HOW TO INFECT YOUR ORGANIZATION





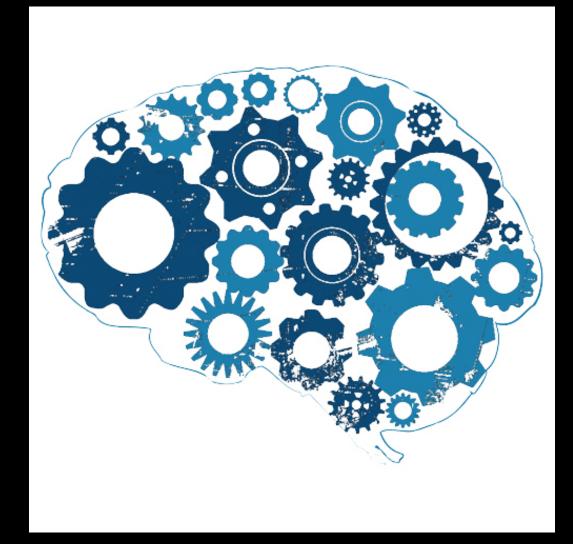
Matty Stratton DevOps Advocate, PagerDuty

🥑 @mattstratton

















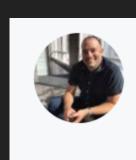


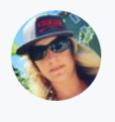


Matty Stratton @mattstratton

Describe your on-call situation in three words:

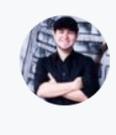
1:00 PM - 14 May 2018





Dana Bowlin @bowlindm · 3h Replying to @mattstratton Just call everyone





Jan Mara @skullboxx · 4h Replying to @mattstratton Works in Dev!





Rich Adams @r_adams · 6h Replying to @mattstratton This is fine.

Josh Hull @VestigialEthics · 4h Replying to @mattstratton @ChrisShort You did what?



Victor Palacio @vjpalacio · 3h Please mute yourself



Emily Freeman @editingemily · 5hReplying to @mattstrattonA dumpster fire.



JJ Asghar @jjasghar · 4h Replying to @mattstratton Back in the day?

 \sim

"Scotch, scotch, scotch"

50,000 RESPONDERS RECEIVING A TOTAL OF 760 MILLION NOTIFICATIONS

- 60 million notifications during dinner hours
- 82 million notifications during evening hours
- 250 million notifications during sleeping hours
- 122 million notifications on weekends
- A total of 750,000 nights with sleep-interrupting notifications
- A total of 330,000 weekend days with interrupt notifications



