

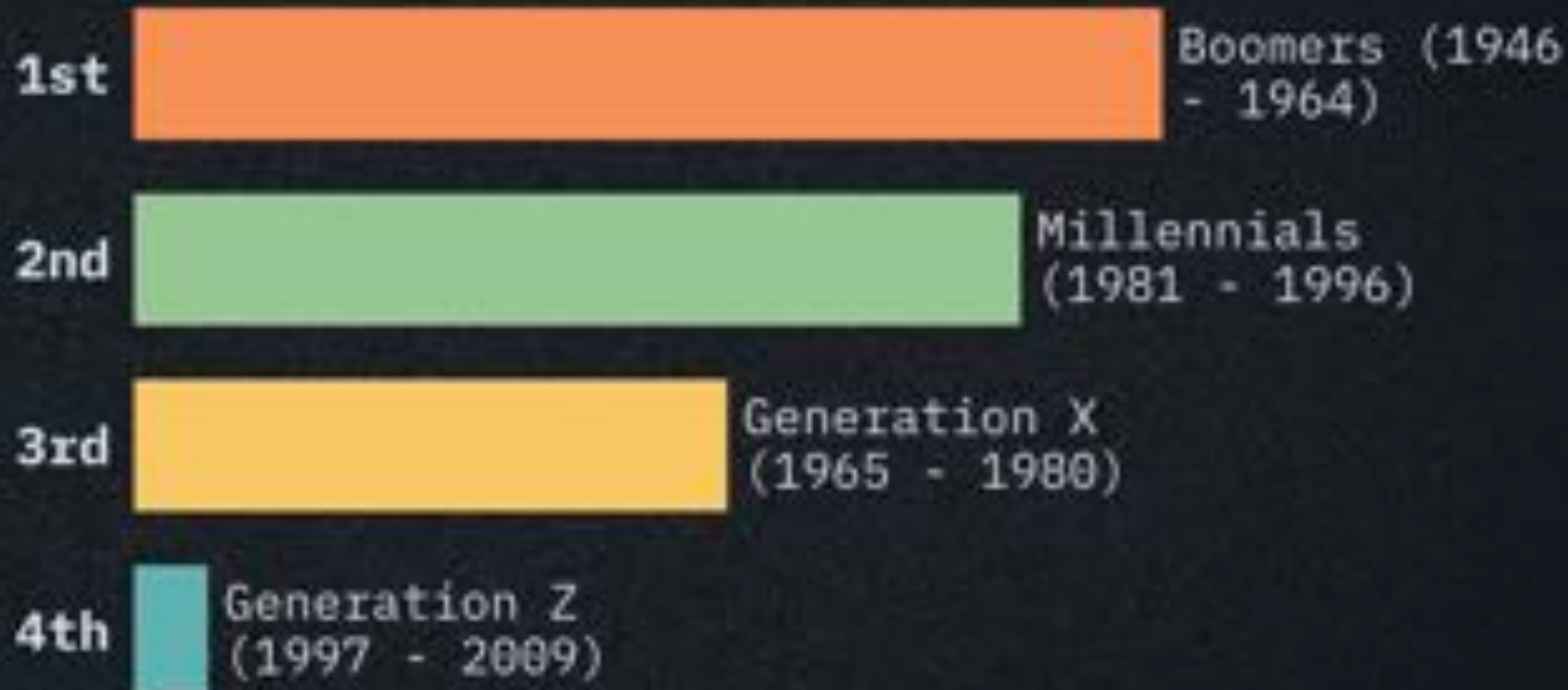
Guns, lots of guns
...there is no silver bullet

— a quest for perspective



Generation cohorts

M Mentiimeter



Generation Z

The Zoomers



MALTE POEGEN MIKKEL NOE NYGAARD LUXSHAN RATNARAVI
NIGEL BAKER JAS KRUSE HENRIK KNIBERG



FELLOWSHIP OF AGILE

GOTO COPENHAGEN 2022

goto;



Lars Kruse
@lakruzz

Consultant @ heart; “I’m here to help”

Founded and co-founded 6 companies

Employed and mentored 100+ of software designers

Aided 100+ companies over 2+ decades

My Personal Agile

Continuous Delivery Evangelist

Agile stands on the shoulders of lean

DevOps stands on the shoulders of Agile

Continuous Delivery is a lean concept

*If software is eating the world,
we should answer back, fight it with it's own weapons
— Software*



Shall I describe it to you?
Or would you like me
to find you a box?

