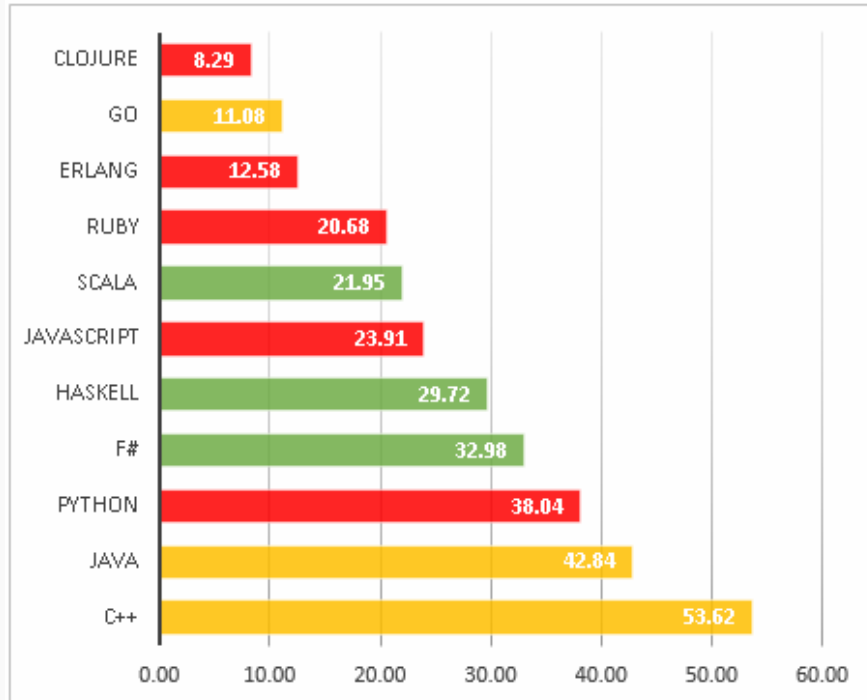
# JavaScript vs TypeScript

## Languages by bug density - GitHub repos with >100 stars

In green, in the "advanced" static typed languages corner: Haskell, Scala and F#.

In orange, in the "old and boring" static typed languages corner: Java, C++ and Go.

In red, in the dynamic typed language corner: JavaScript, Ruby, Python, Clojure and Erlang.



Daniel Lebrero, May 2016, [The broken promise of static typing](#)

*My own prediction is that TDD is the deciding factor. You don't need static type checking if you have 100% unit test coverage. [ ... ]*

*I predict, that as TDD becomes ever more accepted as a necessary professional discipline, dynamic languages will become the preferred languages.*

Uncle Bob Martin, May 2016, [Type Wars](#)

When it comes to bug reduction, I think it's fair to say:

**Static types are overrated.**

Eric Elliott, June 2016, [The Shocking Secret About Static Types](#)

**I will not use the current version of TypeScript in my next large scale application, because the larger the project is, the more the costs of using TypeScript compound.**

Eric Elliott, January 2019, [The TypeScript Tax](#)

# Sources

- This presentation:
  - <https://oliversturm.github.io/developers-and-architects/basta-spring-2020>
  - PDF download:  
<https://oliversturm.github.io/developers-and-architects/basta-spring-2020/slides.pdf>

# Thank You

Please feel free to contact me about the content anytime.

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