

An aerial photograph of a dense urban landscape, likely São Paulo, Brazil, featuring a mix of modern high-rise buildings and older structures. The image is heavily color-graded with a teal/blue tint. The sky is a vibrant blue with scattered white clouds. The text is overlaid in the center of the image.

GOOD PROJECT FROM SCRATCH

DEVELOPER'S POINT OF VIEW

A man with a beard and a microphone, looking to the right, with text overlaid.

PAWEL LEWTAK
DEVELOPER @ GOG.COM

@PAWEL_LEWTAK

A close-up, artistic photograph of an espresso machine. A chrome portafilter is positioned over a dark brown ceramic coffee cup. A single drop of dark coffee is falling from the spout of the portafilter into the cup. The machine's body is made of polished metal, and the background is softly blurred, showing the machine's internal components and a metal grate. The lighting is warm and focused on the coffee being poured.

0. DISCLAIMER

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 structure is illuminated from within, giving it a translucent, ethereal appearance. The text "1. ANALYSIS" is centered over the middle of the helix.

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 in 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

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

Stefan Priebisch

DOMAIN DRIVEN DESIGN





EVENT STORMING

WATERFALL VS AGILE



"The only thing that is constant is
change."

Heraclitus



2. ARCHITECTURE

MONOLITH VS MICROSERVICES

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

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

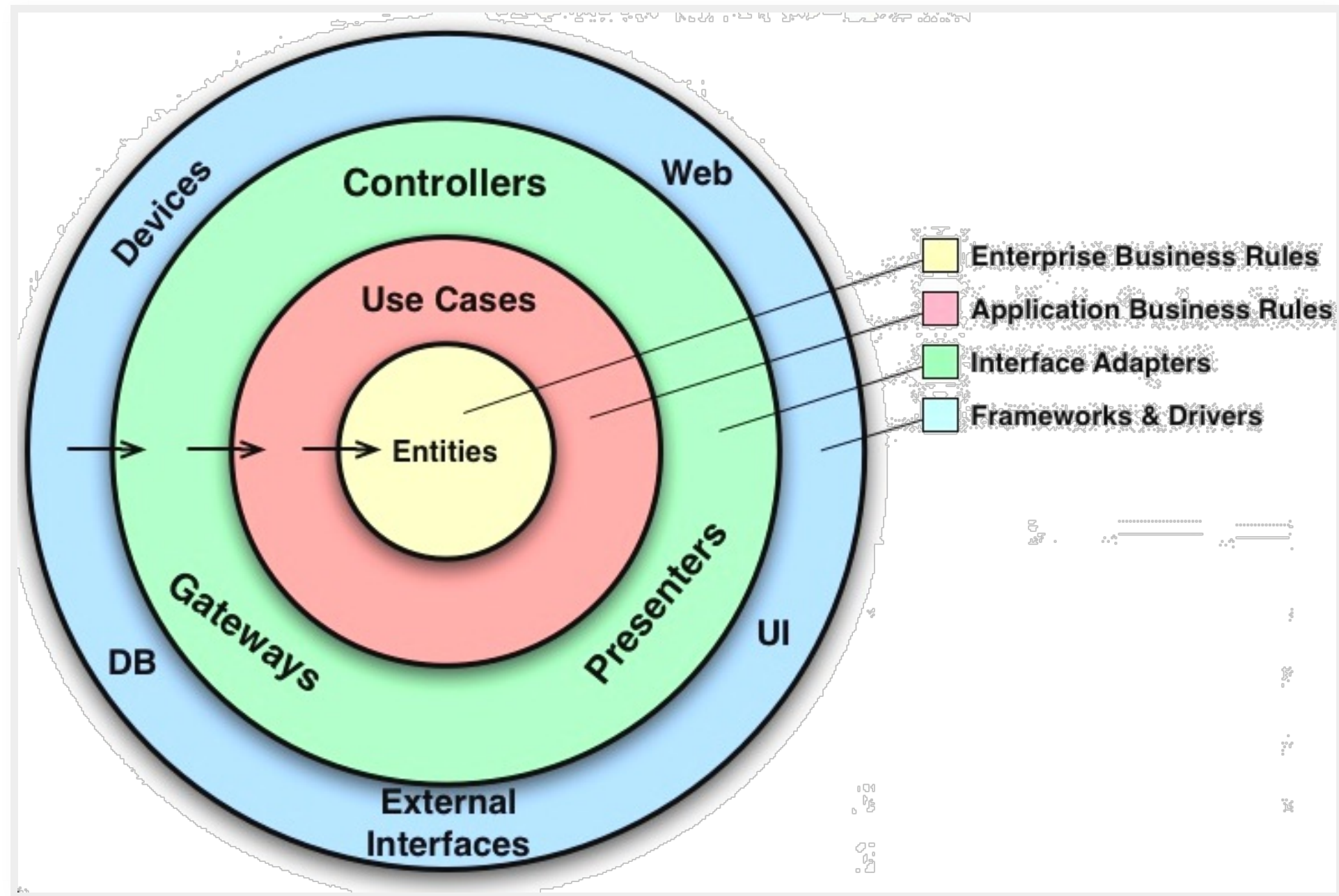
Martin Fowler

A high-angle, top-down view of a spiral staircase. The wooden handrail curves around the edge of the stairs, which are made of dark wood. In the center of the spiral, there is a bright yellow circular light fixture. The text "SERVICE ORIENTED ARCHITECTURE" is overlaid in white, bold, sans-serif font.

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 the horizon line is at the bottom.

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 view of a Ferrari AC 100 R engine, showing the central silver intake manifold with three red stripes, the black air filters on either side, and various hoses and components. The engine is set within a dark blue engine bay with a red hood. The text "3. TESTS" is overlaid in the center.

