LONG-TERM IT PROJECTS

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0. DISCLAIMER

1. ANALYSIS

WHAT TO BUILD?

WHAT PROBLEM TO SOLVE?

"The root of all evil in programming is misunderstanding of the problem. Ask right questions to right people before first line of code."

Mariusz Gil

"It's developers (mis)understanding not expert knowledge that get's released to production"

Alberto Brandolini

"Tech people must speak the language of Business people, not vice versa."

Stefan Priebsch

"The limits of my language mean the limits of my world."

Ludwig Wittgenstein

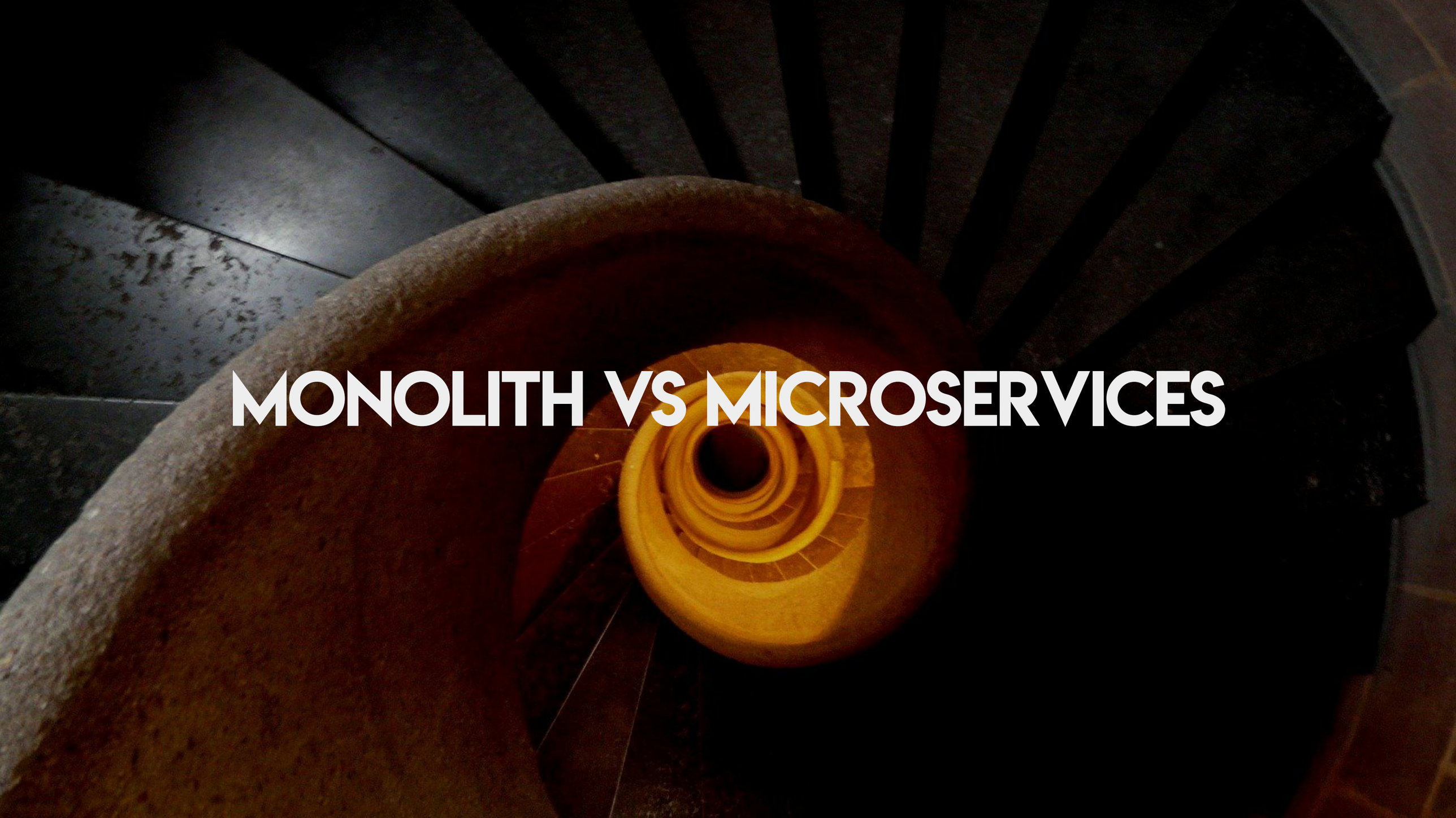
DOMAIN DRIVEN DESIGN

EVENT STORMING

"The only thing that is constant is change."

