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Effective Code Reviews:
The edge between hard and soft skills

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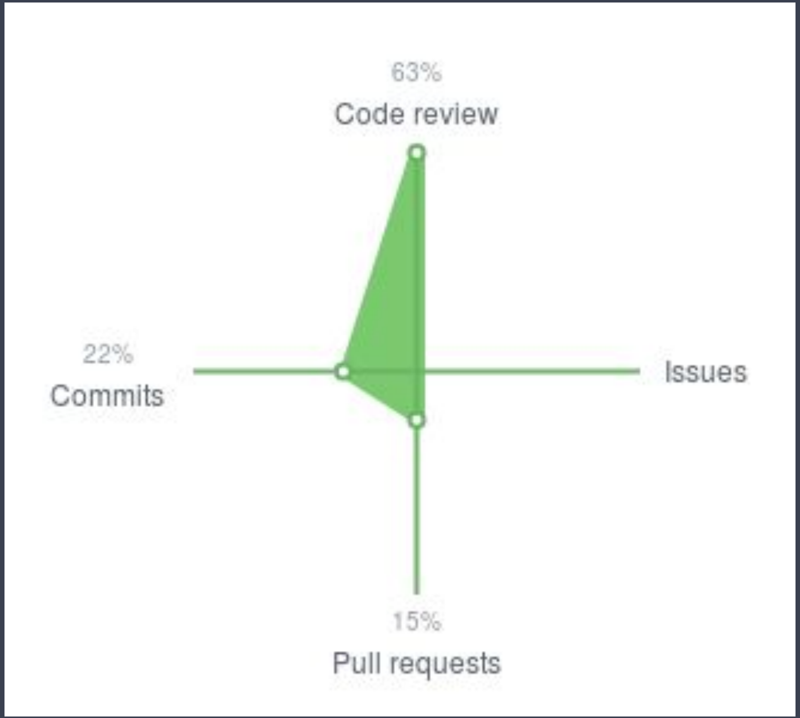
63%
Code review
22%
Commits
Issues
15%
Pull requests

TL;DR Version

"A software QA activity in which one or several people check a program mainly by viewing and reading parts of its source code, and they do so after implementation or as an interruption of implementation. At least one of the persons must not be the code's author.

Wikipedia

Once upon a time ...

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Often decides to be brutally honest

Due to that, had to find a new job

Or worst: keep his opinions for himself

Code reviews? Why?

- Knowledge Transmission
- Stimulate collective collaboration in projects
- Quick feedback / ensure changes are on the right track
- Stimulate contribution for new PRs and good practices
- Ensure we have good quality on the ~~code~~ product

3 Golden rules for healthy code reviews

Rule number 1:

Don't take any comment as a personal offense

Rule number 2:

Listen to feedbacks

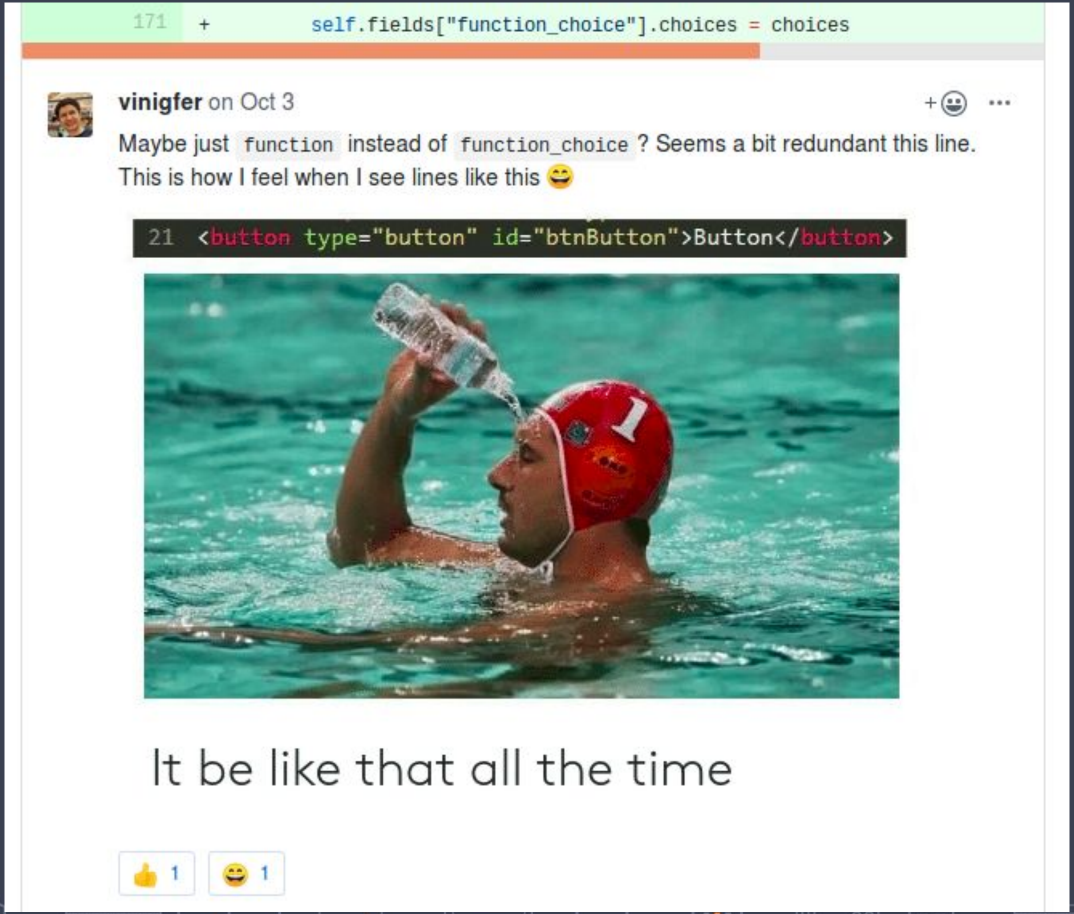
Rule number 3:

Accept the fact that you might be wrong.
Make mistakes is part of being human.

Good practices - Positive feedback

- Good job! / Awesome
- LGTM, IMHO, ...
- Use emojis, memes, ...

