CODE REVIEWS

OR: HOW TO CATCH BUGS AND SHARE KNOWLEDGE

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OVERVIEW

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INTRODUCTION

10-step Development Lifecycle

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- Detect bugs early
 - ► ⇒ Reviewers are maintainers / senior developers
- Share knowledge
 - ightarrow \implies Reviewers are juniors / random fellas
- Maintain clean code
 - Do you follow traditional code conventions?
 - Do you have your code conventions written?

Tools should be powerful enough

... but not beyond! Intuitive too!

TEN COMMANDMENTS OF CR [1]

THOU SHALT NOT TAKE IT PERSONALLY

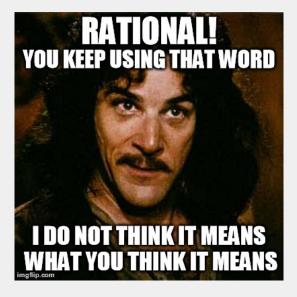


THOU SHALT NOT MARRY THE CODE

```
#!/usr/bin/perl -w
use strict;
    my$f=
                  $[;my
   $ch=0;sub l{length}
 sub r{join"", reverse split
("",$ [$[])}sub ss{substr($ [0]
,$ [1],$ [2])}sub be{$ =$ [0];p
 (ss($ ,$f,1));$f+=1()/2;$f%=1
  (); $f++if$ch%2; $ch++}my$q=r
   ("\ntfgpfdfal,thg?bngbj".
    "naxfcixz");$_=$q; $q=~
     tr/f[a-z]/ [1-za-k]
        /;my@ever=1..&l
          ;my$mine=$q
            ;sub p{
             print
              e ;
       be $mine for @ever
```

- At least try... at least treat feedback appropriately...
- Still, don't take it blindly!

THOU SHALT ARTICULATE YOUR RATIONALE



Reviewer Why not using a simple for loop?

You At first, I thought the same. But... <here you articulate your rationale, yada yada yada...>

Reviewer It still doesn't look good though...

You I hear you. Let's sit together and find the right solution

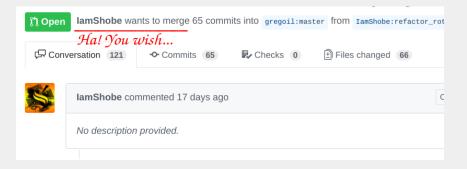
THOU SHALT CONTRIBUTE TO OTHERS' CODE REVIEWS

- Try to review as much as you can
- You'll learn a lot, and gain respect when you'll see things others have not seen :)

TREAT SUBMITTERS HOW YOU WANT TO BE TREATED



DON'T BE INTIMIDATED BY THE NUMBER OF COMMENTS



THOU SHALT NOT REPEAT THE SAME MISTAKES



- Don't be annoyed if the reviewer have lots of comments about misspelling and white spaces.
 - He probably can't control it
 - It means there are no bigger problems in your code
- Fix it and move on!

LIVE DEMO

LAST TIPS

- Automate the process
- Define CR culture
 - How do people acknowledge comments
 - How many reviewers per review
- Prioritize CR over other missions

LAST TIPS (CONT.)

- Review small chunks of code
- Still, don't be intimidated by large code changes

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RETWEETS 8,007	LIKES 4,302	9 4 9 9 4 9	
4:58 AM - 5	Nov 2013		
4 109	13 8.0K	🖤 4.3К	

QUESTIONS?

THANK YOU!

REFERENCES

ANGIE JONES.

THE 10 COMMANDMENTS OF NAVIGATING CODE REVIEWS.

https:

//techbeacon.com/10-commandments-navigating-code-reviews.