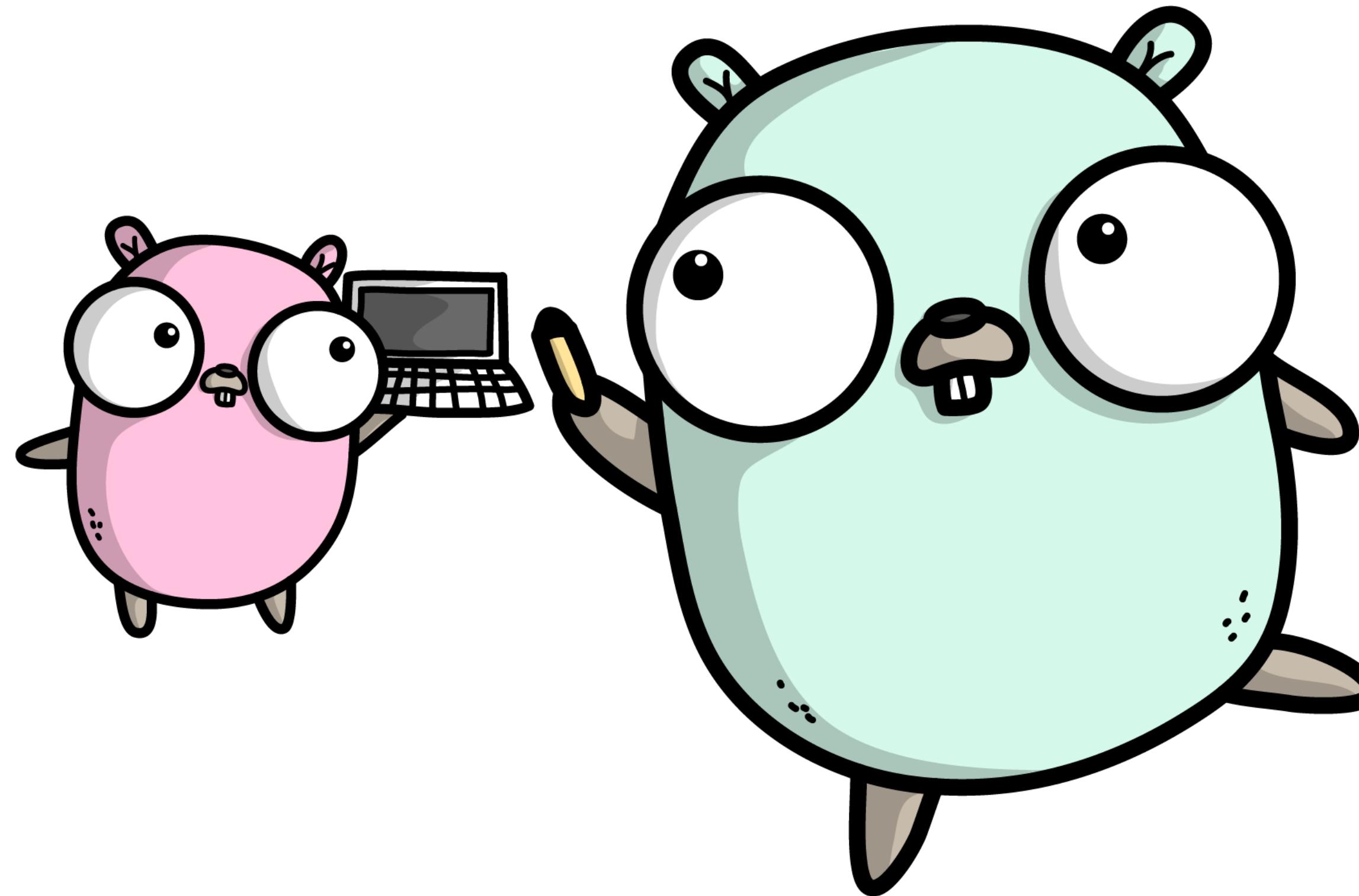


Golang



What did it teach me? And what was next.

Wojciech Barczyński [Head of Engineering]

[SMACC.io](https://smacc.io) | [Hypatos.ai](https://hypatos.ai)

Warsaw, 16 July 2019

Beginnings

- from Berlin to Indonesia
- Successful mobile e-commerce
- Legacy developed in death march 💀



Plan

- New features in Golang
- Move to Kubernetes (GCP)
- Get team on board



Next stop

SaaS and ML Fintech

- [SMACC.io](#)
- [Hypatos.ai](#)

