HOW TO INFECT YOUR ORGANIZATION





Matty Stratton DevOps Advocate, PagerDuty

🥑 @mattstratton

















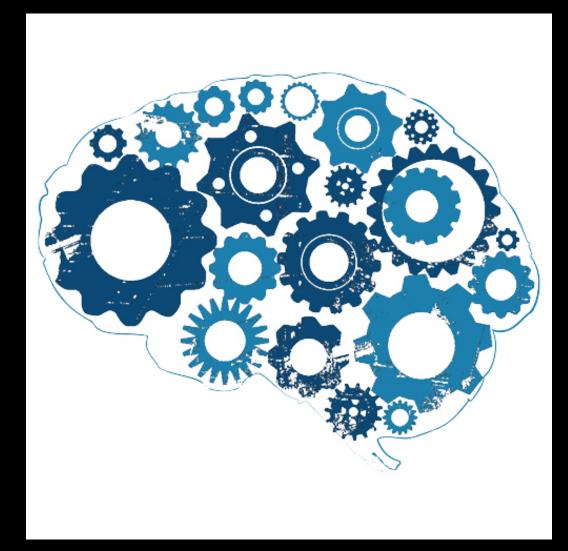










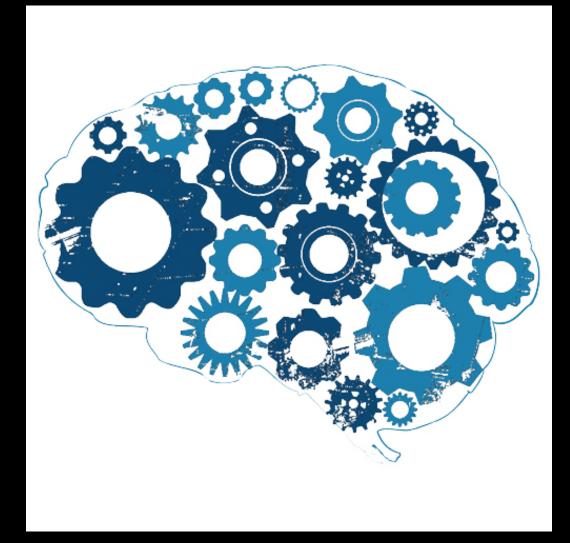






















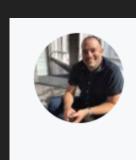


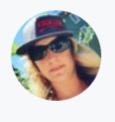


Matty Stratton @mattstratton

Describe your on-call situation in three words:

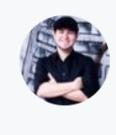
1:00 PM - 14 May 2018





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"





60 million notifications during dinner hours





- 60 million notifications during dinner hours
- 82 million notifications during evening hours





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- 250 million notifications during sleeping hours





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- 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 ATTRITION ARE





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Number of days where a responder's work and life are interrupted





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- Number of days when a responder is woken overnight





THE MOST MEANINGFUL METRICS ON ATTRIT

- 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.







Charity Majors @mipsytipsy

we make it *not* suck?

6:43 AM - 31 Jan 2018 from City of London, London

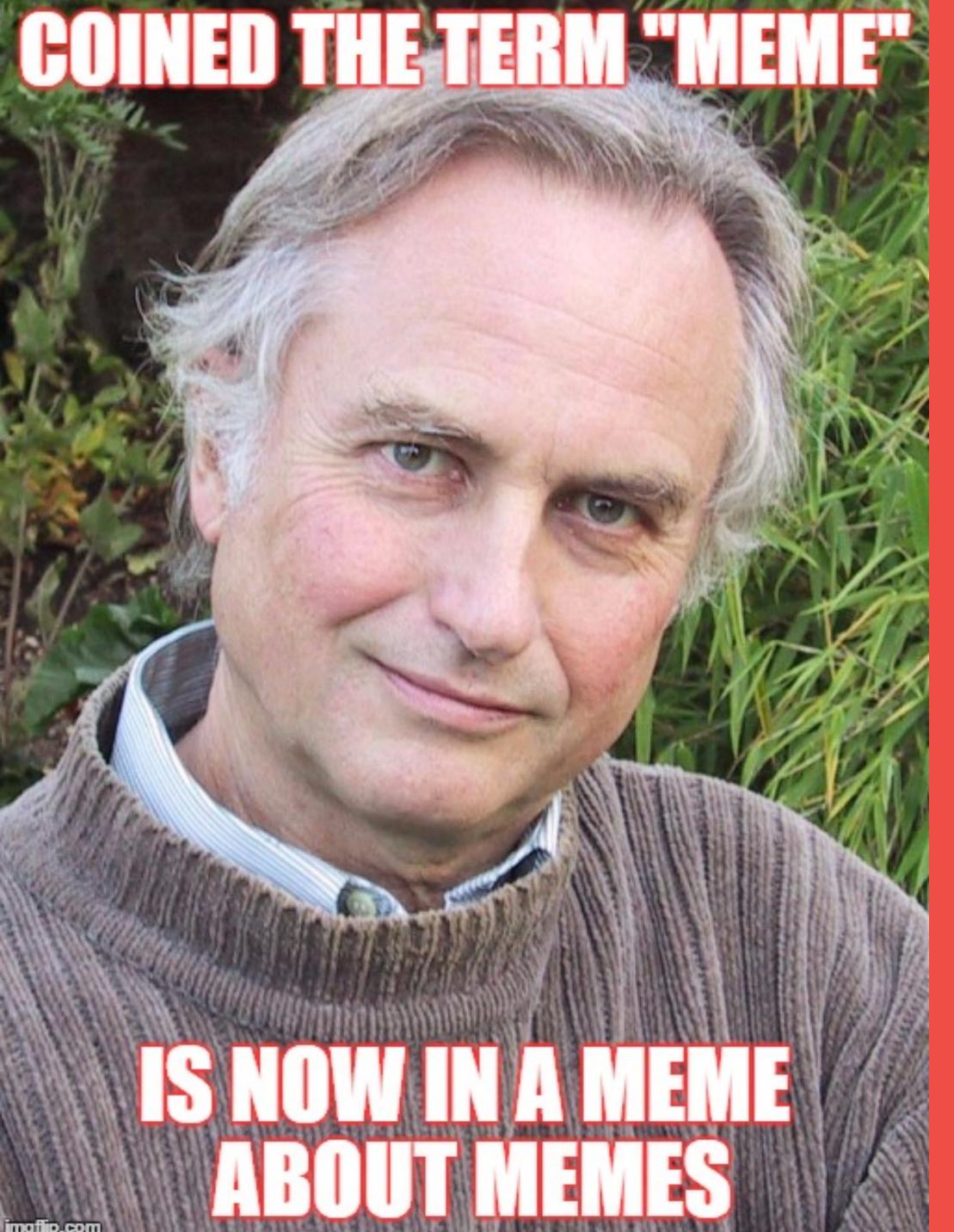
9 Retweets 25 Likes







- Yes, yes. On call sucks and can destroy your life. I know this. Bored now.
- On call is a fact of life for anyone who cares about developing high quality software for the long run. So how can



