



# LONG TERM IT PROJECTS



# PAWEL LEWTAK



GOG.COM

@PAWEL\_LEWTAK







# 0. DISCLAIMER



A glowing blue DNA double helix structure is shown against a dark 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 saturated than others, giving it a three-dimensional, translucent appearance. The helix is oriented diagonally across the frame, from the top left towards the bottom right.

# 1. ANALYSIS



A glowing blue DNA double helix structure is the central focus of the image. The helix is composed of two intertwined strands connected by horizontal rungs representing base pairs. The entire structure is illuminated with a vibrant blue light, creating a sense of depth and movement. The background is a deep, dark blue, which makes the glowing DNA stand out prominently. The text "WHAT TO BUILD?" is centered over the middle of the DNA structure.

**WHAT TO BUILD?**



A glowing blue DNA double helix structure is the central focus of the image. The helix is rendered with a translucent, wireframe-like appearance, showing the characteristic twisted ladder shape. The background is dark, making the bright blue DNA stand out. The text "WHAT PROBLEM TO SOLVE?" is overlaid in the center of the image.

**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

NOT JUST  
**COFFEE**  
EST. 2011

**HOT** **ICED**

2.49	espresso	2.77
2.49	americano	
3.24	macchiato	
3.70	latte	
4.25	vanilla sugar latte	
4.16	hot chocolate	
3.24		

**HOT** **ICED**

varies	pour over coffee	varies
3.70	rishi masala chai	4.02
3.70	bhakti ginger chai	4.02
3.00	earl grey	
3.00	ceylon	
3.00	wuji	
3.00	jasmine green	
3.00	moringa	
3.24	italian soda - flavors vary	

ORDER HERE

BATCH BREW - \$2.70  
AGONY BROWN COLOMBIA  
CARAMEL MHT APPLE  
POUR OVERS  
LA GOLDENROSA  
CINNAMON HOT APPLE - \$3.50  
N 205 - \$3.50  
LA FRENCH ROAST  
LA PUENTE 205

GRAVITY

WORKZONE

MIKAH LYN





# EVENT STORMING

Impact  
Full

Pow  
Wow



"The only thing that is constant is  
change."

Heraclitus



A high-angle, close-up photograph of a spiral staircase. The wooden handrail curves from the bottom left towards the top right. In the center of the staircase, a circular light fixture with a glowing yellow light is visible. The text "2. ARCHITECTURE" is overlaid in white, bold, sans-serif font across the middle of the image.

