

LONG-TERM IT PROJECTS

A scenic view of the Gdańsk Old Town waterfront. The image shows a row of historic brick buildings with red-tiled roofs and many windows. In the foreground, there's a canal with several boats, including a white and blue ferry named 'ELZBIETA' and 'GDANSK'. A large, ornate wooden sailing ship is also visible. In the background, a tall, dark tower (the Water Tower) stands out against the sky. The sky is blue with some clouds. The overall scene is a picturesque representation of a historic European port city.



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A close-up, artistic photograph of an espresso machine. A chrome portafilter is on the left, and a dark brown ceramic cup is on the right, catching a stream of coffee. The machine's body is made of polished metal, and the background is softly blurred. The text "0. DISCLAIMER" is overlaid in the center in a bold, white, sans-serif font.

0. DISCLAIMER



1. ANALYSIS

A glowing blue DNA double helix structure is shown against a black background. The helix is composed of two intertwined strands connected by horizontal rungs representing base pairs. The entire structure has a bright blue, almost cyan, luminescent quality. The text "WHAT TO BUILD?" is centered over the middle of the helix.

WHAT TO BUILD?

A glowing blue DNA double helix structure is shown against a black background. The helix is composed of two intertwined strands connected by horizontal rungs, all of which are illuminated with a bright blue light, giving it a translucent, ethereal appearance. The helix is oriented diagonally across the frame, from the top left towards the bottom right. The text "WHAT PROBLEM TO SOLVE?" is superimposed over the center of the image in a bold, white, sans-serif font.

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 Priebisch

"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

A top-down view of a spiral staircase. The wooden handrail curves from the bottom left towards the top right. In the center of the spiral, there is a bright yellow circular object, possibly a light fixture or a decorative element. The text "MONOLITH VS MICROSERVICES" is overlaid in white, bold, sans-serif font across the middle of the image.