Heraclitus

2. ARCHITECTURE

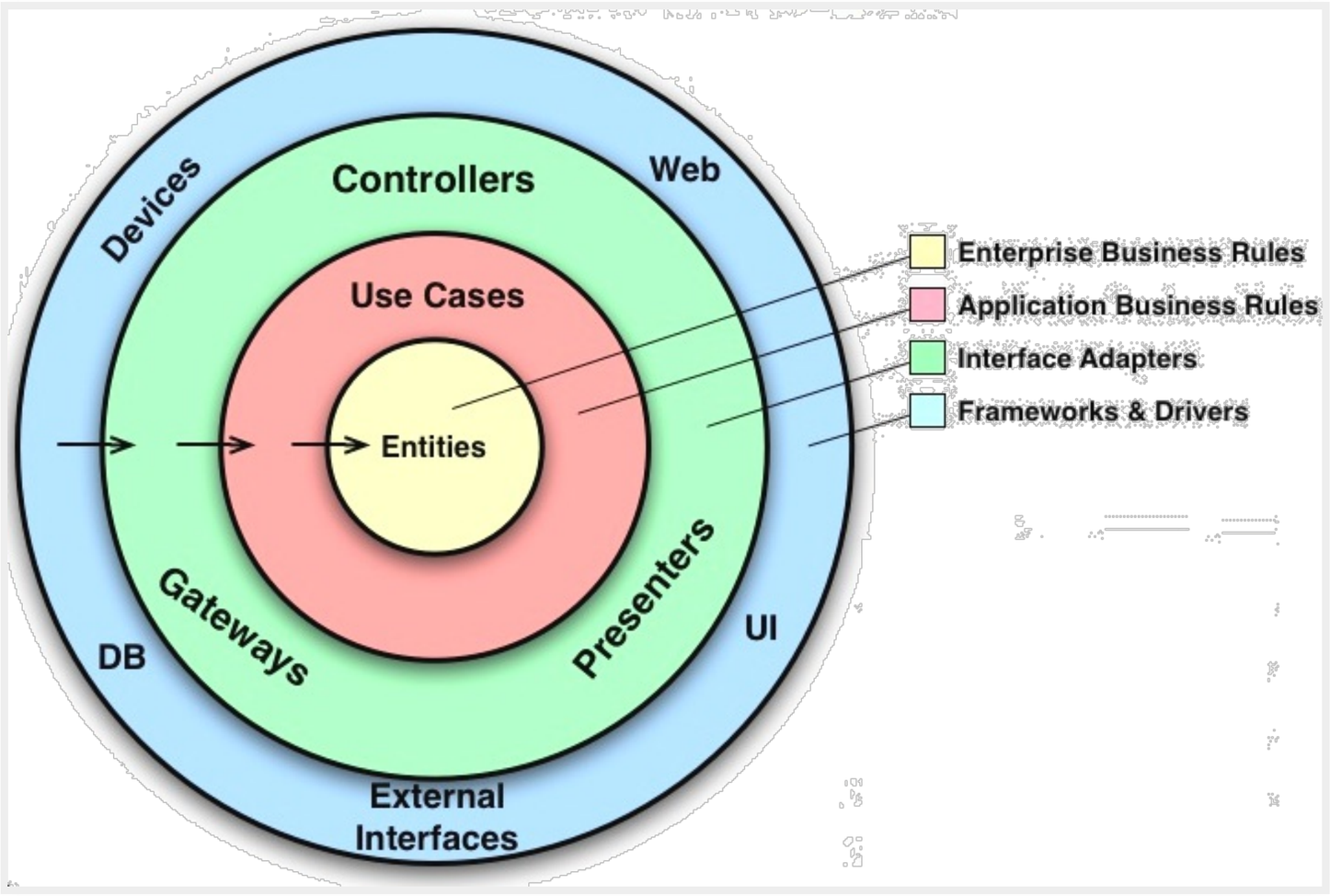

MONOLITH VS MICROSERVICES

"you shouldn't start a new project with microservices"

