

Total number of on-call pages per day

# Build a data-driven on-call workflow with Atomic Habits



**Bianca Costache** 







in 🖒 🖨 @biiancacostache

# On-call at Adobe

You develop it & own it in production.

& https://blog.developer.adobe.com/

- → Schedule: follow-the-sun II 24/7
- → Duration: 1 week || custom
- → Work: on-call only || sprint + on-call
- → Roles: primary only | primary + secondary



## About me

- 10 years of Software Engineering
- 7 years at Adobe Digital Experience
- P99 worldwide real-time services
- In a close, yet <u>not always effective</u>, relationship with <u>on-call</u>



What defines an effective on-call workflow?

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Learned helplessness

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Learned helplessness

An iterative data-driven process, which creates space for learning and improvement.

Shared accountability & empowerement



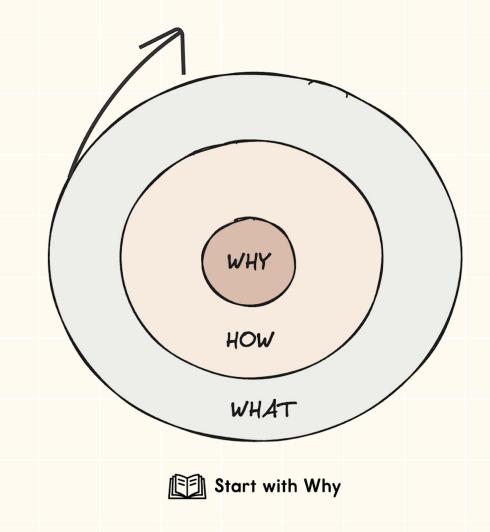


## How do you build an effective on-call workflow?

Why is on-call that bad in your team?

How can you improve it?

What are the results of your actions?



### Case study: living on the Edge with on-call



- → 60 Billions requests / day
- → Worldwide deployments
- → P99.9 availability
- → 100x enterprise customers

#### Case study: living on the Edge with on-call



- → Mean number of pages per day: 5
- → Mean time to resolve: 15 minutes
- → Mean no. of interrupted nights: 4
- → Mean time to fall asleep again: ?



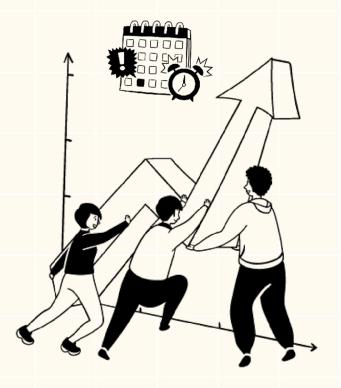


# Gergely Orosz @GergelyOrosz

People don't just leave managers: they leave shitty oncall rotations as well.



#### Remember Covid?



Phttps://streamlinehq.com

- ↑ 100% remote work transition
- ↑ 100% real-time traffic increase
- ♦ New 24/7 on-call rotation
- → A team going through the forming phase

WHY

A series of bad on-call team habits



Siloed knowledge



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Poor documentation



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Boring technology adversity



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Alerting disconnected from service level targets