MONOLITH VS MICROSERVICES

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

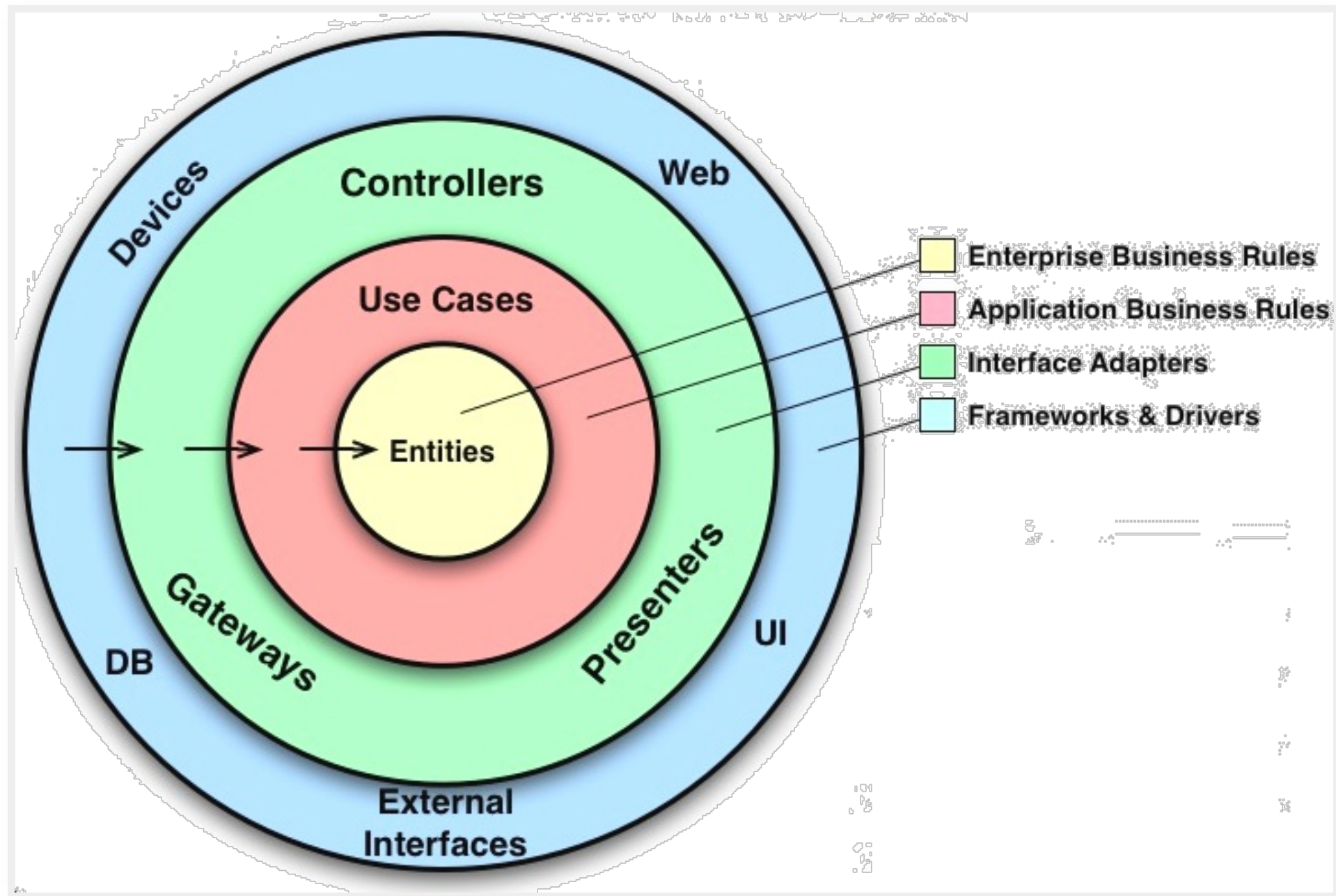
Martin Fowler

A high-angle, top-down view of a spiral staircase. The staircase has a wooden handrail and a central yellow circular light fixture. The text "SERVICE ORIENTED ARCHITECTURE" is overlaid in the center of the image.

SERVICE ORIENTED ARCHITECTURE



CLEAN ARCHITECTURE



A night sky with the Milky Way galaxy visible as a bright, hazy band of light. The sky is filled with numerous stars. In the foreground, the dark silhouette of a tree is visible on the left side, and a dark, silhouetted horizon line is at the bottom. The text "YOU'RE NOT UNIQUE" is centered in the middle of the image in a white, bold, sans-serif font.

YOU'RE NOT UNIQUE

A night sky with the Milky Way galaxy visible as a bright, hazy band of light. The sky is filled with numerous stars. In the foreground, the dark silhouette of a tree with bare branches is visible on the left side, and a dark, silhouetted horizon line is at the bottom.

DON'T REINVENT THE WHEEL

WIPES

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

3. TESTS

A detailed photograph of a Ferrari engine bay, viewed from the front. The engine is a V8, with four silver valve covers featuring three red stripes each. The intake manifold is black with 'FERRARI' and 'AC 133 L' embossed on it. Various hoses, wires, and components are visible, including a yellow-capped reservoir on the right. The background shows the dark interior of the car's hood and the red exterior of the car.

A high-angle, close-up photograph of a Ferrari V8 engine bay. The engine is a silver, horizontally-oriented V8 with three red valve covers on each side. The intake manifold is black with 'FERRARI' and 'AC 133 L' embossed on it. Various hoses, wires, and components are visible, including a yellow-capped reservoir on the right. The text 'TEST DRIVEN DESIGN' is overlaid in large, white, sans-serif capital letters across the center of the engine.

TEST DRIVEN DESIGN

A detailed view of a Ferrari AC 100 R engine, showing the central intake manifold with three red vertical stripes, the carburetors, and the surrounding engine components. The engine is housed in a dark blue chassis with 'Ferrari' and 'AC 100 R' visible on the side panels. The text 'TESTS !== TEST DRIVEN DESIGN' is overlaid in white, bold, sans-serif font across the center of the image.

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



L₁

E₁

A₁

R₁

N₁



5. CONTINUOUS ...



CONTINUOUS INTEGRATION



CONTINUOUS DEPLOYMENT



DEPLOYMENT != RELEASE



LIKE
A
BOSS

6. MONITORING & LOGGING



7. METRICS



A close-up, slightly blurred photograph of a vintage aircraft instrument panel. The panel is dark, possibly black or dark grey, and features several circular gauges with white faces and black markings. The gauges are labeled with various metrics: 'RPM' (Revolutions Per Minute), 'MANIFOLD PRESS' (Manifold Pressure), 'OIL PRESSURE', 'FUEL PRESSURE', 'OIL TEMP' (Oil Temperature), and 'CAB AIR TEMP' (Cabin Air Temperature). There are also several toggle switches and a rotary knob at the top of the panel. The overall lighting is dim, creating a moody, historical atmosphere. Overlaid on the center of the image is the text 'BUSINESS METRICS' in a large, bold, white, sans-serif font.