Martin Fowler

SERVICE ORIENTED
ARCHITECTURE

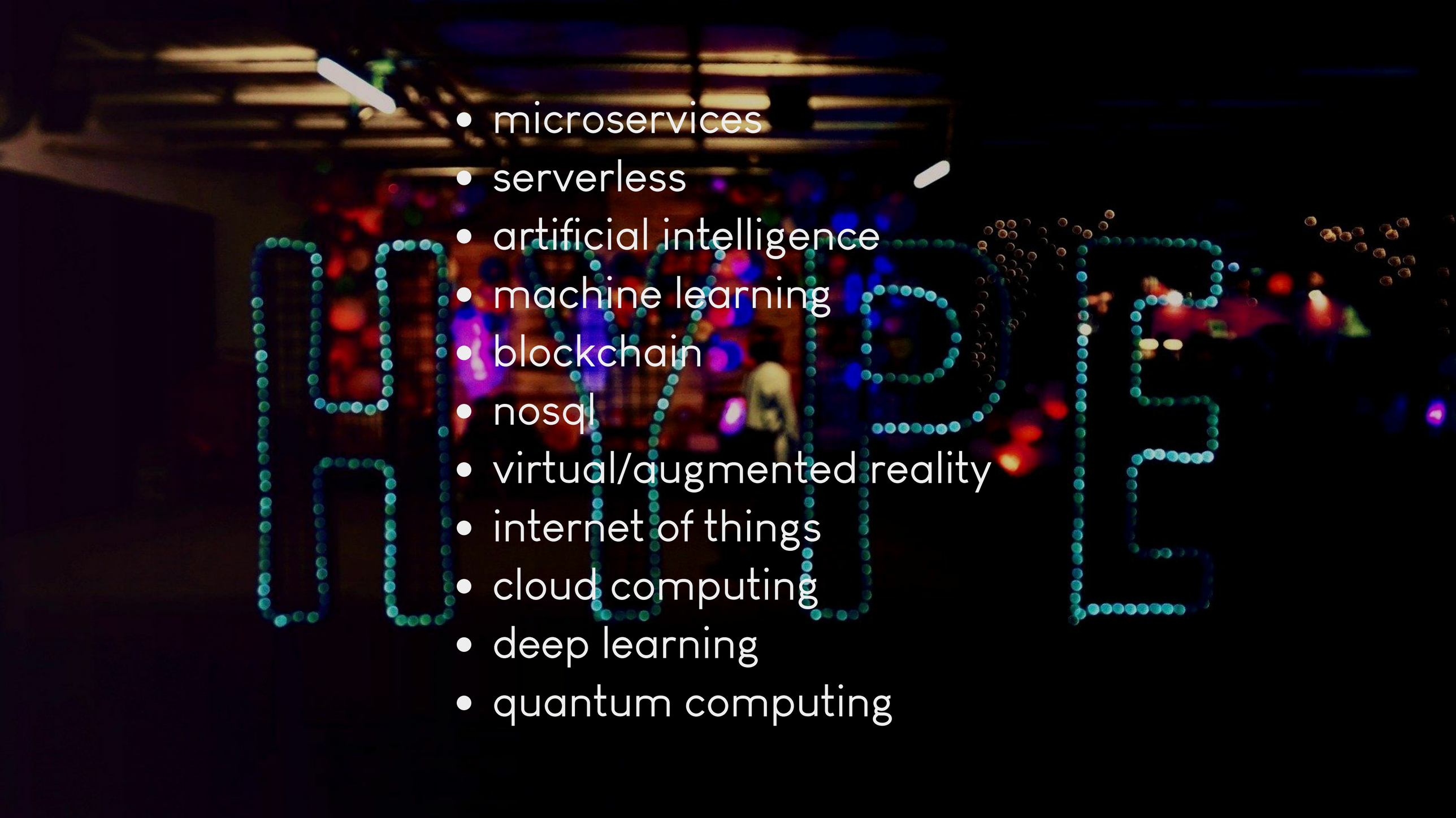
CLEAN ARCHITECTURE


Devices
Controllers
Web
Use Cases
Entities
Gateways
Presenters
DB
UI
External
Interfaces
Enterprise Business Rules
Application Business Rules
Interface Adapters
Frameworks & Drivers