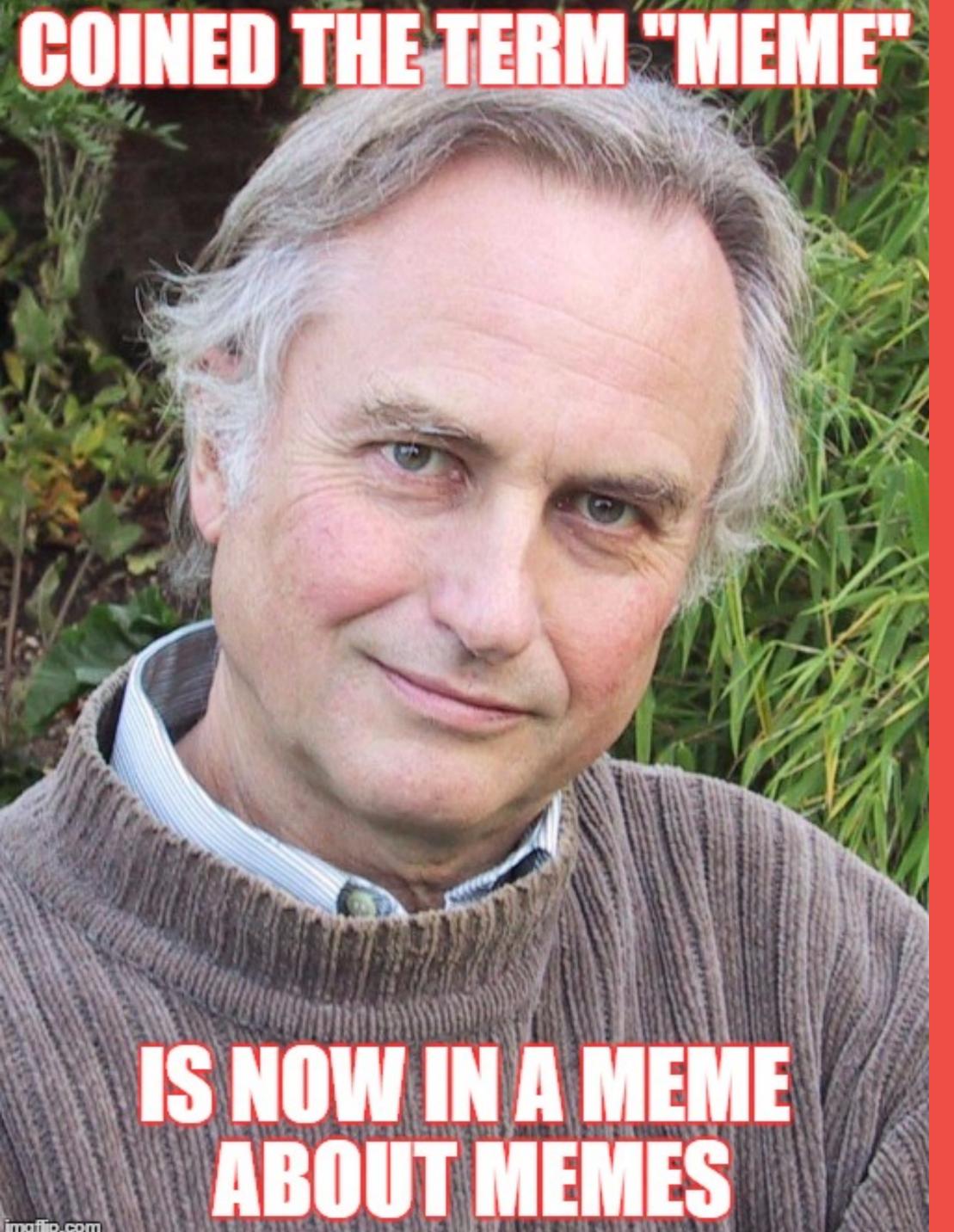


THE MOST MEANINGFUL METRICS ON ATTRITI

- Number of days where a responder's work and life are interrupted
- Number of days when a responder is woken overnight
- Number of weekend days interrupted by notifications.







EXAMPLES OF MEMES ARE TUNES, **IDEAS, CATCH-PHRASES, CLOTHES** FASHIONS, WAYS OF MAKING POTS OR **OF BUILDING ARCHES. JUST AS GENES PROPAGATE THEMSELVES IN** THE GENE POOL BY LEAPING FROM **BODY TO BODY, SO MEMES PROPAGATE THEMSELVES IN THE** MEME POOL BY LEAPING FROM BRAIN TO BRAIN VIA IMITATION.