WE MOSTLY LIKE

- Standard library
- Composition
- ...
- Idiomatic way
- go proverbs



Simplicity

- Simplicity = low cognitive load
- Easy to start
- Increase readability

Low Cognitive

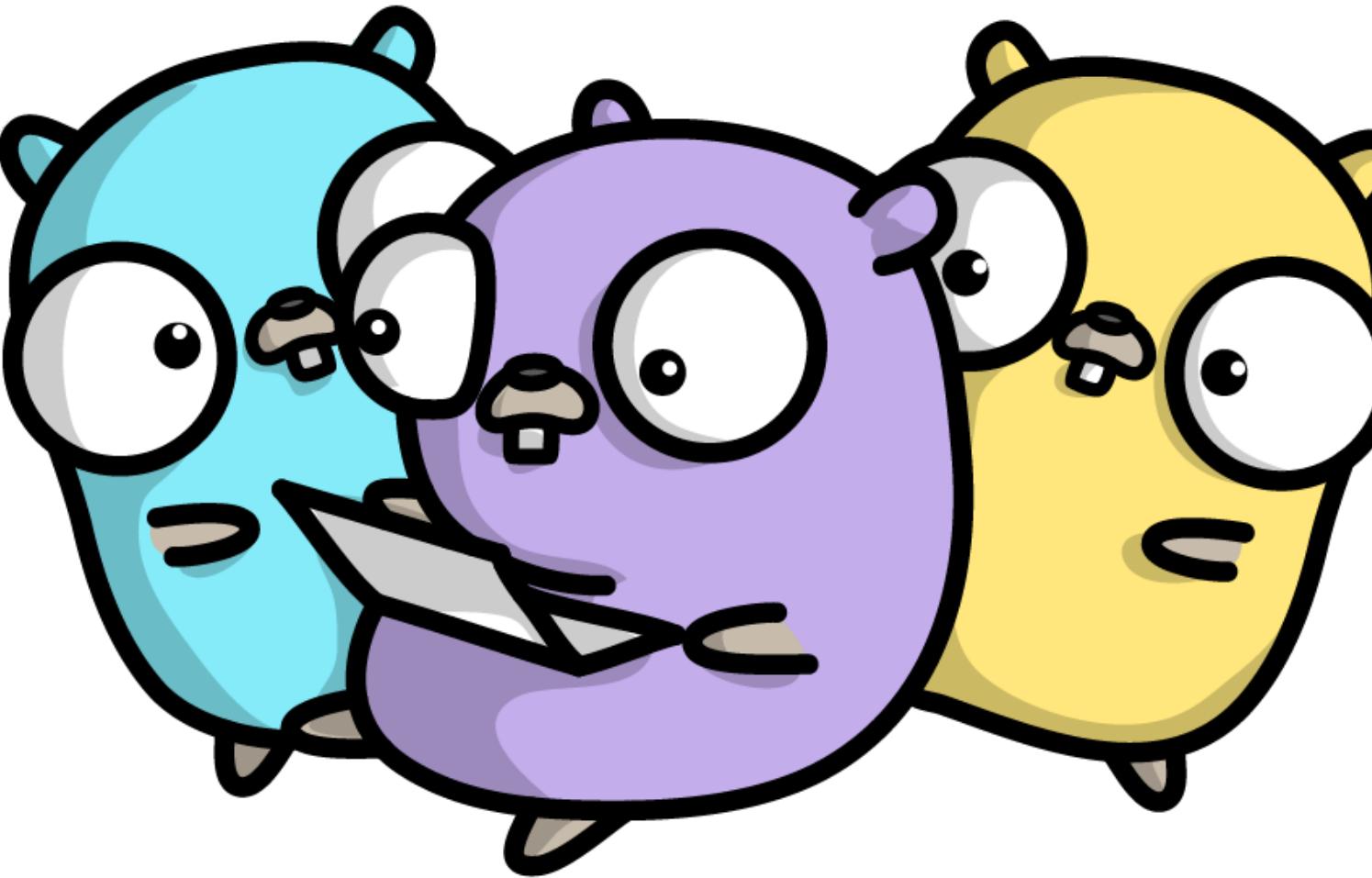
- People better feel about tech
- Faster adoption
- Less resistance

Golang is simple.
So we dive directly into talking about
problems to solve.

Borrowed from [Tomasz Grodzki](#)

Golang culture

- Ruby?
- Python?
- Docker?
- ...
- Golang



Experience-driven

- Observation what works what not
- With Proof-of-Concepts
- Less dogmatic

Redundant code

- A fair price fighting complexity
- 9 years with `err != nil`
- See:

[Mitchell Hashimoto - Advanced Testing with Go](#)

Culture shock

- No mocks?
- No DSLs
- No lib for X
- JSON parsing :)
- Not flexible



From X to GO

- Simple (common) project structure
(aka `main.go`)
- Review libraries before using them
- Have internal training

Internal training

- Java-Go?
- Ruby-Go?
- ...