YOU'RE NOT UNIQUE

DON'T REINVENT THE WHEEL

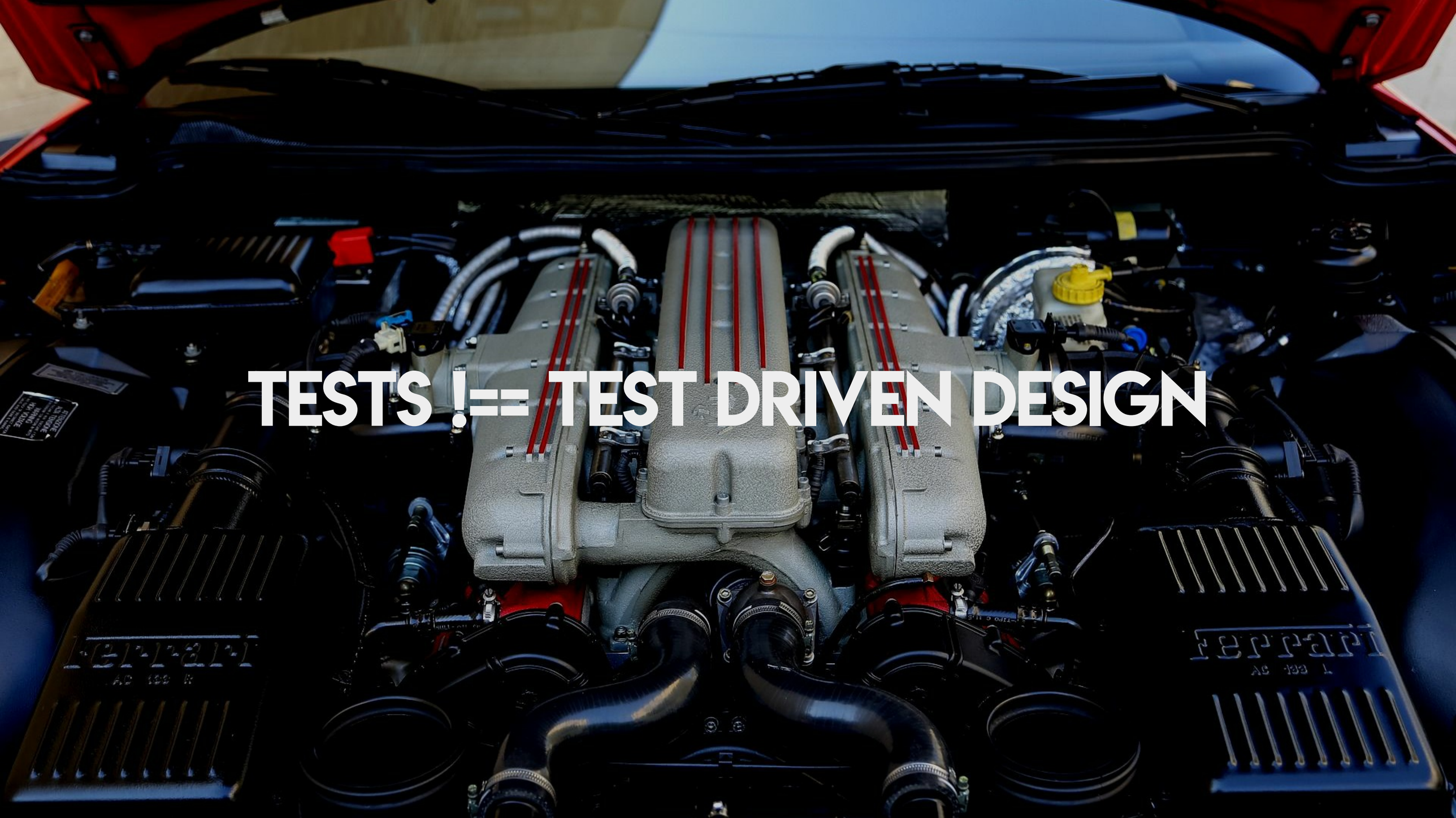
HAPPIE



- microservices
- serverless
- artificial intelligence
- machine learning
- blockchain
- nosql
- virtual/augmented reality
- internet of things
- cloud computing
- deep learning
- quantum computing