## 2. ARCHITECTURE





# MONOLITH VS MICROSERVICES



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

Martin Fowler





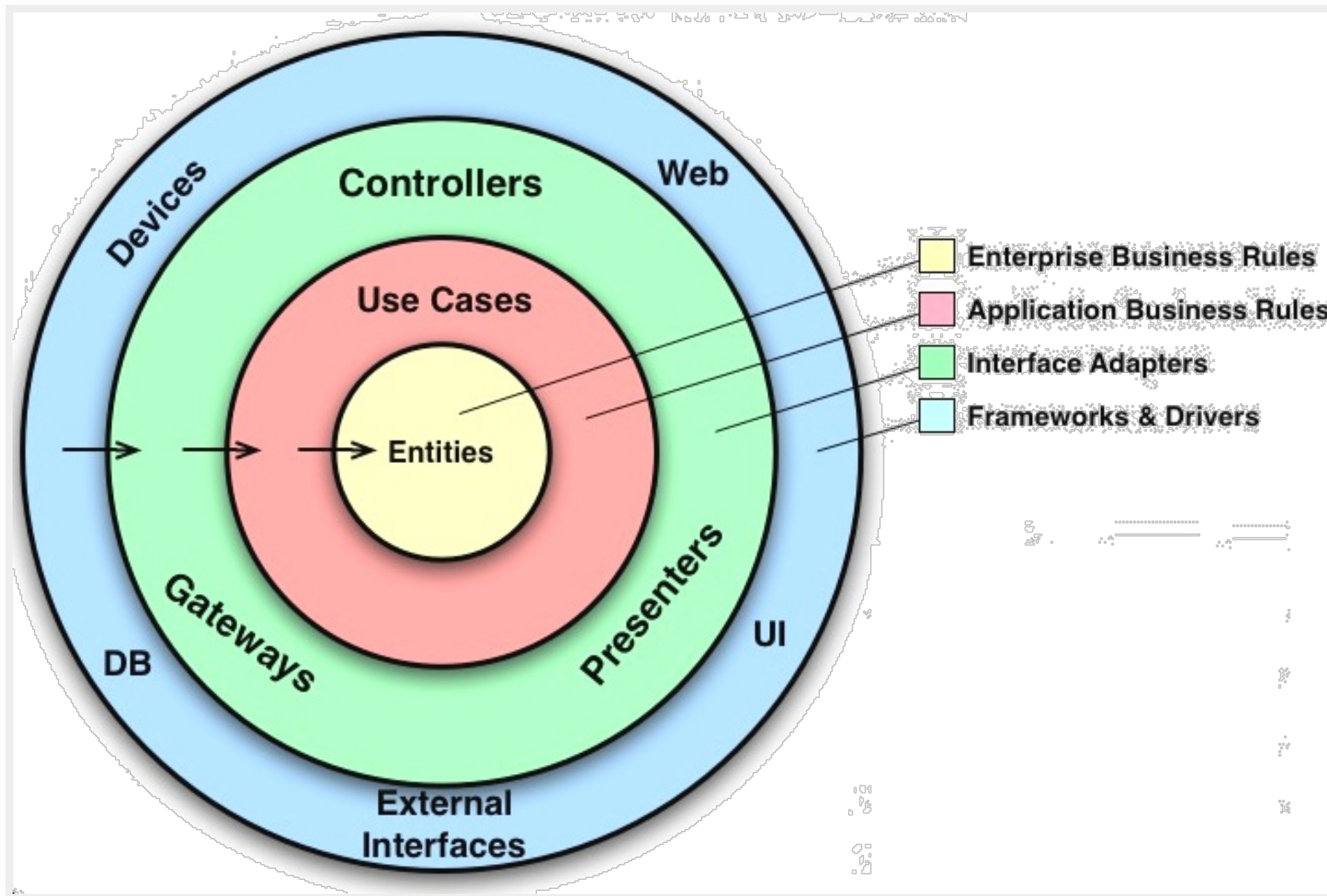
**SERVICE ORIENTED  
ARCHITECTURE**



A high-angle, close-up photograph of a spiral staircase. The wooden handrail is in the foreground, curving around a central yellow circular element. The staircase steps are dark and radiate outwards from the center. The text "CLEAN ARCHITECTURE" is overlaid in white, bold, sans-serif font across the middle of the image.

**CLEAN ARCHITECTURE**







A night sky with the Milky Way galaxy visible, silhouetted against a dark background. The foreground shows the dark silhouette of a tree and a horizon line. The text "DON'T REINVENT THE WHEEL" is overlaid in white, bold, uppercase letters.

**DON'T REINVENT THE WHEEL**



A night sky with the Milky Way galaxy visible, silhouetted against a dark background. The text "YOU'RE NOT UNIQUE" is overlaid in white, bold, uppercase letters. The background features a dark, starry sky with the Milky Way galaxy visible, and a silhouette of a tree in the foreground.

**YOU'RE NOT UNIQUE**



ANIPAS





- 
- A person is walking through a maze of blue LED lights at night. The maze is formed by a series of connected blue dots. The background is dark with some colorful bokeh lights in red, purple, and yellow. The person is wearing a light-colored shirt and dark pants. The overall scene is illuminated by the blue lights of the maze and the ambient night lights.
- microservices
  - serverless
  - artificial intelligence
  - machine learning
  - blockchain
  - nosql
  - virtual/augmented reality
  - internet of things
  - cloud computing
  - deep learning
  - quantum computing



# 3. TESTS



FERRARI  
AC 100 R

FERRARI  
AC 100 L



A high-angle, close-up photograph of a Ferrari V8 engine. The engine is painted a light grey or silver color and features three prominent red vertical stripes on each of the four intake manifolds. The engine is surrounded by various components, including black plastic air filters with 'Ferrari' and 'AC 133 L' embossed on them, a yellow-capped reservoir, and various hoses and wires. The background shows the dark interior of the car's engine bay and the red inner fenders. The text 'TEST DRIVEN DESIGN' is overlaid in a large, white, sans-serif font across the center of the image.