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



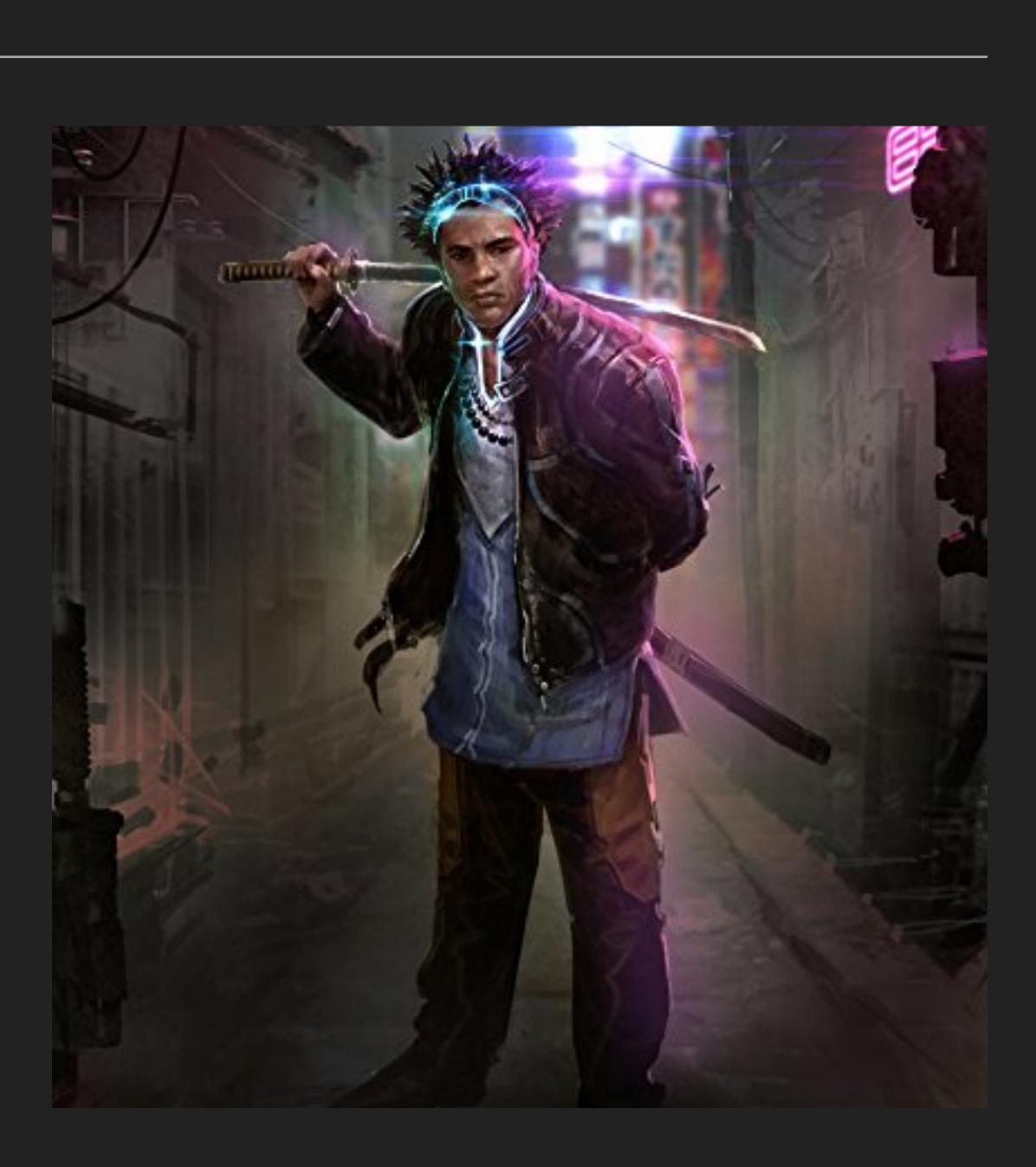






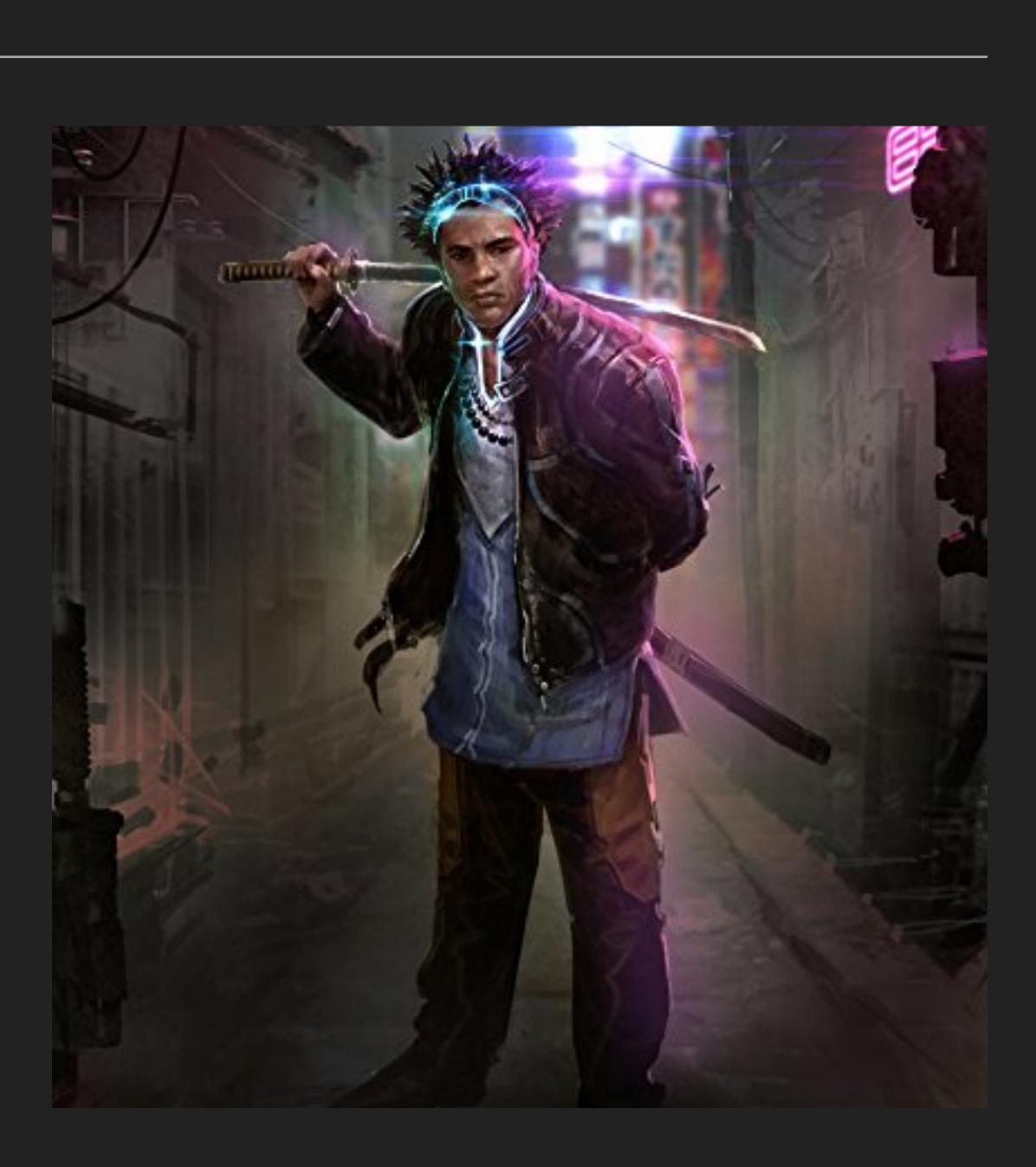






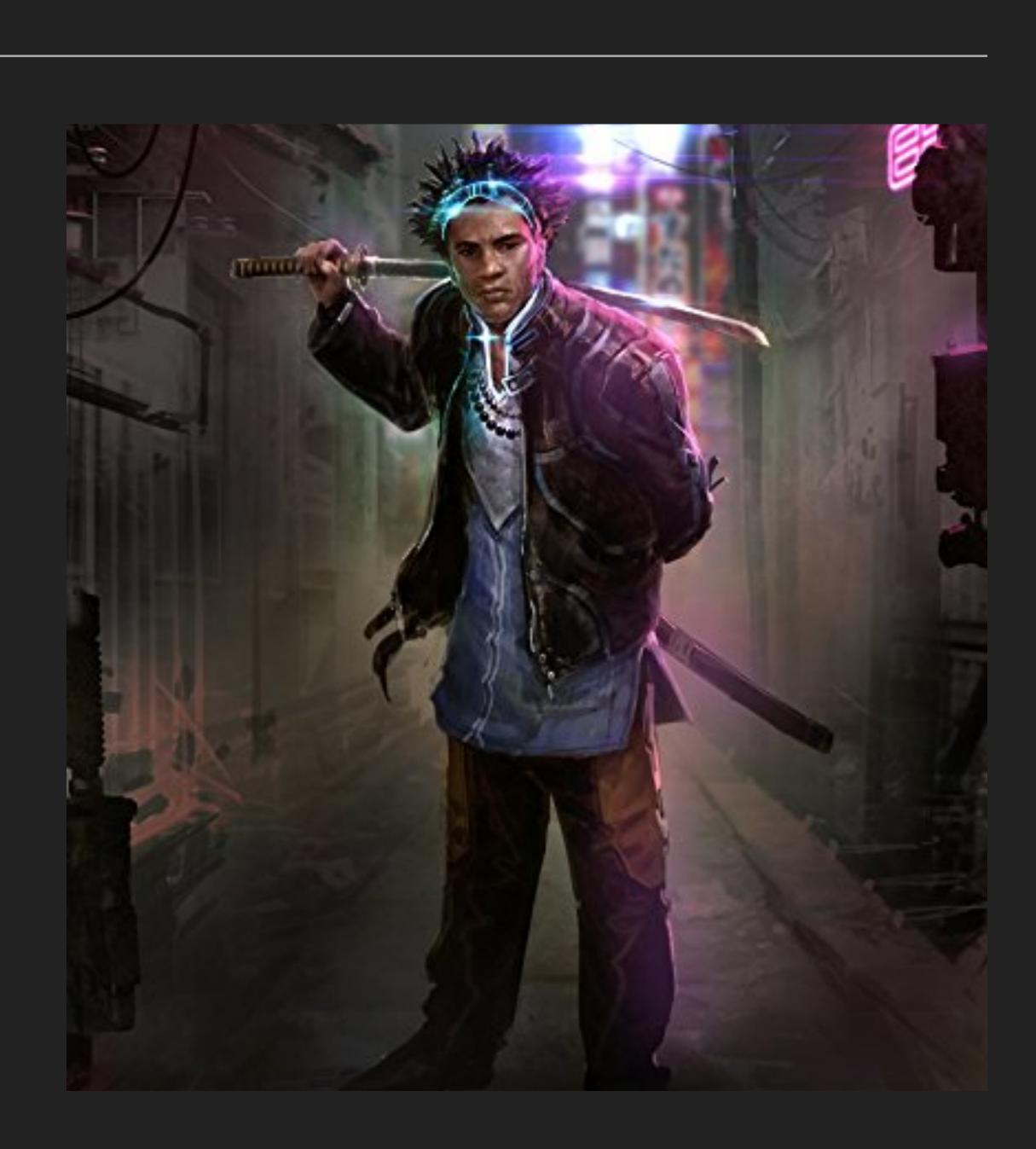
In the book, "Snow Crash" itself is a neurallinguistic virus.