What's happening
out there?

The Tar Pit

Fred Brooks - The Mythical Man-month 1975



The problem of software engineering is a sticky one. Even the strongest among beasts can not escape. It's like a tar pit. Eventually they sink.

The Tar Pit

Fred Brooks - The Mythical Man-month 1975

Brooks law:

"Adding manpower to a late software project makes it later"

The Surgical team:

Let the good developers program, let the other ones aid them to go faster

Plan to throw one away:

Exploration doesn't produce high quality. The pilot is a throw-away



Conways' Law

1968

*“Organizations that design systems
(in broad sense) are constrained to produce
designs which are copies of the communication
structures of these organization”*

Mel Conway, the conclusion in his paper “How do committees invent” - 1968
Presented as “Conway’s Law” by Fred Brooks in “The mythical man-month” 1975

No Silver Bullet

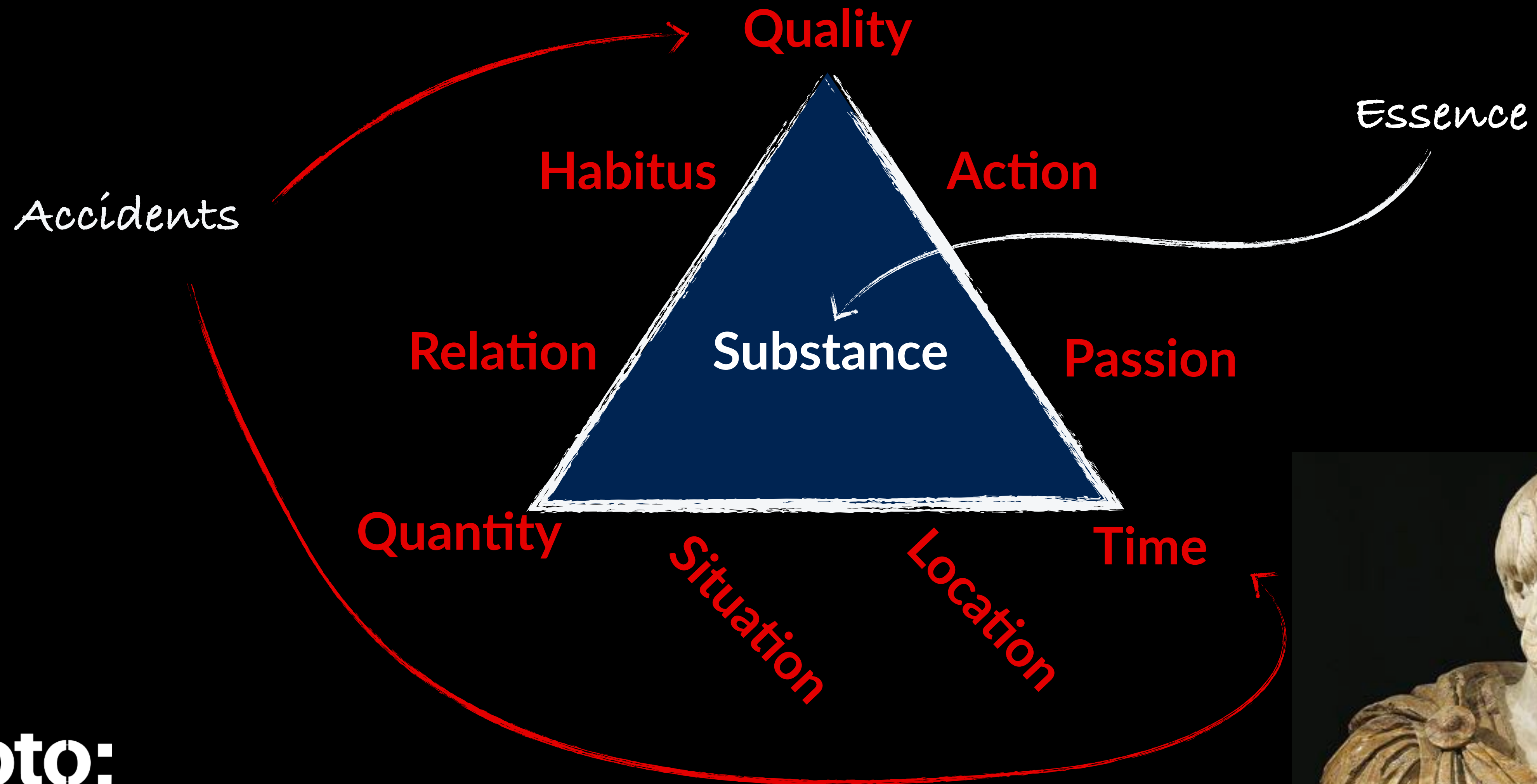
Fred Brooks - Essence and Accident in Software Engineering - 1986



