# Data Infused Leadership

Harnessing Data to Lead the Way



Alison Rosewarne Exec Mgr., Architecture and Tech L&D (REA Group)



Photo by <u>Jason Weingardt</u> on <u>Unsplash</u>



# Hello!

## Alison Rosewarne

Executive Manager, Architecture and Tech L&D



20+ years IT experience



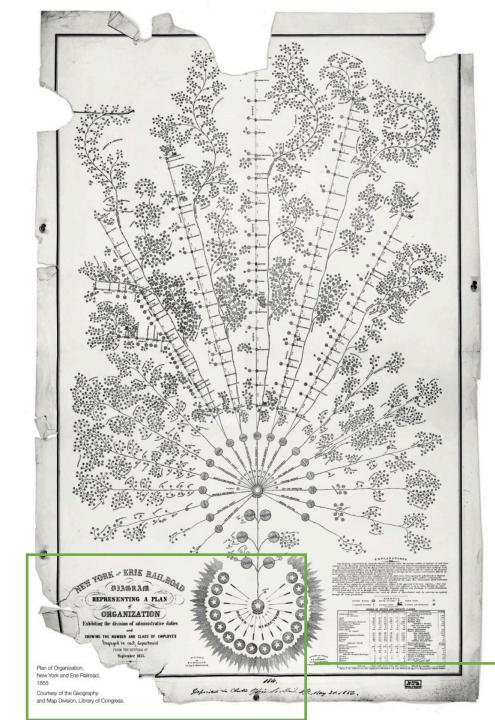


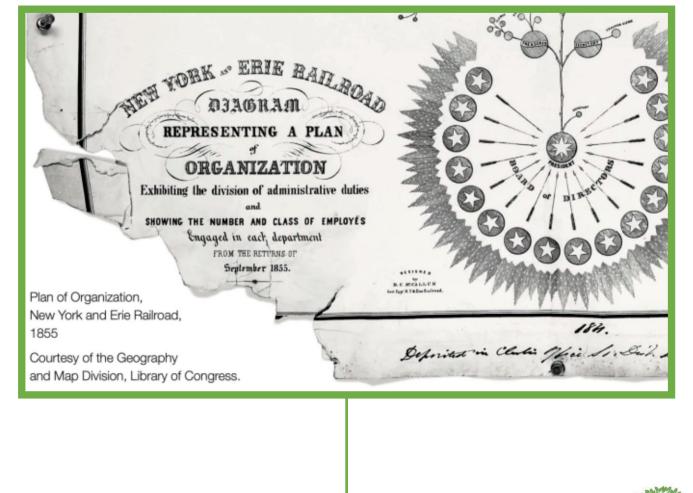














## How do you effectively scale your own leadership?

## Seeking input

Gathering insights

Measuring effectiveness

Photo by <u>Jeremy Bishop</u> on <u>Unsplash</u>









### Asking people ... at scale

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Hi Alisoi	n,						
When n data.	naking decisions	about technology at	REA we prefe	er to be info	ormed with	ı	
decision We have activity	ns at REA, and th e a huge amount in various techno	<u>community survey</u> to e feedback was that t of data round syste ologies, but we cann e. So we're going to	we should ru m volume, he ot tell - witho	n this agair ealth and de	annually. eveloper		What you

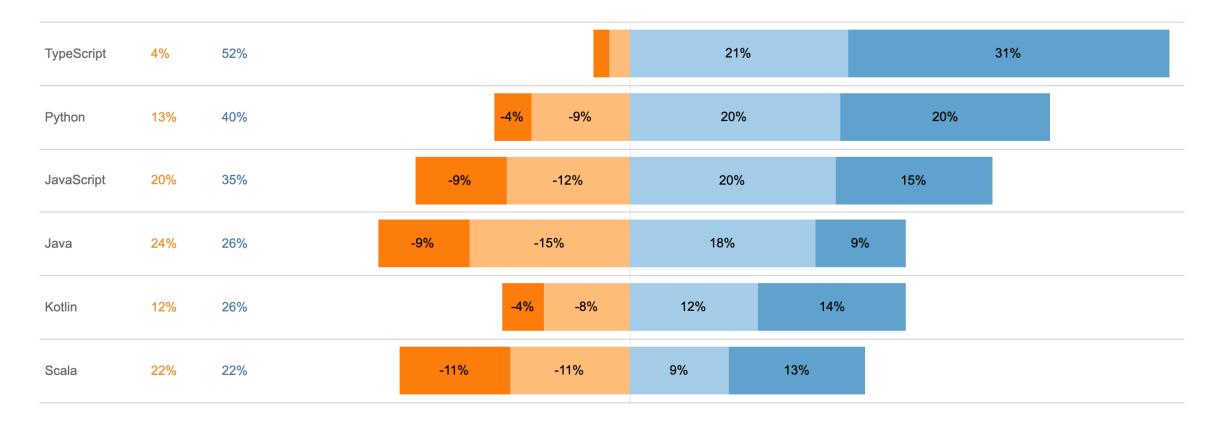
your appetite to the following uages to write ction software?

