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Co-founder & CEO  
Stepsize



# **How to deal with tech debt:**

## Lessons learned from the best product / engineering teams

Conf42



# LESSONS FROM 300+ INTERVIEWS



by  amazon pharmacy





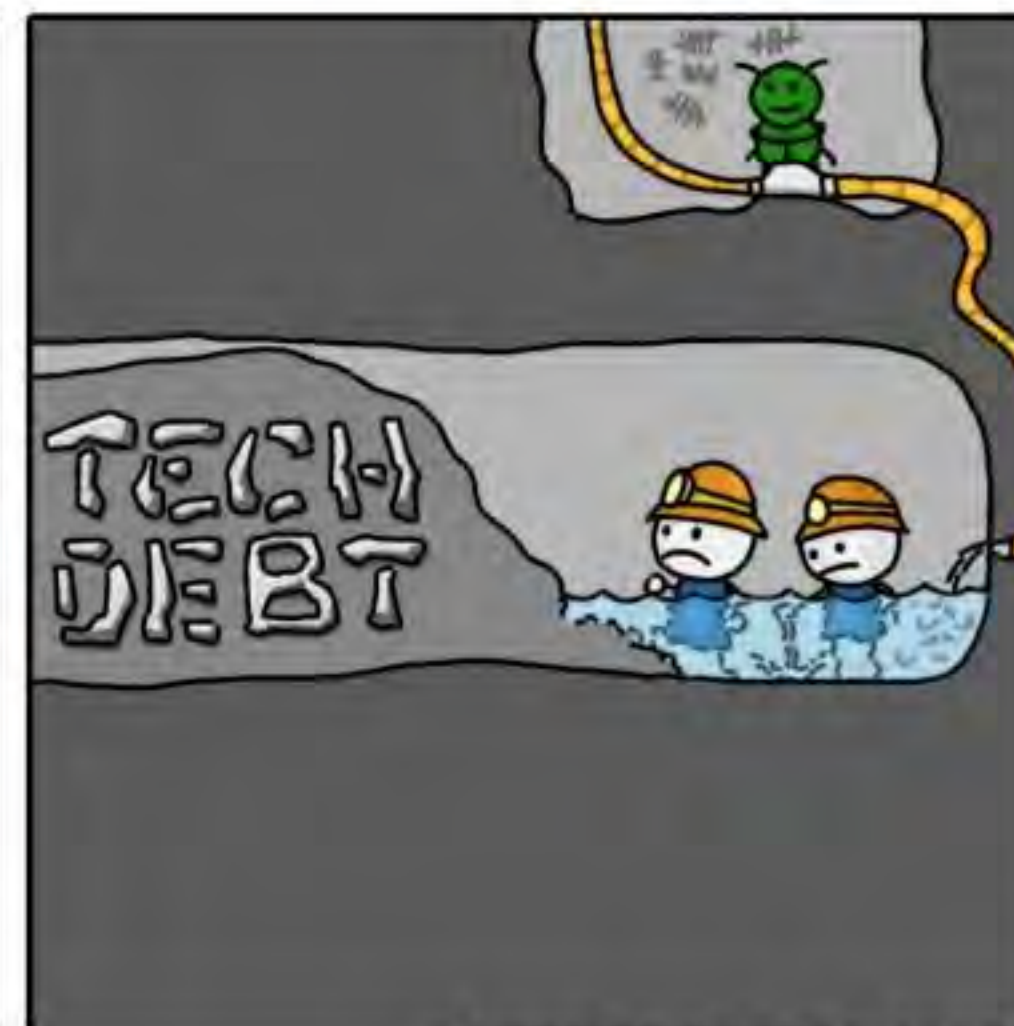
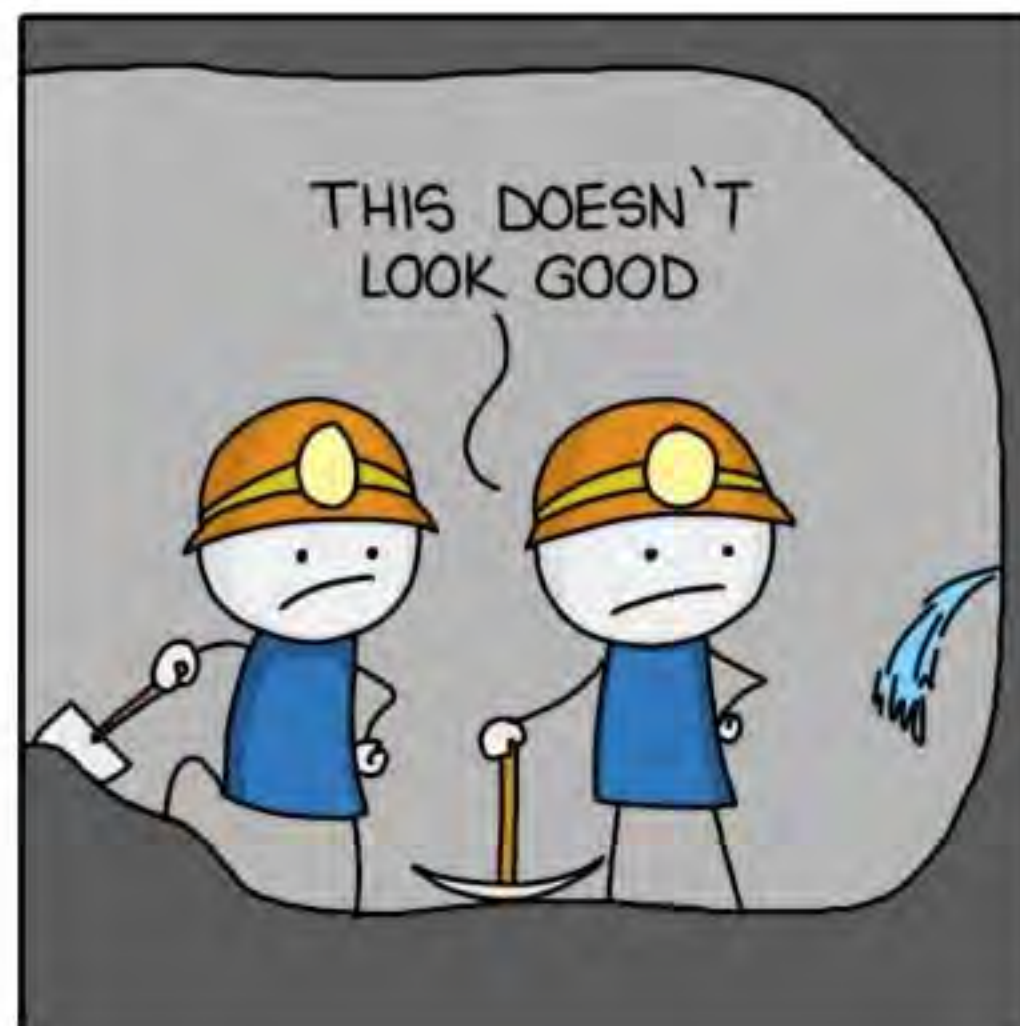
# WHAT IS TECH DEBT?