There is no single development, in either technology or management technique, which by itself promises even one order-of-magnitude improvement within a decade in productivity, in reliability, in simplicity

No Silver Bullet

Fred Brooks - Essence and Accident in Software Engineering - 1986



No Silver Bullet

Fred Brooks - *Essence and Accident in Software Engineering* - 1986

Complexity is in the essence,
not in the accidents

Stop using construction metaphors
to depict software — software isn't
built

Like complexity in nature
it's grown! Software is a creative
process

Hopes for the silver?

Stop writing code, start reusing code





Did Agile Improve Software

With even a one order of magnitude

?!

“Why software is eating the world”

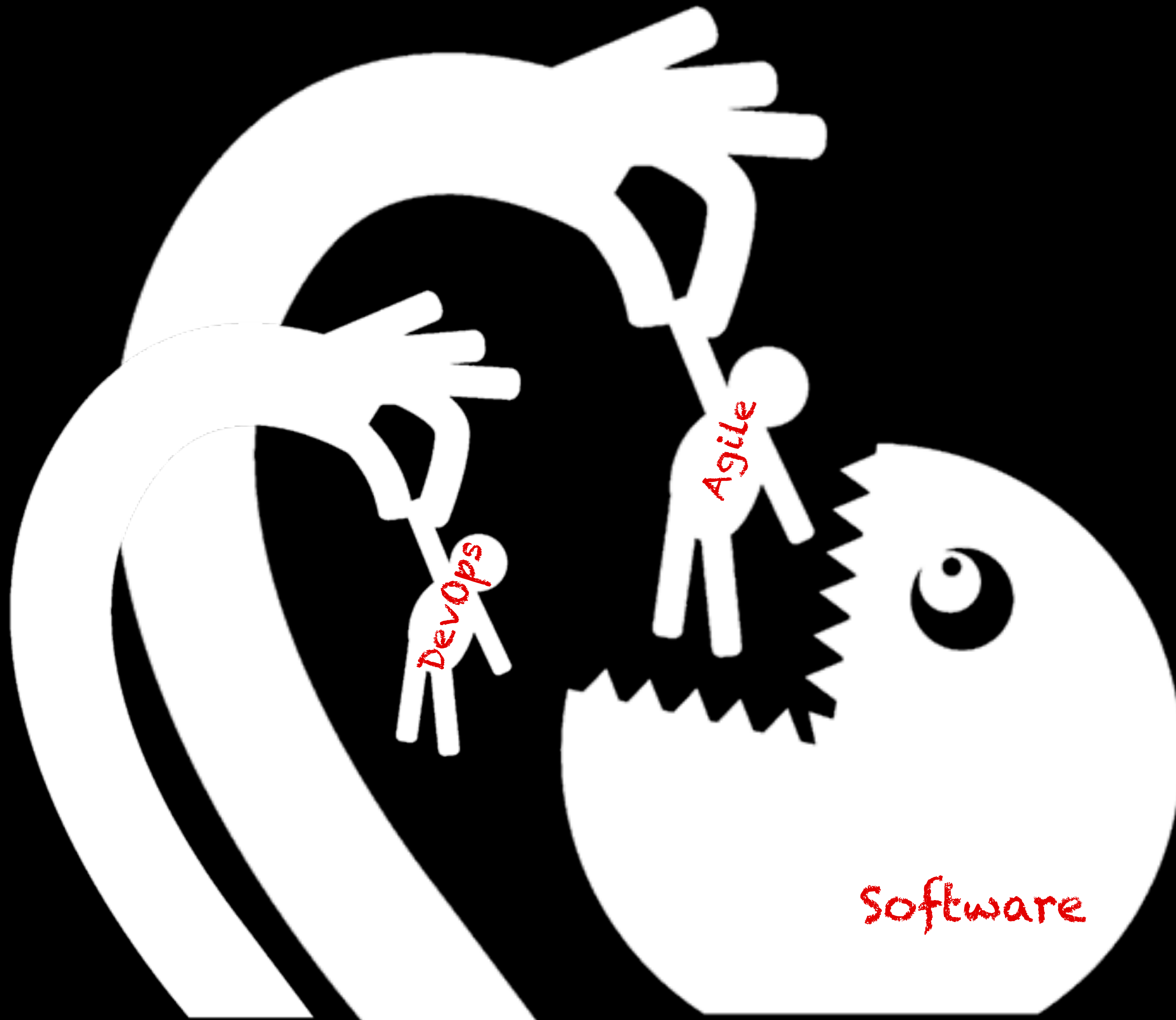
Marc Andresen, Wall Street Journal 2011

How many developers?

Wordwide in 2022

Estimated \approx 25 million professionals

The next 18 months, the world will produce as much software, as we have done for the past 40 years