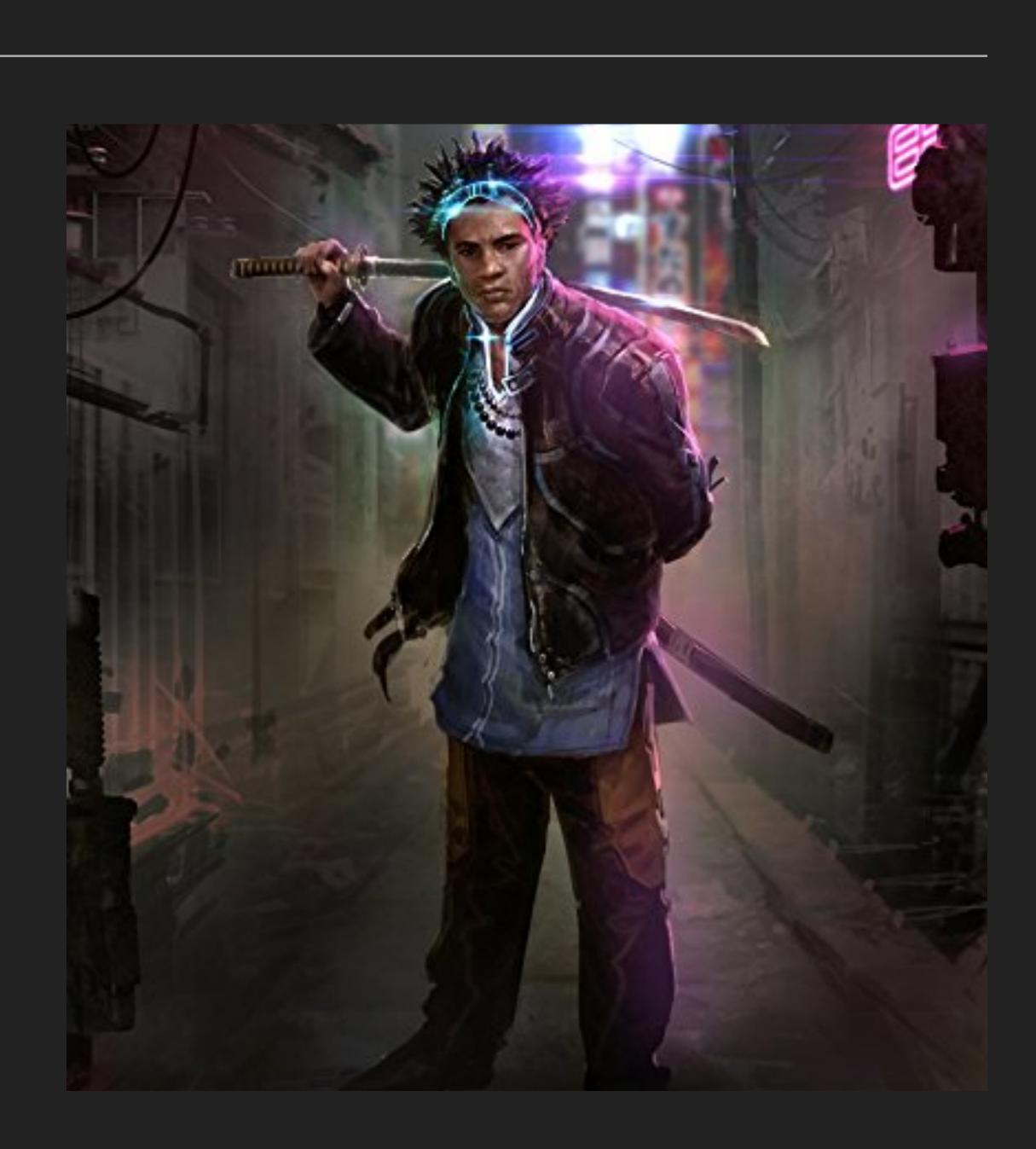
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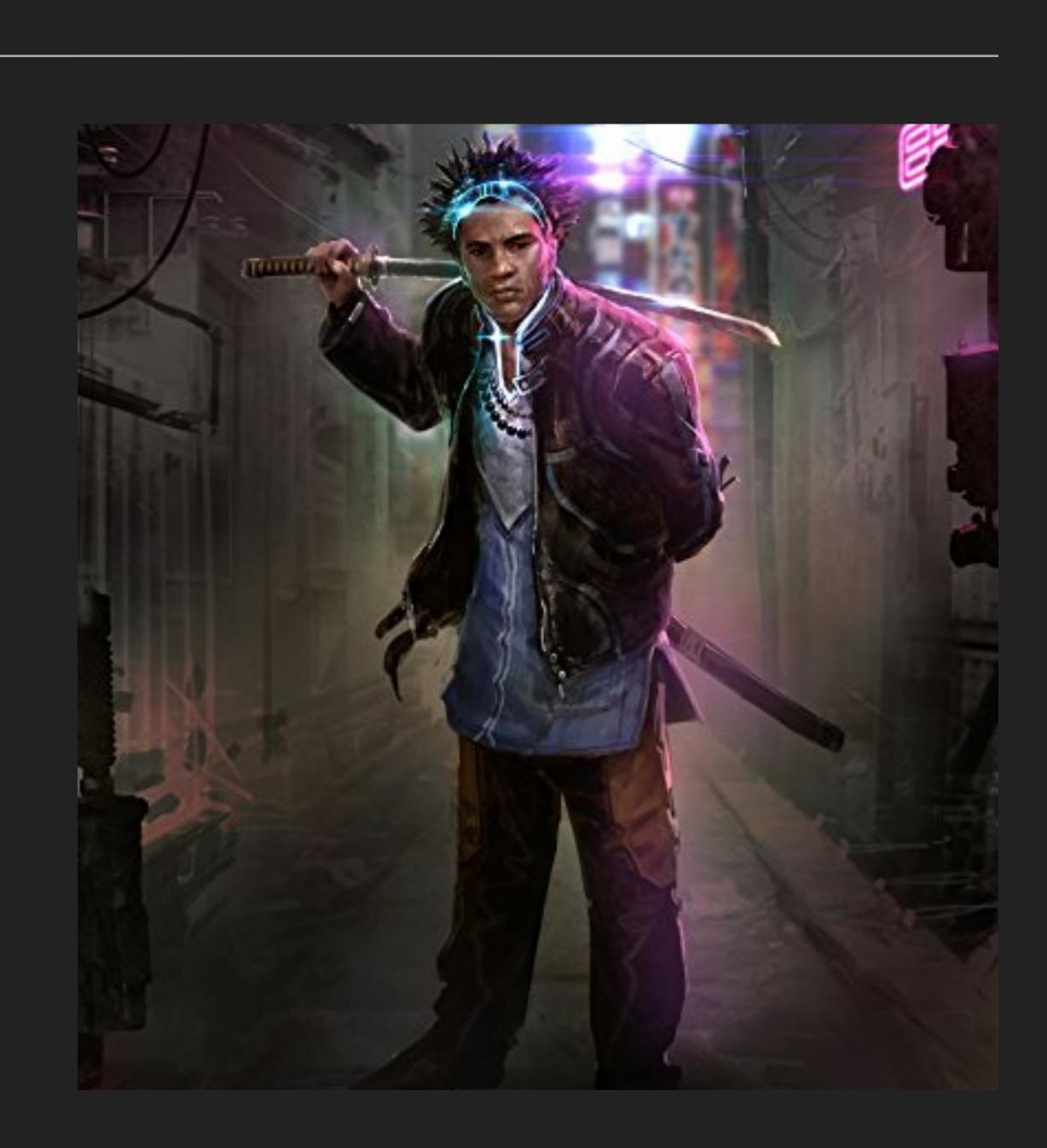




