

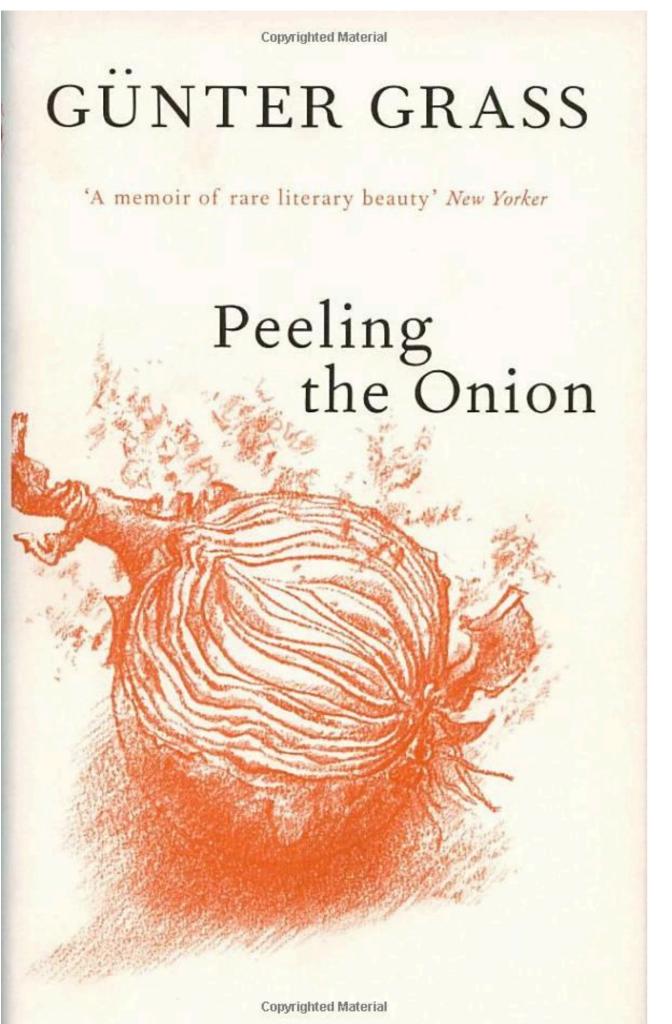
Peeling the Onion - Microservices, one Layer at a Time

@AndreasKoestler



What's in a Name?

- Onions
- Buzzwords (Microservices)



What's in a Name?

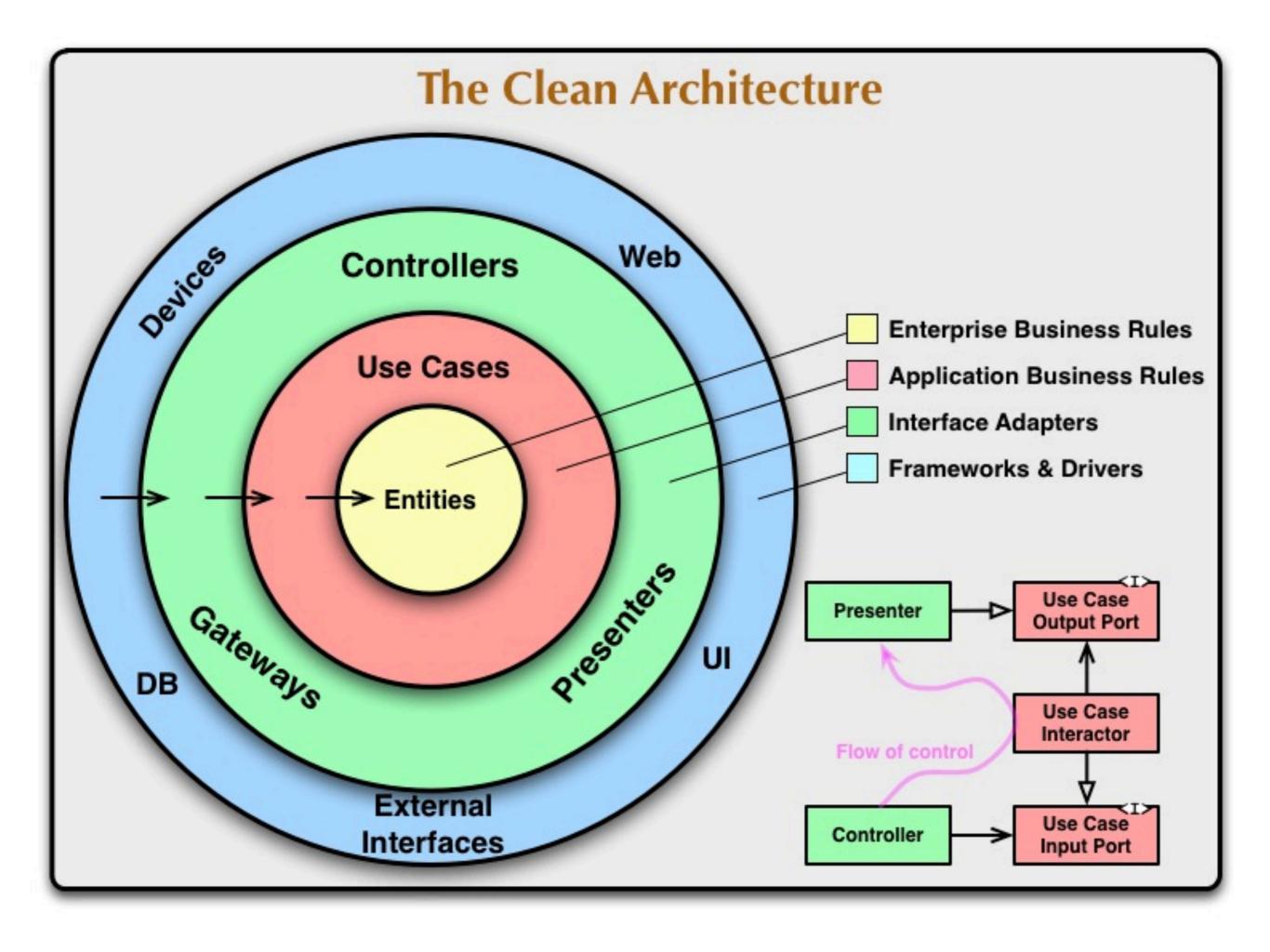
* 1927 (Gdańsk) † 2015 (Lübeck)