BUSINESS METRICS



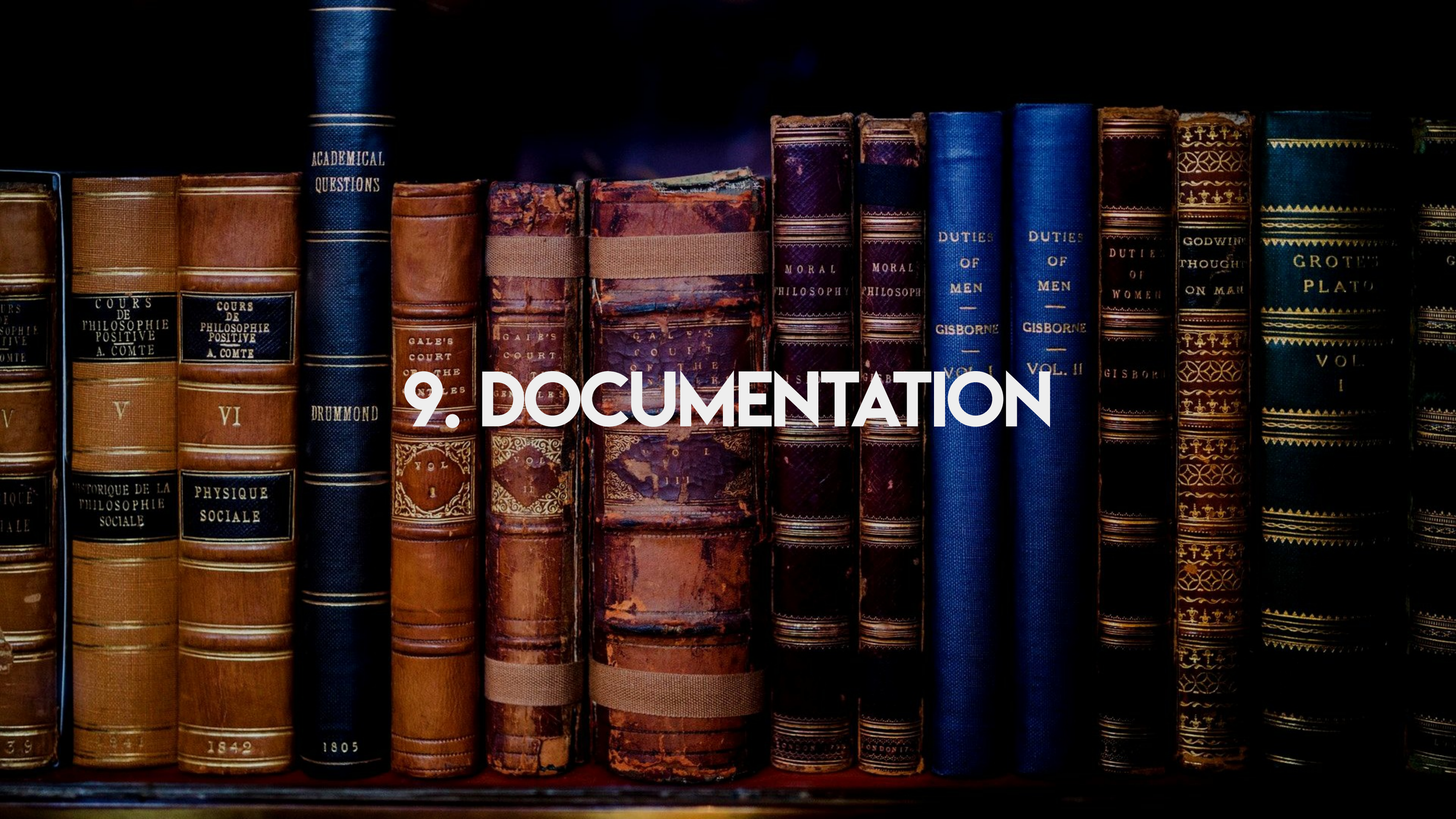
8. AUTOMATION



IF IT MOVES, AUTOMATE IT!

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

Niranjan Paranjape



9. DOCUMENTATION



START WITH README

ACADEMICAL
QUESTIONS

DRUMMOND

1805

COURS
DE
PHILOSOPHIE
POSITIVE
A. COMTE

V

HISTORIQUE DE LA
PHILOSOPHIE
SOCIALE

COURS
DE
PHILOSOPHIE
POSITIVE
A. COMTE

VI

PHYSIQUE
SOCIALE

1842

GALE'S
COURT
OF THE
ENTITIES

VOL
I

GALE'S
COURT
OF THE
ENTITIES

VOL
II

GALE'S
COURT
OF THE
ENTITIES

VOL
III

MORAL
PHILOSOPHY

MORAL
PHILOSOPHY

DUTIES
OF
MEN
—
GISBORNE

VOL. I

DUTIES
OF
MEN
—
GISBORNE

VOL. II

DUTIES
OF
WOMEN
—
GISBORNE

GODWIN
THOUGHT
ON MAN

GROTE'S
PLATO

VOL
I

"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