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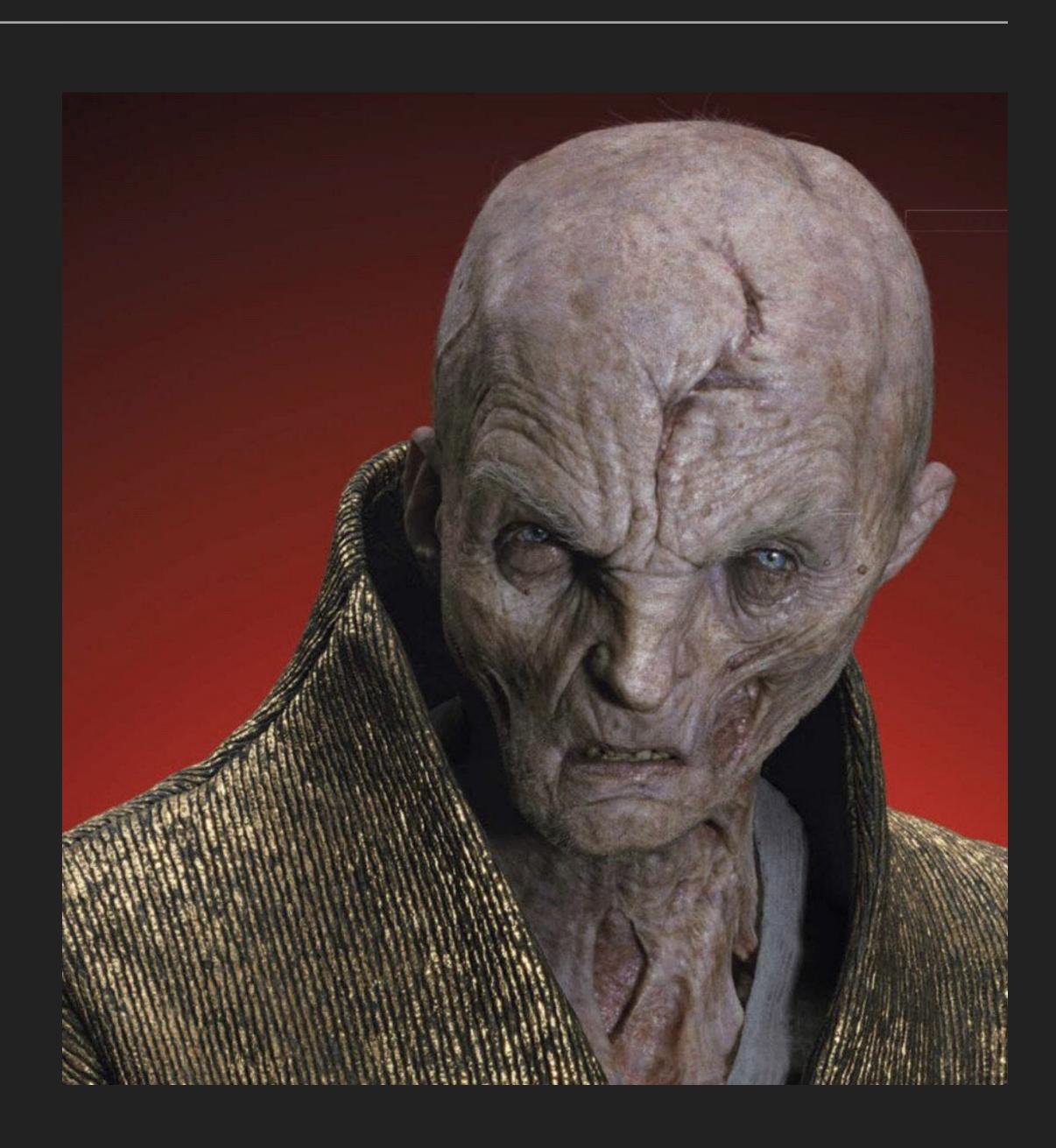
"IDEOLOGY IS A VIRUS." - NEAL STEPHENSON







