

Improving Quality



Through Code Review & Mentoring



R

RESTRICTED

UNDER 17 REQUIRES ACCOMPANYING
PARENT OR ADULT GUARDIAN

For a fat, belligerent architect that can't
watch his language... and likes sheep



BY

NC

SA

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- ❖ Adam Haskell
- ❖ Software Architect at The Kroger Co.
- ❖ Corporate Champion for Adobe ColdFusion
- ❖ Trainer & Consultant



FuseNG

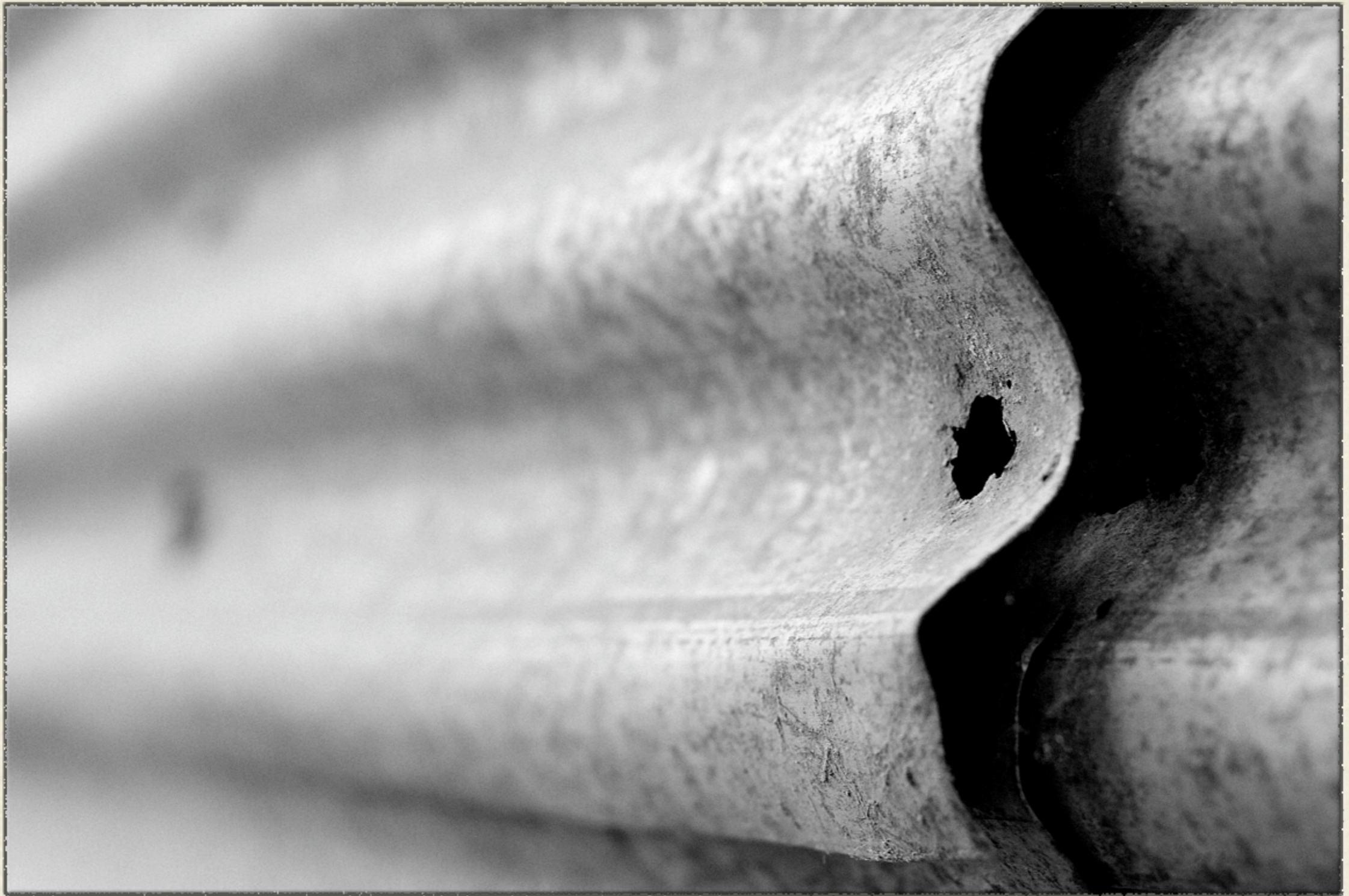




Where am I getting this

Sunday, August 16, 2009

Author of Kroger's Mentoring Strategy & Code Review Strategy
Project Mentoring & Help projects start out correct
Coach projects back on track
Score Projects success rating
Facilitate Design sessions & Code Reviews



What is Code Quality?

<http://www.flickr.com/photos/deadsquid/2654526174/>

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not cfqueryparam
Design, maintainability

Steve C McConnell

- ❖ Code Complete
- ❖ Rapid Development