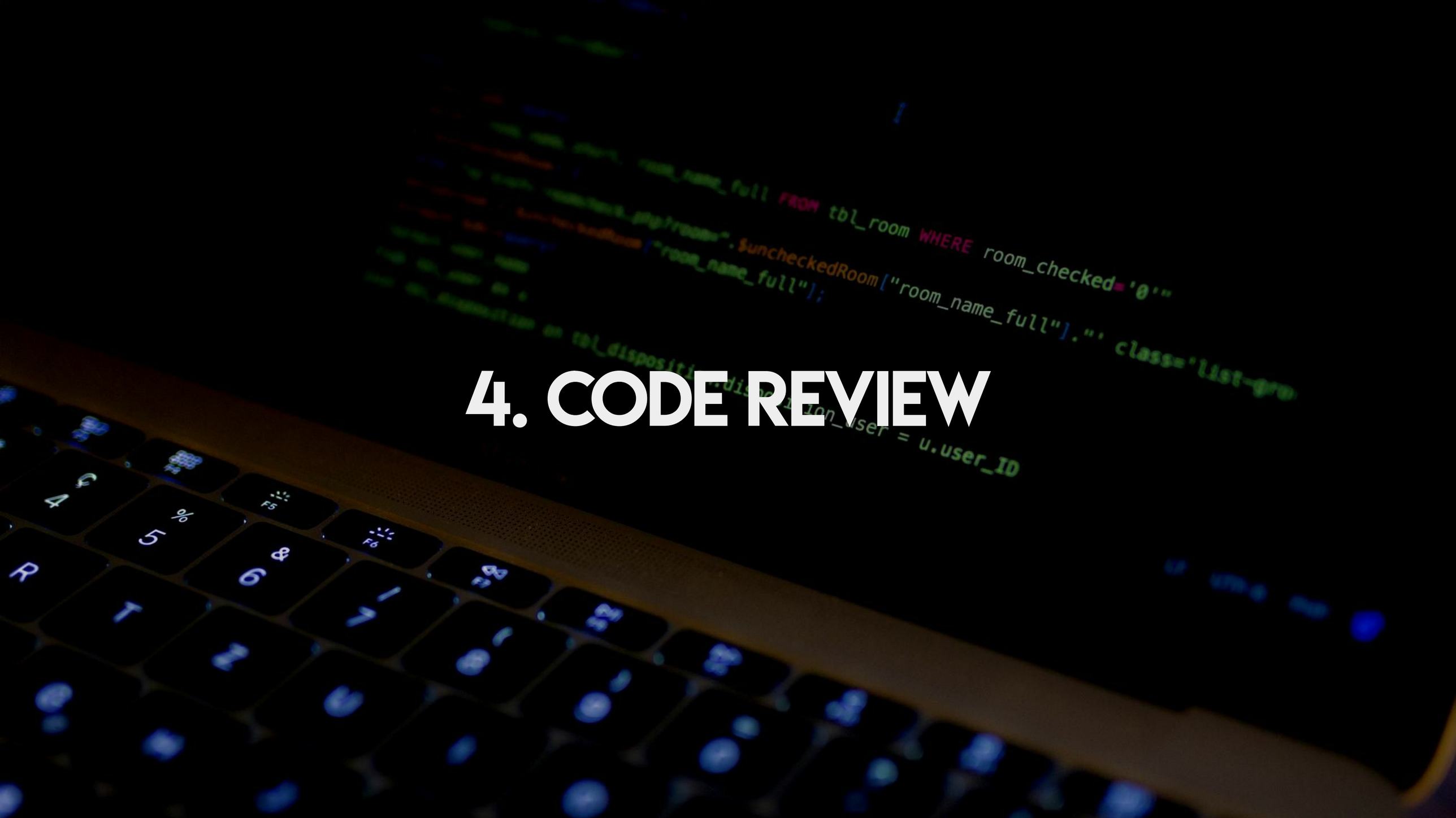
3. TESTS

TEST DRIVEN DESIGN
Ferrari
Ferrari


TESTS !== TEST DRIVEN DESIGN

"If it's hard to write a test, it's a signal that you have a design problem, not a testing problem"