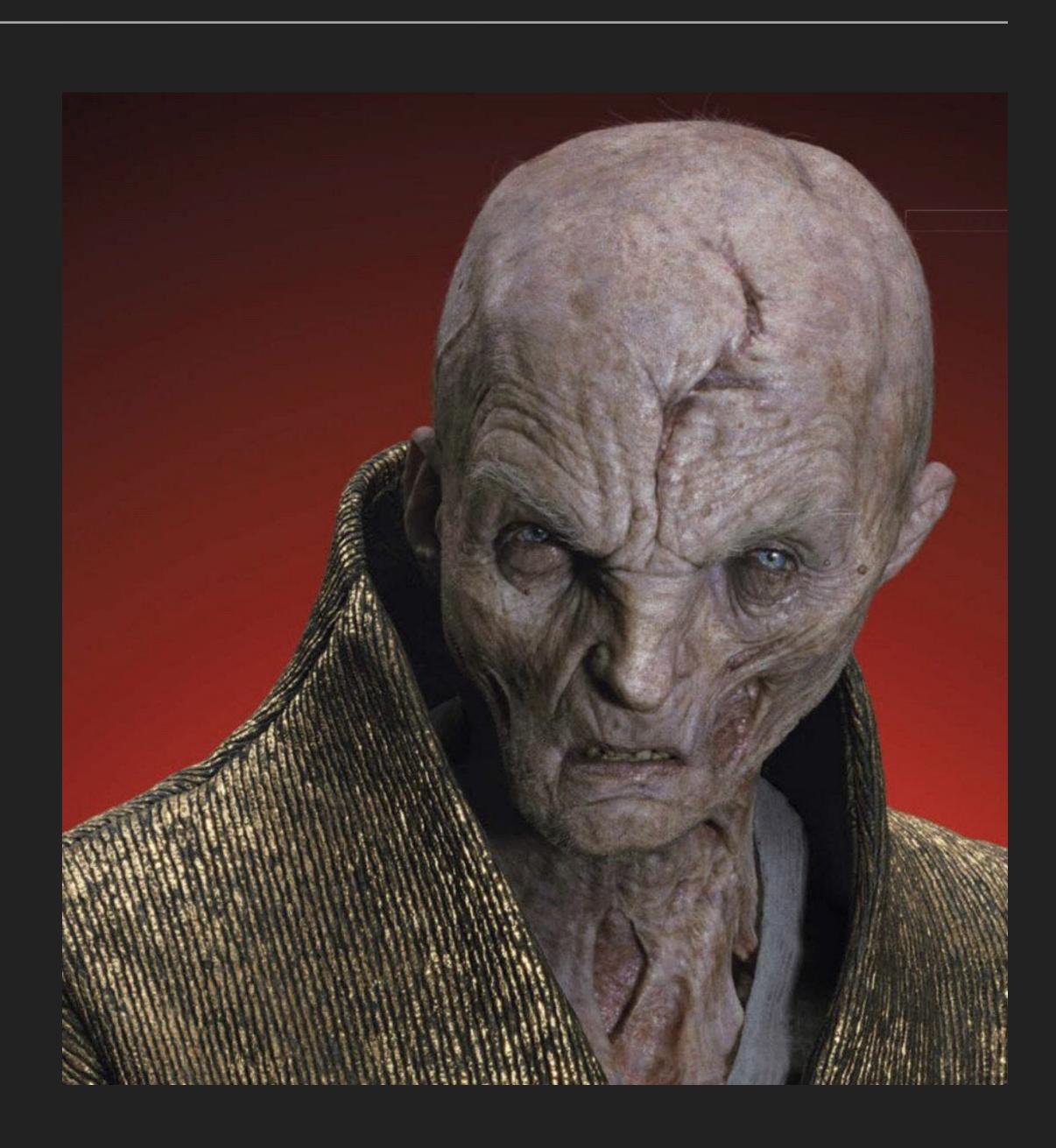




"Command and control" doesn't work



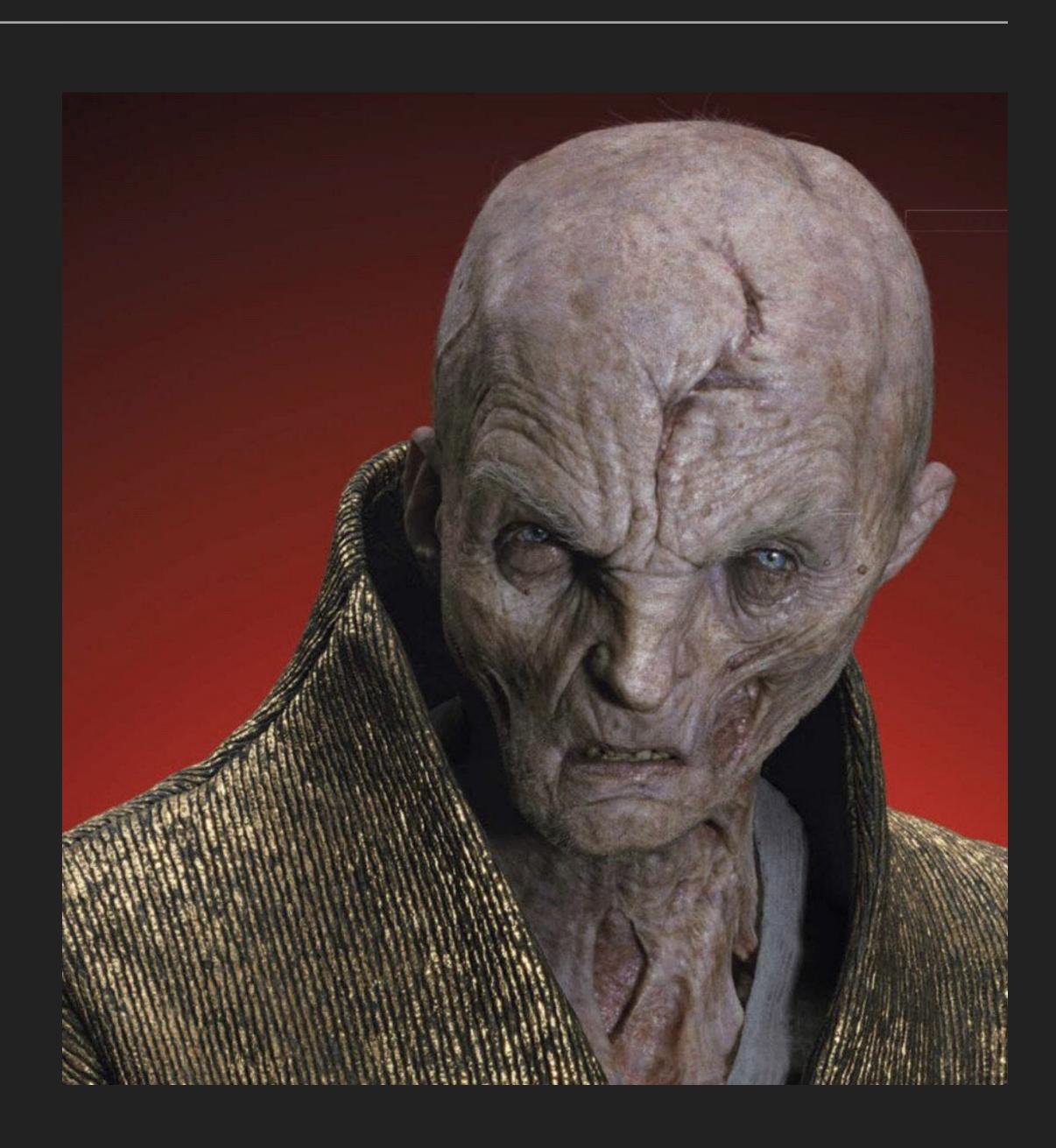




- "Command and control" doesn't work
- Use measurement for good, not for evil



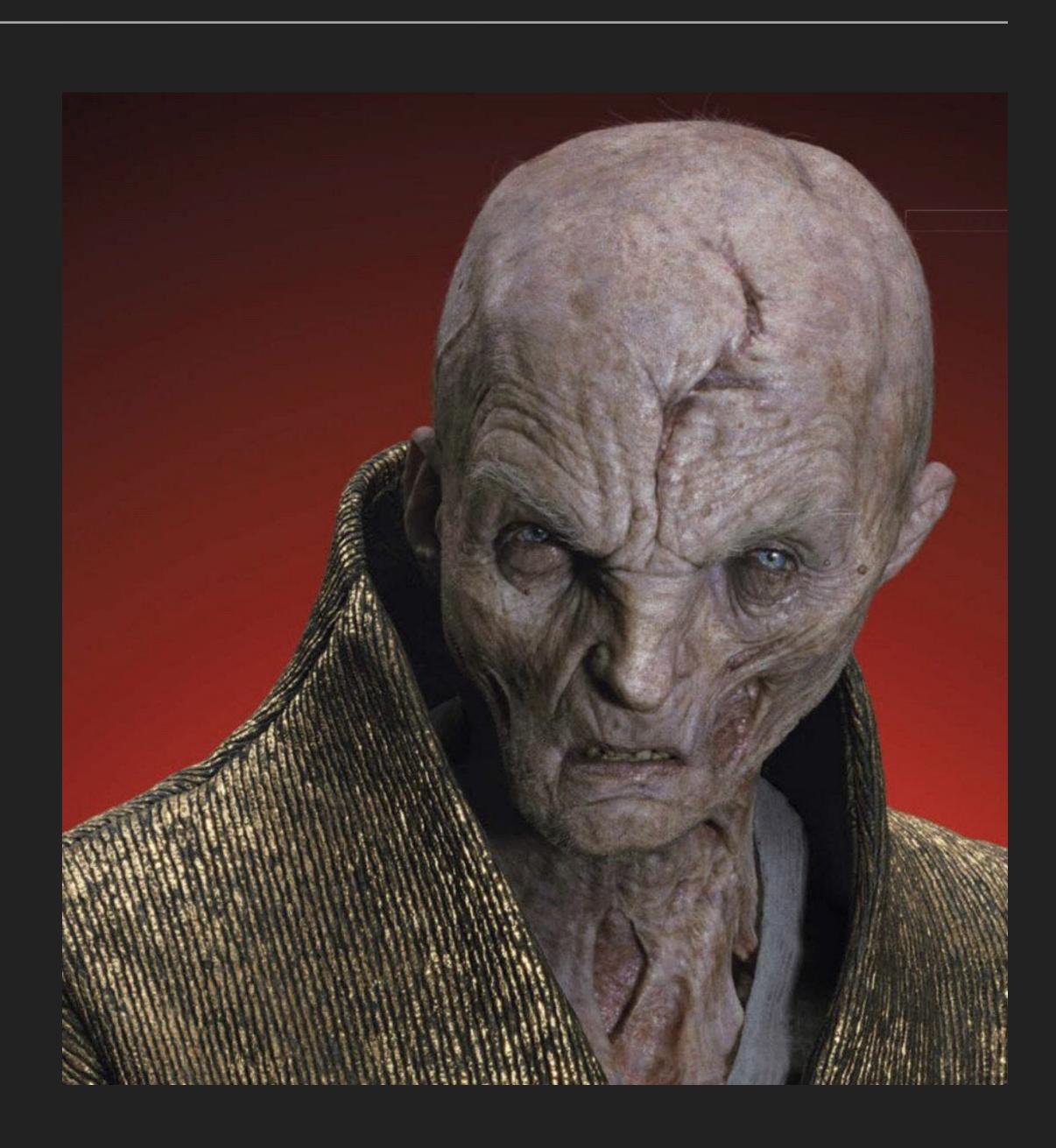




- "Command and control" doesn't work
- Use measurement for good, not for evil
- Avoid "executive swoop"







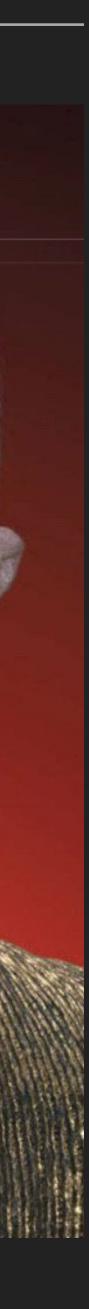






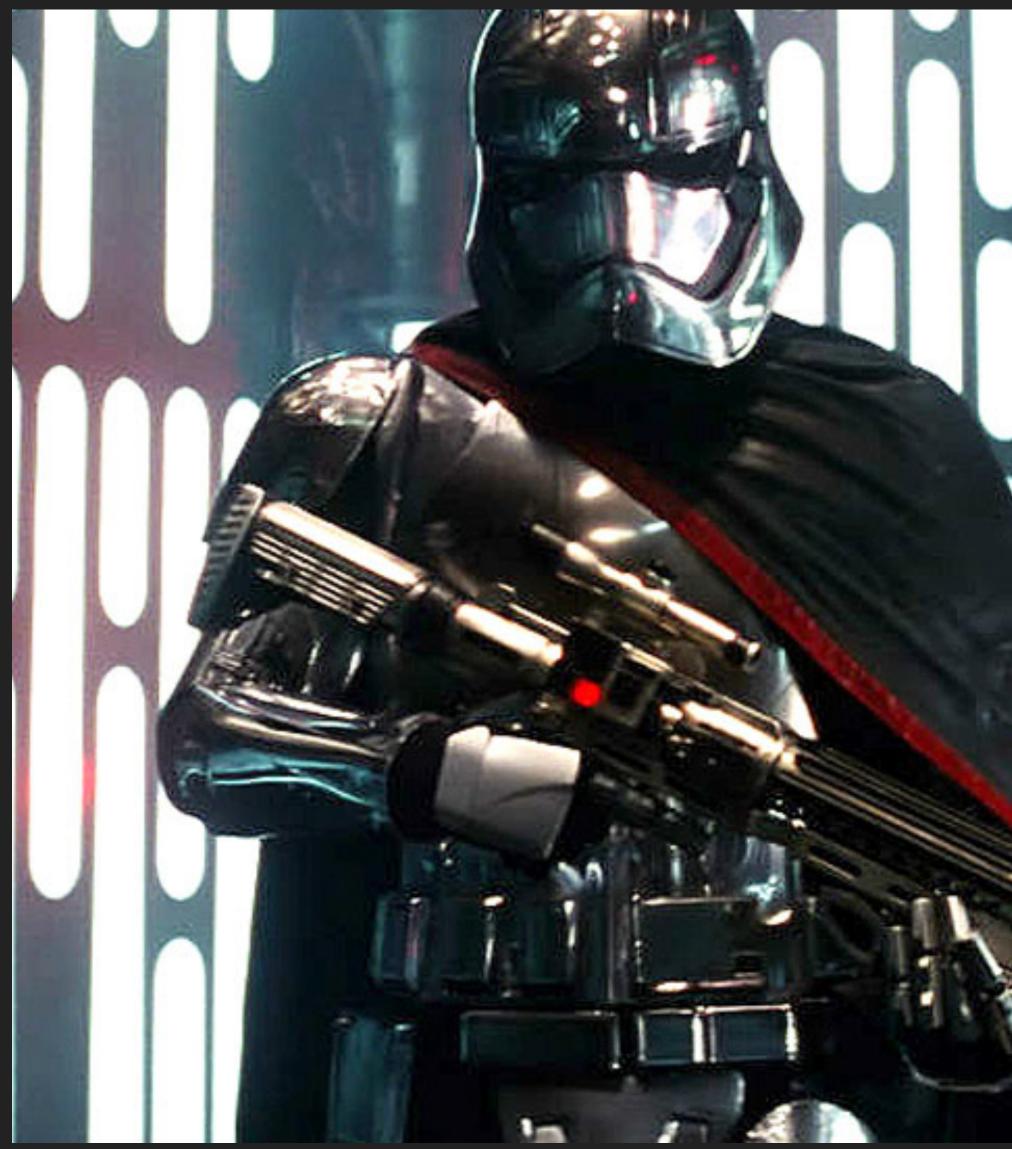
HAVE YOU TRIED TURNING IT OFF AND ON AND AGAIN?