Guns, lots of guns

...there is no silver bullet

— a quest for perspective

Prologue

1. How Did We Get Here?

2. Well — I Know How I Got Here!

3. What To Do About It?



SaaS Product Development

~~Startup incubator~~

~~Startup incubator~~

“Fail Cheap” Product Lab

Citizen Development



SaaS Product Development

30 ECTS (full semester)

Interdisciplinary skills

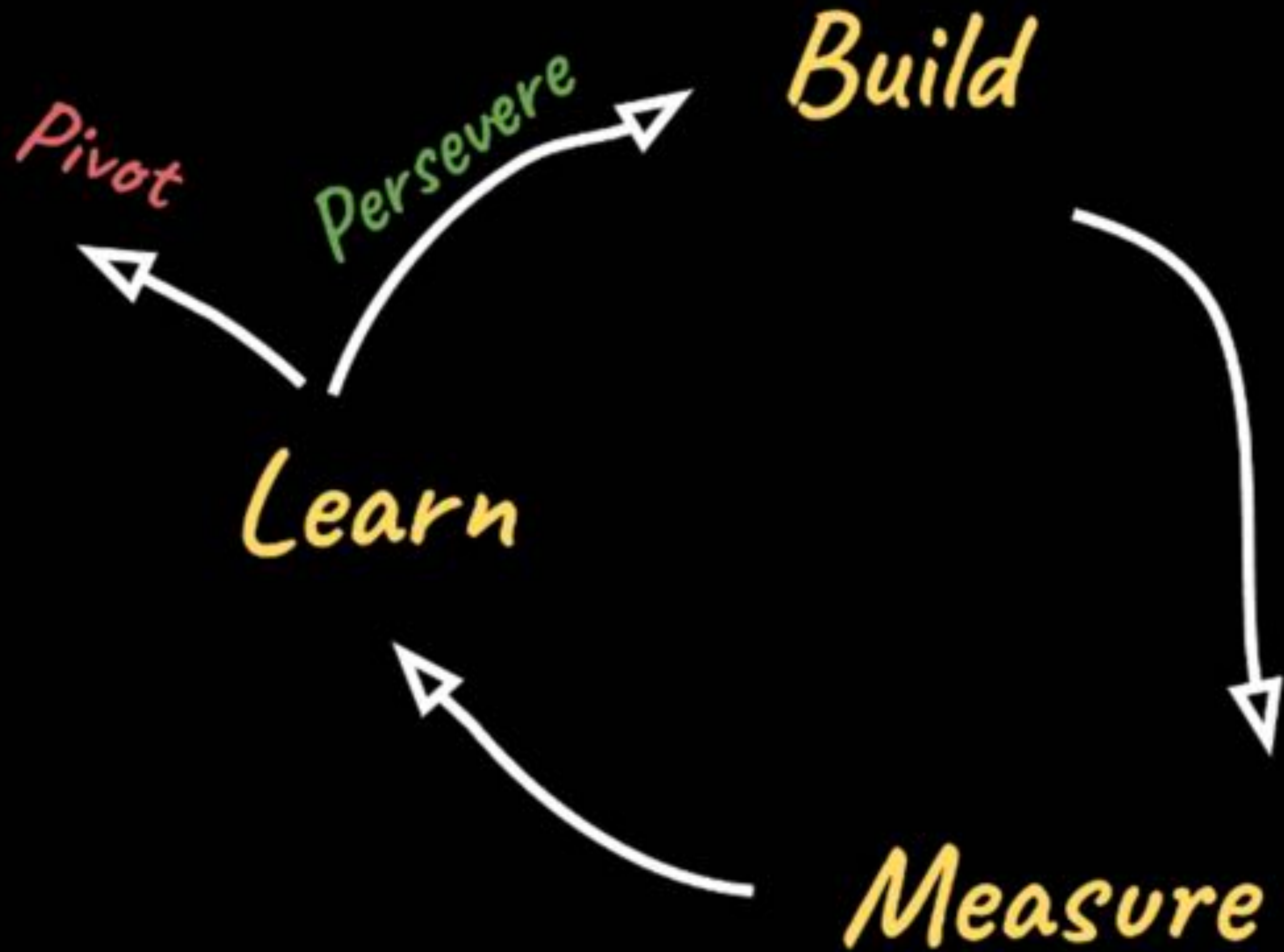
..in teams of 6

Creating a real SaaS product,
based on someone's real need

...in 20 weeks

LAKRUZZ' LAW

Any organization that sets off on a certain toolstack (processes included) will remain on that stack until eternity or end-of-life whichever comes first