A detailed view of a Ferrari engine bay, featuring a central silver engine block with three red vertical stripes. The engine is surrounded by various components, including black air filters with 'Ferrari' and 'AC 100 R' branding, a yellow oil cap, and various hoses and wires. The background shows the dark interior of the car's hood.

TEST DRIVEN DESIGN

A detailed view of a Ferrari V8 engine, likely from a 1990s sports car, with the hood open. The engine features three prominent silver intake runners with red stripes. Various components like the alternator, battery, and fluid reservoirs are visible. The text "TESTS !== TEST DRIVEN DESIGN" is overlaid in white, bold, sans-serif font across the center of the image.

TESTS !== TEST DRIVEN DESIGN

A detailed view of a Ferrari engine bay, featuring a central silver engine block with three red vertical stripes. The engine is surrounded by various components, including black intake manifolds with 'Ferrari' and 'AC 100 R' branding, a yellow-capped reservoir, and various hoses and wires. The background shows the red interior of the car's hood.

BEHAVIOUR DRIVEN DEVELOPMENT

"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

A blurred industrial factory floor with a conveyor belt carrying blue and white boxes. The image is taken from a low angle, looking down the length of the conveyor. The boxes are moving quickly, creating a sense of motion. The background shows various industrial machines and structures, also slightly blurred. The overall lighting is industrial and somewhat dim.

5. CONTINUOUS ...



CONTINUOUS INTEGRATION



CONTINUOUS DEPLOYMENT

A blurred industrial factory floor with a conveyor belt carrying blue and white boxes. The text "DEPLOYMENT != RELEASE" is overlaid in the center.

DEPLOYMENT != RELEASE



LIKE
A
BOSS

6. MONITORING



7. METRICS



A vintage aircraft instrument panel is shown, featuring several analog gauges and controls. The gauges include a tachometer (RPM) on the left, a manifold pressure gauge in the center, an oil pressure gauge on the right, and fuel pressure gauges on the far right. Below these are gauges for carburetor air temperature and oil temperature. The panel is dark with white markings and needles. The text "BUSINESS METRICS" is overlaid in large, white, bold, sans-serif capital letters across the center of the image. The background is dark and slightly blurred, emphasizing the instrument panel.