‘Tech debt is code you’ve  
decided is a liability.’

—Me



# TECH DEBT





# WHY IS TECH DEBT A THING?

‘Software exists in a world of  
uncertainty.’

—Martin Fowler

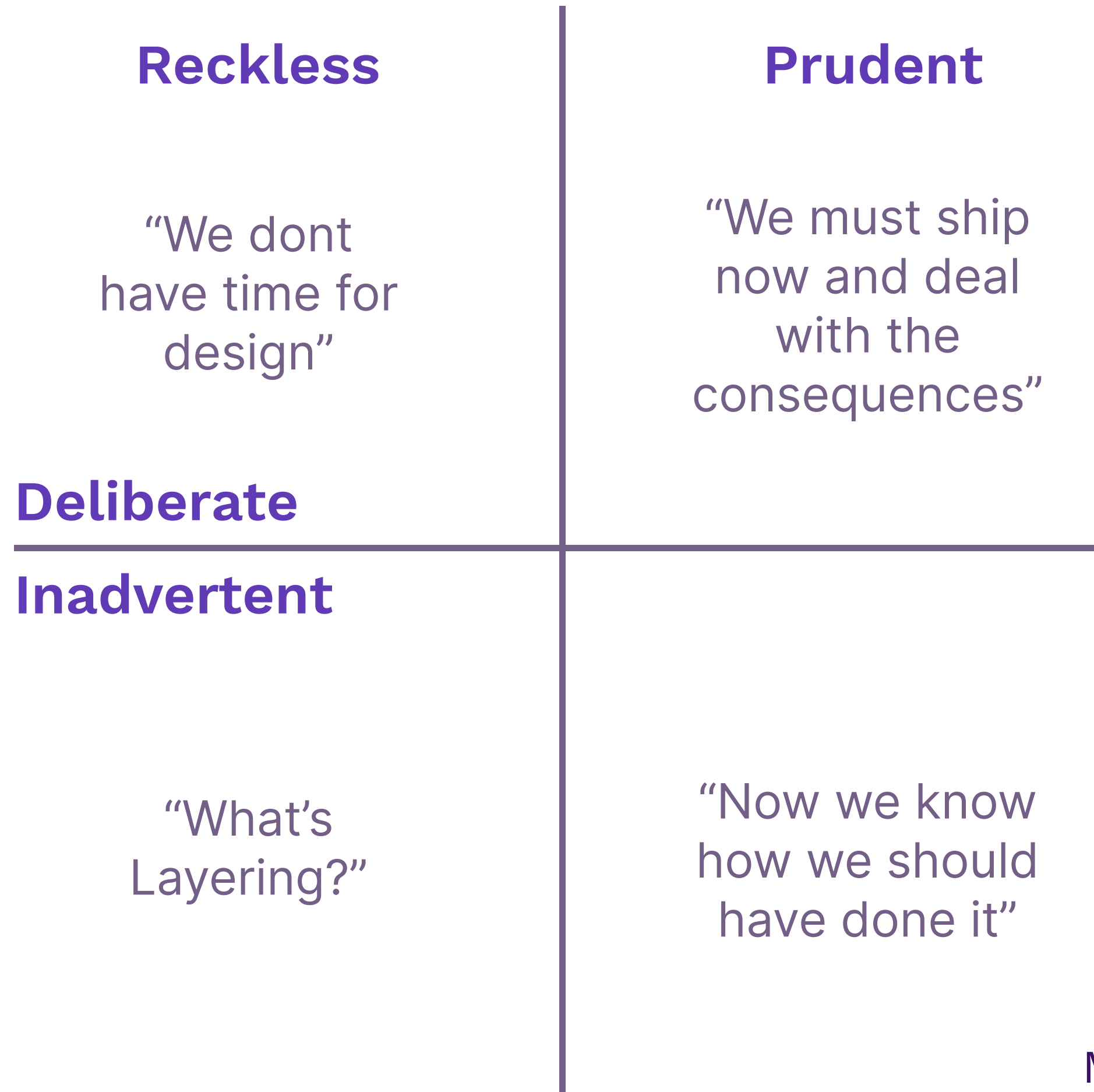


# WHY IS TECH DEBT A THING?

‘[...] it can take a year of programming on a project before you understand what the best design approach should have been.’