Richard Dawkins









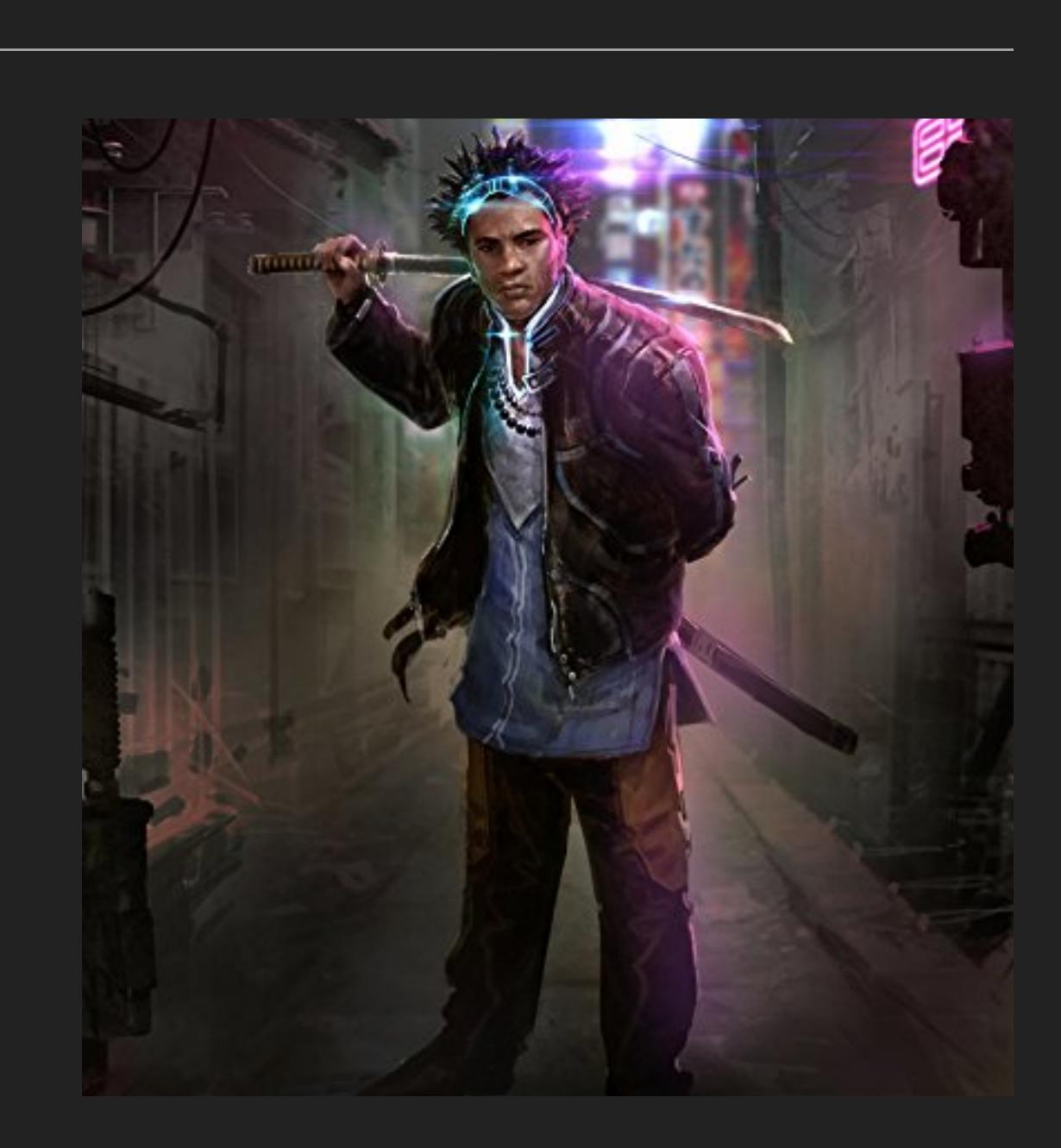


SNOW CRASH

- In the book, "Snow Crash" itself is a neurallinguistic virus.
- The bad guys figure out how to unlock it, and it spreads from hacker to hacker like a meme
- Plus, lots of swordplay