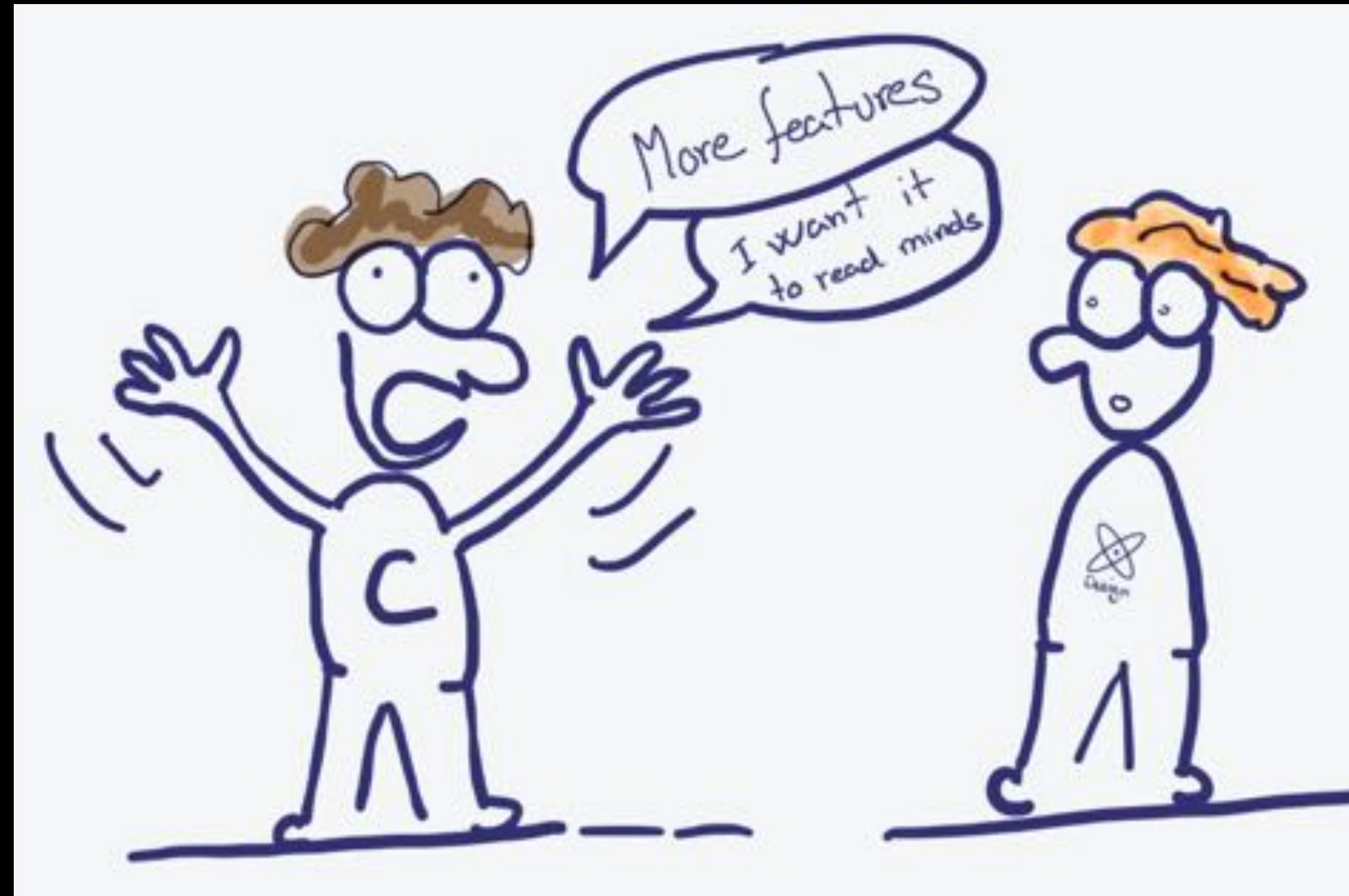


Lars Kruse, Leap of Faith Assumptions
www.linkedin.com/pulse/leap-faith-assumptions-lars-kruse/

DevOps for Startups

10 tips Agile and DevOps - to make startups delicious

1. Build the right team
2. Automate everything
3. Test in production
4. Make it scale
5. Pick the right tool stack
6. Listen to the customer
7. Be data-driven
8. Easy onboarding of users
9. Easy onboarding of developers
10. Be design-led (...not design-fed)



Get the free book at:
www.inc-inc.dk/stories/devopsforstartups

Aesthetics

Software Must Become Delicious

Kea

COPENHAGEN SCHOOL OF DESIGN
AND TECHNOLOGY



DevX

Software Must Become Delicious

Kea

COPENHAGEN SCHOOL OF DESIGN
AND TECHNOLOGY

The next big challenge in software is Aesthetics. We must invite anybody who can contribute to the aesthetics of software products into the dev teams, as 1st class citizens.

Business developers, AI experts, Market analysts, Marketeers, Graphical designers, UX designers, Security experts, Community builders, Content writers, Citizen Developers, Data Scientist, Facilitators ...everyone — X — are all equally important contributors to modern software — as well as Dev's and Ops.



DevOps
DevX

DevX

SaaS Community of Practice

Kea
COPENHAGEN SCHOOL OF DESIGN
AND TECHNOLOGY



Join group on LinkedIn: bit.ly/devx-linkedin
Follow or connect to Lars LinkedIn: [@lakruzz](https://www.linkedin.com/in/lakruzz)

Generation Z

The Zoomers