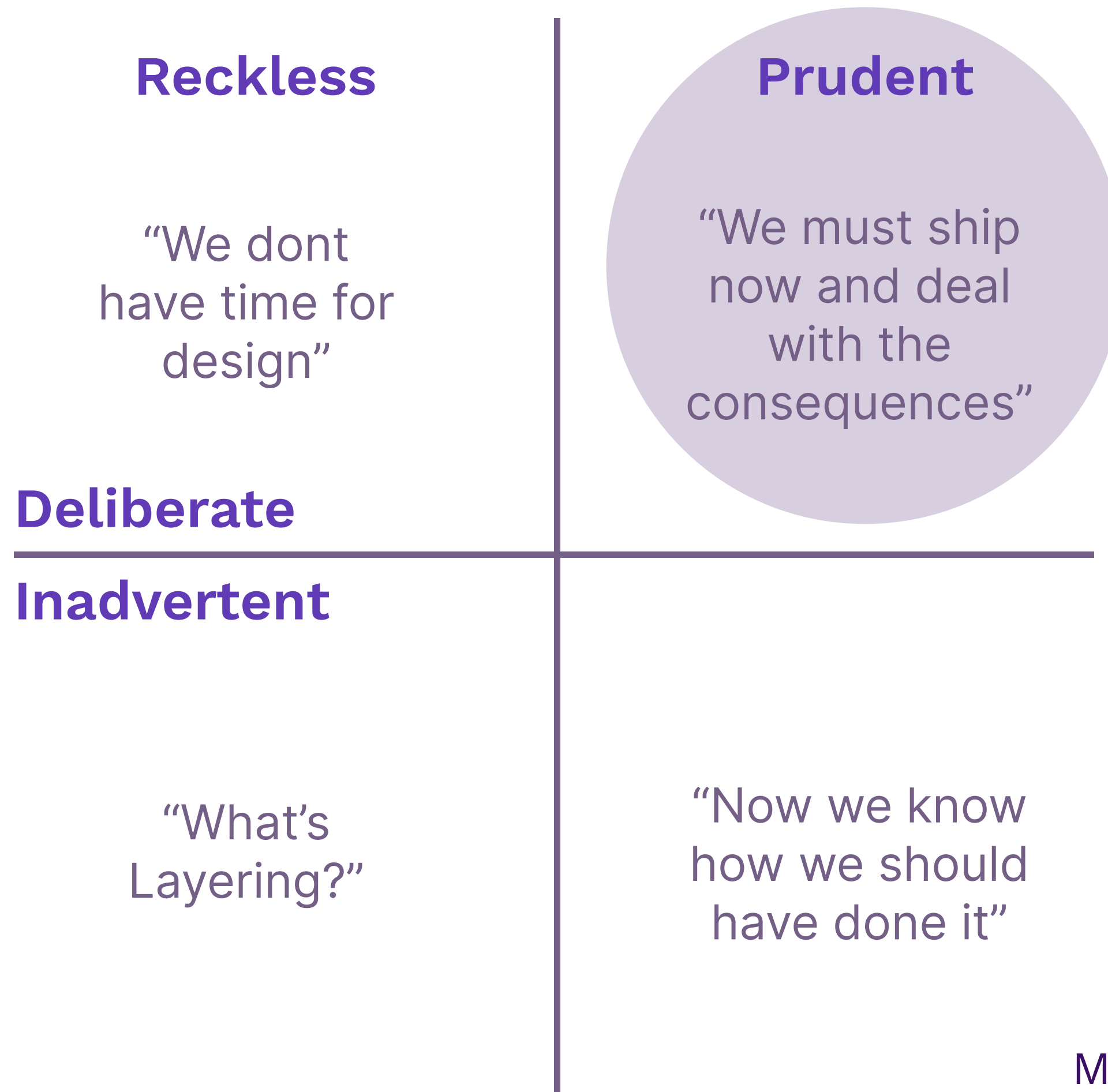
—Martin Fowler

# Tech Debt Quadrant





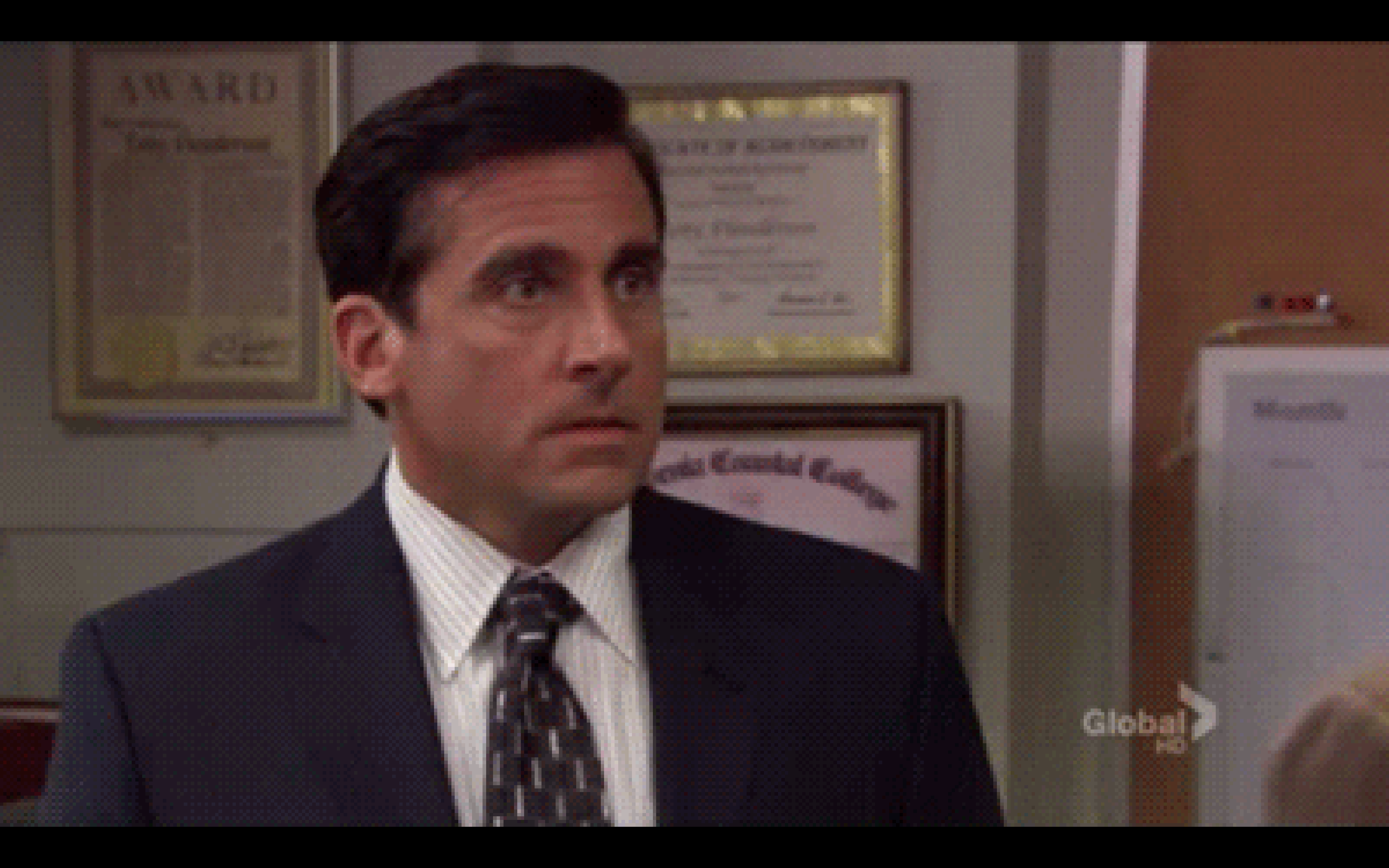
# Tech Debt Quadrant





# MYTHS TO DEBUNK

Tech debt is bad and no one should ever take any on.





# MYTHS TO DEBUNK

Tech debt is bad and no one should ever take any on.



# MYTHS TO DEBUNK

Tech debt is only engineering's problem.



A black dog is lying on its side on a brown towel spread out on a green lawn. The dog is looking directly at the camera with a calm expression. In the background, a wooden fence is visible. The text "HOW ABOUT" is overlaid in large, white, bold, sans-serif capital letters across the middle of the image.