REPART OF ALL AND A REAL PARTY



MIDDLE MANAGEMENT TIPS



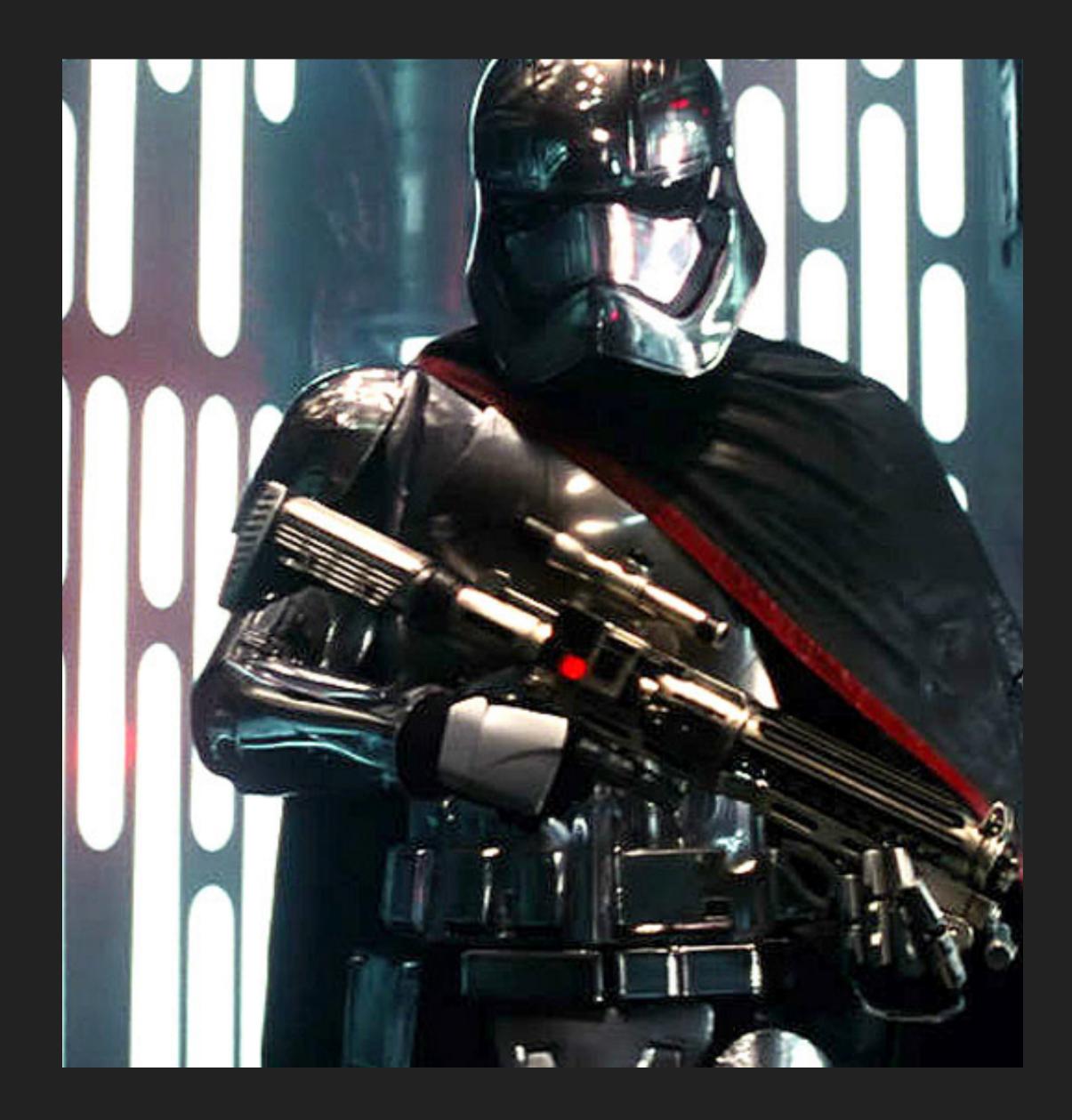




MIDDLE MANAGEMENT TIPS

Encourage safe post-incident review spaces

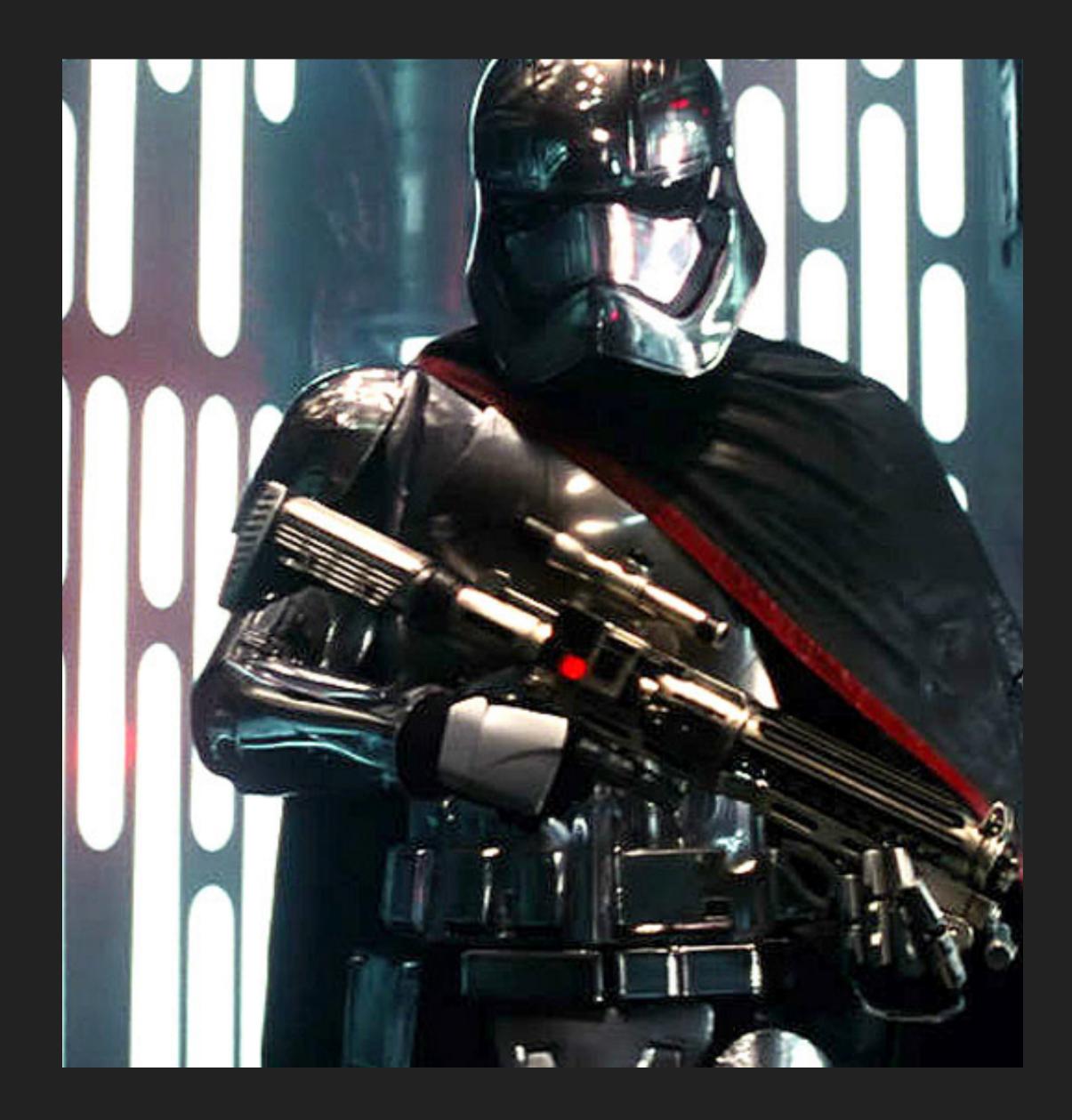




MIDDLE MANAGEMENT TIPS

- Encourage safe post-incident review spaces
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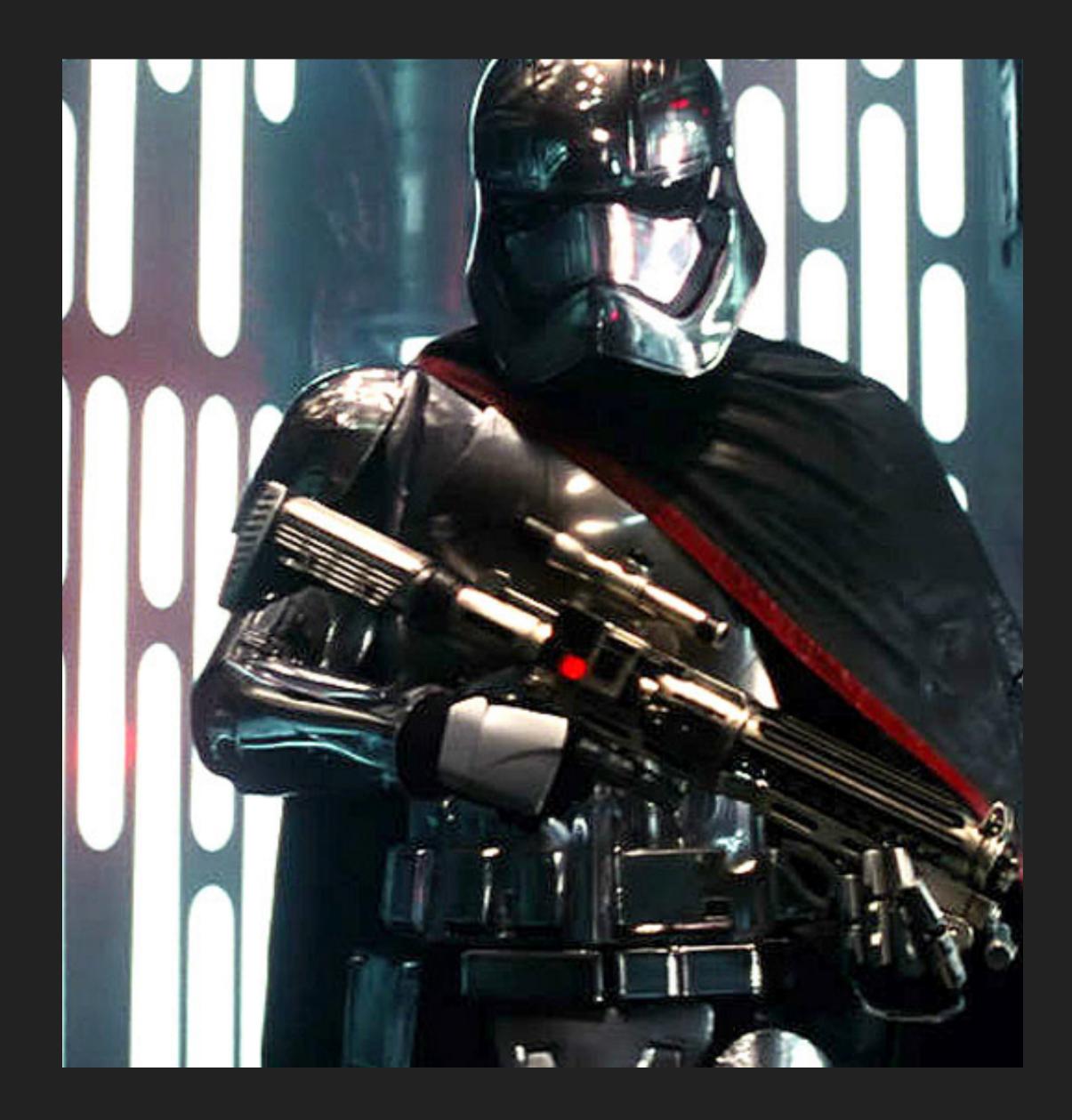




