Want Code Quality? Just Ask

The Art of the Code Review
Who am I?

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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...

https://www.flickr.com/photos/rakka/2572572531/
Why code review?

TESTING IS USELESS

ALL MY CODE IS PERFECT
Mentorship

https://www.flickr.com/photos/kars4kids/14512108724/
The bus factor

http://adamprescott.net/2012/12/04/lean-development-teams/
Find bugs early

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
Does it work?

Team A Velocity

Team B Velocity
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)!
But really... how to code review
Look at the logic!

https://www.flickr.com/photos/bootload/2447013665
Naming matters

“WHAT’S IN A NAME? THAT
BY ANY OTHER NAME WOULD

Call out the WTFs

The only valid measurement of code quality: WTFs/minute

(c) 2008 Focus Shift/OSNews/Thom Holwerda - http://www.osnews.com/comics
Beginner’s Mistakes

Watch out for these beginner mistakes…
Think twice before commenting...

I'm not passive-aggressive.

Unlike some people I know.

http://adorefamily.wordpress.com/2012/09/17/passive-aggressive/
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
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?

http://svprojectmanagement.com/keep-your-culture-positive
The moral of the story

- Reviewing code makes:
  - Your team stronger
  - Your code cleaner
  - You a better developer

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