Still

- Python is hard to beat in ML ;D

Golden mean

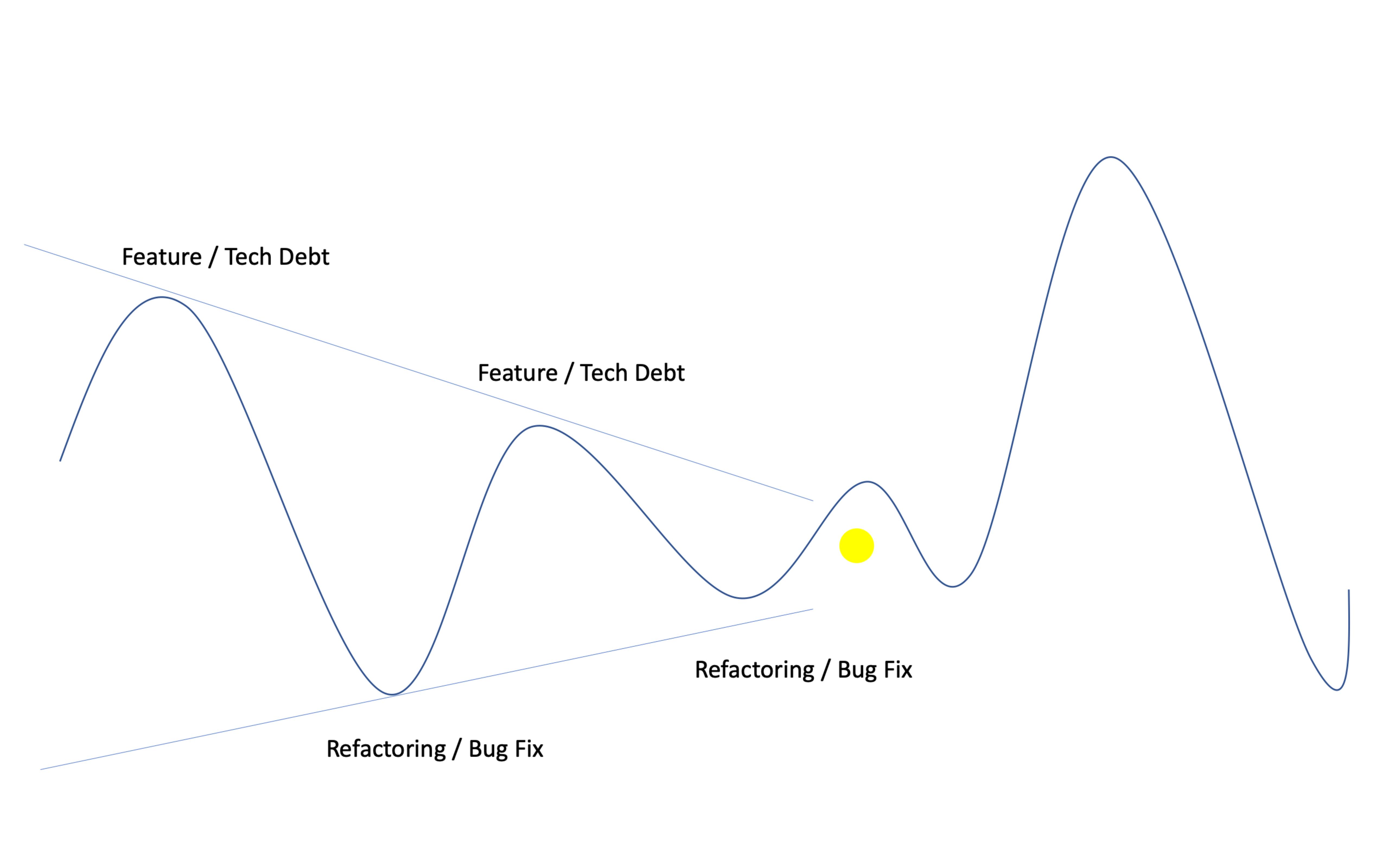
1. Guidelines,
not rules

[[Dave Cheney](#)]

