Want Code Quality? Just Ask

The Art of the Code Review

@trevmex

Who am I?

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thePlatform

DISCLAIMER: The opinions expressed in this presentation are my own, and do not necessarily reflect those of thePlatform.

First a note: Dunning-Kruger Effect
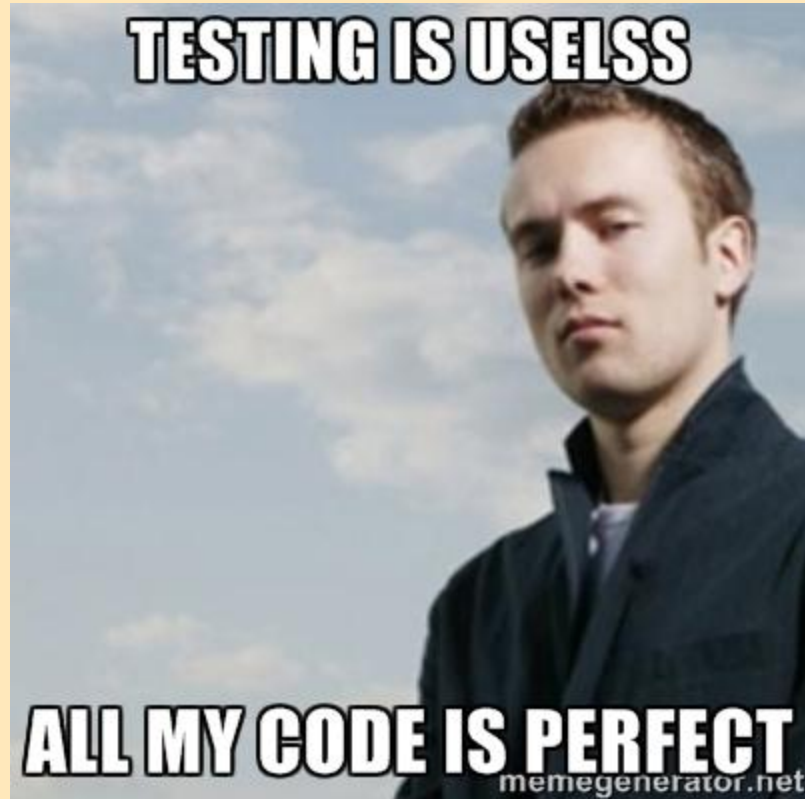
Illusory Superiority and Impostor Syndrome

"The Foole doth thinke he is wise, but the wiseman knowes himselfe to be a Foole."

- William Shakespeare, *As You Like It*

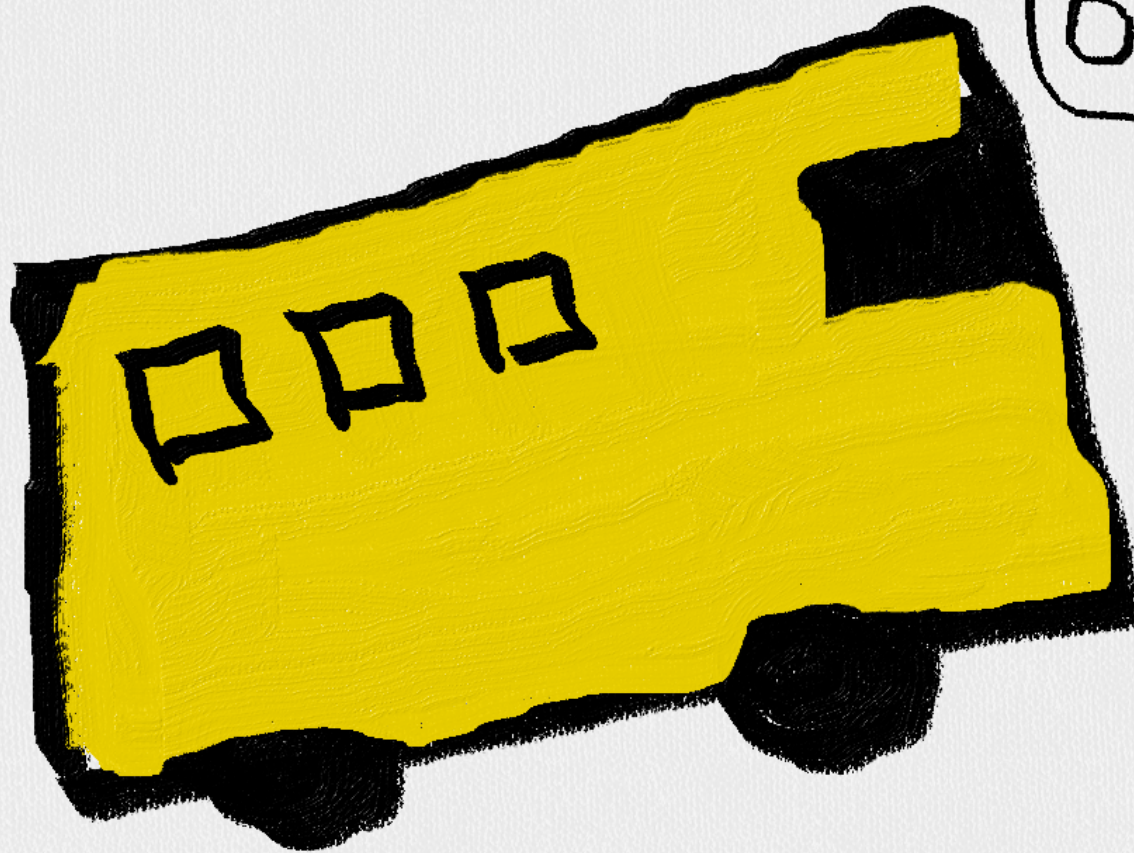# "Code Review," you keep using that term…