HOW ABOUT



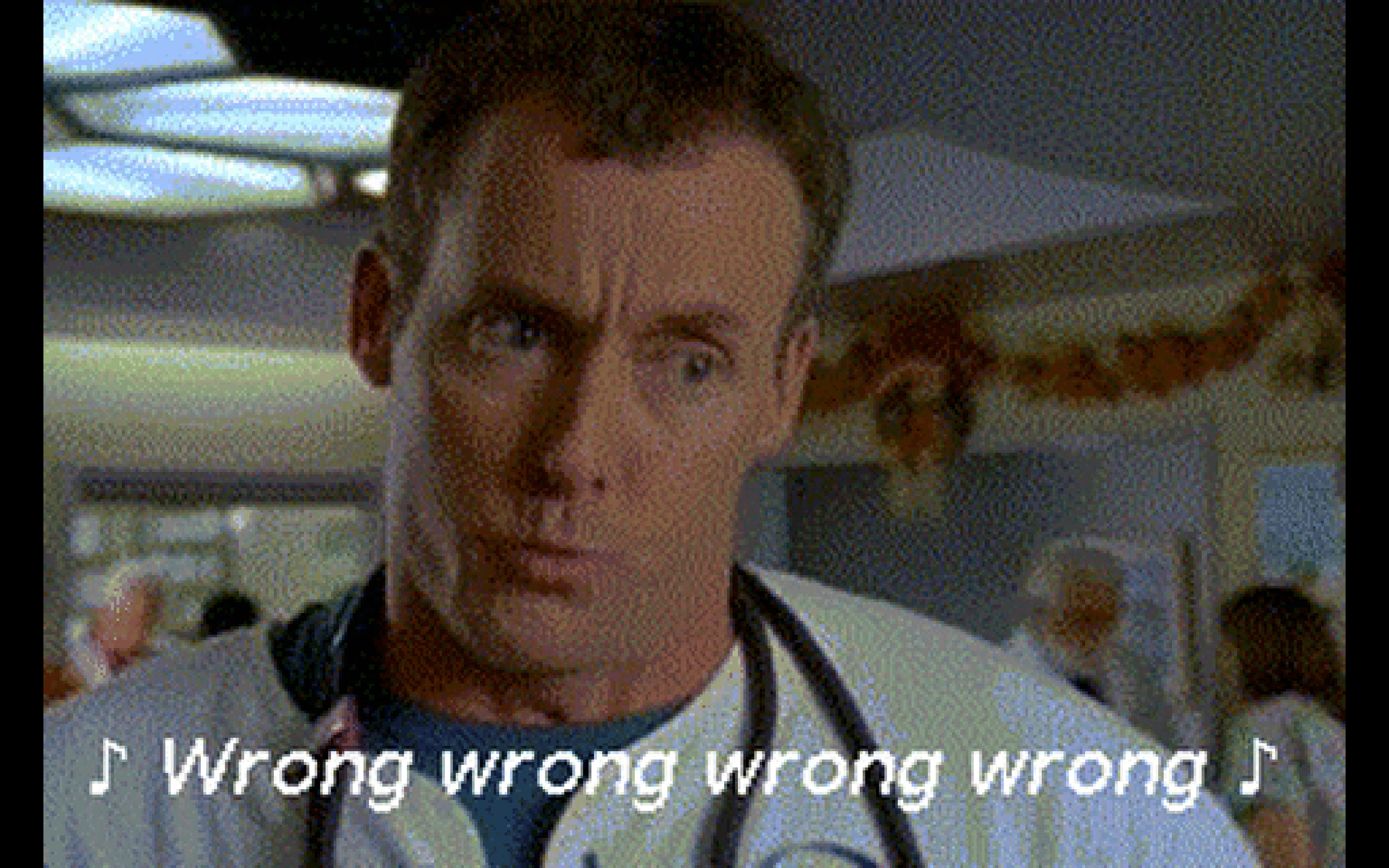
# MYTHS TO DEBUNK

Tech debt is only engineering's problem.



# MYTHS TO DEBUNK

Managing tech debt properly  
will slow us down.



♪ Wrong wrong wrong wrong ♪



# MYTHS TO DEBUNK

Managing tech debt properly  
will slow us down.





## WHY BOTHER?

‘Leaders that actively manage and reduce technical debt will achieve at least 50% faster service delivery times to the business.’

**Gartner**<sup>®</sup>



## WHY BOTHER?

Engineers spend 42% of their time fixing the past rather than building the future.

**stripe**



# WHY BOTHER?

How much faster would you ship if the company had tech debt under control?