2. Hard to find
3. It moves all the time



https://www.flickr.com/photos/bruno_brujah/

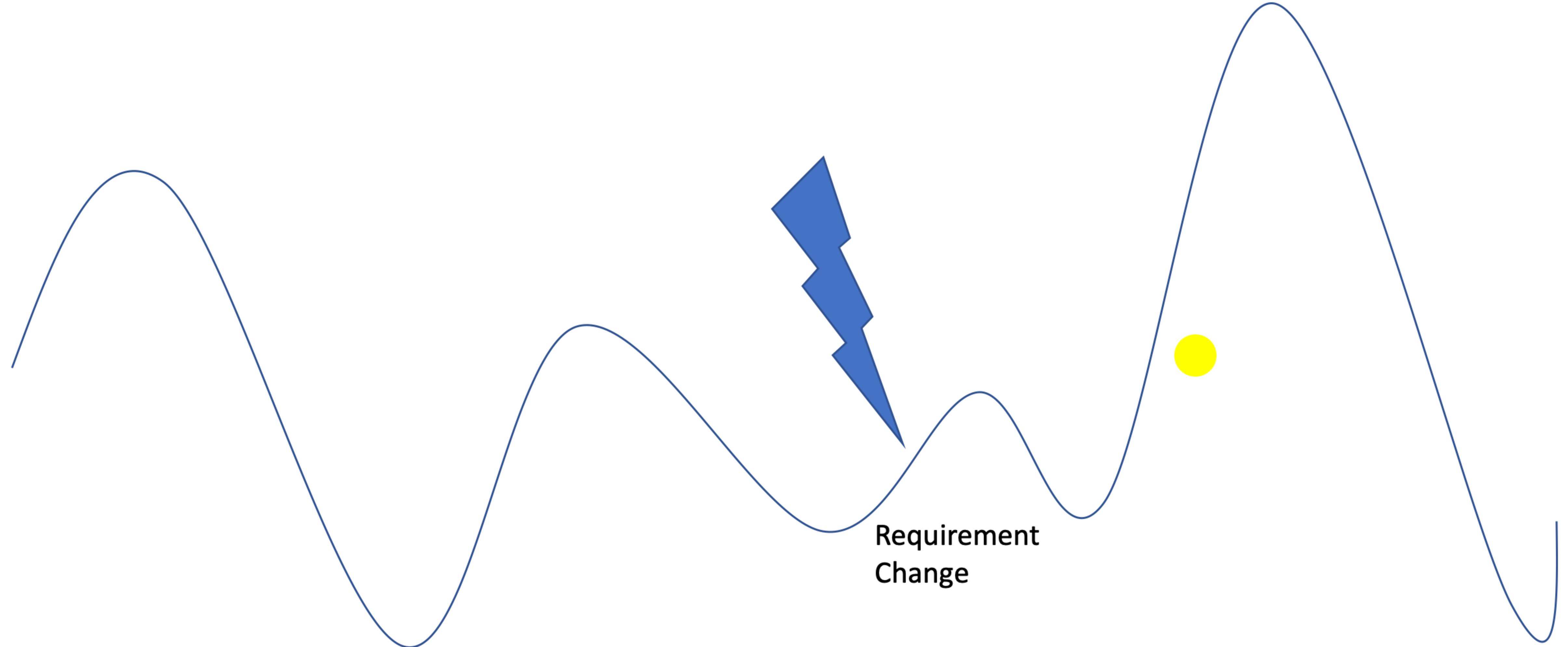


Feature / Tech Debt

Feature / Tech Debt

Refactoring / Bug Fix

Refactoring / Bug Fix



Requirement
Change

How to find it?

1. Team
2. Inclusion
3. Diversity



https://www.flickr.com/photos/bruno_brujah/

Methods?

- Communication is everybody responsibility
- Team meetings
- One-on-ones

More inspiration: [golang conduct](#)

Assume good intentions

ALWAYS

**Strong opinions
weekly hold**

Idea?