- ❖ Professional Software Development: Shorter Schedules, Higher Quality Products, More Successful Projects, Enhanced Careers
- ❖ One of the three most influential people in the software industry by Software Development Magazine



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Along with Linus Torvald and Bill Gates.

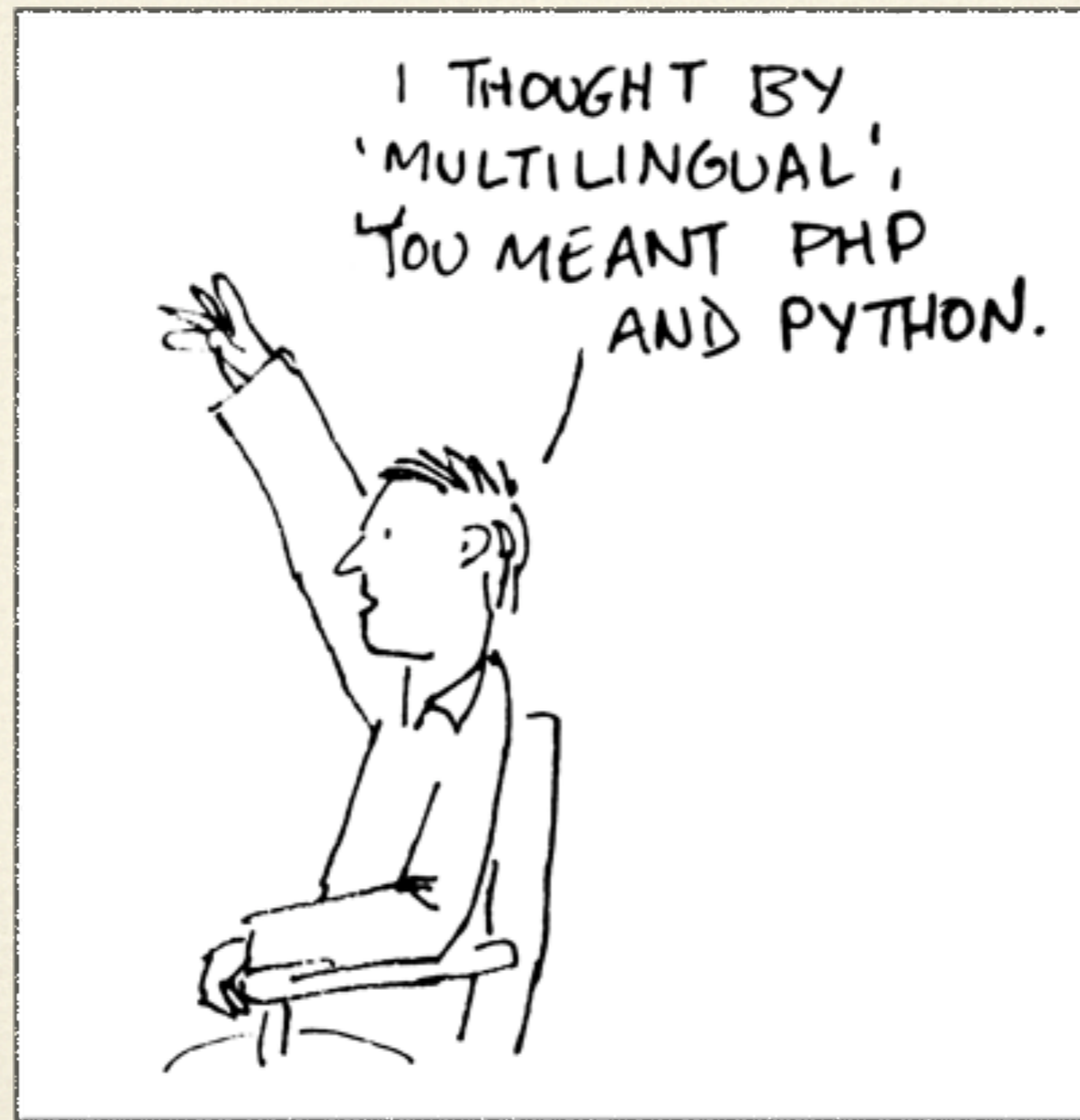
Testing by itself does not improve software quality. Test results are an indicator of quality, but in and of themselves, they don't improve it. Trying to improve software quality by increasing the amount of testing is like trying to lose weight by weighing yourself more often. What you eat before you step onto the scale determines how much you will weigh, and the software development techniques you use determine how many errors testing will find. If you want to lose weight, don't buy a new scale; change your diet. If you want to improve your software, don't test more; develop better.