Why code review?

Mentorship

The bus factor

Find bugs early

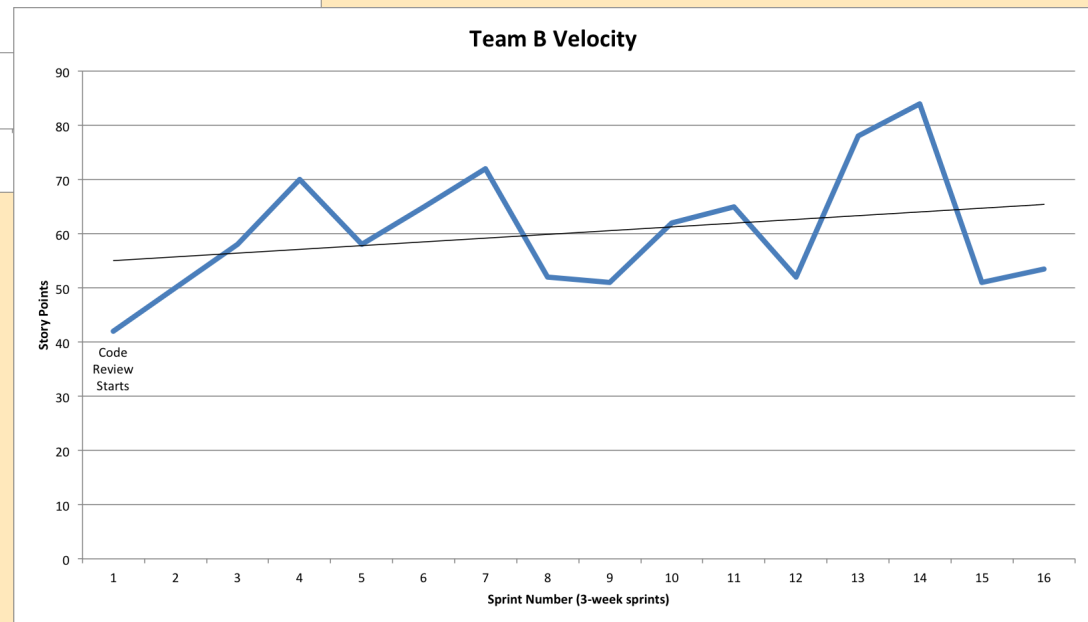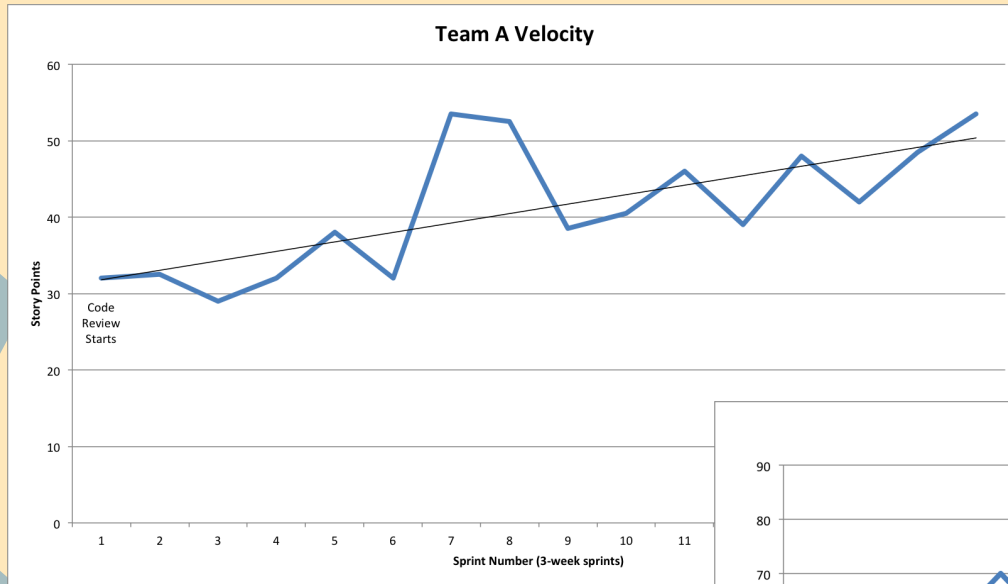http://raphaelhertzog.com/2011/07/14/how-to-squash-debian-release-critical-bugs/