"IDEOLOGY IS A VIRUS." - NEAL STEPHENSON



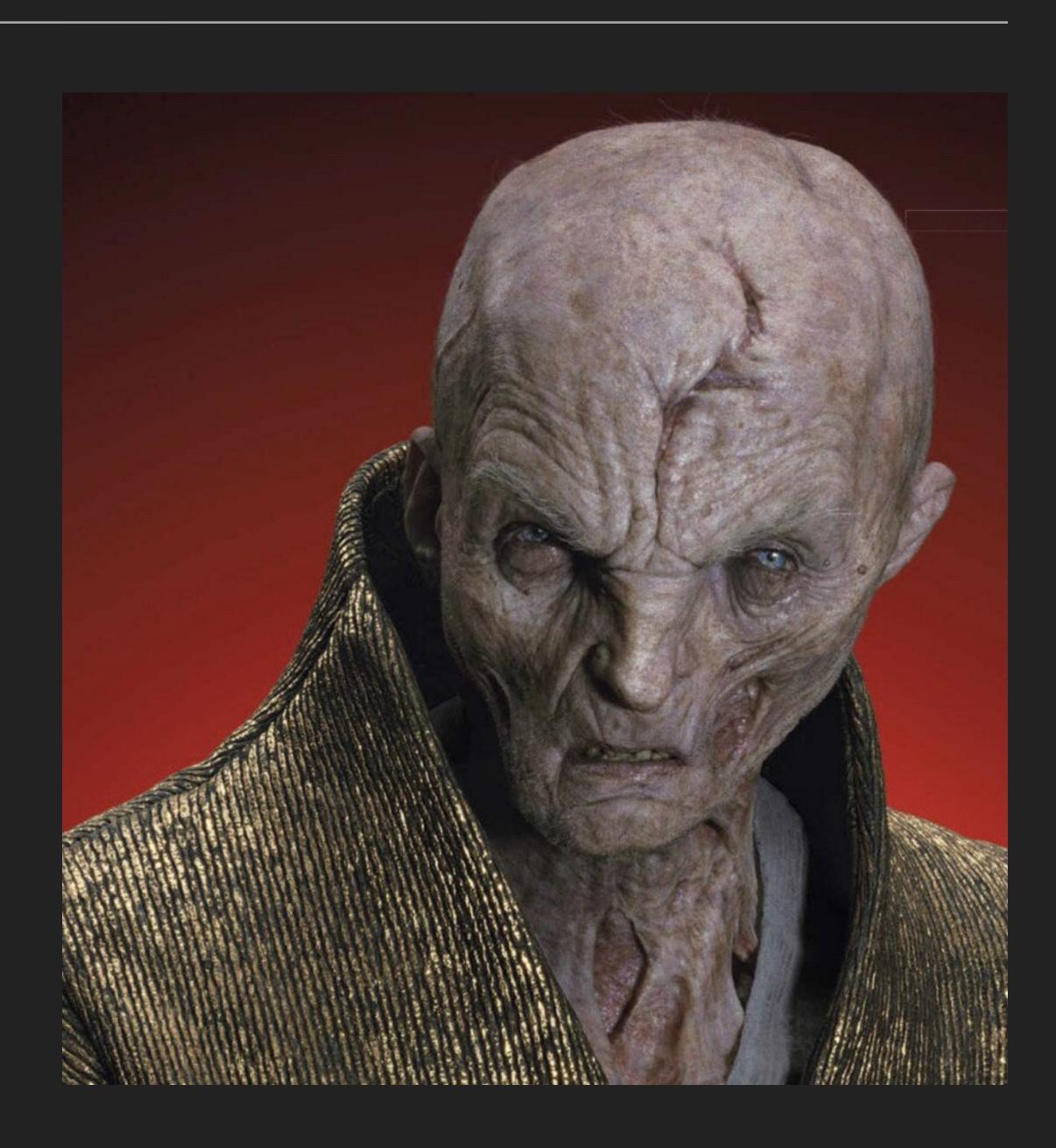


WHAT IF YOU ARE THE SUPREME LEADER?

- "Command and control" doesn't work
- Use measurement for good, not for evil
- Avoid "executive swoop"



