

The Future Stack of Code Review

Gabriel L. Manor

JSNation 2023



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- LGTM 

Software Stack

2016	2018	2020	2022
Java monolith	Java monolith	Microservices	Microservices
Oracle DB	Microservices in Node	in Java, Node and Go	in Java, Node, Go, and Rust
Vertical scale	Kong gateway	Running on AWS	Cloud-native deployments
6m release cycle	Vertical scale	Horizontal scale	1h time to release
	3m release cycle	1m release cycle	Fully-auto CI/CD
		Half-auto CI/CD	

Code Reviews

2016	2018	2020	2022
LGT M	LGT M 😊	LGT M 🤘	LGT M ✌️



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...

In one word. what is the purpose of Code Review?

9:43 AM · Sep 4, 2022

🔗 bit.ly/cr-tweet



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Keren K @KerenKenzi
Improvement

1



Boris Cherkasky @cherkaskyb
Mentoring.

1



Leah Vogel @leah_m_vogel
Quality

1



Shahar Avigezer @ShaharAvigezer
Protection

1



Shai Mishali @freak4pc
cohesiveness

1



Niv Sluzki @SluzkiNiv
Consistency

1



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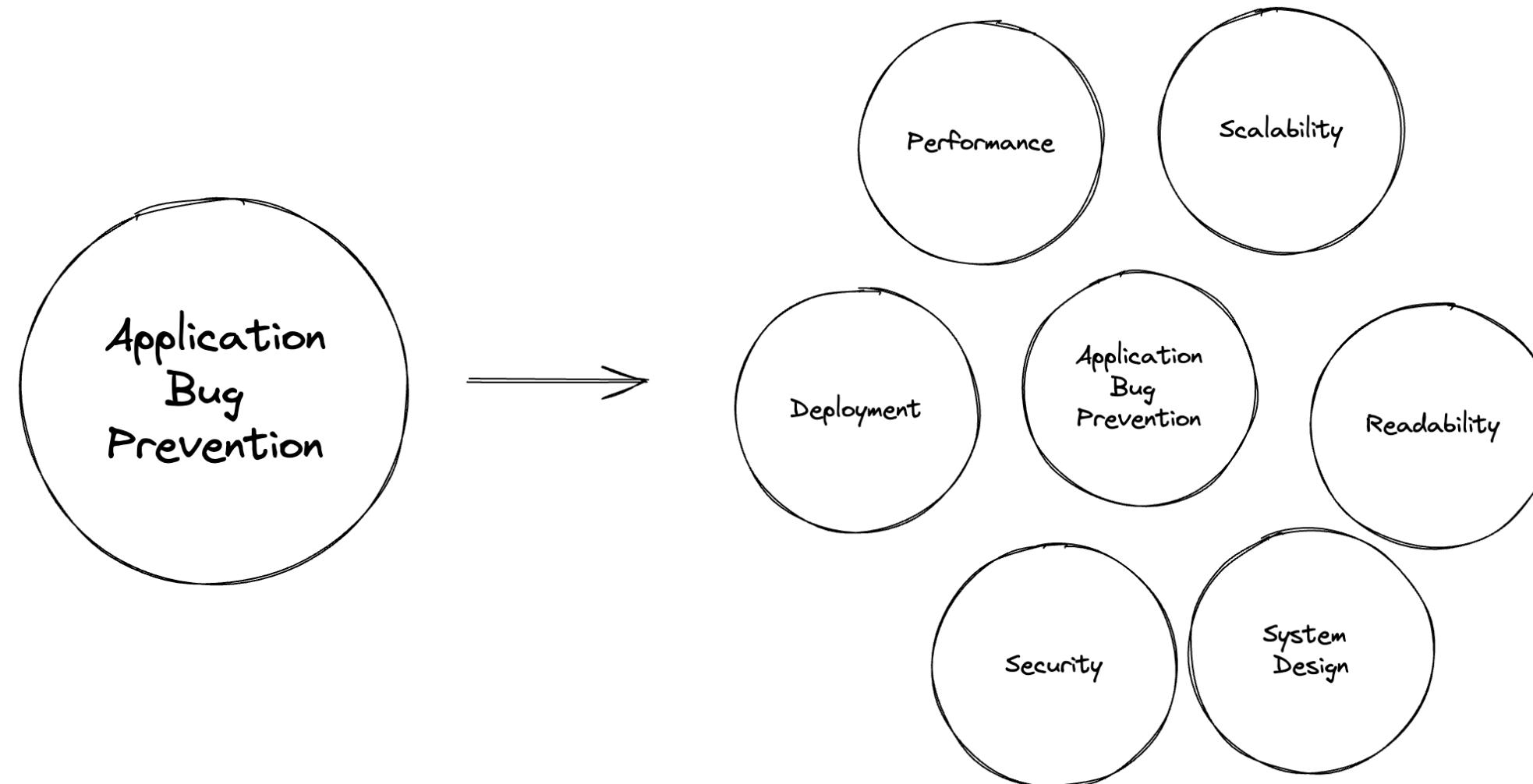
Gabriel L. Manor