Bugs cost more later!

"Finding and fixing a software problem after delivery is often 100 times more expensive than finding and fixing it during the requirements and design phase."

Barry Boehm
Director Emeritus, USC Center for Systems and Software Engineering

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Does it work?

Team A Velocity

Story Points / Sprint Number (3-week sprints)

Code Review Starts

Team B Velocity

Story Points / Sprint Number (3-week sprints)

Code Review Starts

HOWTO: Code Review

1. Write some tests.
2. Write some code.
3. Show said tests and code to another coder.
4. Take constructive criticism.
5. Repeat 1-3 until satisfied.
6. Merge your code.
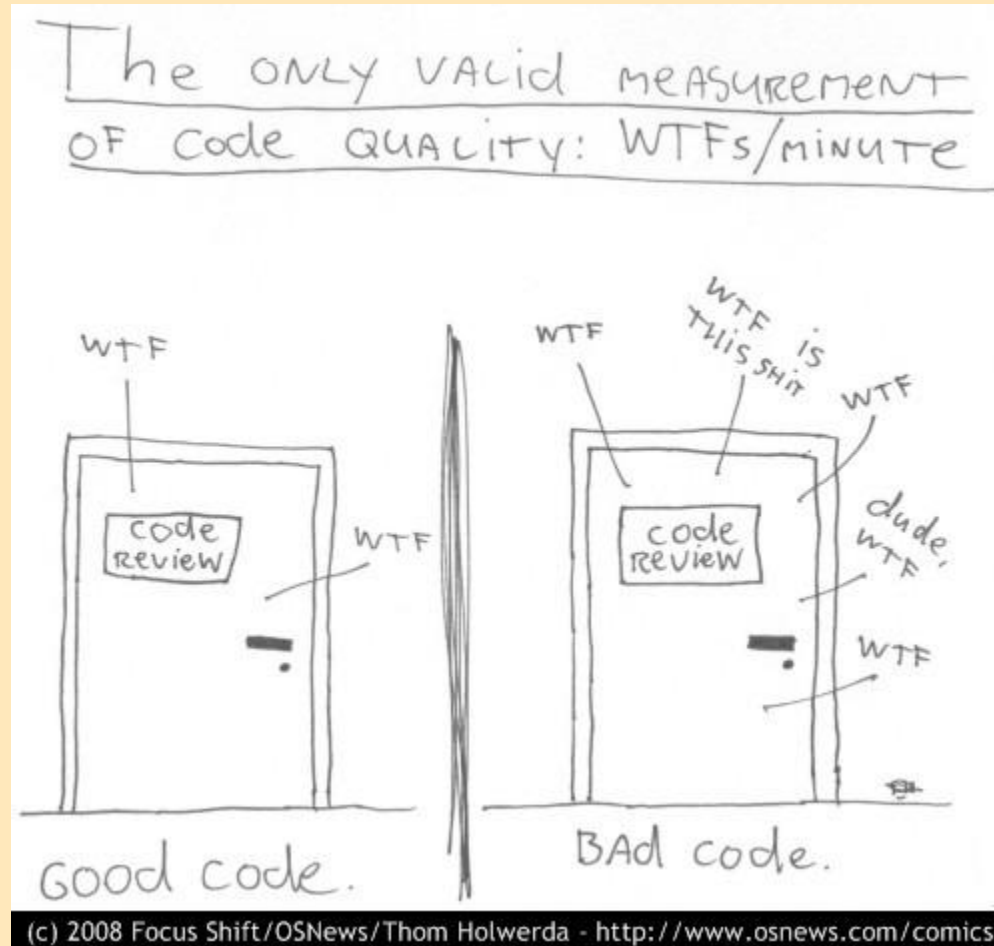7. Go have a beer (or cranberry juice)!