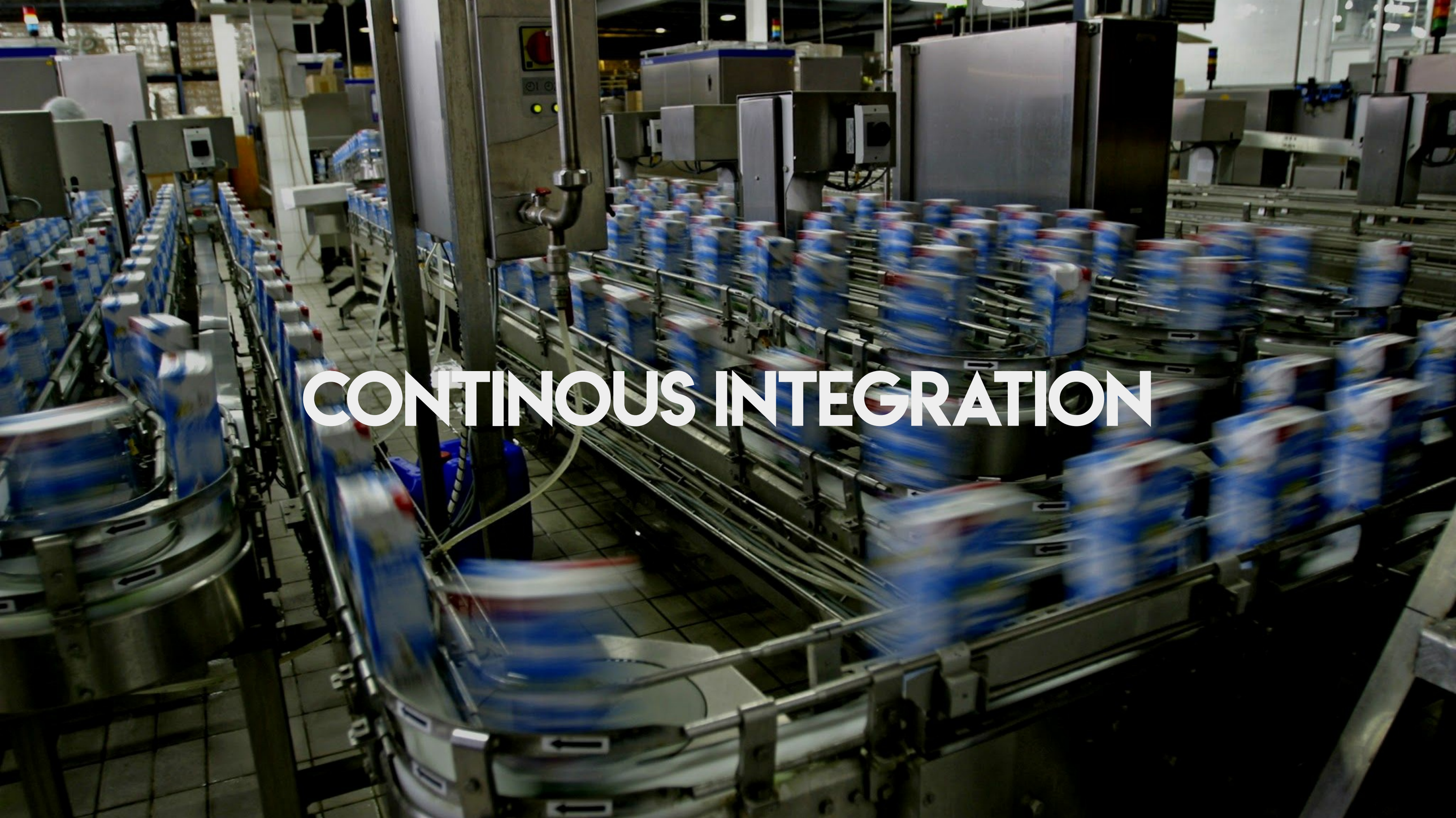
Kent Back



4. CODE REVIEW

LEARN

5. CONTINOUS ...


CONTINOUS INTEGRATION

CONTINOUS DEPLOYMENT

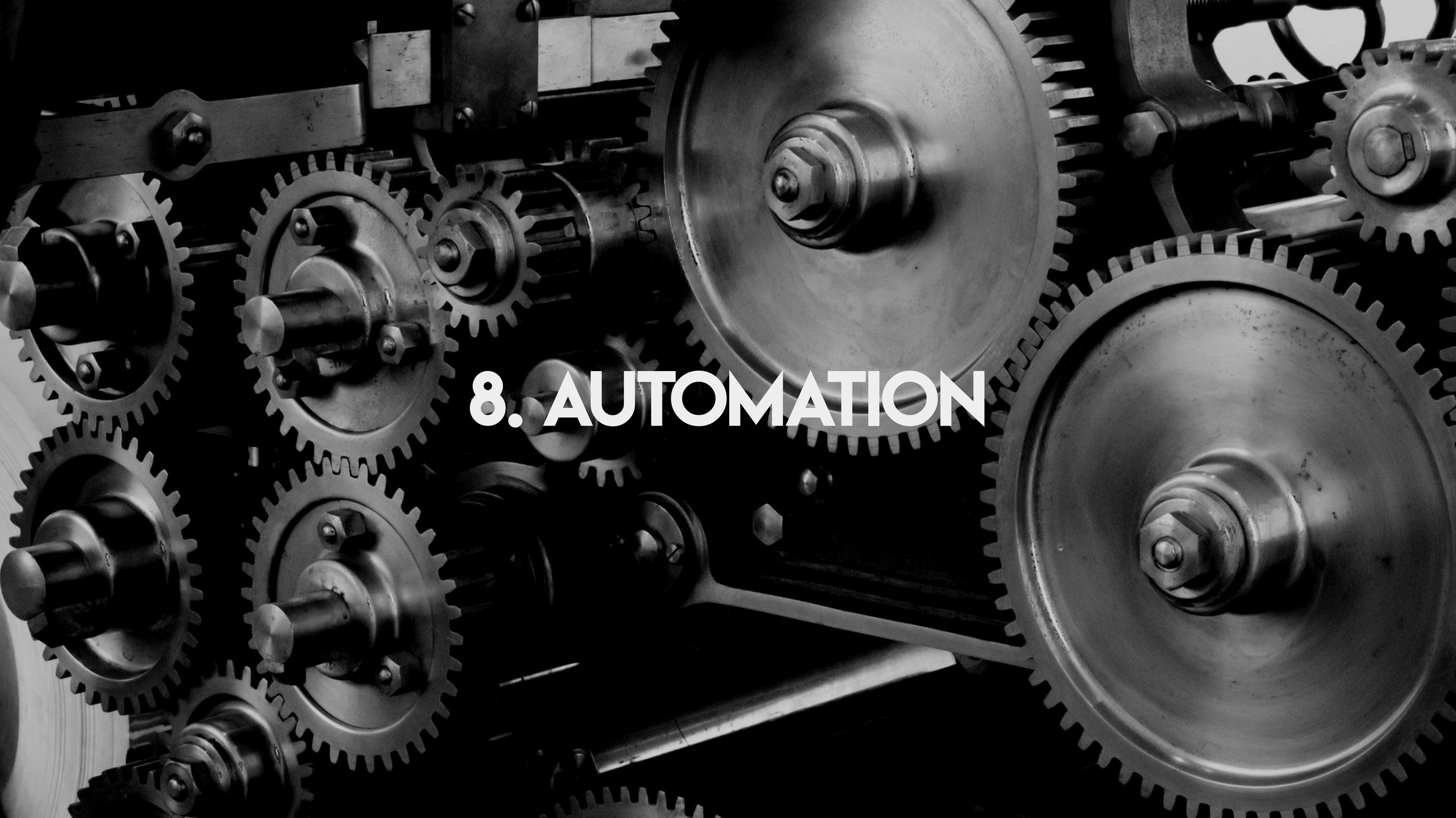
DEPLOYMENT !== RELEASE

LIKE
A
BOSS

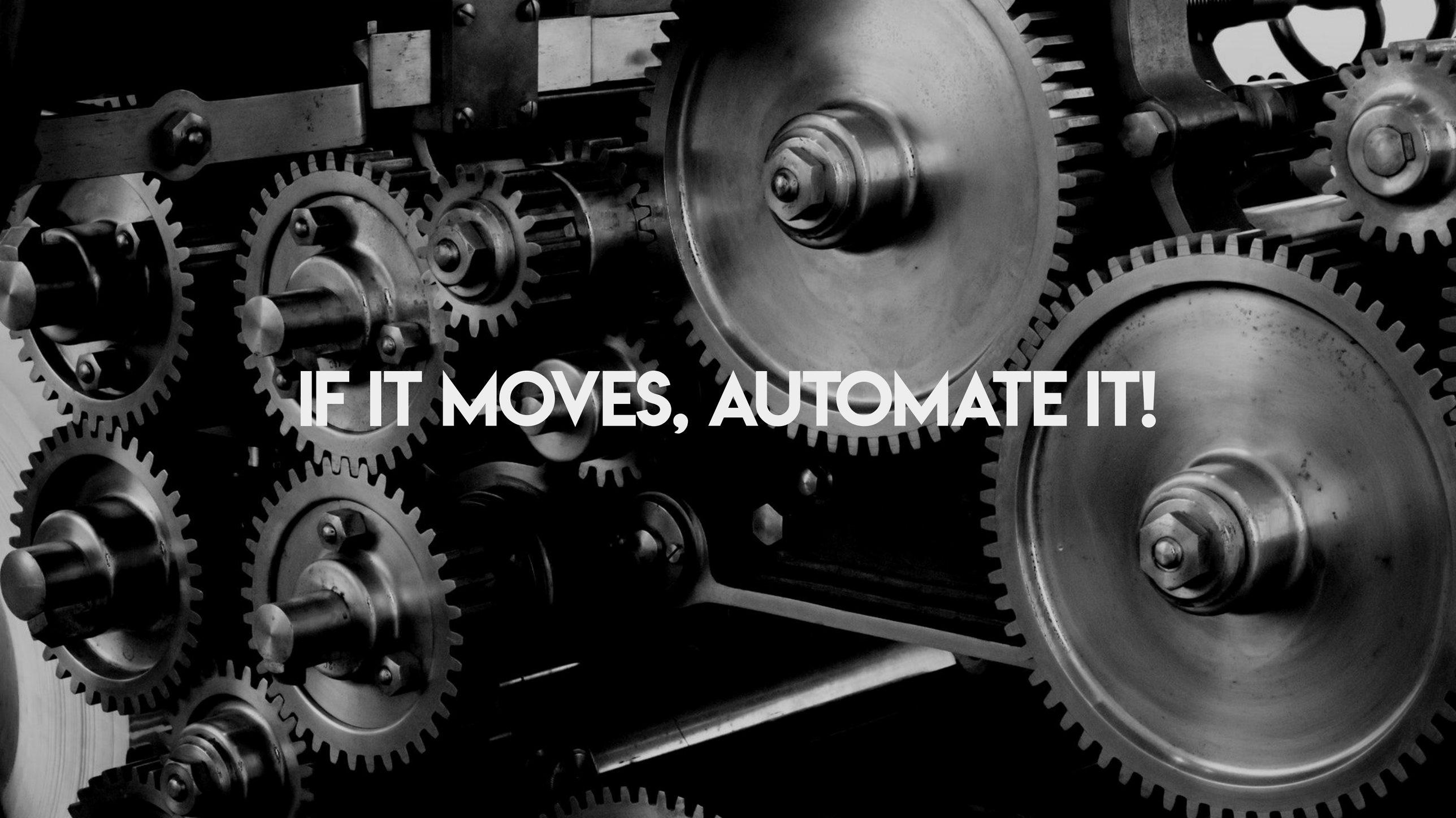
6. MONITORING & LOGGING

7. METRICS

BUSINESS METRICS