Improving Code Quality

- ❖ Code Standard Guidelines
- ❖ Pair Coding
- ❖ User Groups



Peer Code Review



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Don't review the person
More than just review of the code.
Tie Back to what is quality

What is the Goal?

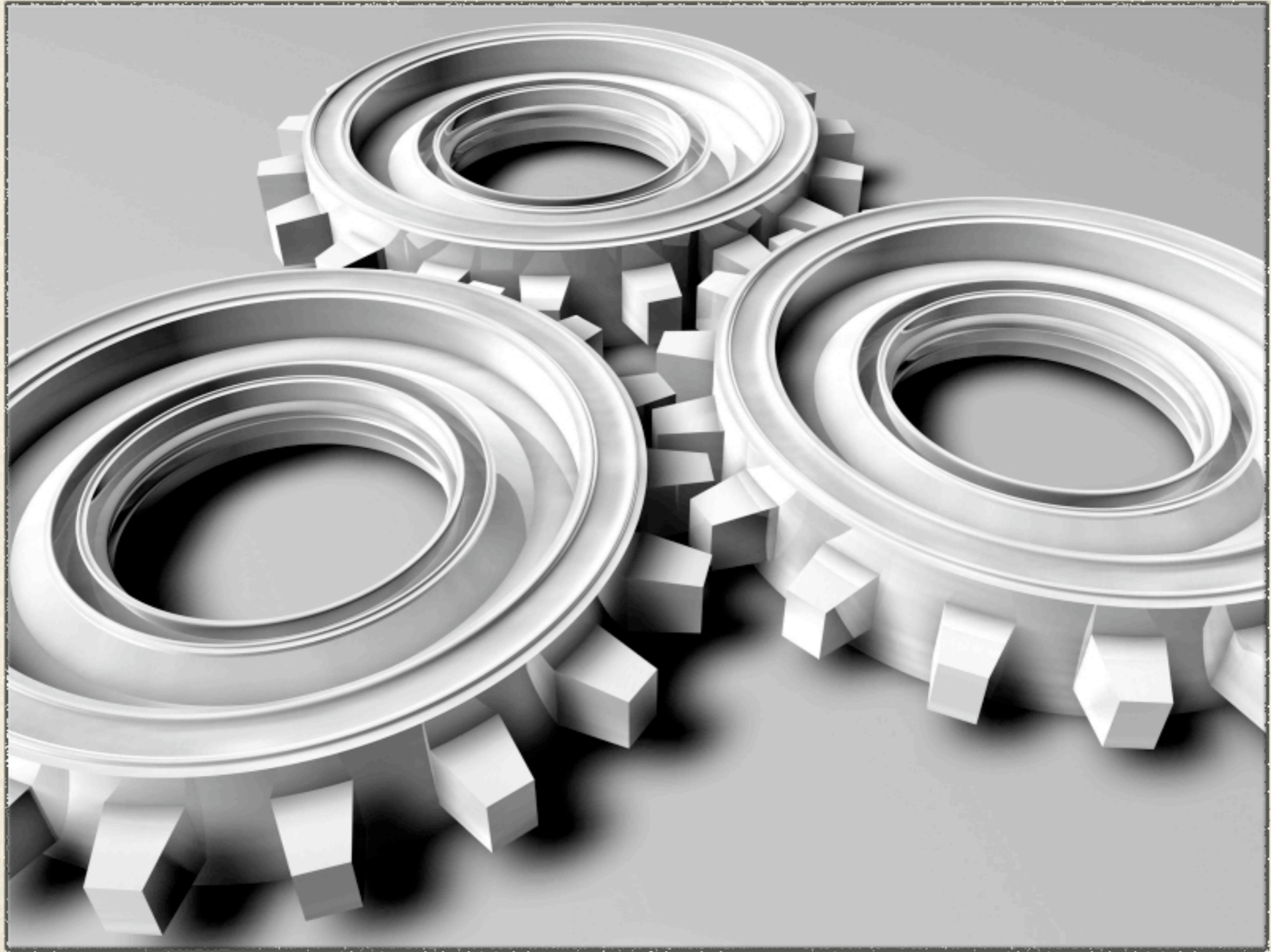


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Pause and get feedback
on Goals of a Code Review