How do we Build Software?

- Hexagonal Architecture/Ports and Adapters (Alistair Cockburn 2005)
- The Onion Architecture (Jeffrey Palermo 2008)
- Screaming Architecture (Robert Cecil Martin 2011)
- Data, Contexts, Integration: DCI Architecture (Reenskaug, Coplien 2009)
- Boundary/Control/Entity (Ivar Jacobson, 80s)

Many Names, Similar Goals

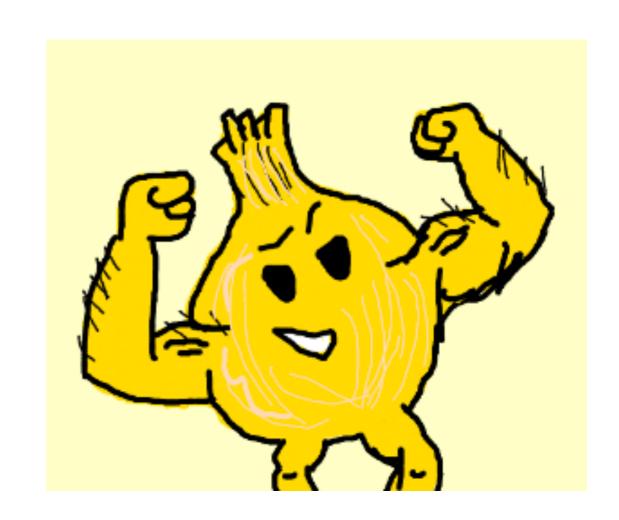
- Independent of Frameworks
- Testable
- Independent of presentation layer/UI
- Independent of DB/Storage
- Independent of external agency





John De Goes Onion

- At the centre, semantics encoded in language of the domain
- Beginning at the centre, each layer is translated to a language with lower level semantics
- The outermost layer is the final language

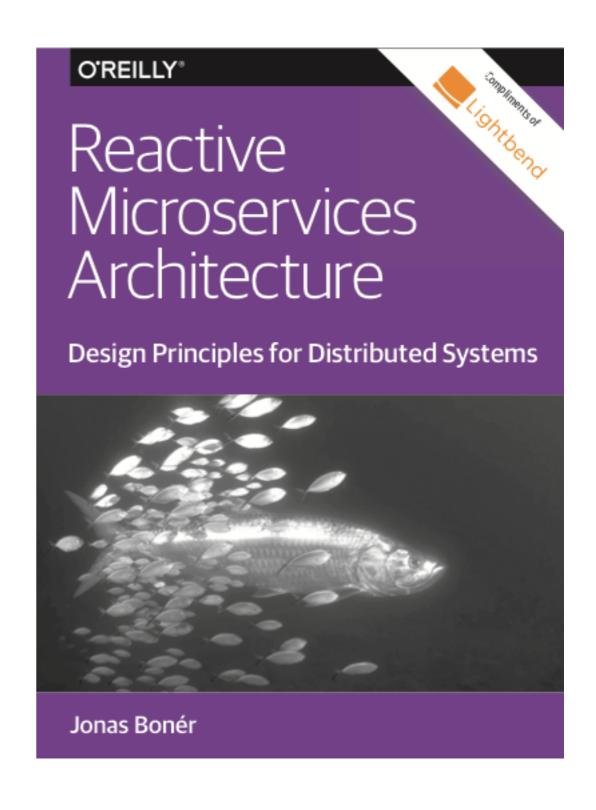


Micro Services

 "Loosely-coupled service oriented architecture with bounded contexts" - Adrian Cockcroft

Micro Services

- Asynchronous Communication
- Isolation
- Autonomous
- Single Responsibility
- Exclusive State
- Mobility



How Big is a Microservice?



Get this:)

https://github.com/AndreasKostler/scalawave/tree/master