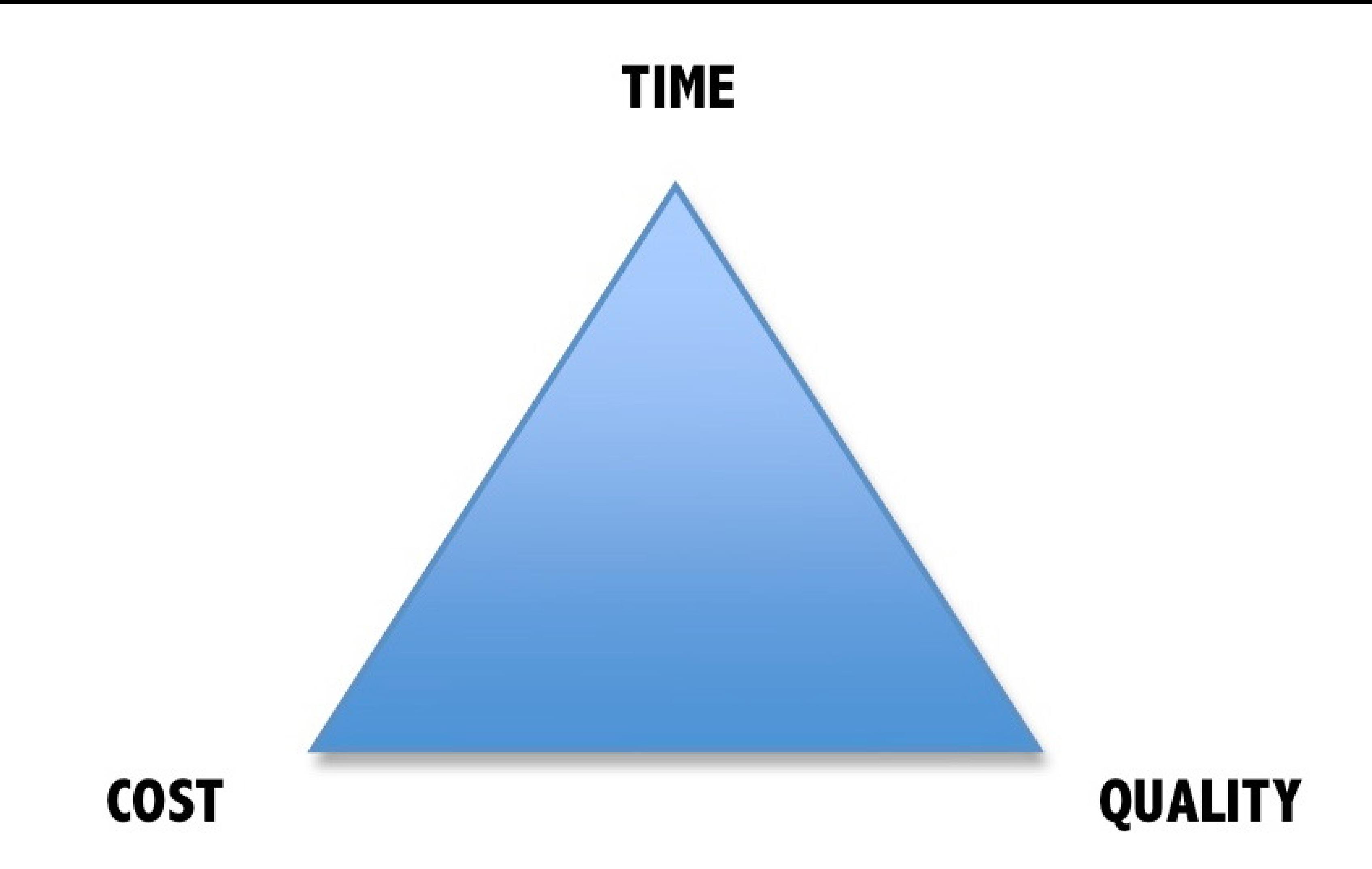
- Demonstrate it without negative effect on your work
- Make it Real!

[Heroku Values](#)

Problem?

- come with a recommendation for a solution

HOW TO BEAT THIS?