> What training provided by School of Tech have you attended/used in the last 12 months?

do you do when get stuck on a problem?



### What is your appetite to use the following languages to write production software?



- 1 Not at all, please don't make me
- 2 Wouldn't pick it myself
- 3 No opinion/don't mind (not shown)
- 4 Generally happy about working with it
- 5 Super keen

Note: old data!



### From data to decisions







**Principal Developer –** Functional Programming



#### Back Tech Community Survey 2022 - Results



Drum roll please ... after 5 weeks and a small amount of prompting the results of the 2022 tech community survey are in!

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#### Insights

#### Learning

The questions related to learning covered:

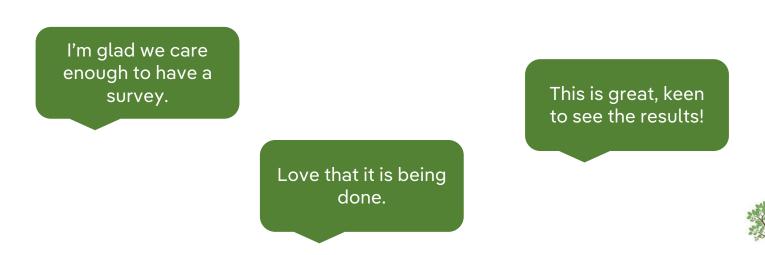
- What guilds are people attending and why?
- How are people problem solving?
- What approaches to training and learning are people taking?
- How much time are we investing in learning?

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#### That's a wrap

I'd like to thank everyone again for taking the time to fill out the survey – it was a pretty long one. The value of this data, and the general positive response, indicates we should do this again; so next May we'll repeat the exercise.

To recap on actions:





Tech Community Survey 2022 🔅 🔍 …

Owner Alison Rosewarne Modified 7 Oct 2022, 12:19

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## **Seeking input**

#### CHALLENGES

#### **KEY TAKEAWAYS**

Actionable data depends on asking the right questions Design surveys carefully to prevent biases and survey fatigue Scalable input speeds up decisions and boosts confidence Transparency of process, results, and outcomes builds trust



Seeking input

**Gathering insights** 

Measuring effectiveness

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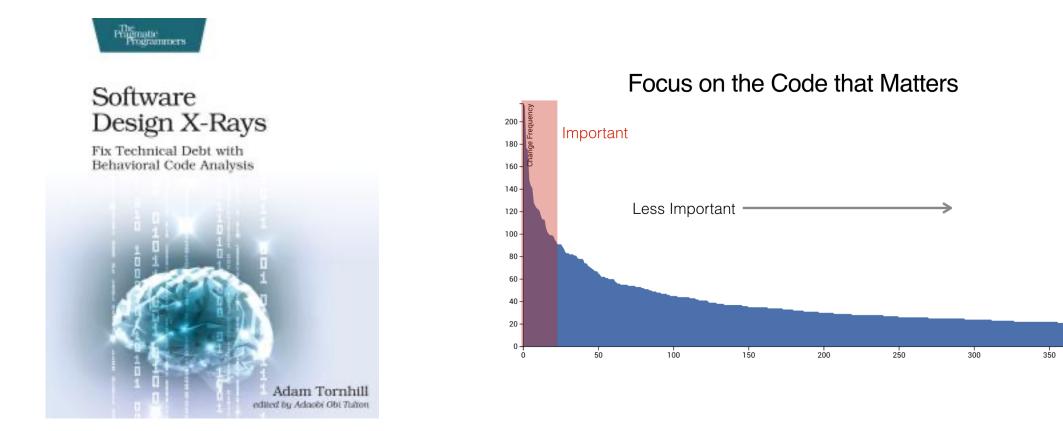