● Up to 100%

● Up to 200%

● More than 200%

● It would not make any difference

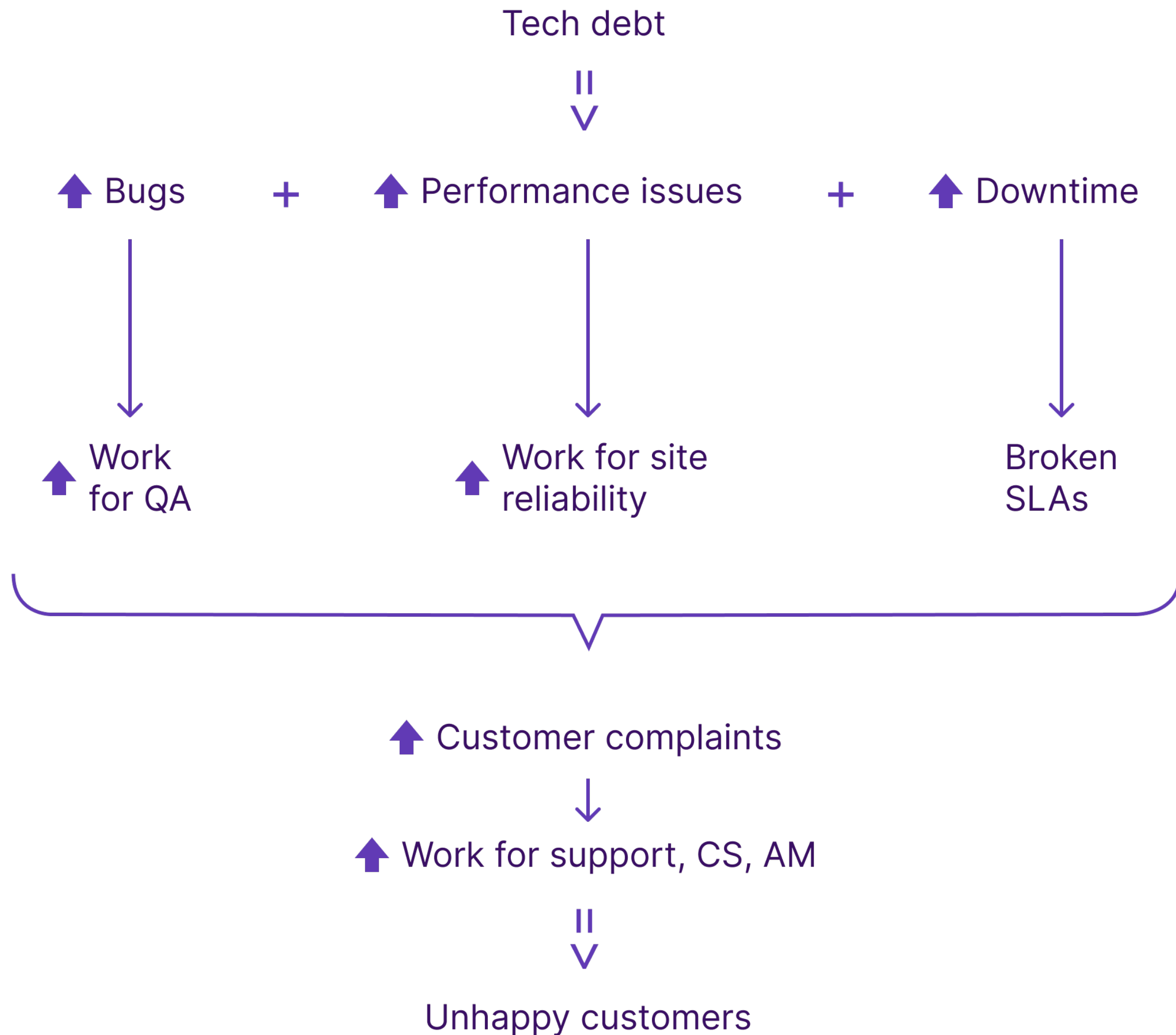


# WHY DOES IT MATTER?

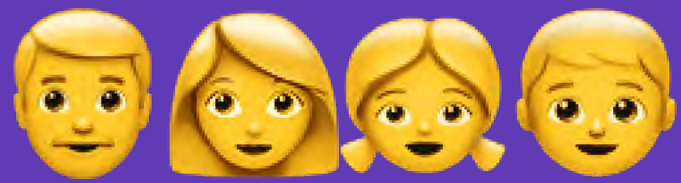
Poor quality code slows  
everyone down within weeks.



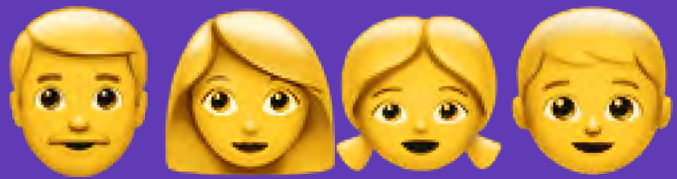
# TECH DEBT IMPACTS EVERYONE







# CULTURE & TECH DEBT



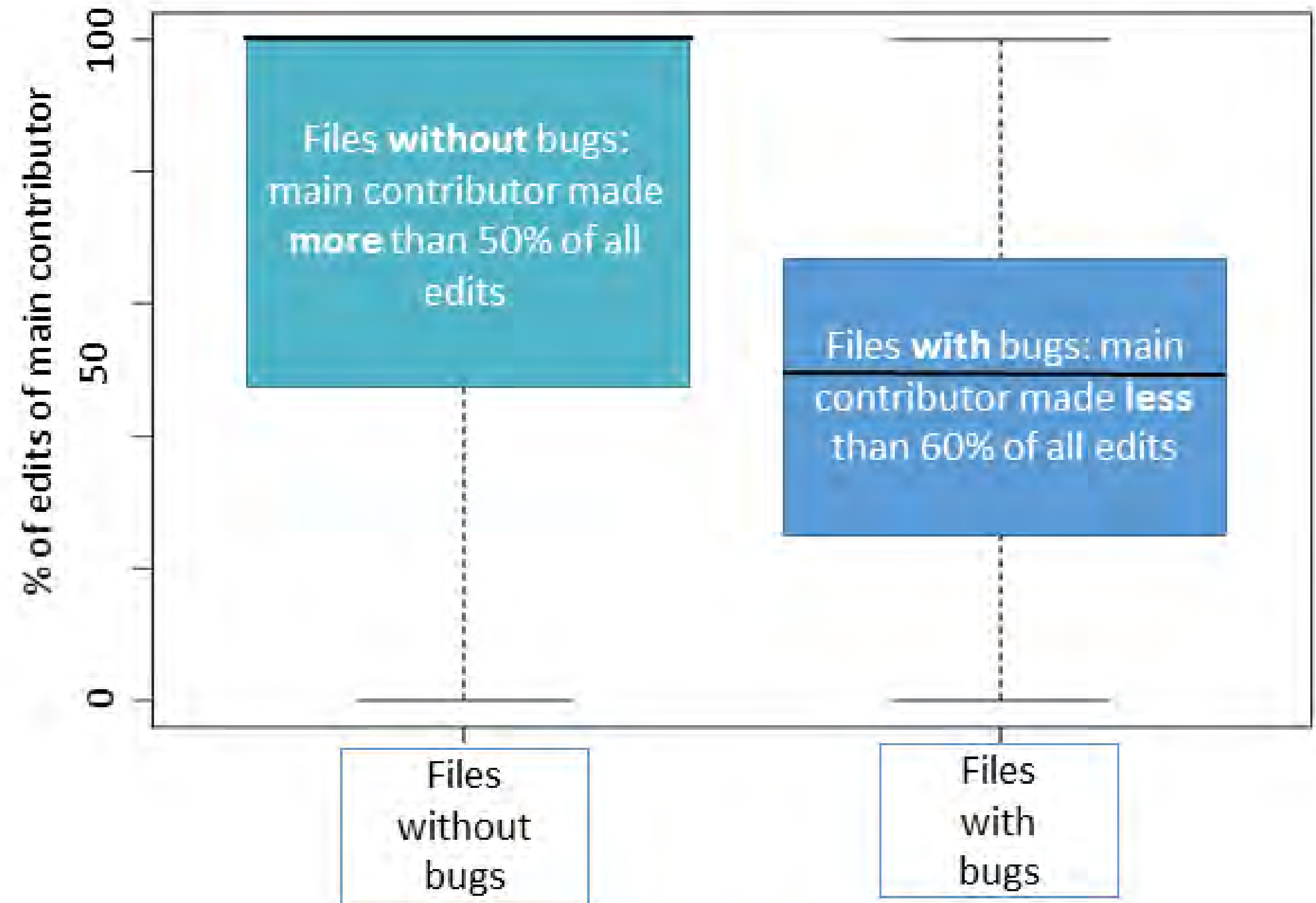
# CULTURE & TECH DEBT

Ownership is a leading indicator  
of engineering health.