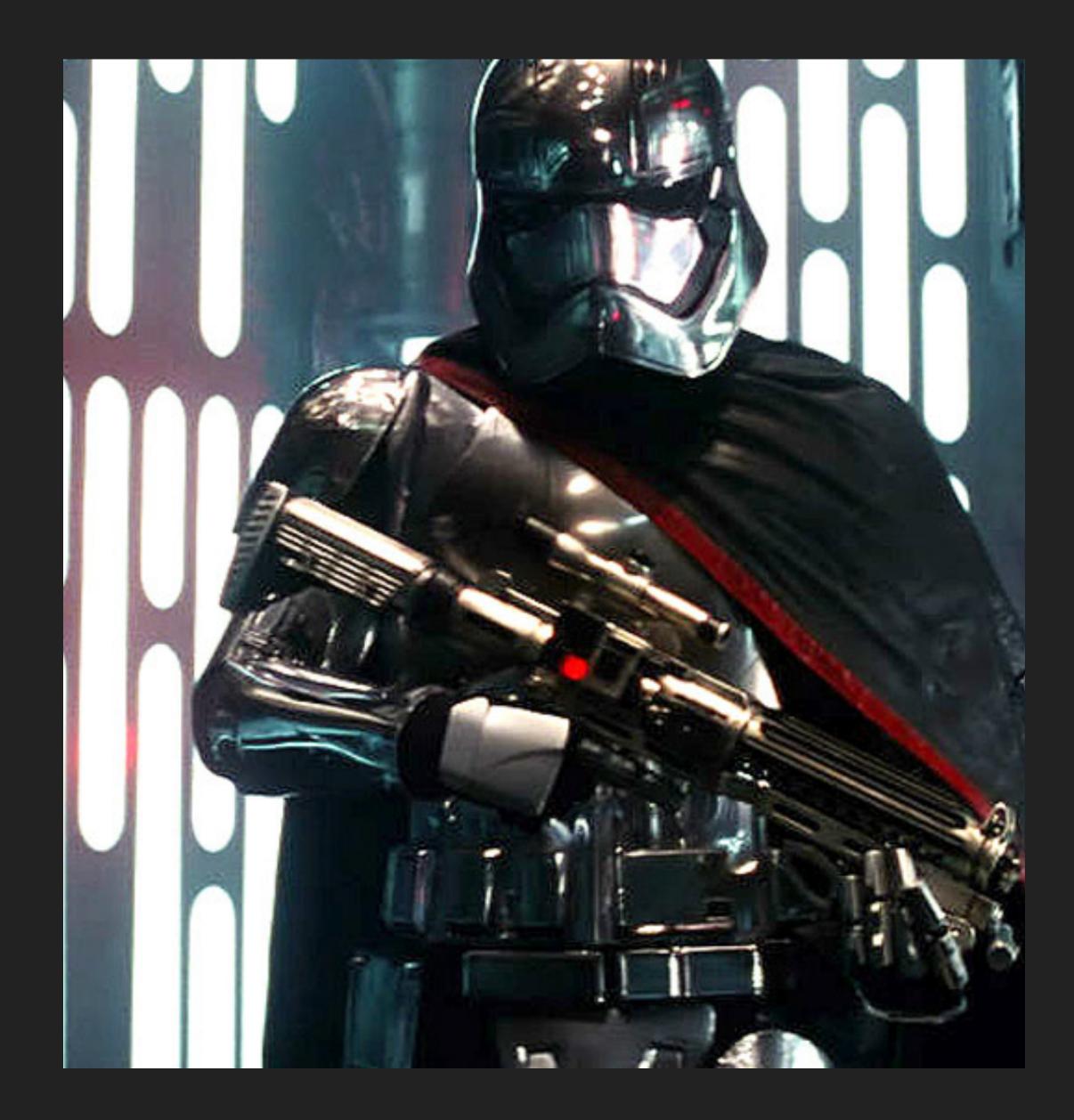




MIDDLE MANAGEMENT TIPS

- Encourage safe post-incident review spaces
- Drive for a culture of learning
- Take care of your people





A CULTURE OF LEARNING

- Don't take my word for it. Ask Ron Westrum.
- You can also ask Dr. Nicole Forsgren @nicolefv



In a generative, performance-oriented organization, "failure leads to inquiry."