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But really… how to code review

Look at the logic!

Naming matters

Call out the WTFs

Beginner's Mistakes

Watch out for these beginner mistakes…

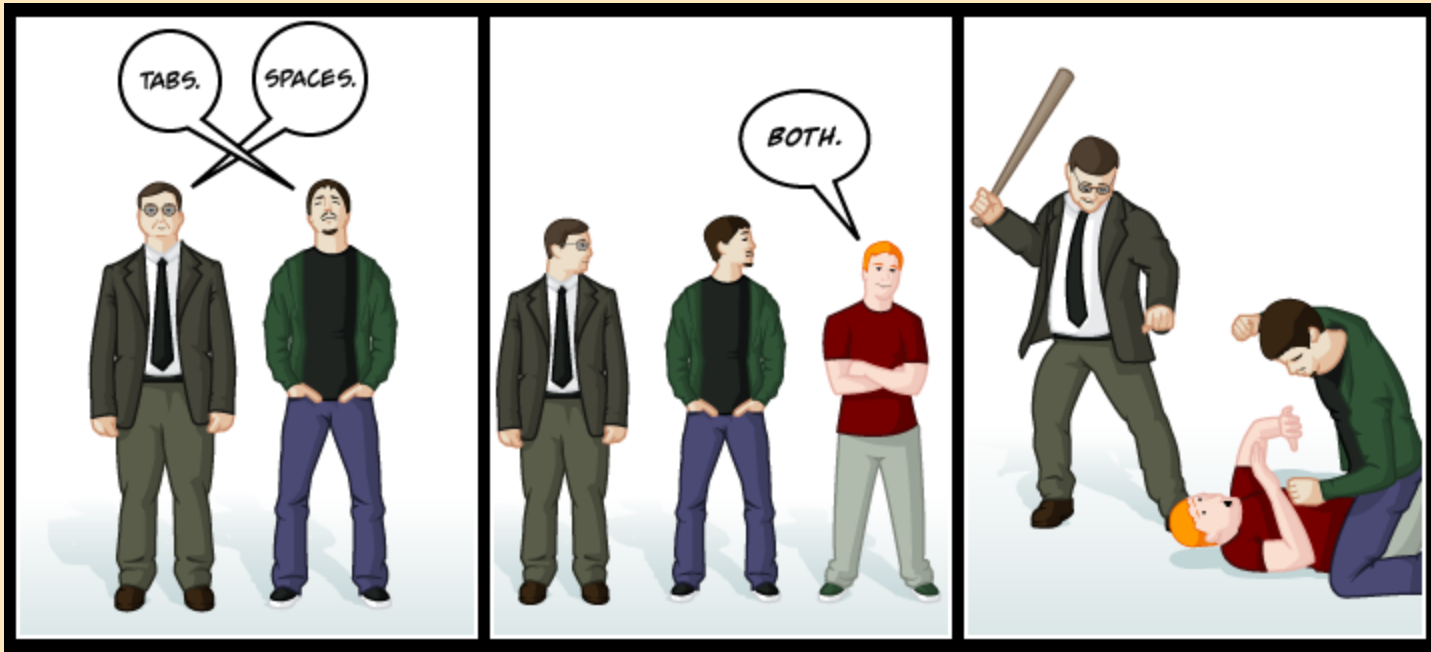DON'T PANIC

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Think twice before commenting...