Ship it

1. Ship it
2. ...
3. The rest
4. Finding balance

Kick Butt, Have Fun
Sun Microsystems

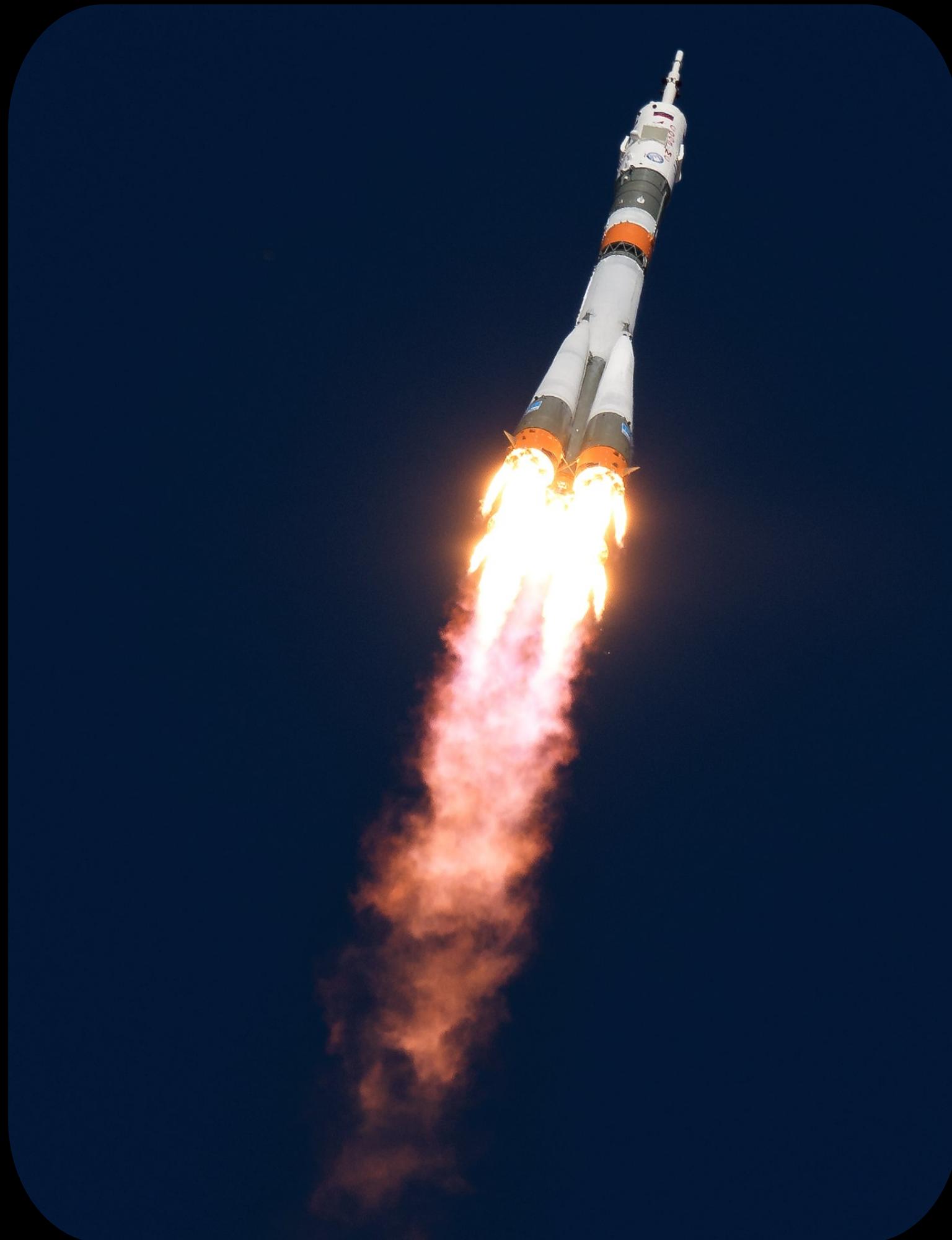


Photo by Nasa

Bottom up

- Early PR
- Over-communicate
- Top-down

Ship it

1. Cut the scope
2. Cut the quality
3. Delegate sth to the floor

Stuck? Let us know

- Lower the threshold
- Time-boxing
- Trigger-based [1]

[1] Cooper Code

version 1 → version 2

- v1 = fast, ~MVP
- v2 = right

Deliver! Patch. Patch

[Kate Matsudaira's blog](#)

version 1

- Understand
- Validate
- Avoid over-engineering

version 2

- Restructure
- Fix
- Re-factor

version 1 → version 2

- Will take more time
- Find answers faster
- Might give us more time

- Powerful language
- and tools (k8s, cloud)
- **combined experience**



https://www.flickr.com/photos/bruno_brujah/

Get know each other

- Talk with people around you

Example of good questions

Questions?

- Can you tell me where you would go to figure out _____?
- Do you know where there is an example that solves this same problem I could look at?

[Example of good questions](#)

Questions?

- I have been struggling to figure out _____, could you point me in the direction of how you could solve it?

[Example of good questions](#)

THANK YOU. QUESTIONS?