Director of DevRel @ Permit.io

Not an ethical hacker, zero awards winner, dark mode hater.

What Changed?

More to Protect



Developers are Polyglots



AI is Replacing Us 😜

```
try {  
  await server.listen({ port: 3000 });  
  
  const address = server.server.address();  
}  
catch (err) {
```



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The SDLC is Automated

What Not Changed?

The Human Wisdom



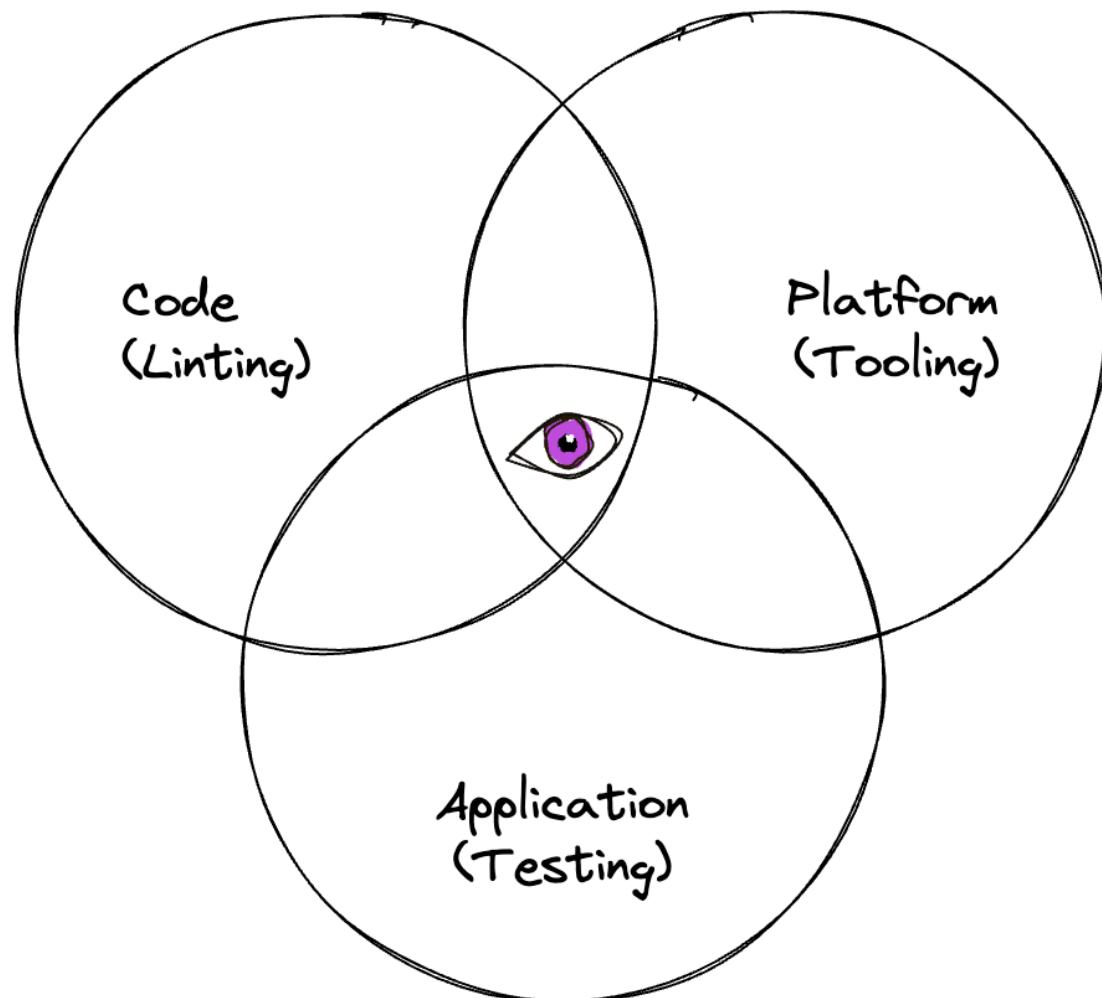
Code Reviews are Velocity Enemies

The New Stack of Code Review

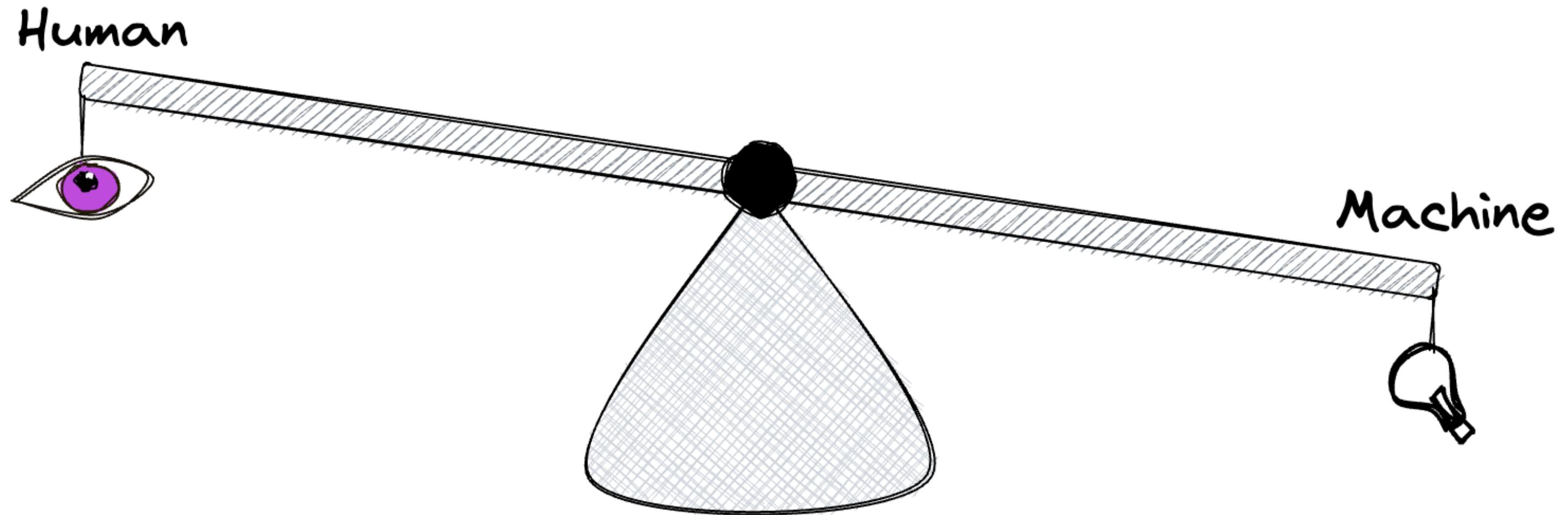
