



# GOOD PROJECT FROM SCRATCH



A close-up, profile view of a man with a beard and short hair, wearing a light blue button-down shirt. He has a small, thin microphone clipped to his shirt near his ear. The background is dark and out of focus, with some blue light visible on the left side.

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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 representing base pairs. The entire structure has a bright blue, almost ethereal glow, with some areas appearing more intense than others, giving it a three-dimensional feel. The helix is oriented diagonally across the frame.

**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, which is the focal point of the image. 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 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 with concentric rings. The text "SERVICE ORIENTED ARCHITECTURE" is overlaid in white, bold, sans-serif font in the center of the image.

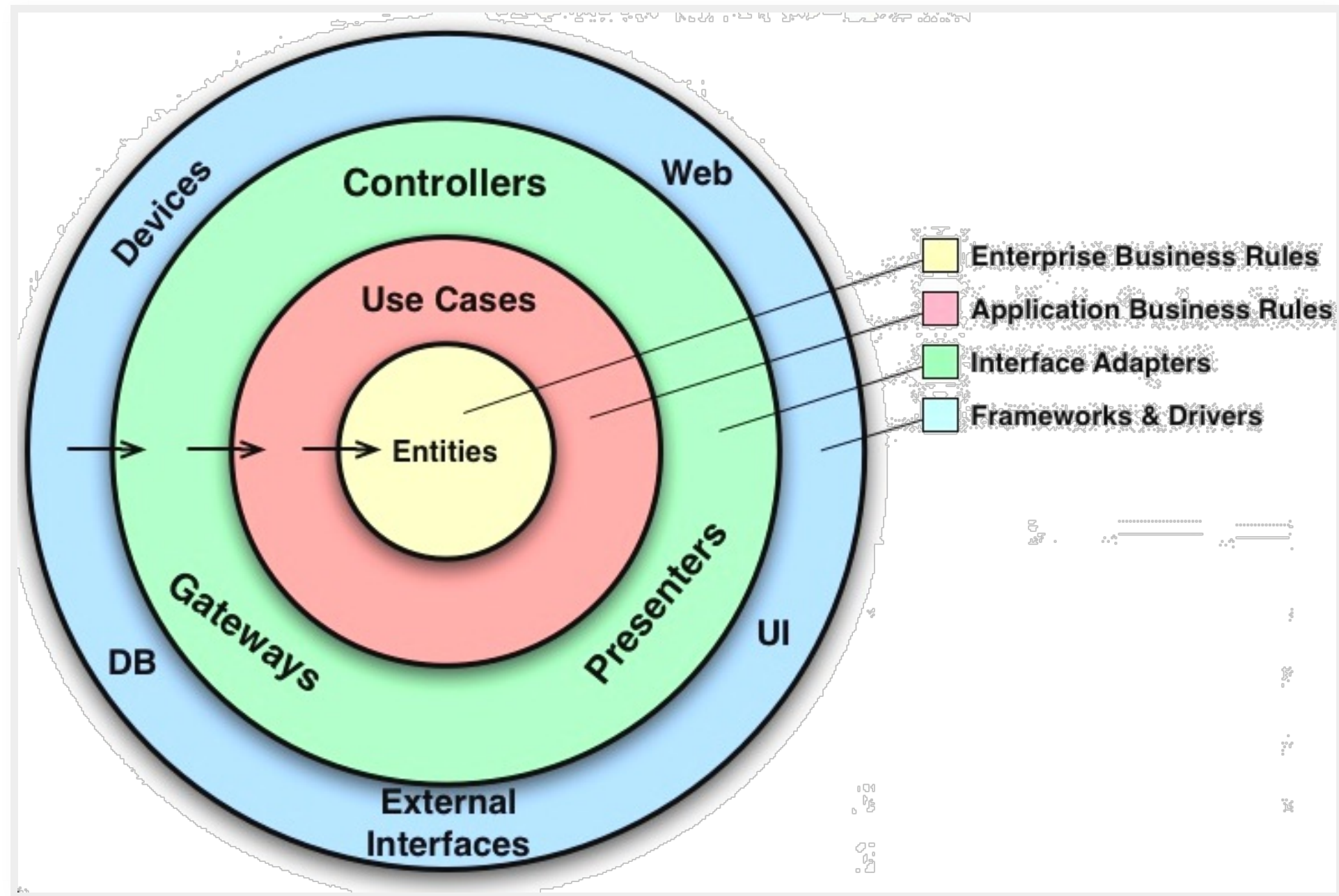
# **SERVICE ORIENTED ARCHITECTURE**





**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 with bare branches is visible on the left side, and a dark horizon line is at the bottom.

**DON'T REINVENT THE WHEEL**



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**



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



WIPES



# 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 car's hood is open, and the background is a clear blue sky.



A high-angle, close-up photograph of a Ferrari V8 engine. The engine is painted a deep blue, with three prominent red vertical stripes running down the center of the intake manifold. Various components like hoses, wires, and a yellow-capped reservoir are visible. The engine is housed within a black plastic engine bay. The text 'TEST DRIVEN DESIGN' is superimposed in large, white, sans-serif capital letters across the middle of the image. On the left and right sides of the engine, there are black plastic covers with 'Ferrari' and 'AC 100 R' or 'AC 100 L' embossed on them. A small white label with technical specifications is visible on the left side of the engine bay.