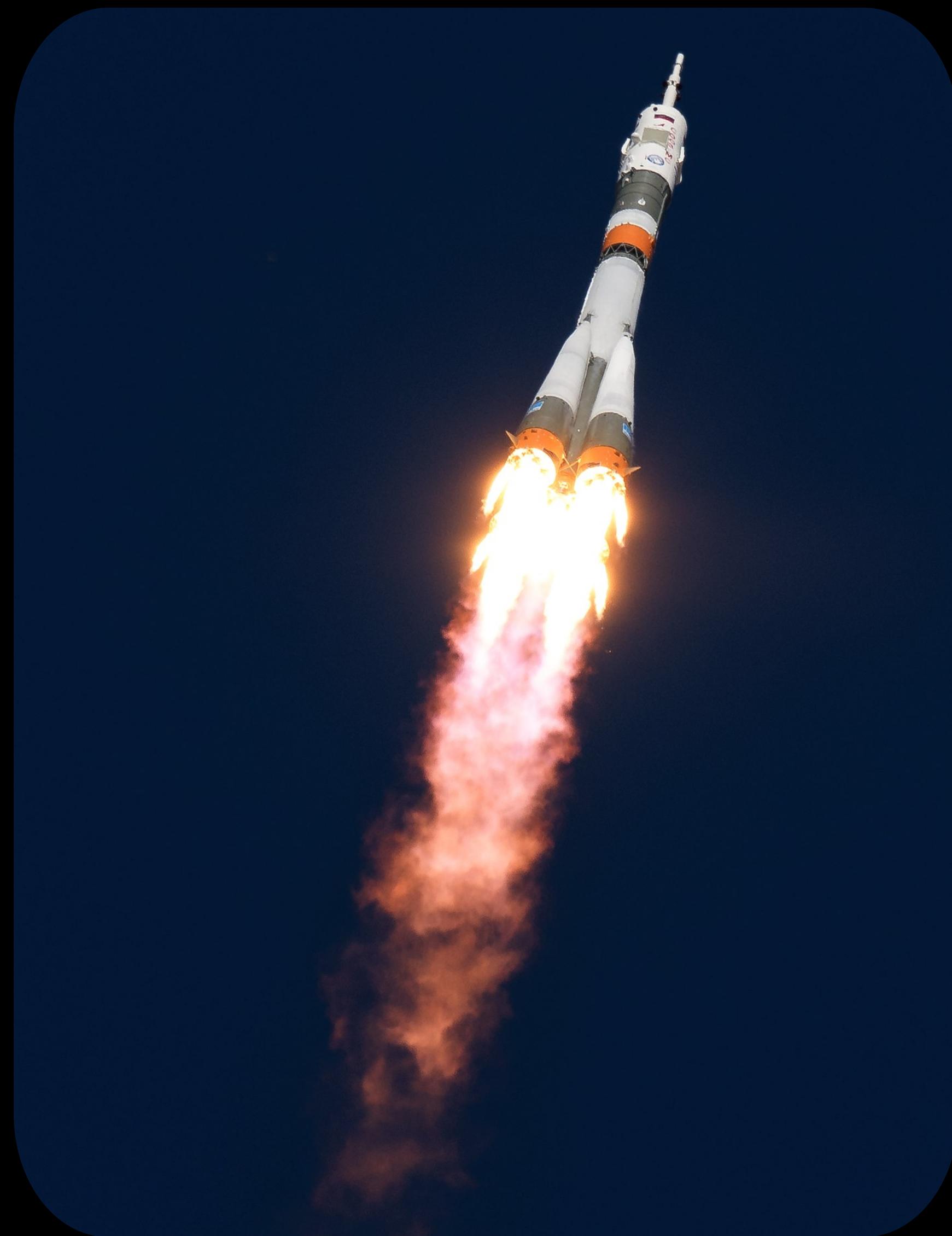
<https://github.com/wojciech12>

```
123 def distance_matrix(regions):  
124     """ Computes a distance matrix against a region list """  
125     tuples = [r.as_tuple() for r in regions]  
126     return cdist(tuples, tuples, region_distance)  
127  
128  
129 def clusterize(words, **kwargs):  
130     # TODO: write a cool docstring here  
131     db = DBSCAN(metric="precomputed", **kwargs)  
132     X = distance_matrix([Region.from_word(w) for w in words])  
133     labels = [int(l) for l in db.fit_predict(X)]
```



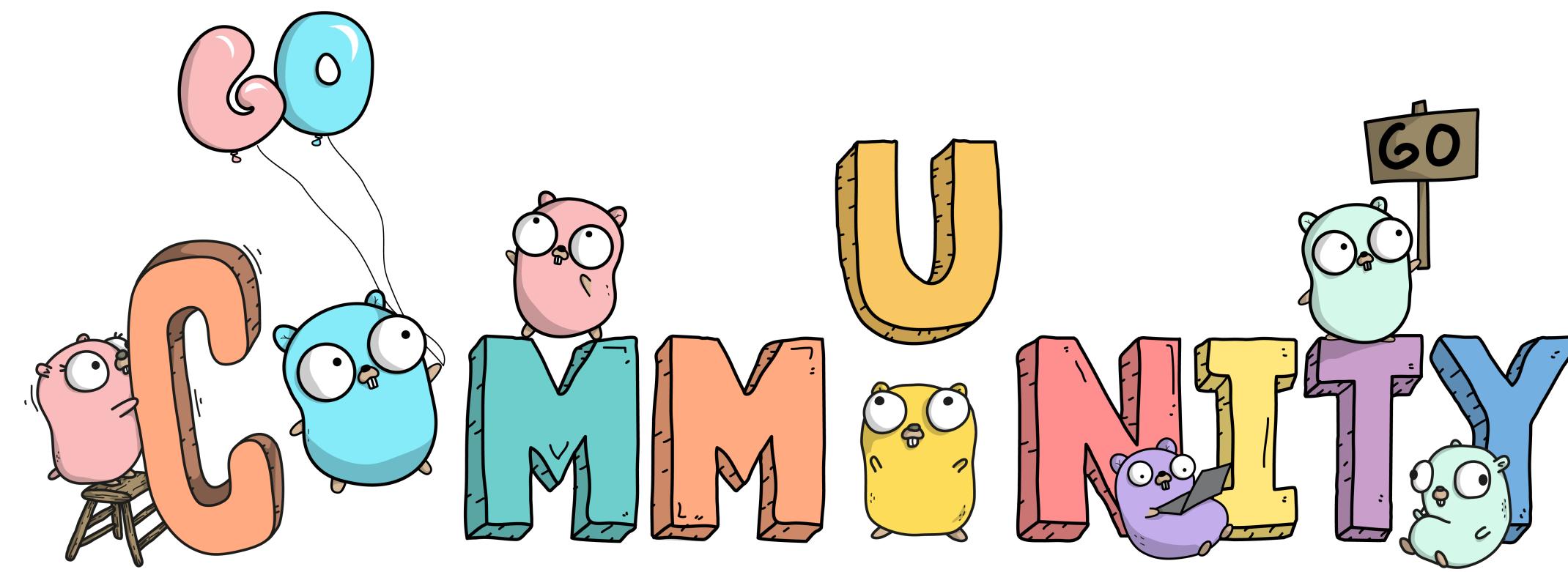
DOING GOOD

- Jetbrains:
most promising
- IEEE:
5th fastest growing
- Kubernetes
- CloudNative
- Next enterprises?