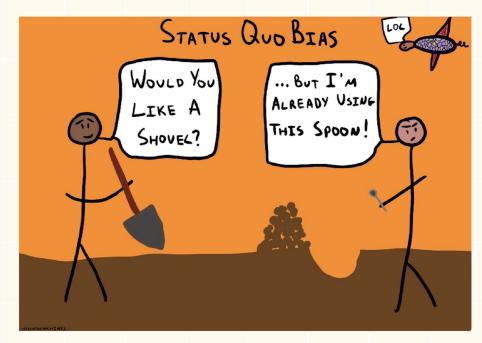


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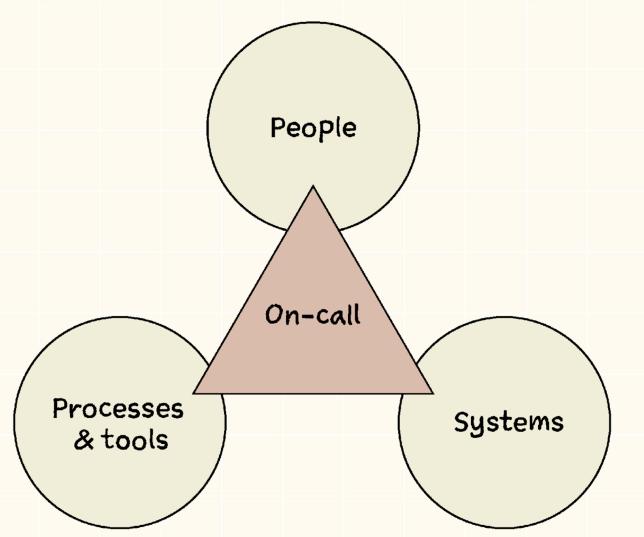


 ${\mathcal S}$  https://thedecisionlab.com/biases/status-quo-bias



#### "On-call is a socio-technical problem"

-- Charity Majors



## Replace the bad on-call habits with good ones



1. MAKE IT OBVIOUS

2. MAKE IT ATTRACTIVE

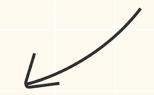
4. MAKE IT SATISFYING

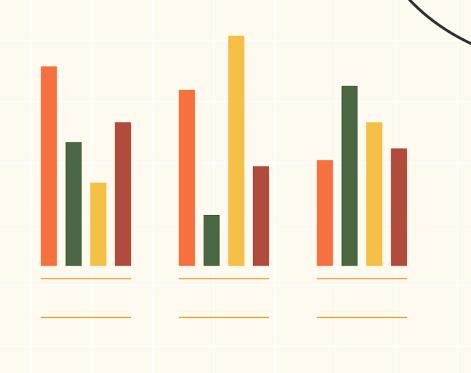
3. MAKE IT EASY



### Make it obvious: collect on-call incidents data

ID	Fired at	Alert	System	Assignee	RCA





#### Valuable on-call charts:

- Incident count by service per week/ month
- Incident count by business flow per week/ month
- On-call interruptions in hours by business / off-hours interval
- Engaged vs. Snoozed incident time

Ultimately, everything that helps you get clarity



#### Make it attractive: empower your team with the ability to act



The team prioritizes the on-call action items based on the on-call charts.



On-call action items belong to a designated on-call backlog integrated in the team's roadmap.



Primary on-call rules of engagement:

- 1) tackle production issues & facilitate the incident RCA
- 2) work on the on-call backlog during business hours
- 3) focus only on on-call, delegate other tasks



#### Make it easy: create space for on-call reflection

**Driver:** the previous on-call engineer

Participants: the on-call team

Schedule: 30-60', at the end of each on-call rotation

#### Pre-work:

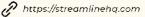
- the on-call backlog reflects the completed/new on-call Als
- RCA is filled in for all the previous on-call incidents

Outcome: the next on-call engineer is empowered to take over the rotation with clarity and the ability to act next

#### Agenda:

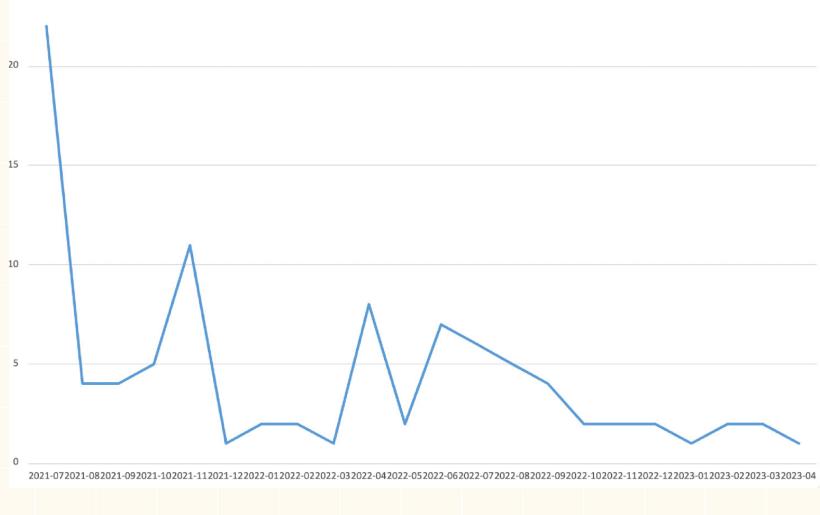
- review the latest on-call data trends
- · discuss the last rotation incidents root cause and actions
- prioritize what's next to make it better