http://bit.ly/2KpzKKW





USE THE FORCE, EVEN IF YOU AREN'T A JED









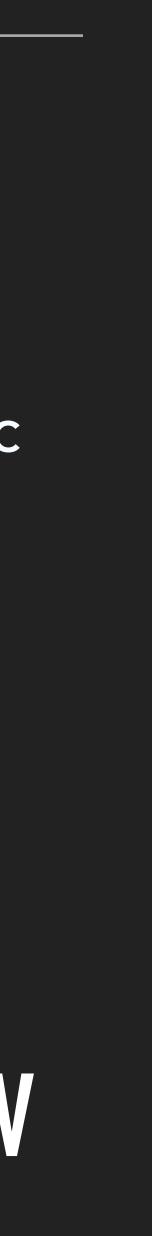
NORMALIZATION OF DEVIANCE

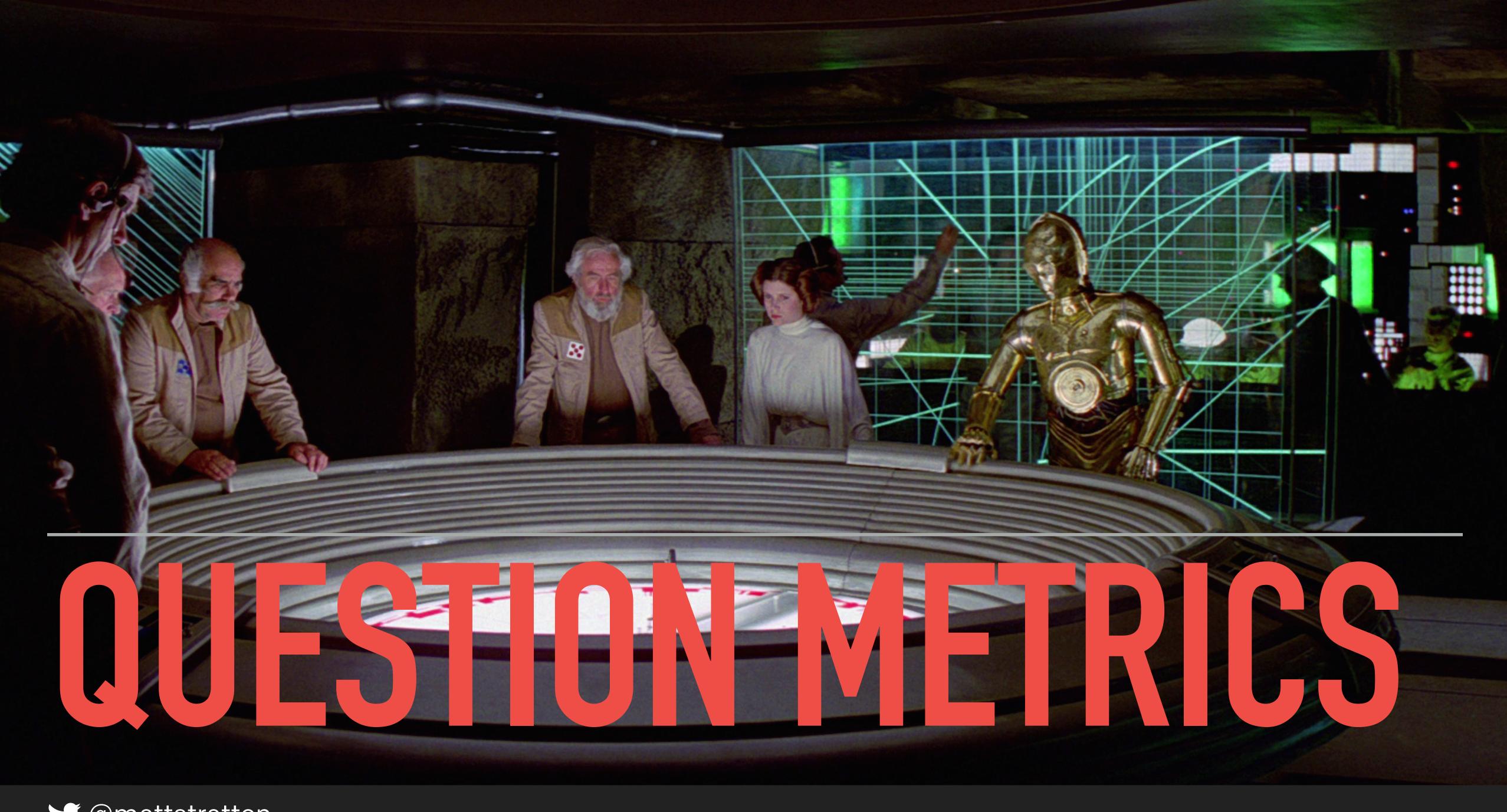
- The gradual process through which unacceptable practice or standards results, it becomes the social norm for the organization.
- This happened to NASA. Twice.
- In our case, we start to accept alerts or degradations as acceptable.