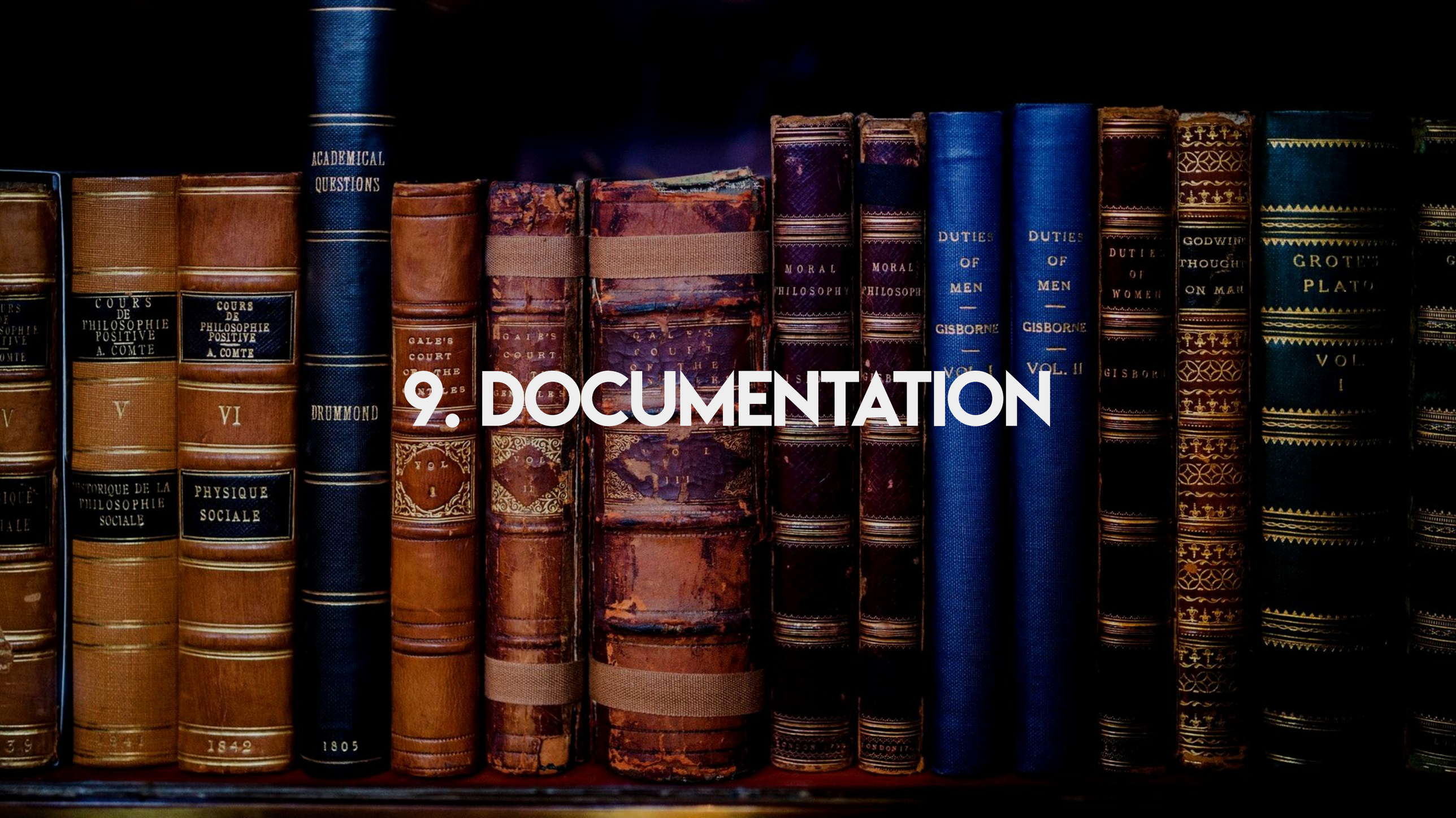


8. AUTOMATION


IF IT MOVES, AUTOMATE IT!

"If boring repetitive things aren't automated a manager gets hired."

Niranjan Paranjape



9. DOCUMENTATION

START WITH README

"Documentation is a love letter that you write to your future self."

Damian Conway

10. COMMUNICATION

COMMUNICATION
IS NOT A SOFT SKILL

COMMUNICATION
IS A CORE SKILL!

"People who don't share their knowledge look more productive because they're holding back the entire team."

Jessica Kerr

"I wish the understanding were more widespread that we plateau in coding skill mid-career, it is all about communication after that"

Denton Gentry

THANK YOU!

QUESTIONS