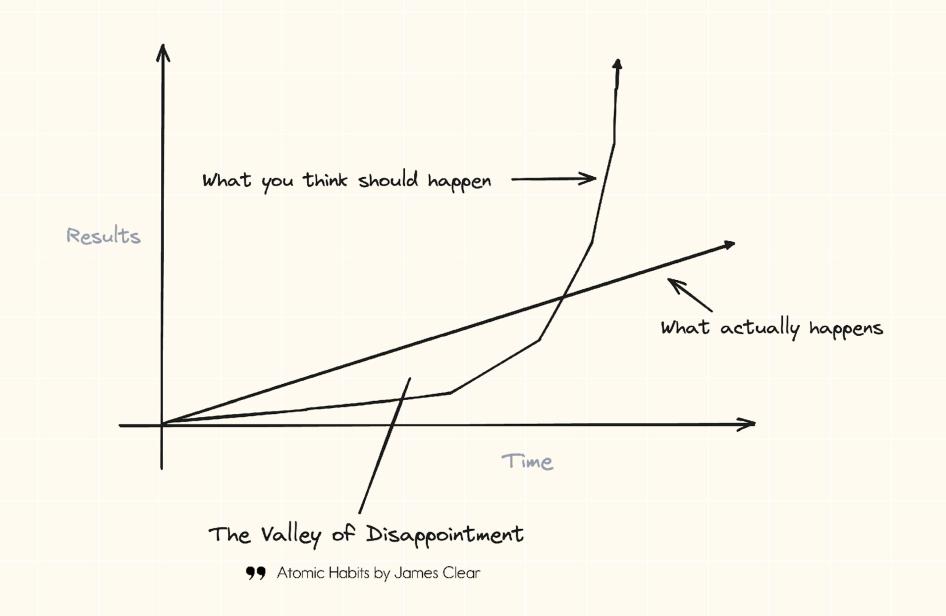


## Make it satisfying: let the data reward you



Total number of pages per month by service Blue

Results are not immediate, but (negative) feelings are



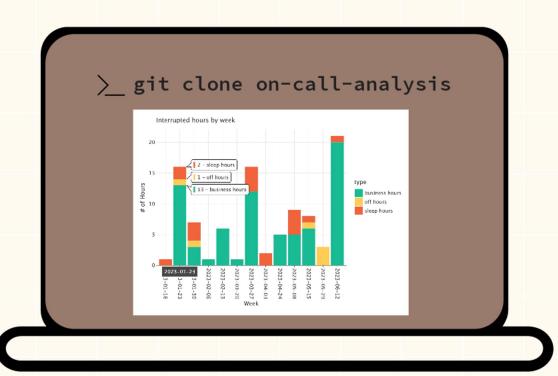
You can only build positive habits when your team has bandwidth.

Those who make progress typically figure out how to persuade people to slow down to speed up.

- JOHN CUTLER



#### Starter pack for your data-driven on-call



https://github.com/Happy-Friday-Food-for-Thought/on-call-analysis

- Store all incident details in one single on-call log
- Find anything related to past on-call events within seconds
- Plot on-call log data to meaningful charts within seconds
- Diagnose your team's on-call effectiveness with data visualisation
- GenAl powered insights

# THANK





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