Drive Quality



Build a Team



<http://www.flickr.com/photos/kasimetcalf/118471837/>

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Drive Quality

Increase Fungibility

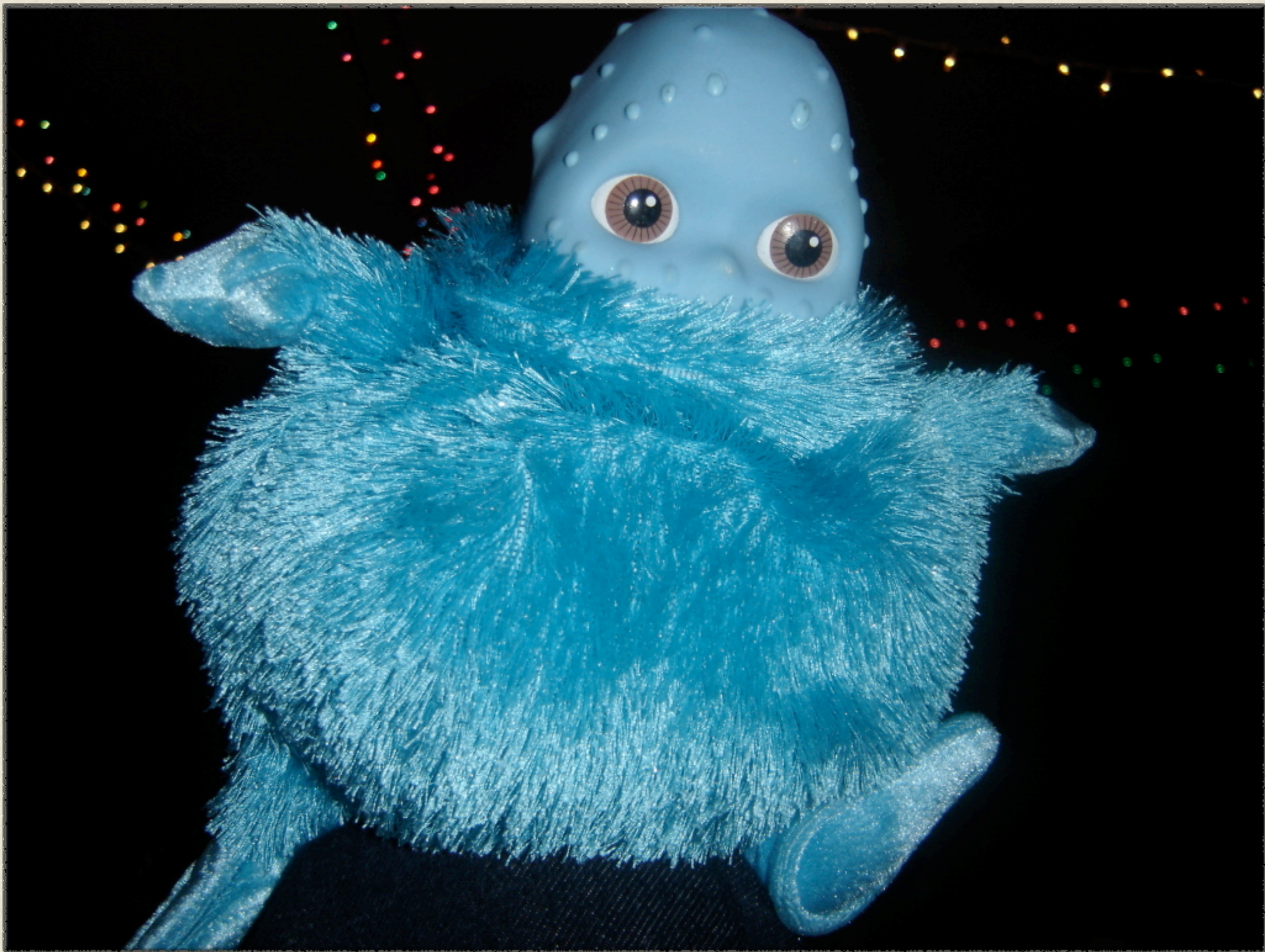




Self Review

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What is Self Review
Talking to others waste time?