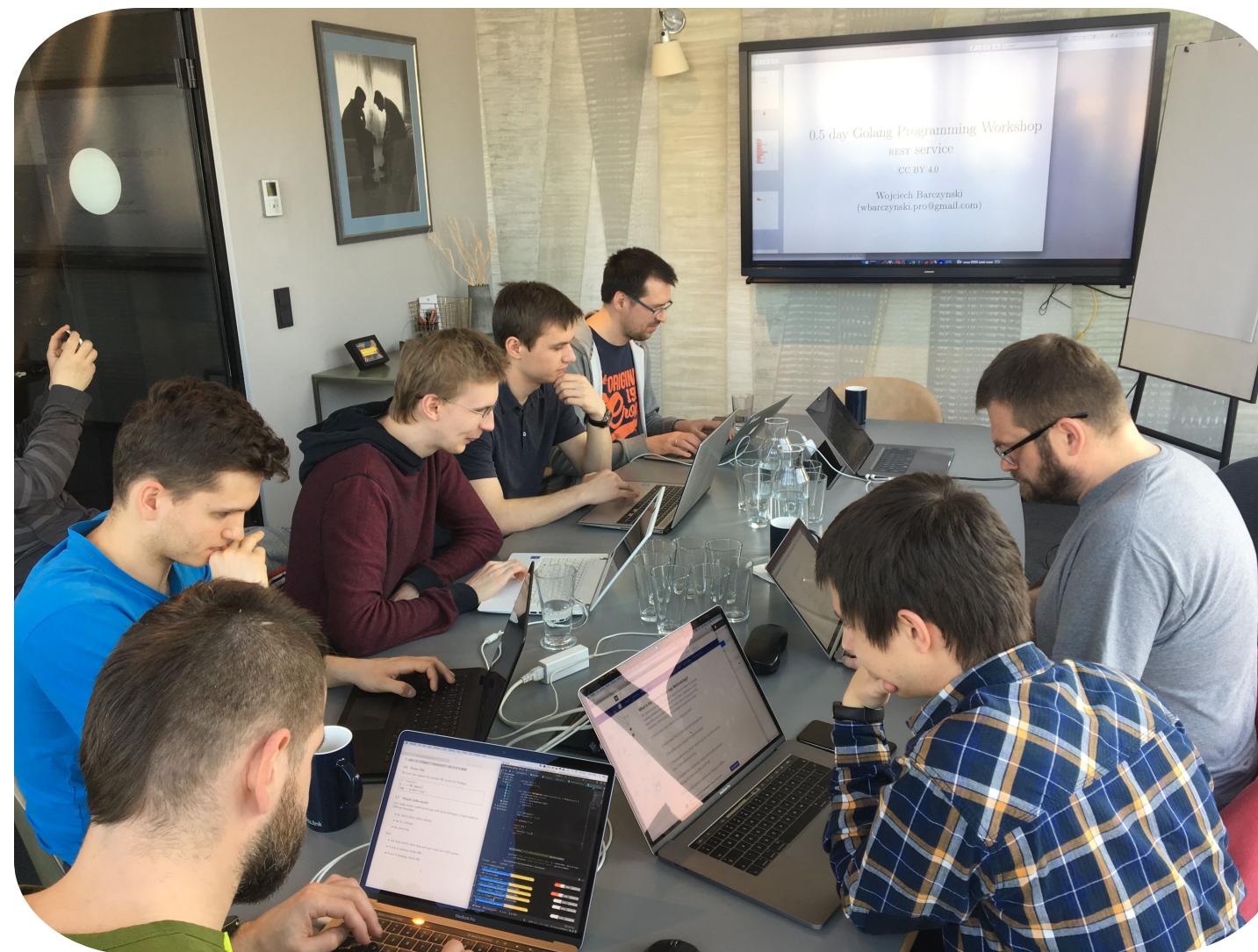
COMMUNITY

- Gopher Warsaw
- GoCracow
- Gopher Silesia
- Golang UG
Gdańsk



IDEAS

- Talks
- Workshops
- Speed get-know each other
- ...



BACKUP SLIDES

```
123 def distance_matrix(regions):
124     """ Computes a distance matrix against a region list """
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