# TEST DRIVEN DESIGN





**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 Beck



# 4. CODE REVIEW

```
... room_name_full FROM tbl_room WHERE room_checked='0'  
... uncheckedRoom["room_name_full"]."" class="list-gr  
... room_name_full";  
... tbl_dispositi...dispo...ion_user = u.user_ID
```





L<sub>1</sub>

E<sub>1</sub>

A<sub>1</sub>

R<sub>1</sub>

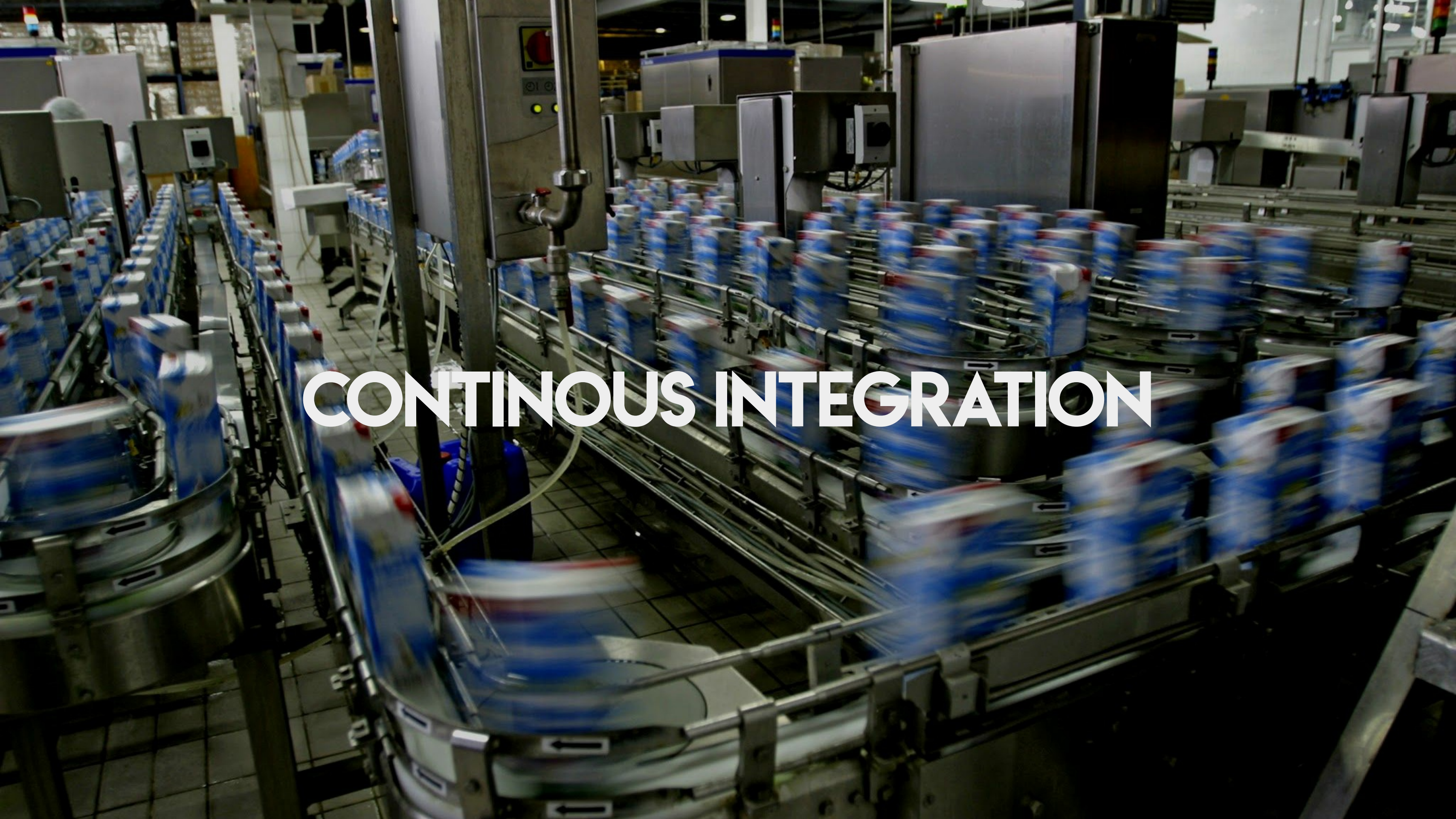
N<sub>1</sub>





# 5. CONTINUOUS ...





**CONTINUOUS INTEGRATION**





**CONTINUOUS DEPLOYMENT**





**DEPLOYMENT != RELEASE**





LIKE  
·A·  
BOSS



# 6. MONITORING & LOGGING





# 7. METRICS





A vintage aircraft instrument panel is shown, featuring several analog gauges and dials. The gauges include a tachometer (RPM), manifold pressure gauge, oil pressure gauge, fuel pressure gauge, and oil temperature gauge. The text "BUSINESS METRICS" is overlaid in large, white, bold letters across the center of the image. The background is dark, and the lighting is focused on the instrument panel.

