All Code Sucks

Why Bad Code is Everywhere and What to Do About It

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What is sucky code?

"Programs are meant to be read by humans and only incidentally for computers to execute."

- Donald Knuth



The Great Hunt for Non Sucky Code





























International Commission on Illumination Commission Internationale de l'Eclairage Internationale Beleuchtungskommission



Why Code Sucks The Statistics Favour Suck

Half of everything is below average



Why Code Sucks The Statistics Favour Suck

- Half of everything is below average
- · Sturgeon's Law



Why Code Sucks The Statistics Favour Suck

- Half of everything is below average
- Sturgeon's Law
- The 3 Year Old Programmer



Why Code Sucks Organisations Tend To Suck

Software Startups



Why Code Sucks Organisations Tend To Suck

- Software Startups
- Summer Student Projects



Why Code Sucks Organisations Tend To Suck

- Software Startups
- Summer Student Projects
- Prototypes in Production

Why Code Sucks The Psychology of Suck

The Illusion of Explanatory Depth



Why Code Sucks The Psychology of Suck

- The Illusion of Explanatory Depth
- Availability Bias



- Discovery Log behavior
- Exploration Scripted investigation
- Automating Test harnesses (or clamps)
- Deconstruction Separate the target code
- Enable Switching with a feature flag
- New Code Side by side rewrite

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The Challenge Where I need your help

"It's not that hard..."

— Billy Beane

"It's incredibly hard"

- Ron Washington



Thank You!

Joe J Collins

