How to Mess Up Code Reviews

Spreadshirt





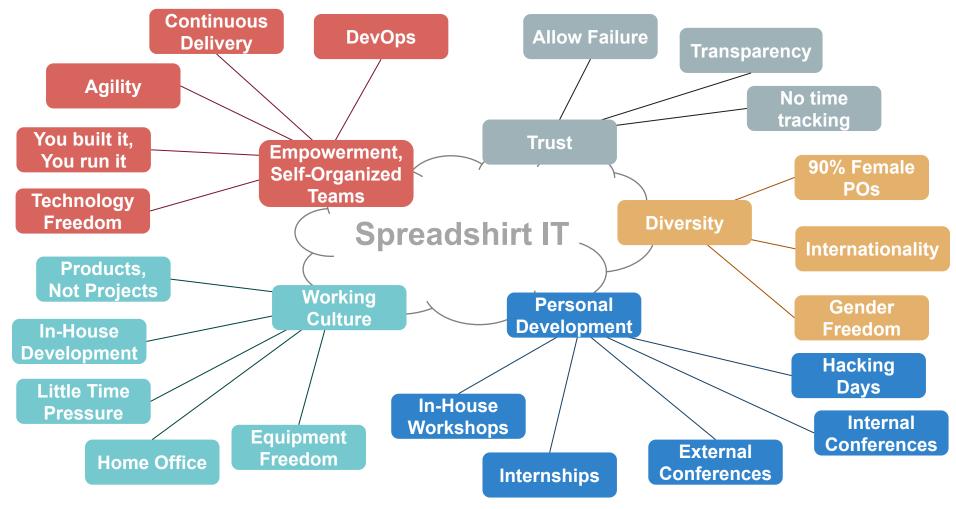








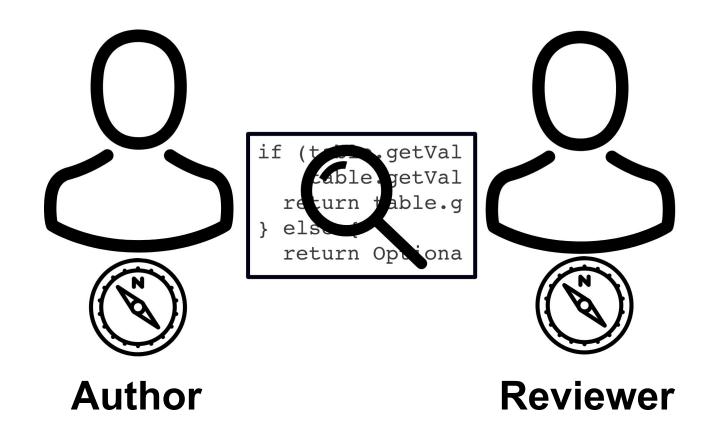




Conflicts due to Code Reviews?

A Story of an Escalated Code Review...

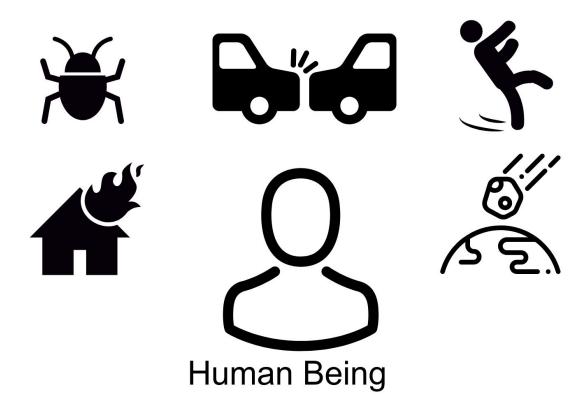
Two Participants - Two Guidelines



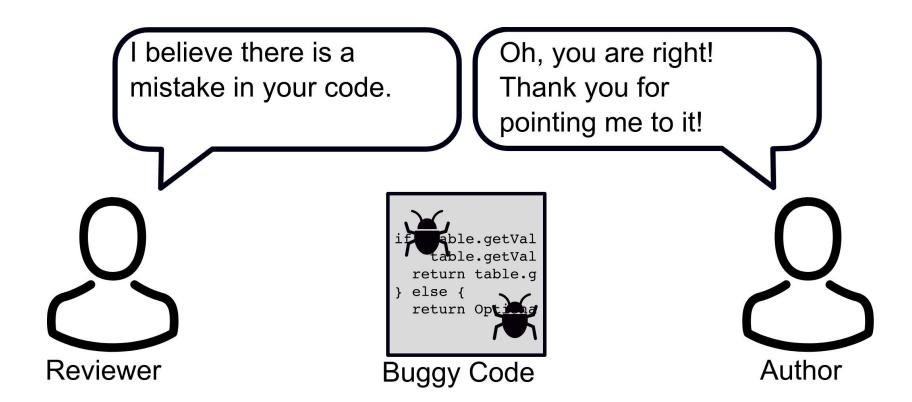
Guidelines for the Author

Be Humble

NullPointerException ERROR!