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Self Review

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Cognitive affects

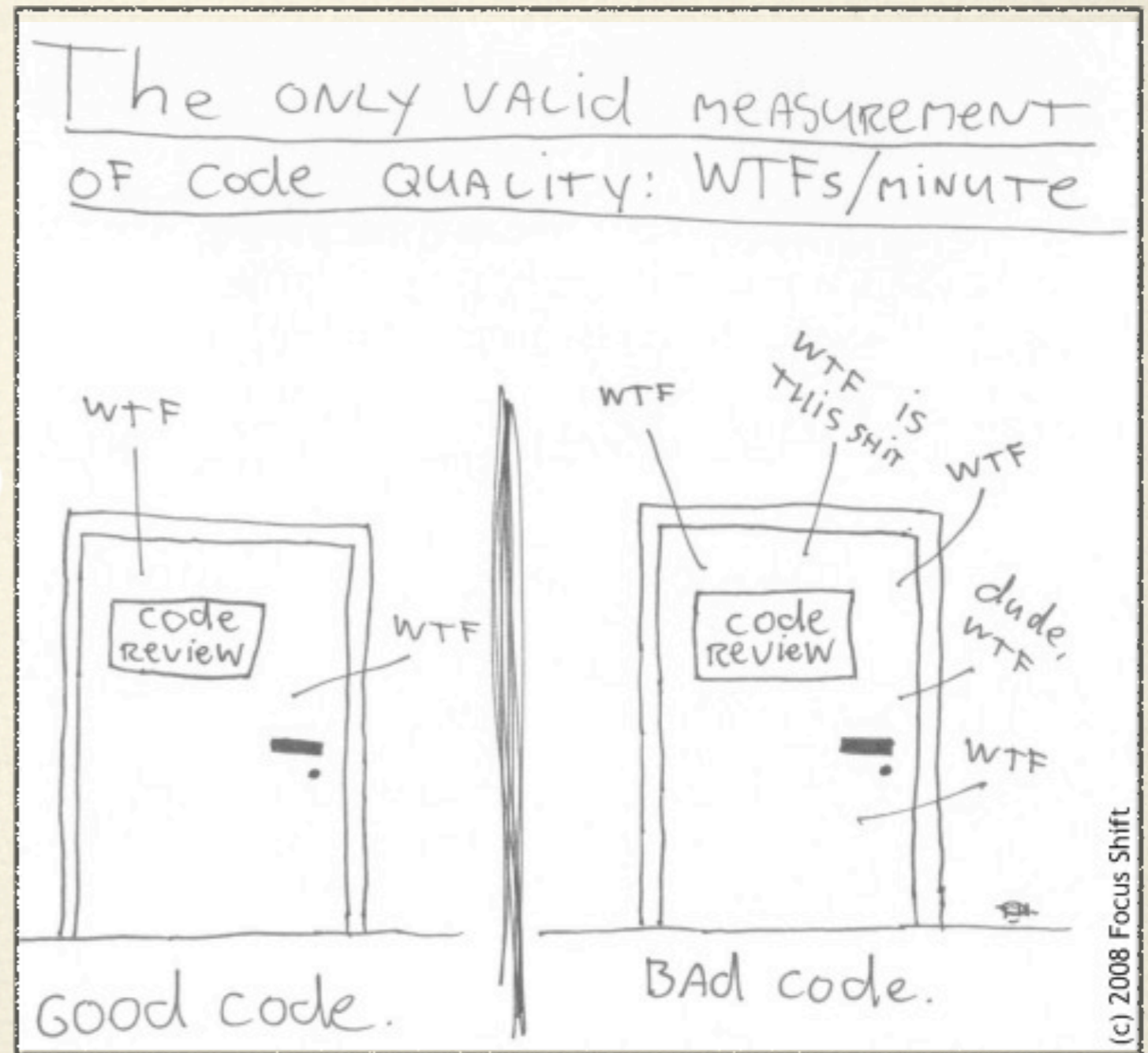
Informal Peer Reviews

- ❖ Design Validation
- ❖ Agile side of Desk
- ❖ Talking Out loud
- ❖ “Manage Up”



Formal Peer Reviews

- ❖ Review Code ahead of time
- ❖ Don't spend more than 90 minutes
- ❖ Meetings should be recap
- ❖ Tools help



Why do code reviews fail? Failure rate higher than project failure!
Can be time consuming..worth it.
Focus on the code.
Update documents

Code Review Tools

- ❖ Crucible
 - ❖ Atlassian
 - ❖ <\$5000
 - ❖ Very good VCS integration
- ❖ Code Collaborator
 - ❖ SmartBear
 - ❖ \$1,299/Concurrent User
 - ❖ <http://www.smartbear.com/codecollab-codereviewer.php>



Introducing Code Review

<http://www.flickr.com/photos/a2gemma/1448178195/>

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Culture Change
Metrics
Gorilla Warfare

Joint Application Design

- ❖ Interactive systems design concept involving discussion groups in a workshop setting
- ❖ Do
 - ❖ Encourage Questions
 - ❖ Create a Parking Lot
- ❖ Don't
 - ❖ Discourage Ideas
 - ❖ Linger on one Topic

Keep Track of Me

- ❖ Twitter: AHaskell
- ❖ IRC: #ColdFusion #Openbluedragon
- ❖ Blog: <http://cfrant.blogspot.com>
- ❖ E-Mail/Messenger: a.haskell@gmail.com
- ❖ Slides: <http://dl-client.getdropbox.com/u/64114/CodeReview-v2.pdf> (I will blog it)
- ❖ CFConversations!!!