**TEST DRIVEN DESIGN**



A detailed view of a Ferrari AC 100 R engine, featuring three carburetors with red vertical stripes and various hoses and 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





L<sub>1</sub>

E<sub>1</sub>

A<sub>1</sub>

R<sub>1</sub>

N<sub>1</sub>



A blurred industrial production line, likely for food or beverage packaging. The image shows multiple conveyor belts with numerous blue and white rectangular packages (possibly cartons or boxes) moving rapidly from left to right. The background is filled with industrial machinery, including large metal structures and control panels. The overall scene conveys a sense of continuous, high-speed manufacturing.

# 5. CONTINUOUS ...



A blurred industrial factory floor with a conveyor belt carrying blue and white boxes, with the text "CONTINUOUS INTEGRATION" overlaid in the center.

CONTINUOUS INTEGRATION





**CONTINUOUS DEPLOYMENT**



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

**DEPLOYMENT != RELEASE**  
**(USE FEATURE TOGGLES)**





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





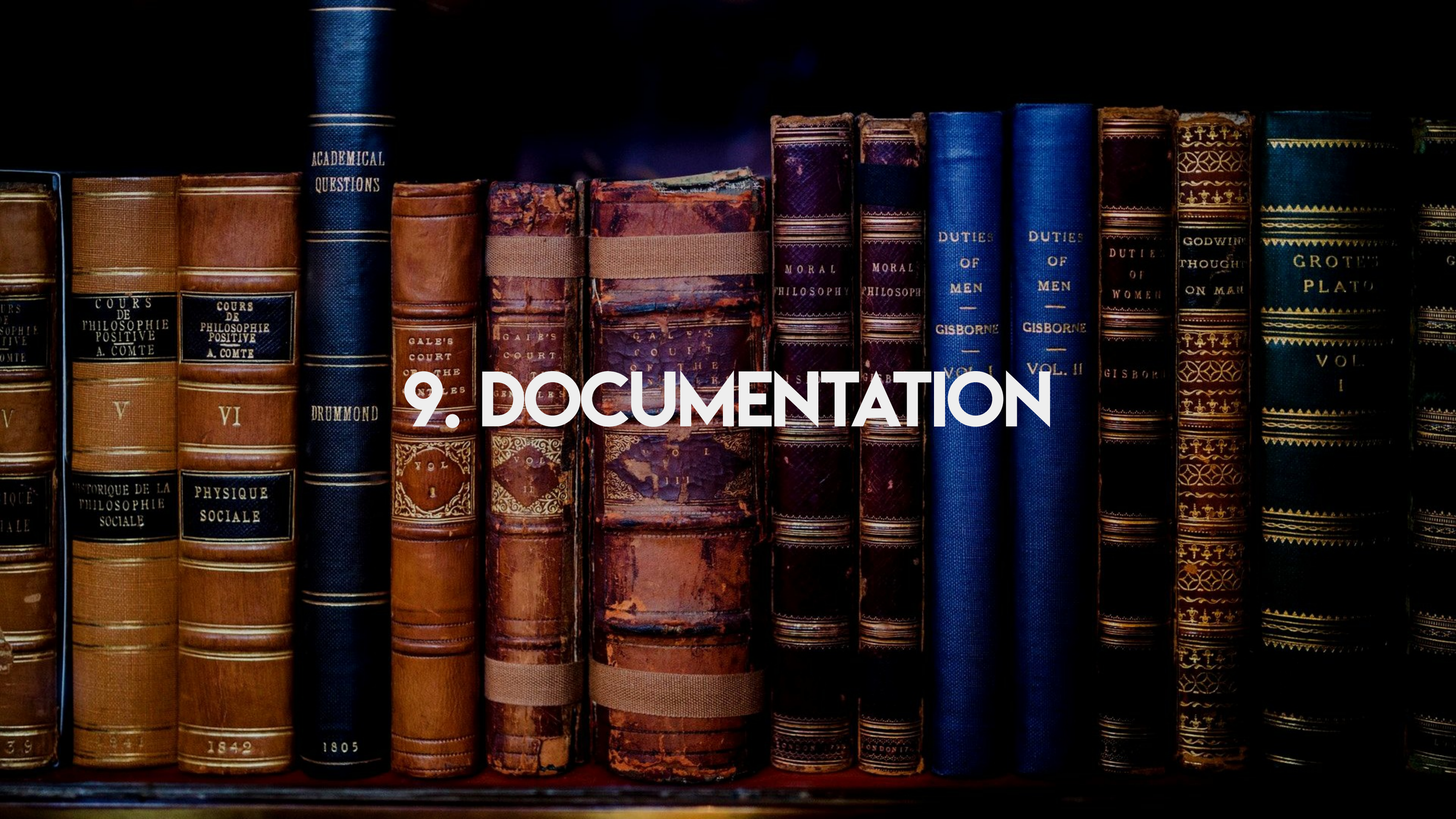
**IF IT MOVES, AUTOMATE IT!**



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

Niranjan Paranjape





## 9. DOCUMENTATION





START WITH README



- Name of the service
- Point of contact and Slack channel
- Usage
- Running the service
- System
- Runbook
- Monitoring
- Documentation

<https://tech.buzzfeed.com/better-docs-8fccb8ebd6a4>



"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!**