—Gareth Visagie, Chief Architect at Snyk

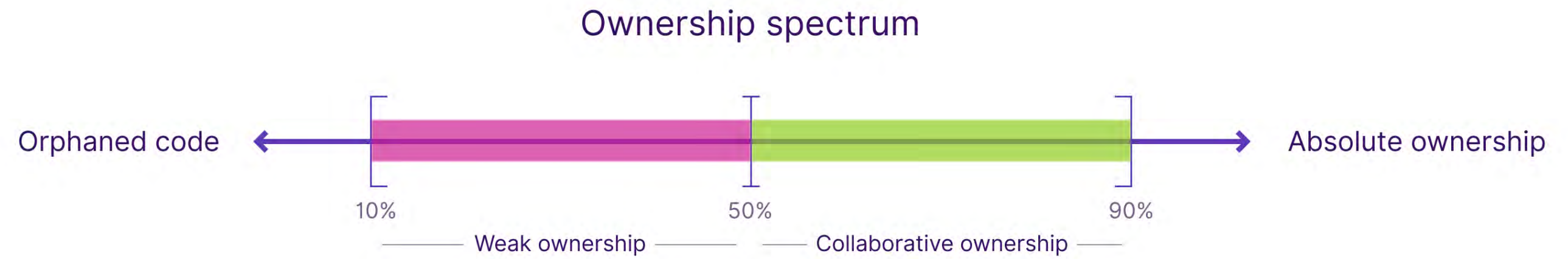


# CULTURE & TECH DEBT



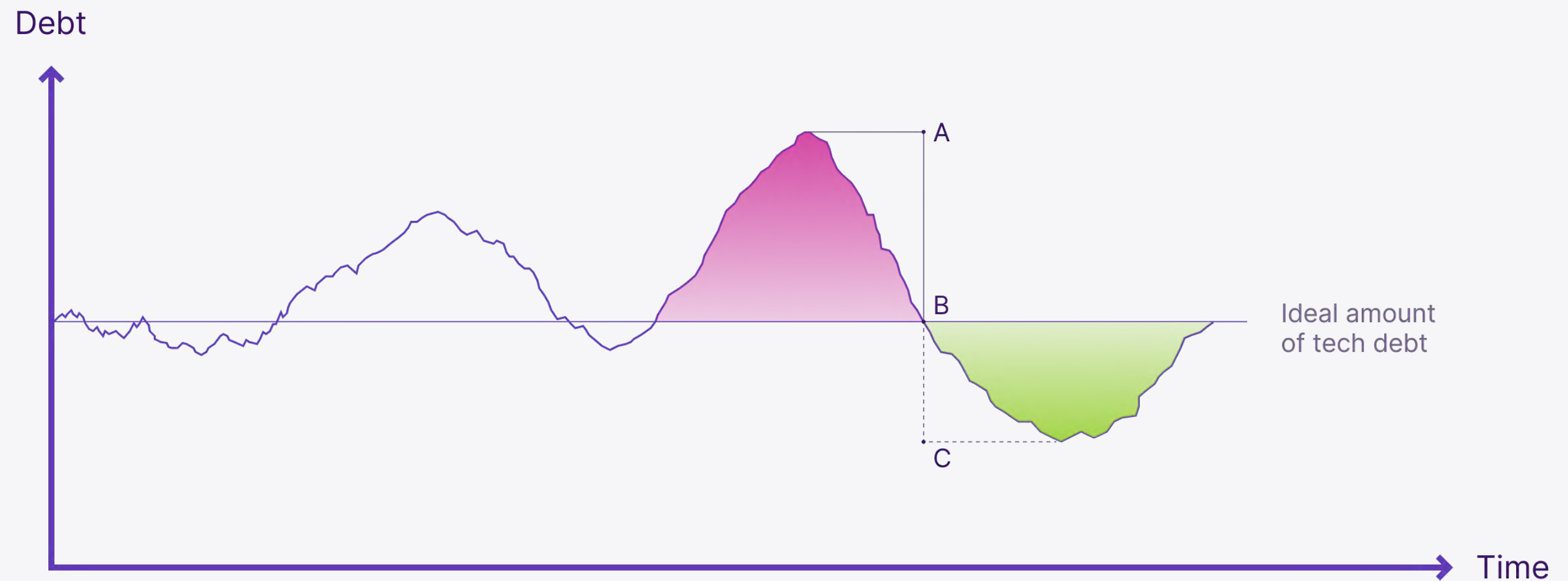


# CULTURE & TECH DEBT





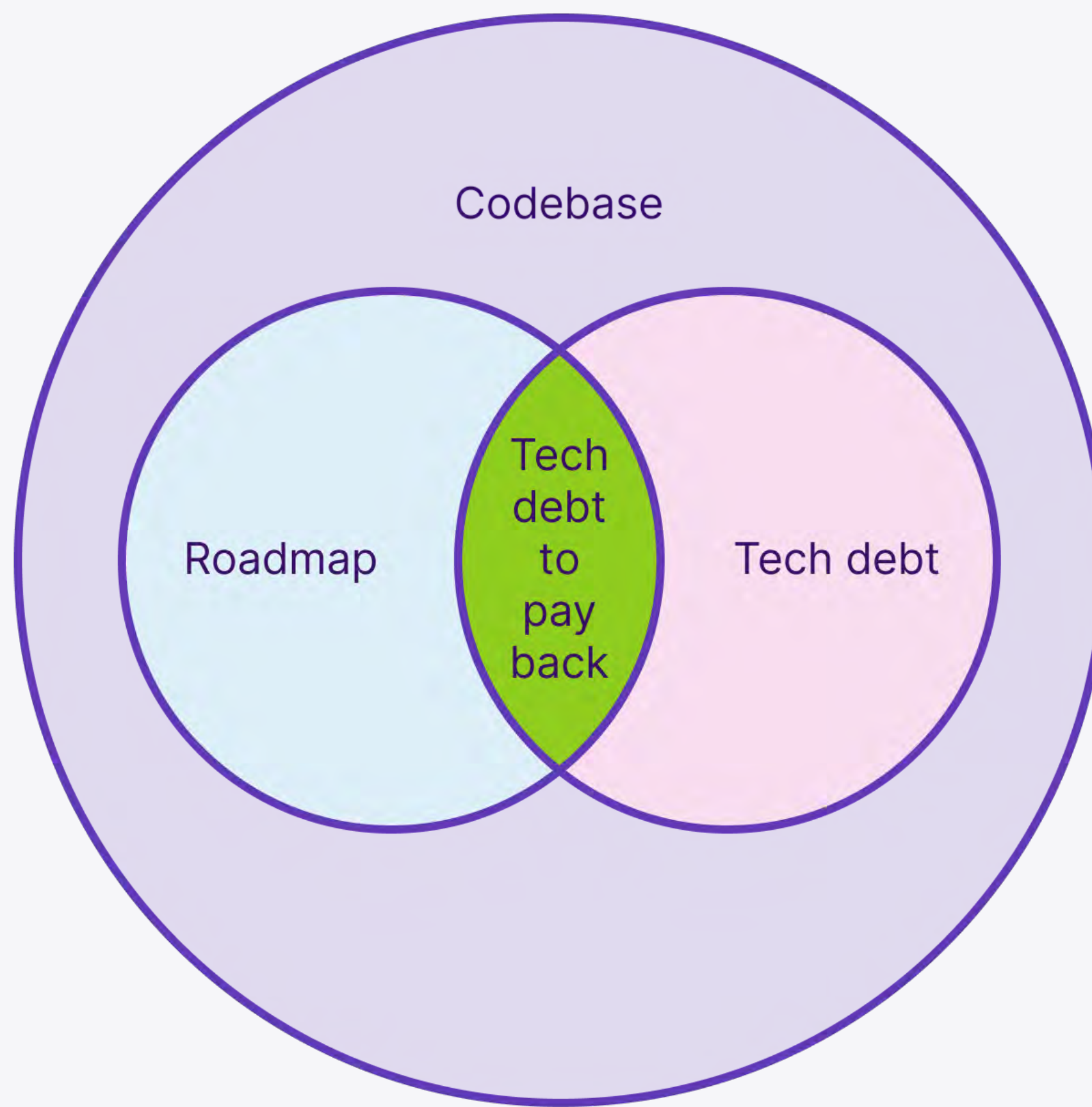
# TECH DEBT BUDGETS

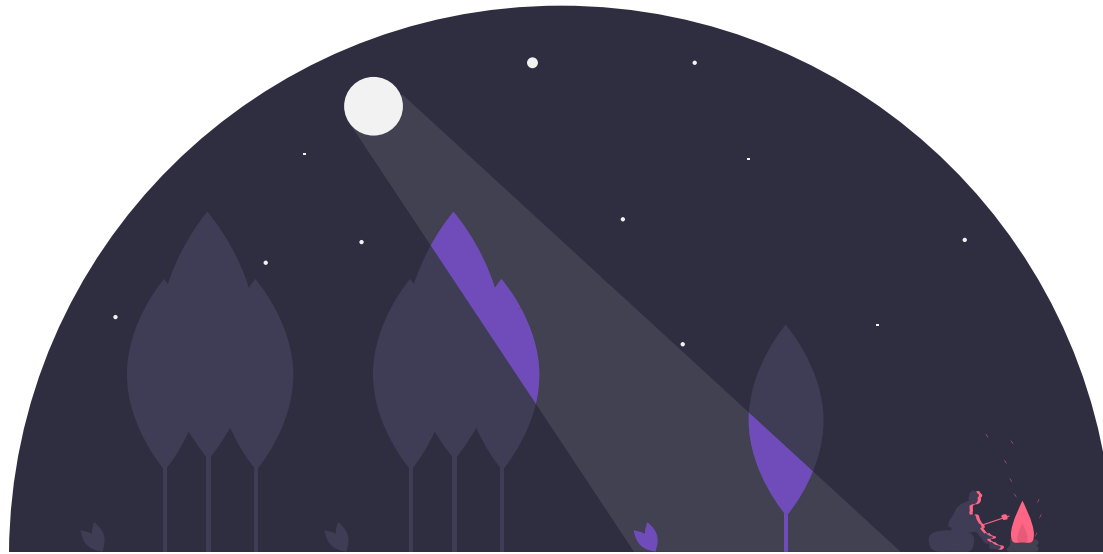




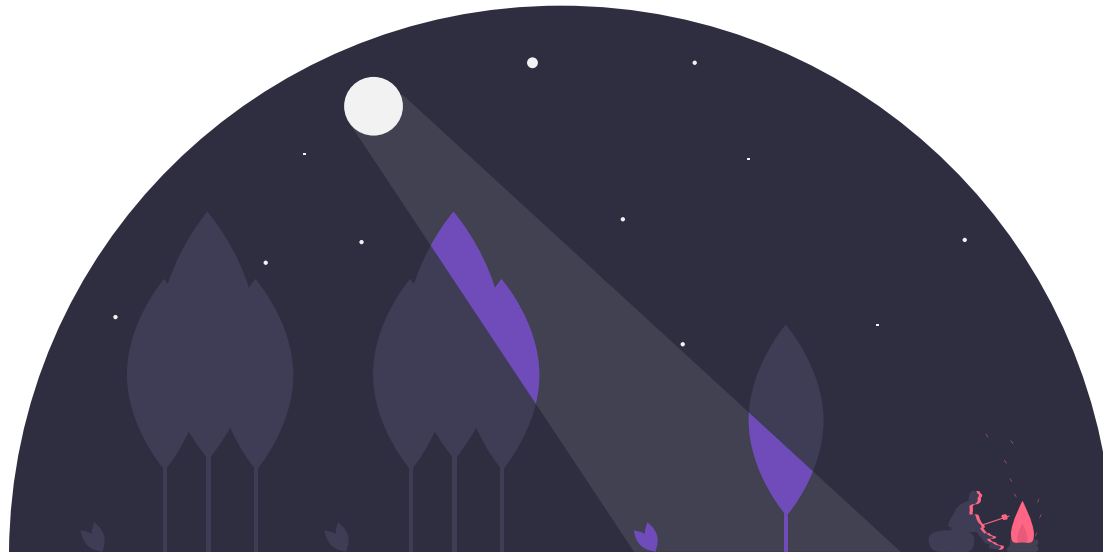


# TECH DEBT WORTH PAYING BACK





**Is the debt small,  
medium, or large?**



# Small debt: follow the boyscout rule

Always leave the code better than you found it.

—Robert C. Martin a.k.a Uncle Bob



# Medium debt: go through sprint planning

Consider how much time PMs spend curating the set of features to work on.

Do the same for tech debt.