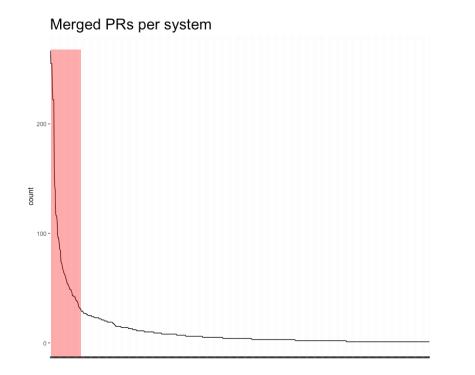


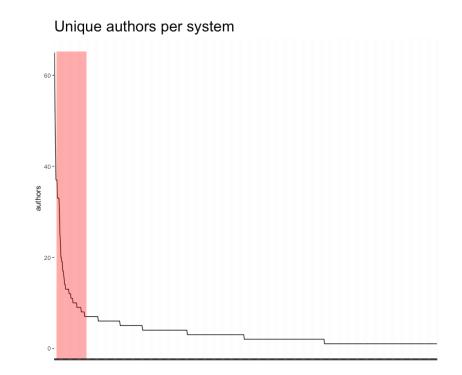
# Adam Tornhill: "Most of your code isn't important"





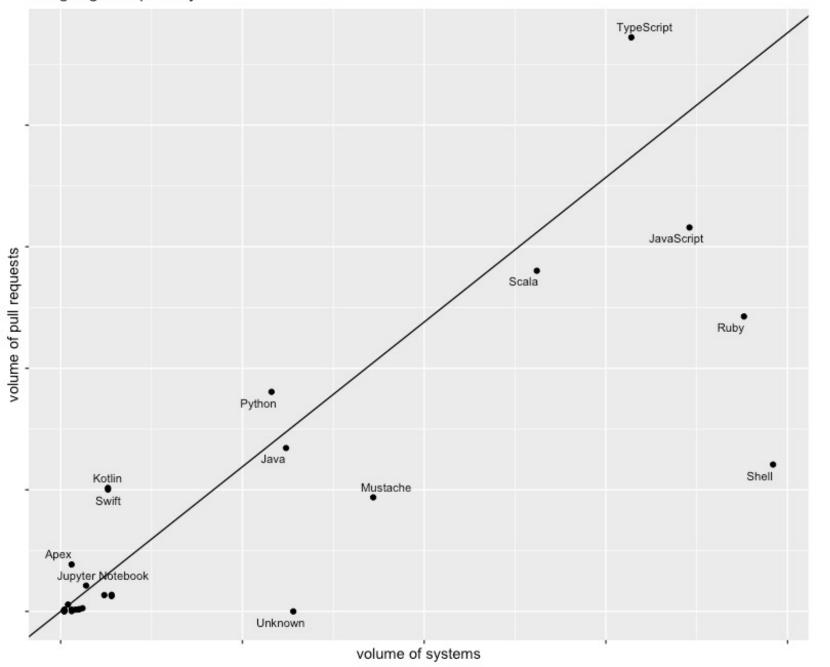
# 80/20 rule applies at the portfolio level too







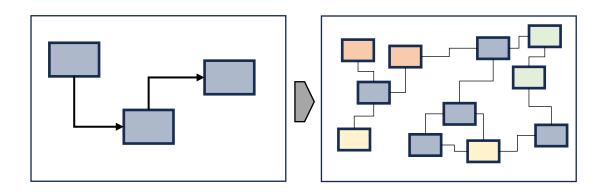
Language 'Popularity'





### From data to insights

*Systems a, b, and c will benefit from developer experience uplift* 



*Systems x, y, and z should be decomposed into discrete components* 



*Polyglot programming is required of all developers and engineers* 



## **Gathering insights**

#### CHALLENGES

#### **KEY TAKEAWAYS**

Chasing perfect data can stall decisions Having data does not absolve your responsibility

Existing systems, like git, allow you to sense at scale The 80/20 rule is a powerful prioritization lever



## Seeking input

Gathering insights

## Measuring effectiveness

Photo by <u>Jeremy Bishop</u> on <u>Unsplash</u>







## Catalogue your technology assets

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Source: https://backstage.io/docs/features/software-catalog/

### Align on a measurable definition of engineering excellence

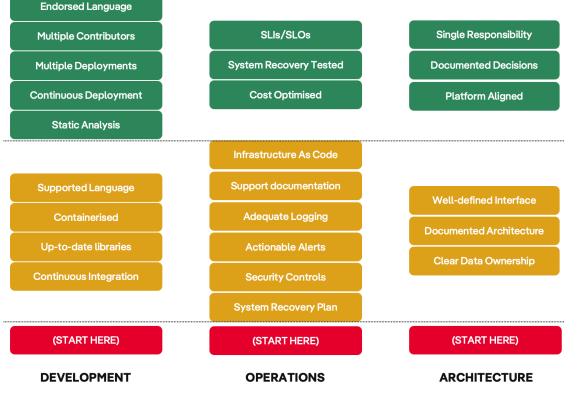
**Development** Is it easy and safe to change?