Tabs vs. spaces?

original comic by Steve Napierski

Convincing resistors

https://www.flickr.com/photos/oskay/437342078
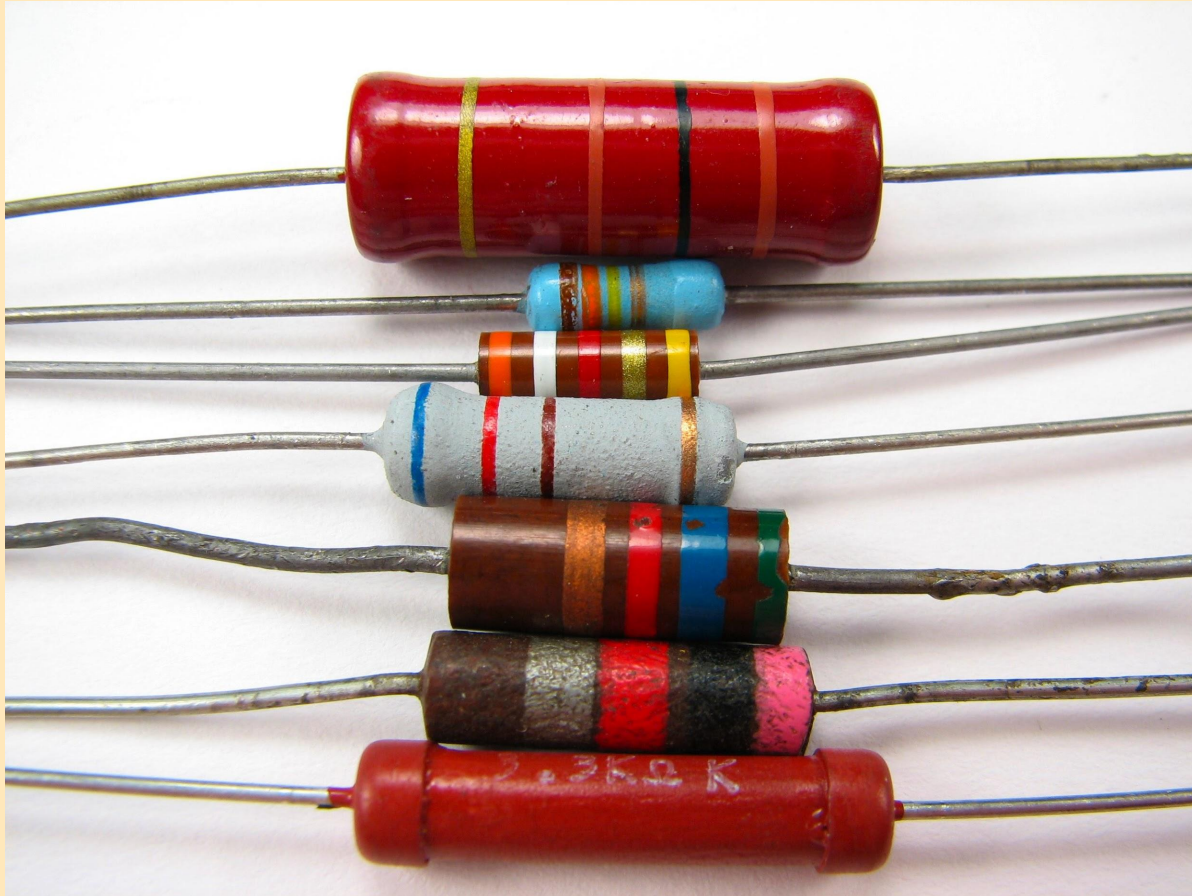
Our toolchain

- git

- gerrit

- AnthillPro

How Gerrit works

https://review.typo3.org/Documentation/intro-quick.html

http://blog.qt.digia.com/blog/2011/05/23/gerrit-joined-the-qt-creator-project/

Alternative toolchains

- git

- GitHub Pull Requests

- Jenkins

- Travis CI

Dodgeballcat by https://github.com/tonyjaramillo

Old school

- Review by hand

Cool side effects of code reviews

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- Smaller code commits

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- Humanization of your coworkers

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- Developers learn from each other

What about pair programming?

The moral of the story

- Reviewing code makes:

  - Your team stronger

  - Your code cleaner

  - You a better developer

Trevor Lalish-Menagh (@trevmex)