# BUSINESS METRICS





# 8. AUTOMATION





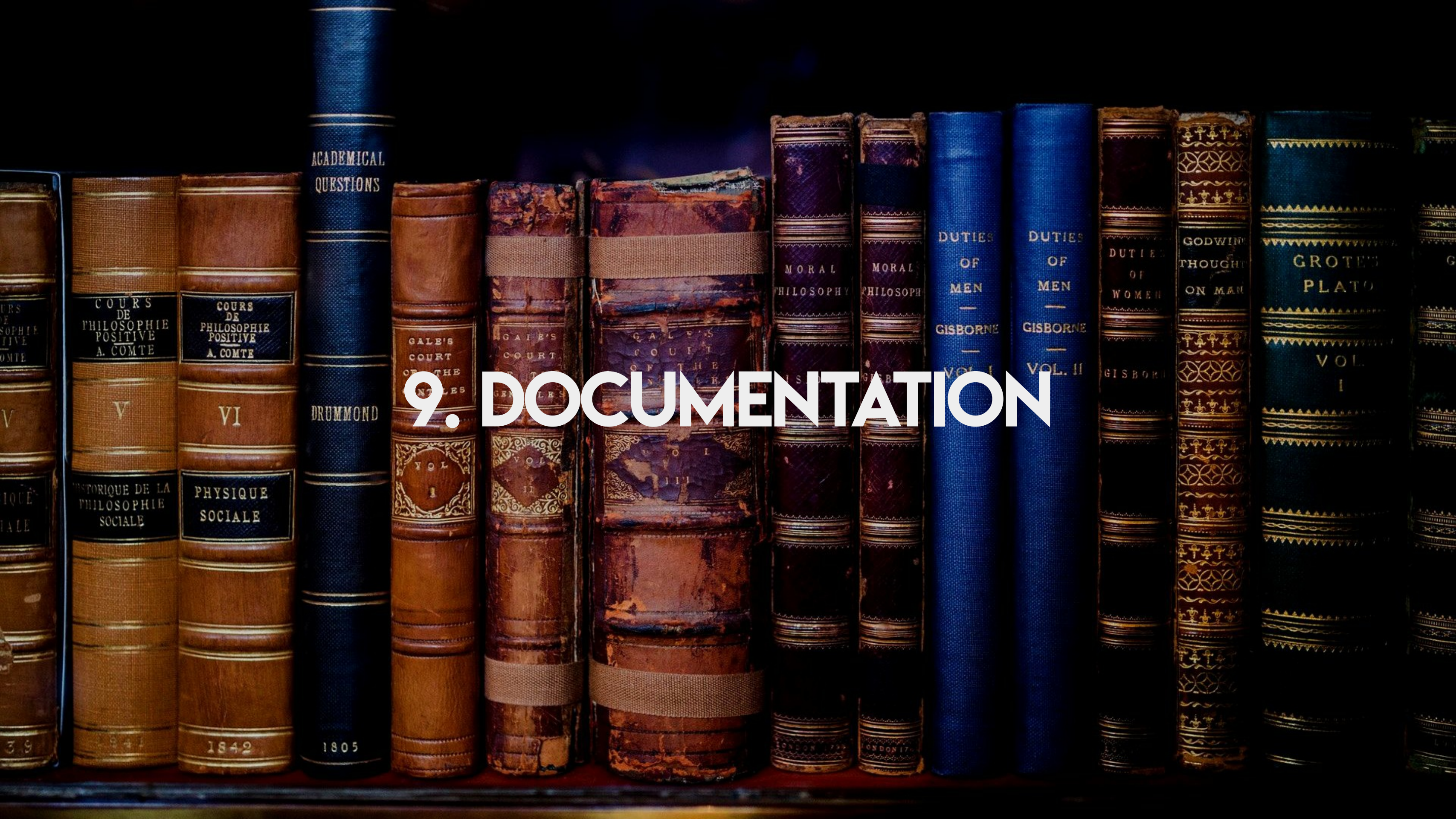
**IF IT MOVES, AUTOMATE IT!**



"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'S  
THOUGHTS  
ON MAN

GROTE'S  
PLATO

VOL  
I



1. Name of the service
2. Point of contact and Slack channel
3. Usage
4. Running the service
5. System
6. Runbook
7. Monitoring
8. Documentation

Source: <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



A person is shown from the back, wearing a dark beanie and a dark t-shirt. They are holding a clear plastic water bottle in their right hand, which is raised. Their left hand is also raised, with the index finger pointing towards the right. The background is dark, with a bright light source at the top center, creating a lens flare effect. The text "THANK YOU!" is overlaid in large, white, bold, sans-serif capital letters across the middle of the image.

**THANK YOU!**





**QUESTIONS**