Be Humble

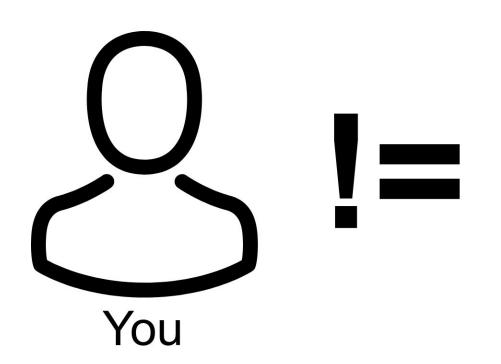


Be Humble



Opportunities to learn

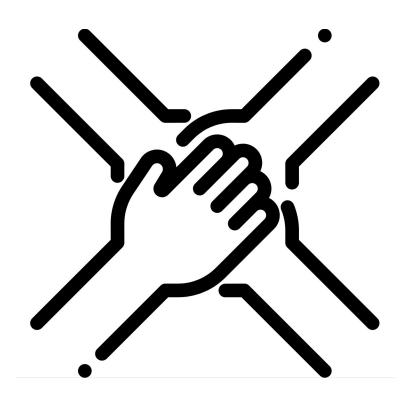
You Are Not Your Code



```
if (table.getVal
    table.getVal
    return table.g
} else {
    return Optiona
```

Your Code

You Are On the Same Side



Mind the IKEA Effect

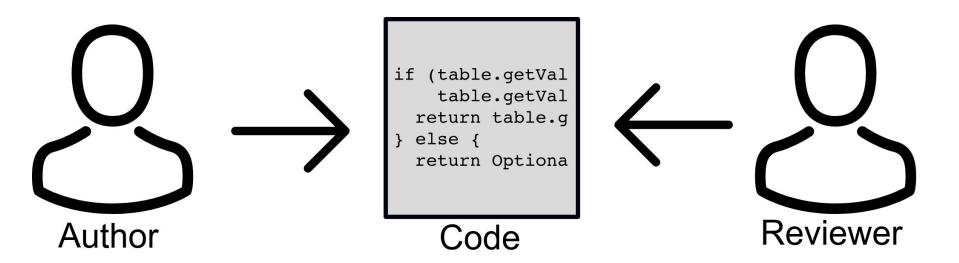






```
if (article.state == State.INACTIVE) {
boolean articleIsOutOfStock =
  article.state == State.INACTIVE;
if (articleIsOutOfStock) {
```

New Perspectives On Your Code



Exchange of Best Practices and Experiences



Guidelines for the Reviewer

"You are writing cryptic code."

"It's hard **for me** to grasp what's going on in this code."

Use I-Messages

I suggest ...

I think ...

I believe ...

It's hard for me to ...



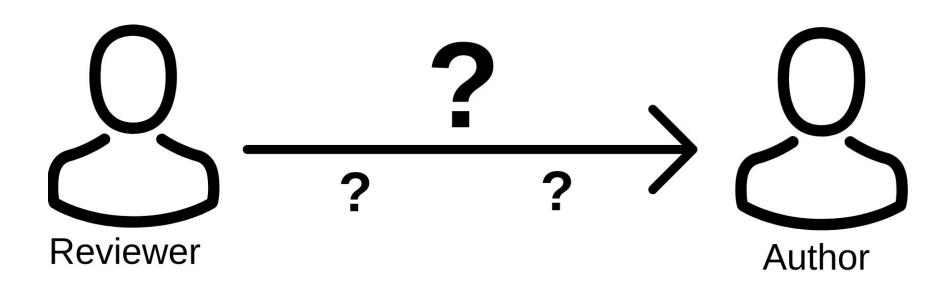
I would ...

For me, this seems like ...

"This variable should have the name 'userId'."

"What do you think about the name 'userId' for this variable?"