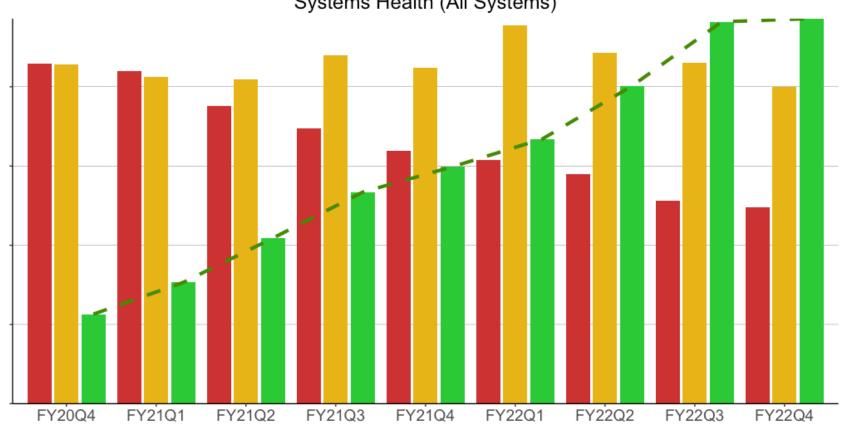
**Operations** Is it servicing customers reliably?



Architecture Is the investment sound for the long run?



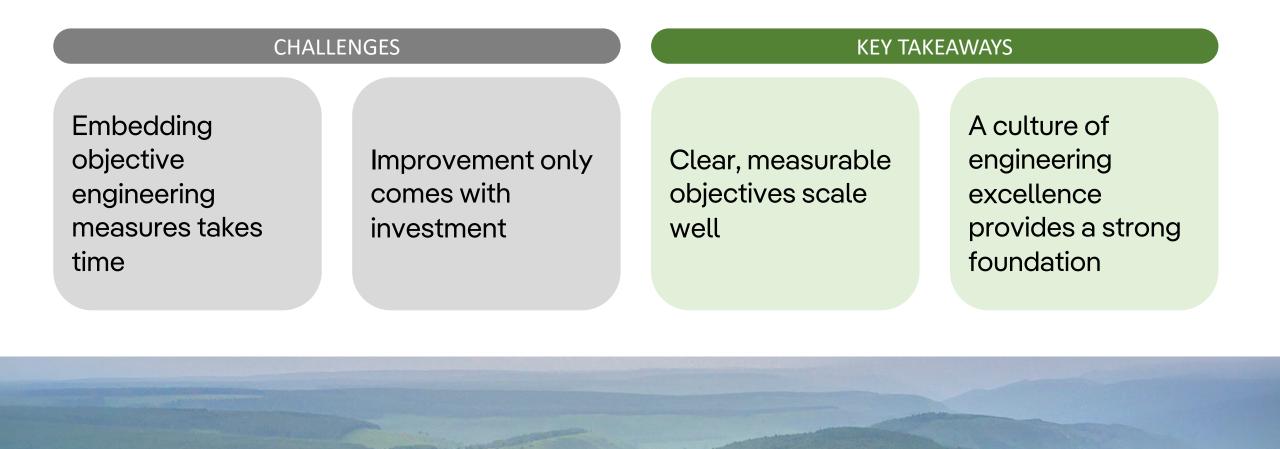


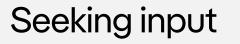


Systems Health (All Systems)



## **Measuring effectiveness**





Gathering insights

Measuring effectiveness

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### "Culture is the collective behaviours and engagement is how we feel"

#### **BONUS ROUND**

Measuring culture and leadership is both possible and important.





## Data Infused Leadership - Key takeaways

The approaches that work in a small setting can scale – with data You are likely sitting on rich sources of insights, with plenty of research available

A strong leadership base, nourished with data, supports growth Data does not replace human judgement - it enables it



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