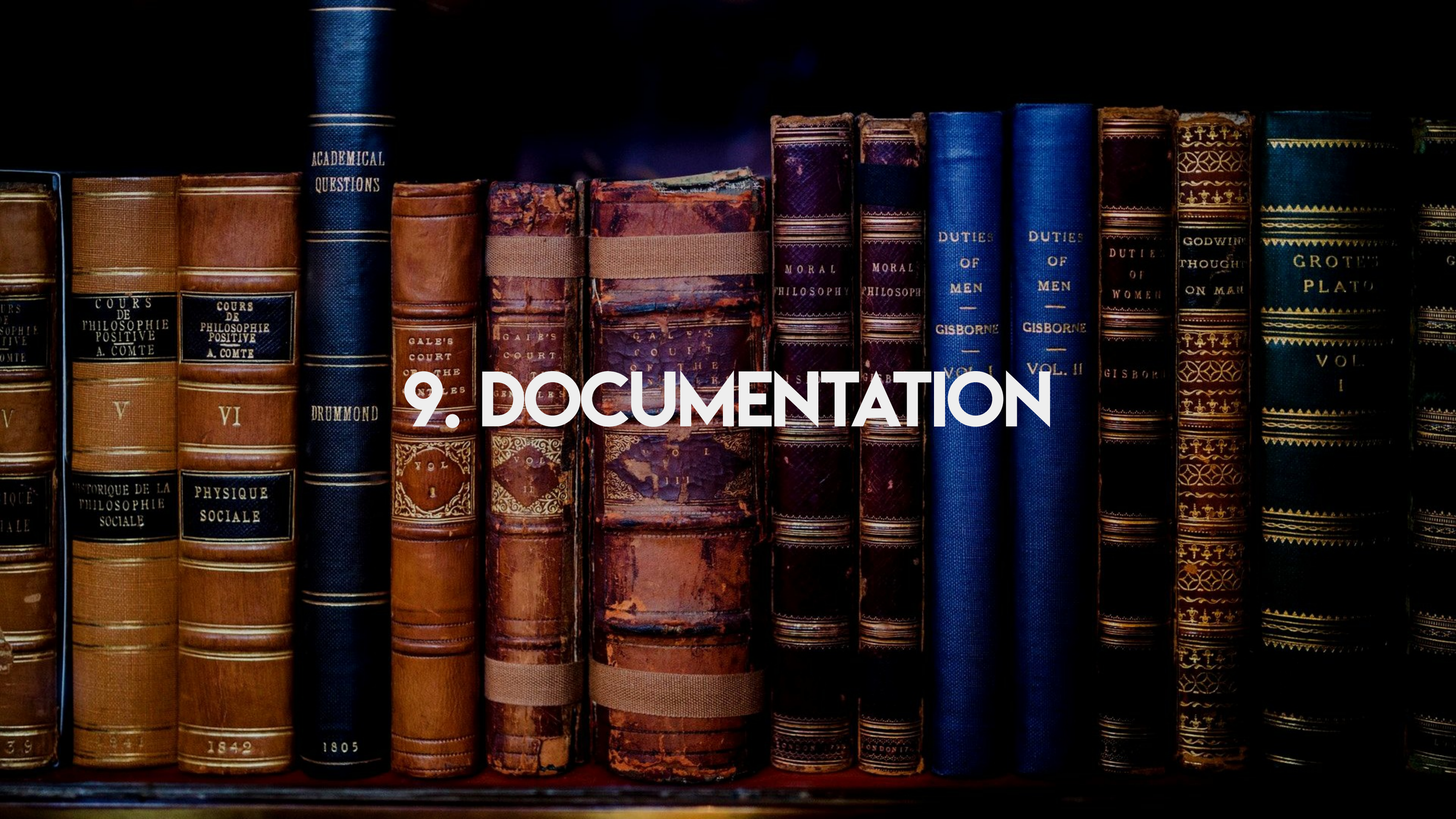
BUSINESS METRICS



8. AUTOMATION



IF IT MOVES, AUTOMATE IT!



9. DOCUMENTATION



START WITH README



10. COMMUNICATION



**COMMUNICATION
IS NOT A SOFT SKILL**



**COMMUNICATION
IS A CORE SKILL!**

"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