MIDDLE MANAGEMENT TIPS

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









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

- Don't take my word for it. Ask Ron Westrum.



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- You can also ask Dr. Nicole Forsgren @nicolefv



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http://bit.ly/2KpzKKW

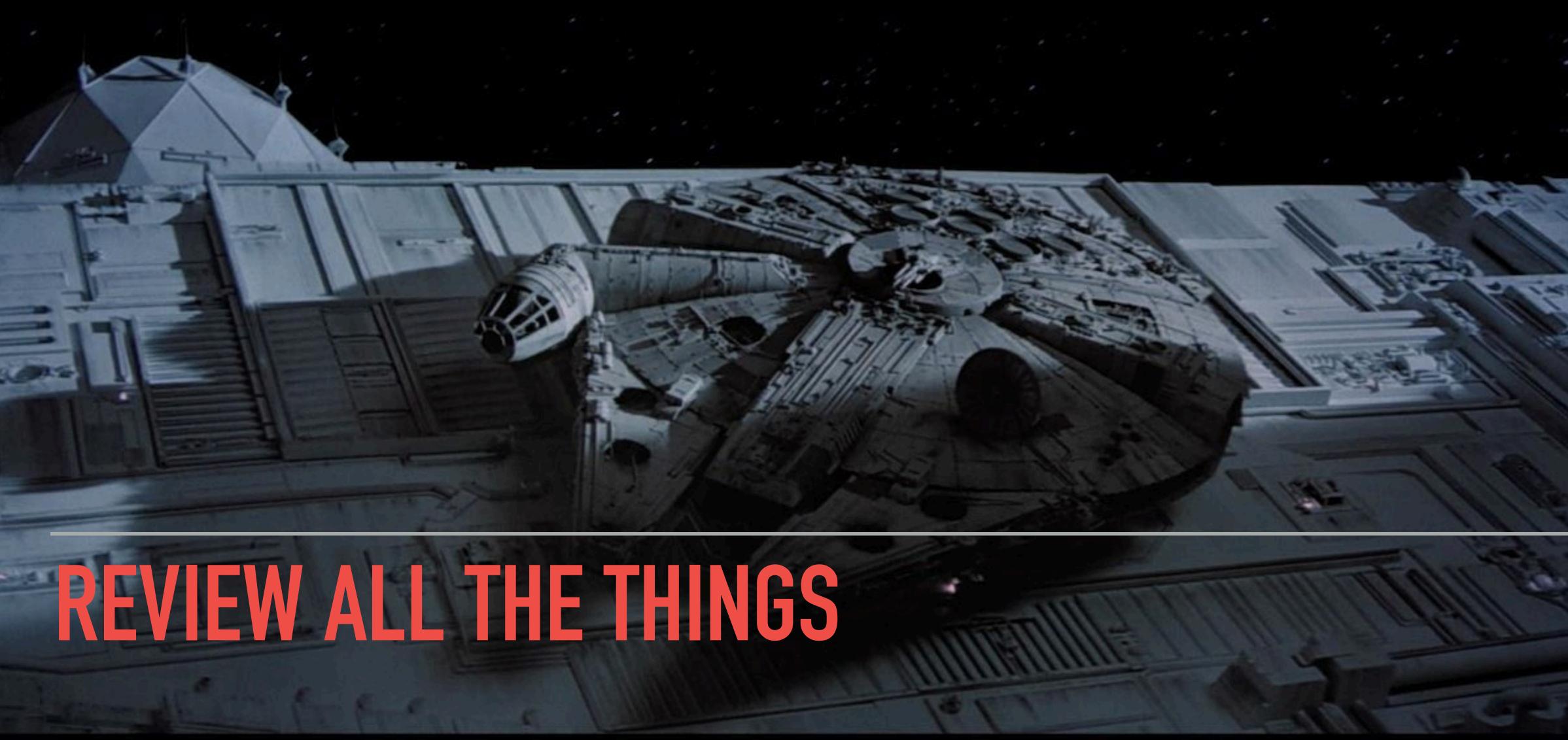




USE THE FORCE, EVEN IF YOU AREN'T A JED











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- Approximately a week's worth of on-call history is common



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- Approximately a week's worth of on-call history is common
- Take about 30 minutes, give or take





Typically instituted by a team manager



Typically instituted by a team manager Usually run by on-call responders



Typically instituted by a team manager Usually run by on-call responders call



Minimum attendees are the team manager, outgoing on-call, and incoming on-

- Typically instituted by a team manager
- Usually run by on-call responders
- call
- BETTER PRACTICE include the entire team!



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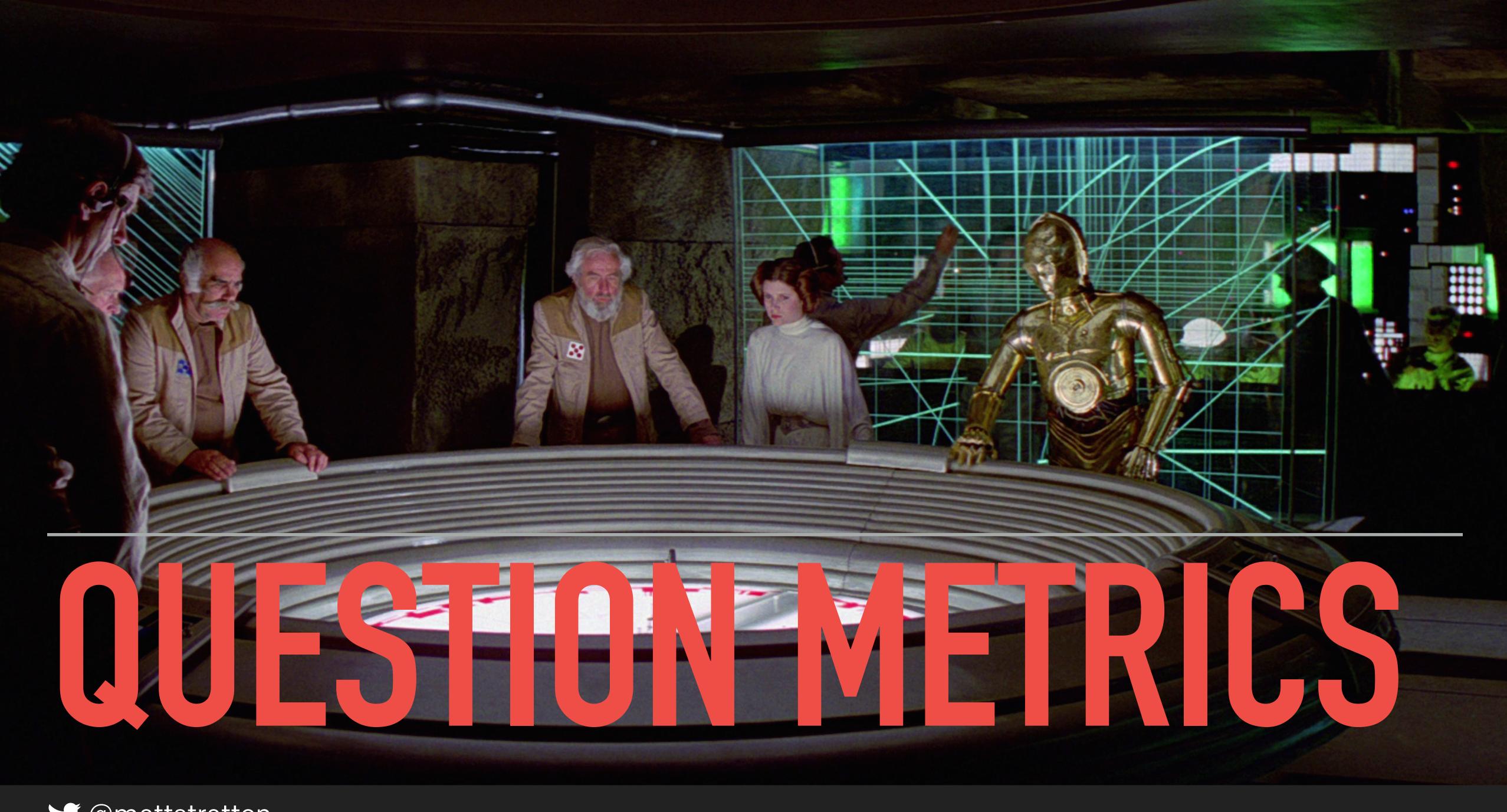
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http://bit.ly/2lhj1wV











What is the data that drive your incident process





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- Are your metrics tied to business outcomes?