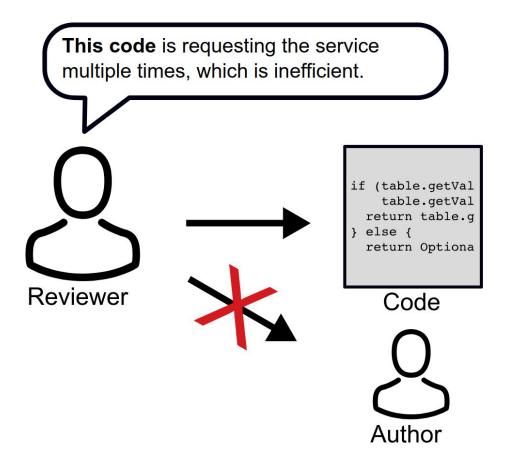
Ask Questions Instead of Making Statements



"You're requesting the service multiple times, which is inefficient."

"This code is requesting the service multiple times, which is inefficient."

Talk About the Code, Not the Coder



"You are sloppy when it comes to writing tests."

"I believe that you should pay more attention to writing tests."

Refer to the Author's Behavior, Not Their Traits

I believe that you should pay more attention to writing tests. **Behavior** Reviewer

But usually, it's not required to talk about the author at all!

Mind the OIR-Rule of Giving Feedback

Observation

"This method has 100 lines."

Impact

"This makes it hard for me to grasp the essential logic of this method."

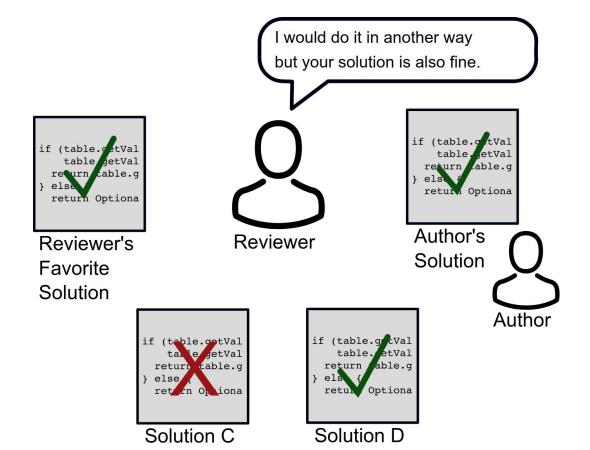
Request

"I suggest extracting the low-level-details into subroutines and give them expressive names."

"I always use fixed timestamps in tests and you should too."

"I would always use fixed timestamps in tests for better reproducibility but in this simple test, using the current timestamp is also ok."

Accept That There Are Different Solutions

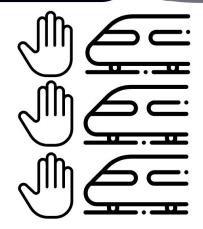


Don't Jump in Front of Every Train

Line 2 contains a smell...
I would also change this...
And this anyhow...
Oh and the next line
is also not optimal...

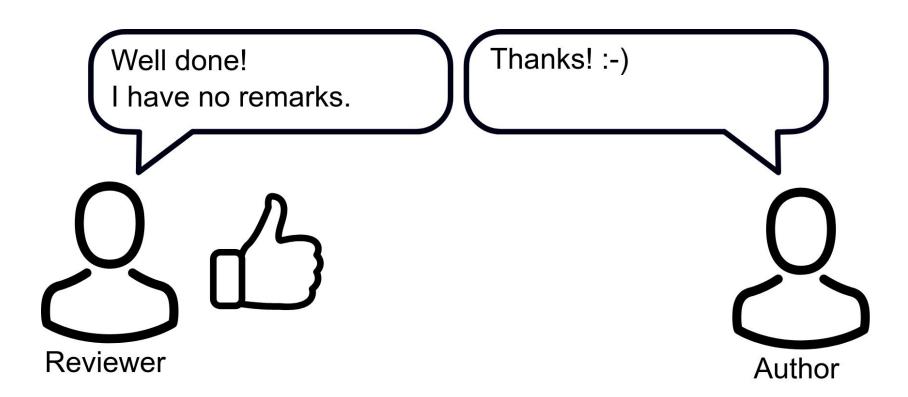
Man, that's annoying.
I'm not in the mood
anymore to change
just a single line
of code for him. :-(







Praise



"Most of your code looks good, but the method calc() is too big."

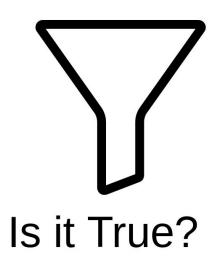
"I really like the class ProductController, Tim. It has a clear single responsibility, is coherent, and contains nicely named methods. Good Job!

Despite this, I spotted the method calc() which is too big for me."

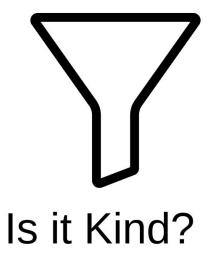
Guidelines for the Reviewer: Three Filters

Contribution: April Wensel, Compassionate Code Reviews

Filters for Code Reviews Like a Human

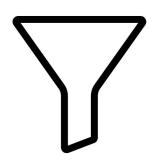






"You should use getter and setter here. This code is wrong."