become acceptable. As the deviant behavior is repeated without catastrophic

http://bit.ly/2lhj1wV





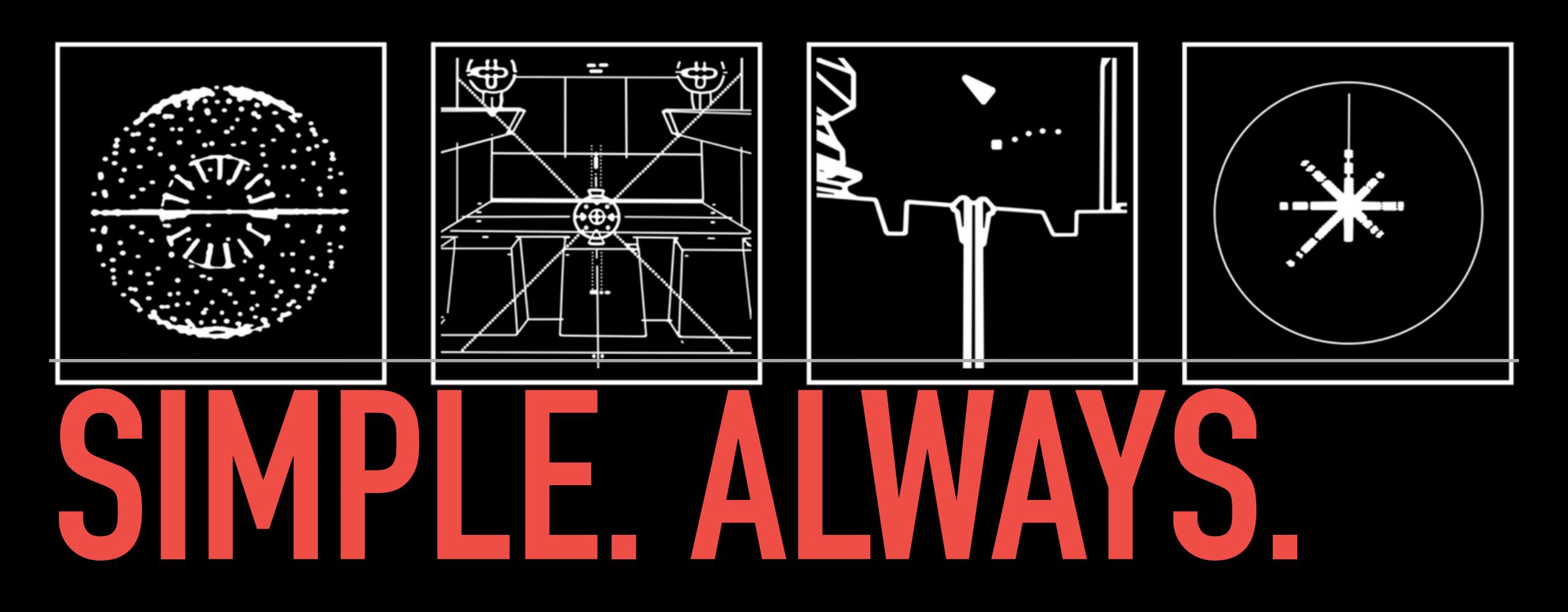


WHY ARE WE USING THESE NUMBERS?

- What is the data that drive your incident process
- Are your metrics tied to business outcomes?
- Correlation doesn't always equal causation









THE MORE RESILIENTLY THE SYSTEM IS DESIGNED, THE MORE LIKELY IT IS TO CAUSE A NEGATIVE BUSINESS IMPACT

Stratton's Law of Catastrophic Predestination







TALK TO PEOPLE

- Who are your customers? What are their expectations?
- Whose customer are you? Can you help them out?
- What are the perceptions of your team?





HUMANS, PEOPLE ARE

- Consider contextual on-call
- The Golden Rule
- Bake cookies











DURING A CALL

- Have clearly defined roles
- Avoid bystander effect
- Rally fast, disband faster
- Don't litigate severity
- Have a clear mechanism for making decisions







TESTS ARE FOR SWE AND SRE BOTH

- All functional tests used in preproduction should have a corresponding monitor in production
- the build/release process
- between preproduction and production.



All monitoring functionality in production should have corresponding tests in

Monitoring is testing with at time dimension. There should be full parity





HELP YOUR RESPONDERS IN EACH AND EVERY SPRINT

- In each sprint/work unit, add value to your responders
- Even if it's not on a card
- You rebel, you.



SOME EXAMPLES

- Provide better context in logging (stacktraces alone don't count)
- Remove some technical debt. Yes, you have some.
- Add some (useful) tests
- Remove something unused



If you use feature flags, add a description field to the configuration

- considered harmful)
- SIMPLIFY, MAN!



If you use runbooks, ensure they are up to date every time you cut a release. If you don't do this, abandon the runbook altogether (an incorrect runbook is





SHARE YOUR ON-CALL STORIES WITH ME LATER

@MATTSTRATTON LINKEDIN.COM/IN/MATTSTRATTON MATTSTRATTON.COM **ARRESTEDDEVOPS.COM**





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FURTHER READING AND REFERENCES

- <u>2rGTnq4</u>
- Page It Forward! <u>http://bit.ly/2In8Lzc</u>
- You) <u>http://bit.ly/2lhj1wV</u>



Improving Your Employee Retention With Real-Time Ops Data - <u>http://bit.ly/</u>

The study of information flow: A personal journey - <u>http://bit.ly/2KpzKKW</u>

The Normalization of Deviance (If It Can Happen to NASA, It Can Happen to

Snow Crash by Neal Stephenson - <u>http://bit.ly/2liuc8L</u> The Cybersecurity Canon: Snow Crash - <u>http://bit.ly/2InDYGI</u> PagerDuty Incident Response - <u>http://response.pagerduty.com</u>



Disasters! Arrested DevOps Episode 37 - <u>https://arresteddevops.com/37</u>