# The biases confronting SREs

## My road to today (bias-baseline)



## Who is this quote about?

'A person with much more power than you and who is bitter enough to use it in ways that please him/her'

Source: Urban Dictionary, SysAdmin

# **Cognitive bias**



Trusting perceptions rather than objective reality when processing information and making decisions

#### THE COGNITIVE BIAS CODEX





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### **Common examples**

- Confirmation bias
- Occam's razor
  - Anchoring
- Planning fallacy
- Conway's Law
- Negativity/pessimism bias
- Sunk cost fallacy
- Exponential growth bias
- Maslow's hammer
- O Déformation professionnelle

Wikipedia's list of 188 cognitive biases rendered by John Manoogian III (jm3). Category model by Buster Benson, biases linked to corresponding Wikipedia articles by TilmannR.

## Tech industry stereotypes

- **O** Sysadmins are grumpy and jaded
- Operations people resist change
- Ø Brilliant jerk
- O Devs don't want to support the services they build
- O Devs can do anything ops can do







## SRE is what happens when you **ask a software engineer** to design an operations team

Ben Treynor Sloss, Google, circa 2003 https://sre.google/sre-book/introduction

## What is SRE?

A role combining software development, reliability engineering, and operations disciplines

- Ø Monitoring
- O Collaborations with product engineering teams
- O Change management & CI/CD
- © Emergency response, incident management, and blameless root cause process
- System availability (reliability, scalability) & performance (latency, error rate)
- O Automation
- O Toil measurement and management
- Service level indicators (SLI), objectives (SLO), and agreements (SLA)
- O Error budgets



## SRE origination bias?

Google has a complex fabric of supporting services

> SRE concepts break down without high performance

Software and automation have limitations

We coin the term "origination bias" to refer to the practice of viewing findings from a single, original study as being almost sacred.

-Paul D. Bliese & Mo Wang

### Is SRE an instance of class DevOps?

#### SRE

Goal: Increase reliability

Method: Use software for operations

**Remit:** performance and change management, automation code, monitoring & on-call

#### DevOps

Goal: Increase velocity Method: Collaborate to reduce silos Remit: design, develop, test, release, and support product code

#### DevOps team topologies Matthew Skelton & Manuel Pais @devopstopologies.com



The DevOps Topologies collection of patterns (diagrams and descriptions) by **Matthew Skelton and Manuel Pais** is licensed under a **Creative Commons Attribution-ShareAlike 4.0 International License**.

#### How Different Team Topologies Influence DevOps Culture

Type-2 Fully Embedded

#### Type-7 SRE Team (Google)



### Is SRE rebranded tech-ops?



## Ingredients of workplace equity

## Opportunity

Are there opportunities for me to grow, contribute more, and advance in my career?

## Equality

Am I being treated the same as everyone else, and are any differences equitable?

## Diversity

Is the organization diverse? Are different people, opinions, and motivators accepted and respected?

## Finding organizational bias



Source: <u>Three Approaches To Help You Identify Organizational Biases</u>, Paolo Gaudiano, Forbes

# Thanks!

## **Any questions?**

You can find me on social media:

LinkedIn: <u>@daveowczarek</u>

Medium: <a>@daveowczarek</a>

Twitter: <u>@thatdaveo</u>



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