"According to the Java style guide..."



Is it True?

"I've often seen.. "
Your Opinion
Your Truth

"Did you consider to use getter and setter?"

"In this case, I would recommend to use getter and setter, because..."

"There is a space missing here."



Is it Necessary?

"This code sends a chill down my spine, but I see your intention"



Is it Necessary?

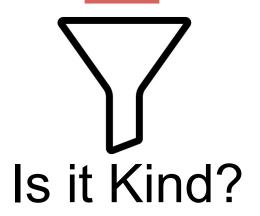
"We should refactor this whole package"



Is it Necessary?

"Let's discuss the refactoring in a dedicated meeting."

"This factory is badly over-engineered. The trivial solution is to just use the constructor"



shaming!

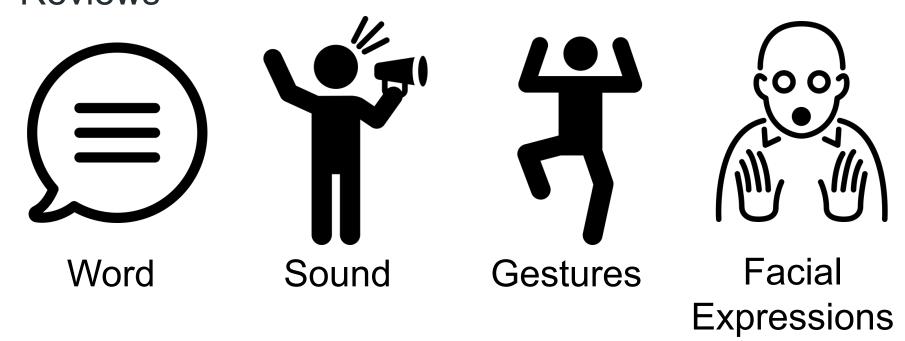
"This factory feels complicated to me. Have you considered to use the constructor instead?"

Code Reviews: Face-to-Face or Online?

Do We Have a Choice?

100 % Remote Company? Pandemic?

Communication Channels in Face-To-Face Code Reviews



Poor Communication Bandwidth in Online Code Reviews



Aspects to Keep in Mind

Face-to-Face

- High Communication Bandwidth
 - Less misunderstandings
 - Fast
- Synchronous
 - Interruptions, less focused time
 - Common time slot required
- Socialising

Online

- Poor Communication Bandwidth
 - Misunderstandings, conflict potential
 - Time-consuming (written, more ping pong),
- Written and asynchronous
 - Less interruptions, more focused time
 - No common time slot required
- Documentation of discussions 43

Tips for Online Code Reviews

- Switch to a short video chat for more complex or longer discussions
- It matters how you same something. Choose your words wisely.
 - Mind the guidelines
 - Three filters

Tips for Online Code Reviews: Add Emojis

- Effect of emojis is proven by science
- Effects:
 - Strengthen positive content
 - Weaken negative content
- Contribution of emojis in communication:
 - Make intent readable and understandable
 - Relationship care (make appreciation visible)



Monica A. Riordan: Emojis as Tools for Emotion Work: Communicating Affect in Text Messages. In: Journal of Language and Social Psychology. Michael Beißwenger, Steffen Pappert: Handeln mit Emojis. Grundriss einer Linguistik kleiner Bildzeichen in der WhatsApp-Kommunikation. UVRR, Duisburg 2019, ISBN 978-3-95605-069-5.

Conclusion

The Human Aspects

Same side Be humble **I-Messages** Questions You != Your True? Talk about Code Necessary? the code Kind? New Talk about the perspective behavior

Author Mindset Mind the IKEA effect

Be

thankful

Knowledge

OIR-Rule

Praise!

Reviewer

Phrasing Accept different solutions & Mindset

Asks

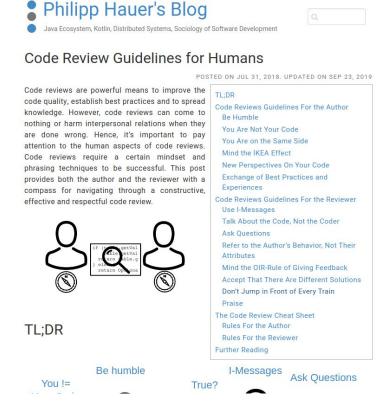
Don't jump in front of every train

exchange

47

47

This Talk as a Blog Post



https://phauer.com/2018/code-review-guidelines/

Do you have any questions?

Thank you!