—James Rosen, Engineering Manager at Everlane



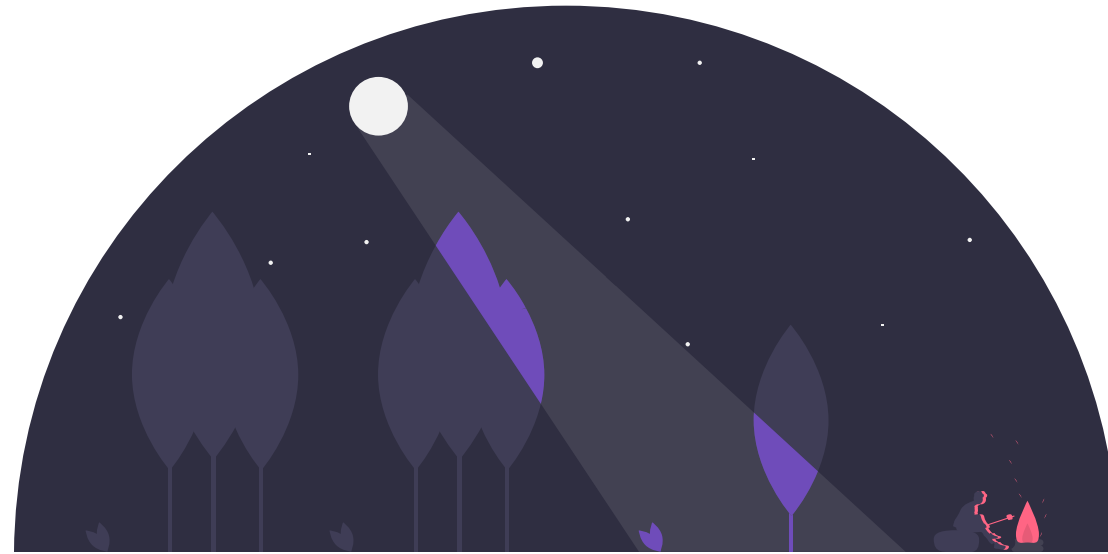
# HOW?

Track your tech debt.



# HOW?

Find and scope the debt in the way of your sprint.



# Large debt: have a quarterly meeting

Include all Engineering and Product leaders.

Engineering Managers present the business case for large pieces of debt.

Tech debt to be addressed is then added to the roadmap.





## **MAKING THE BIZ CASE**

Which business priorities will be put at risk because of this debt?

Will the debt get worse if unaddressed?  
How quickly and how much worse?

What has this debt cost the business so far?



## TAKEAWAYS

Tech debt is inevitable and can be used to gain leverage.

Manage tech debt carefully or it will manage you.

Create an engineering culture of ownership.

Include tech debt in your Agile processes.



## SOLUTION

‘We used to have one tech debt sprint a year. Now with Stepsize, we deal with tech debt continuously.’



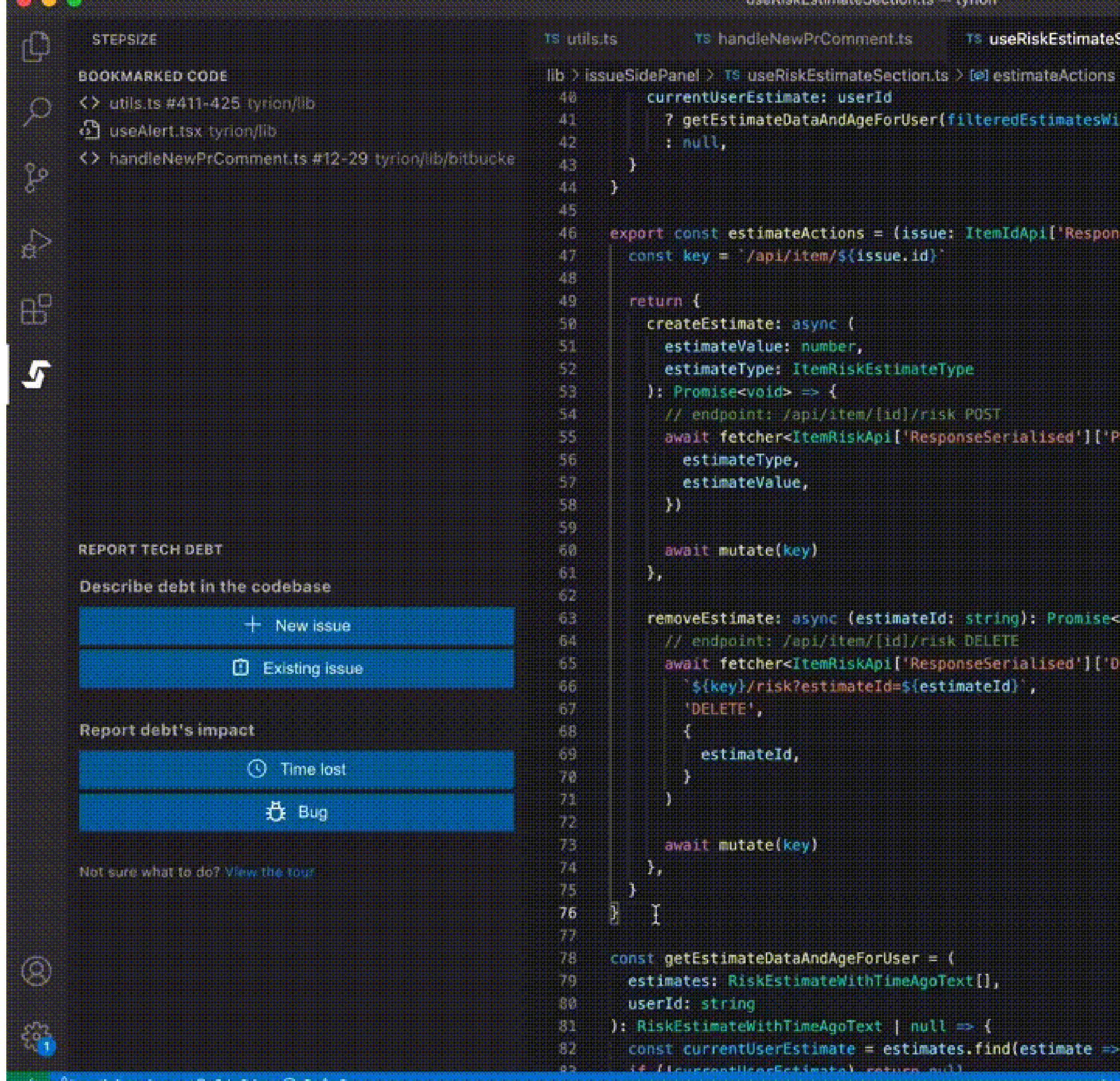
# Editor-first issue tracker for a healthy codebase

Create & view code issues in your editor

Track & prioritise code improvements

Add key issues to your sprint with our Jira integration

Sign up on [stepsize.com](https://stepsize.com)



**10x engineers do not exist**

**100x codebases do**

# Ready to watch your team reach new heights?

Sign up on [stepsize.com](https://stepsize.com)



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