1. Increase velocity
2. Code readability
3. Security
4. Performance
5. Clean code (SOLID)
6. Collaboration
7. Scalability
8. -----

Code Review Best Practices

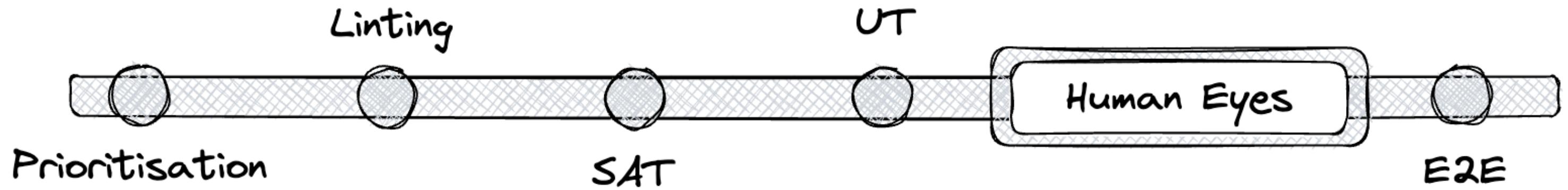
Know the Responsibilities



20% Human, 80% Automation



Don't Waste People Time



Adopt Can I Automate It? Mind

Include Auto Remediation

Can I Automate It

Demo  Time



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Be a Mentch

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- Conversations over Instructions