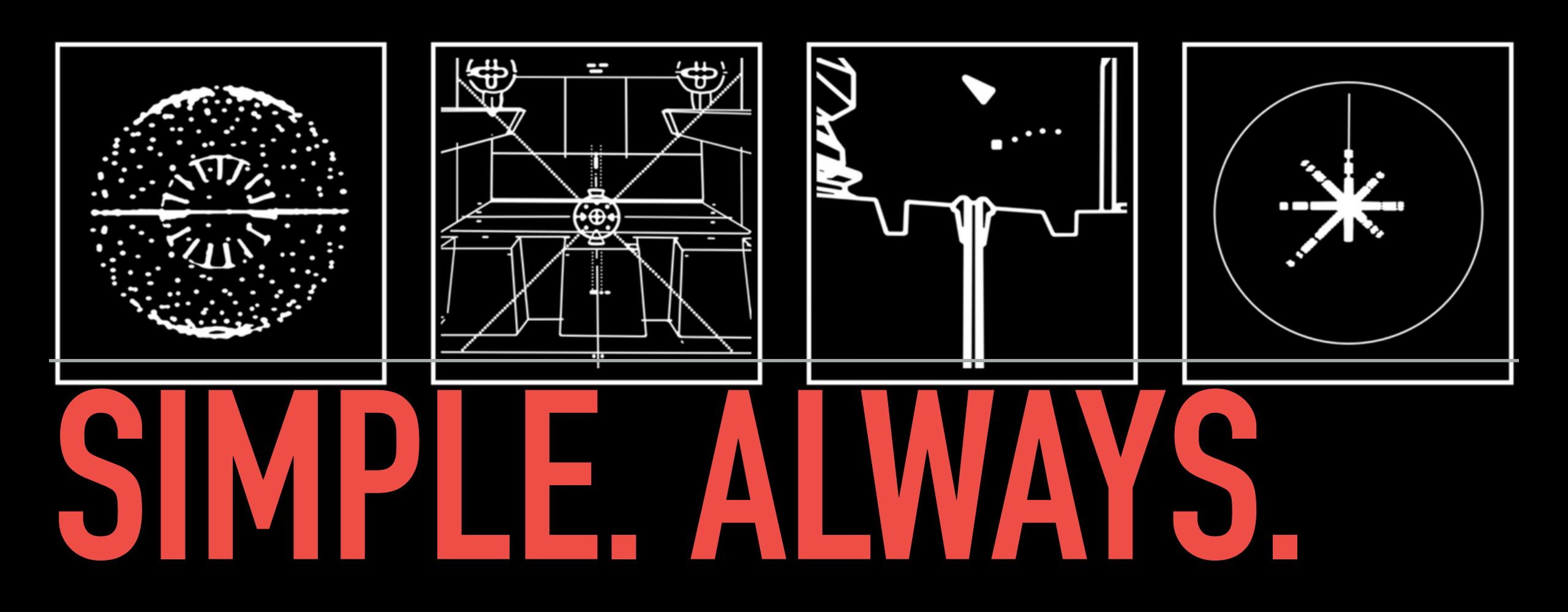




- What is the data that drive your incident process
- Are your metrics tied to business outcomes?
- Correlation doesn't always equal causation





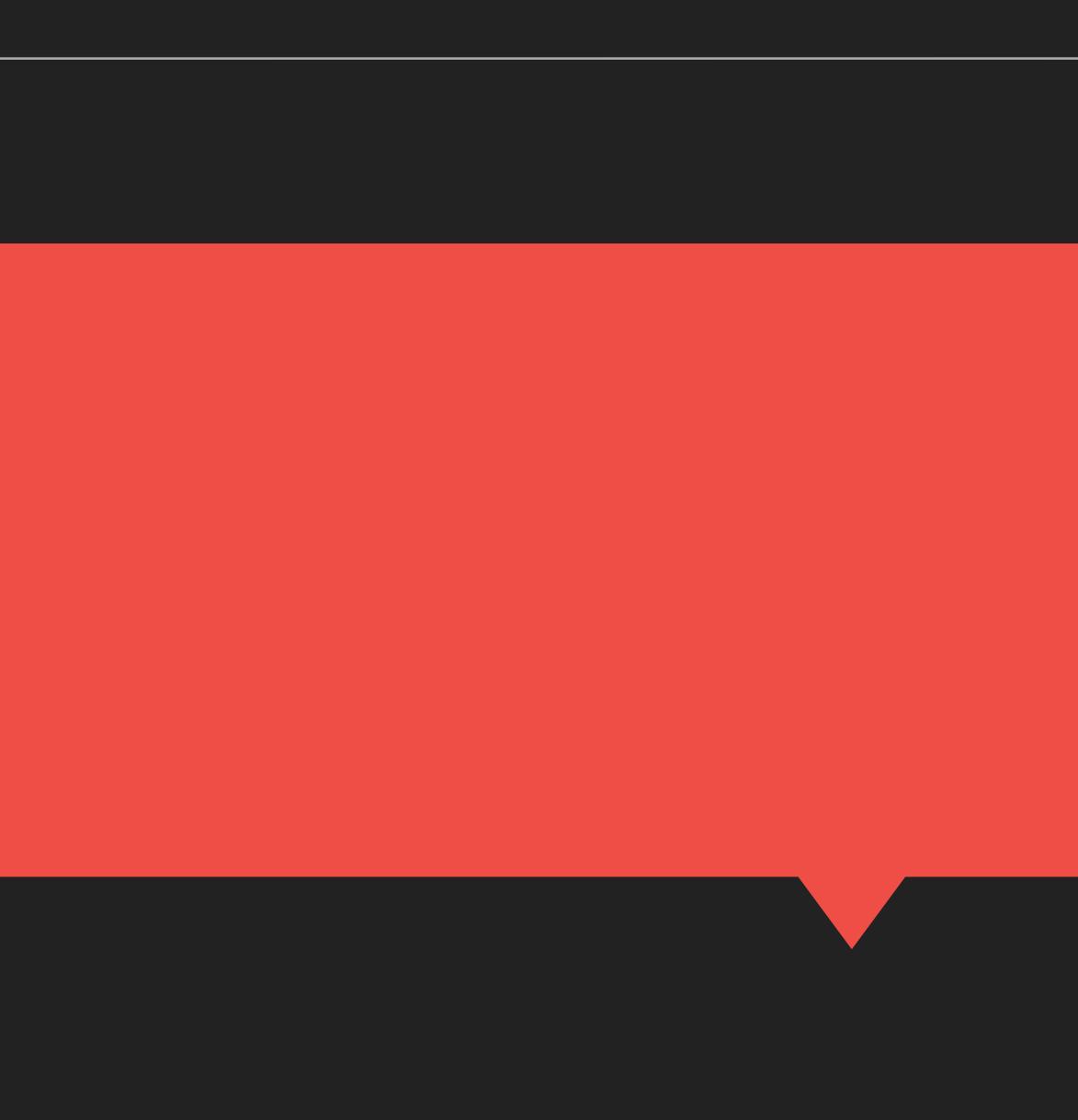




KEEP IT SIMPLE









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





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Stratton's Law of Catastrophic Predestination











Who are your customers? What are their expectations?





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- Whose customer are you? Can you help them out?





- 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







- Consider contextual on-call
- The Golden Rule







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







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



CookieOps

@cookieopsdotcom

#DevOps Makes More Sense with Cookies.

S cookieOps.com

Joined September 2014

32 Photos and videos





and the second s





















Have clearly defined roles



Have clearly defined roles

Avoid bystander effect



- Have clearly defined roles
- Avoid bystander effect
- Rally fast, disband faster



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- Don't litigate severity



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









in production



All functional tests used in preproduction should have a corresponding monitor





- in production
- the build/release process



All functional tests used in preproduction should have a corresponding monitor

All monitoring functionality in production should have corresponding tests in





- in production
- the build/release process
- between preproduction and production.



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











In each sprint/work unit, add value to your responders



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



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





Provide better context in logging (stacktraces alone don't count)



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- Remove some technical debt. Yes, you have some.



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- Add some (useful) tests



- 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



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considered harmful)



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



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

- considered harmful)
- SIMPLIFY, MAN!



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SHARE YOUR ON-CALL STORIES WITH ME LATER

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FURTHER READING AND REFERENCES

- <u>2rGTnq4</u>
- Page It Forward! <u>http://bit.ly/2In8Lzc</u>
- The study of information flow: A personal journey <u>http://bit.ly/2KpzKKW</u>
- You) <u>http://bit.ly/2lhj1wV</u>



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

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 - http://bit.ly/2InDYGI PagerDuty Incident Response - <u>https://response.pagerduty.com</u> Operational Reviews - <u>https://reviews.pagerduty.com</u>



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