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- Team over Individual

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- Team over Individual
- Collaboration over Competition

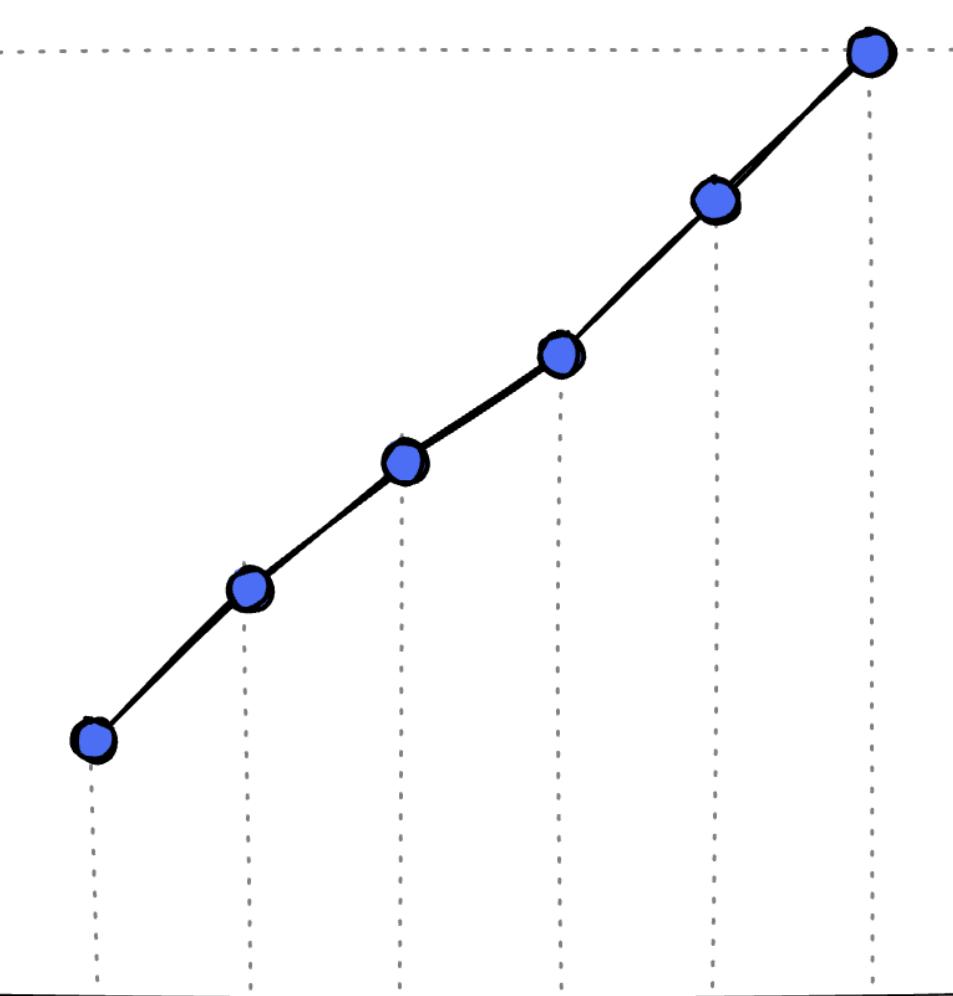
Be a Mentch

- Conversations over Instructions
- Team over Individual
- Collaboration over Competition
- No nitpicking

Be a Mentch

- Conversations over Instructions
- Team over Individual
- Collaboration over Competition
- No nitpicking
- KISS

Treat Code Reviews as Product Features



Manage Priorities

MergeQueue
by  aviator



/:\ gitStream

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