Examples



```
+        self.fields["function_choice"].choices = choices
```

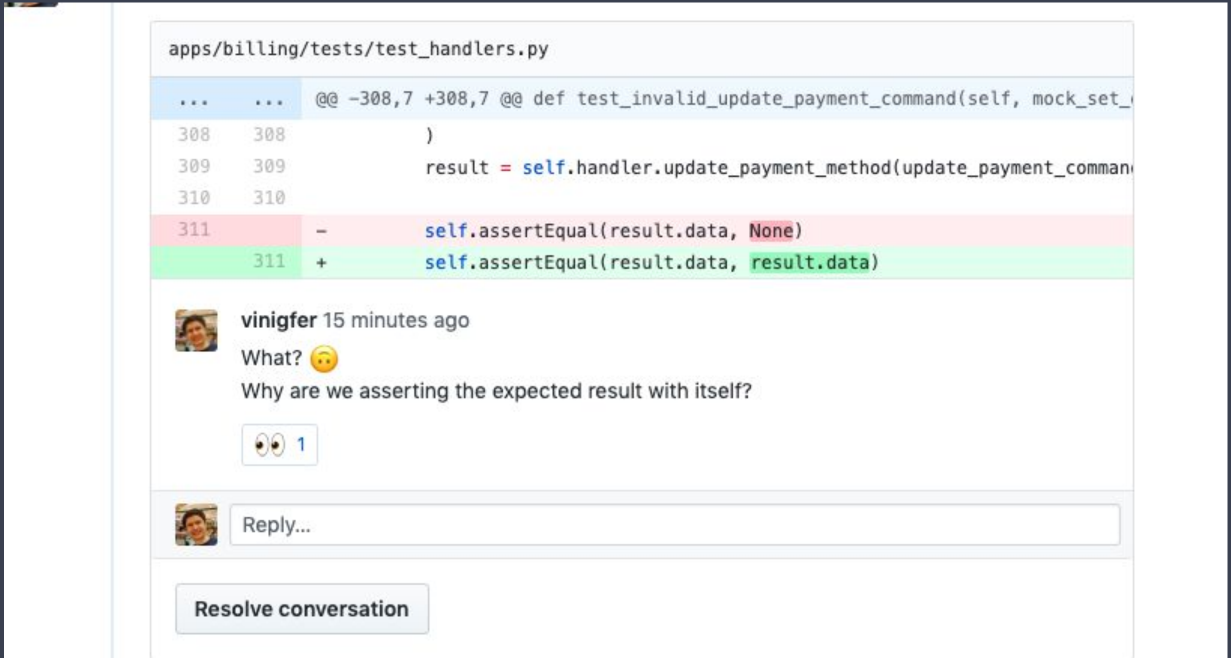
vinigfer on Oct 3

Maybe just `function` instead of `function_choice`? Seems a bit redundant this line.
This is how I feel when I see lines like this 😄

```
<button type="button" id="btnButton">Button</button>
```

It be like that all the time

👍 1 😄 1



apps/billing/tests/test_handlers.py

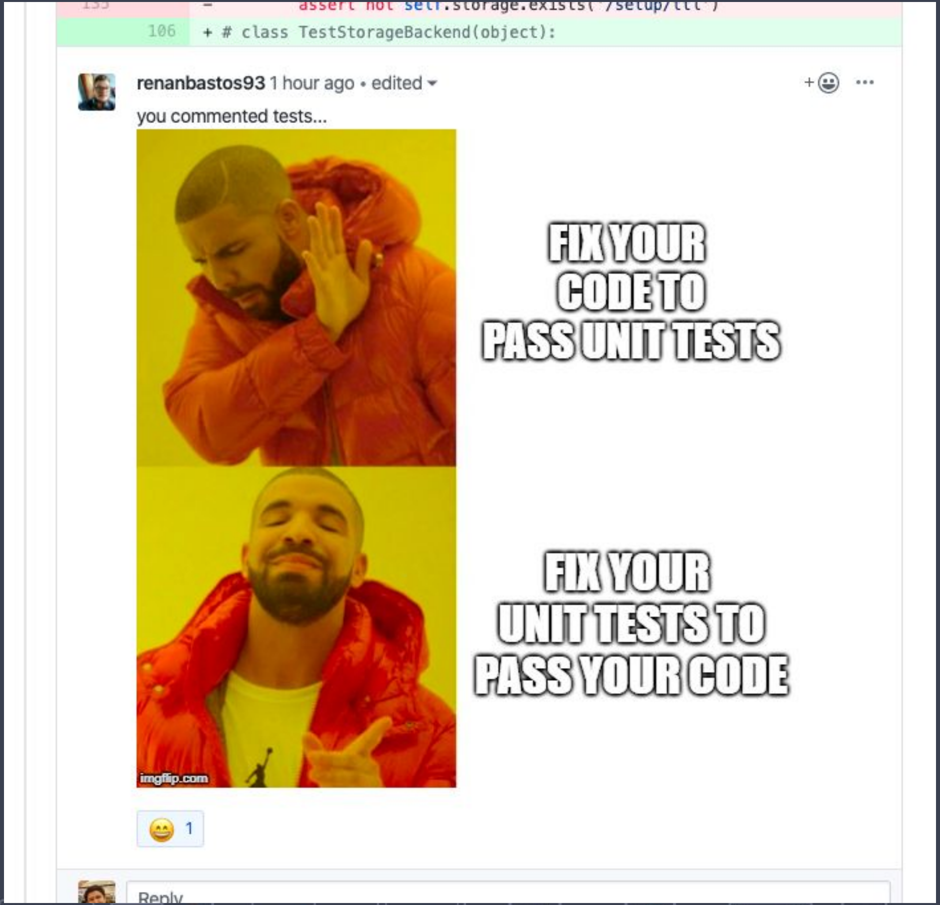
```
...   ...   @@ -308,7 +308,7 @@ def test_invalid_update_payment_command(self, mock_set_
                  )
                  result = self.handler.update_payment_method(update_payment_comman

          -       self.assertEqual(result.data, None)
          +       self.assertEqual(result.data, result.data)
```

vinigfer 15 minutes ago

What? 🙃

Why are we asserting the expected result with itself?



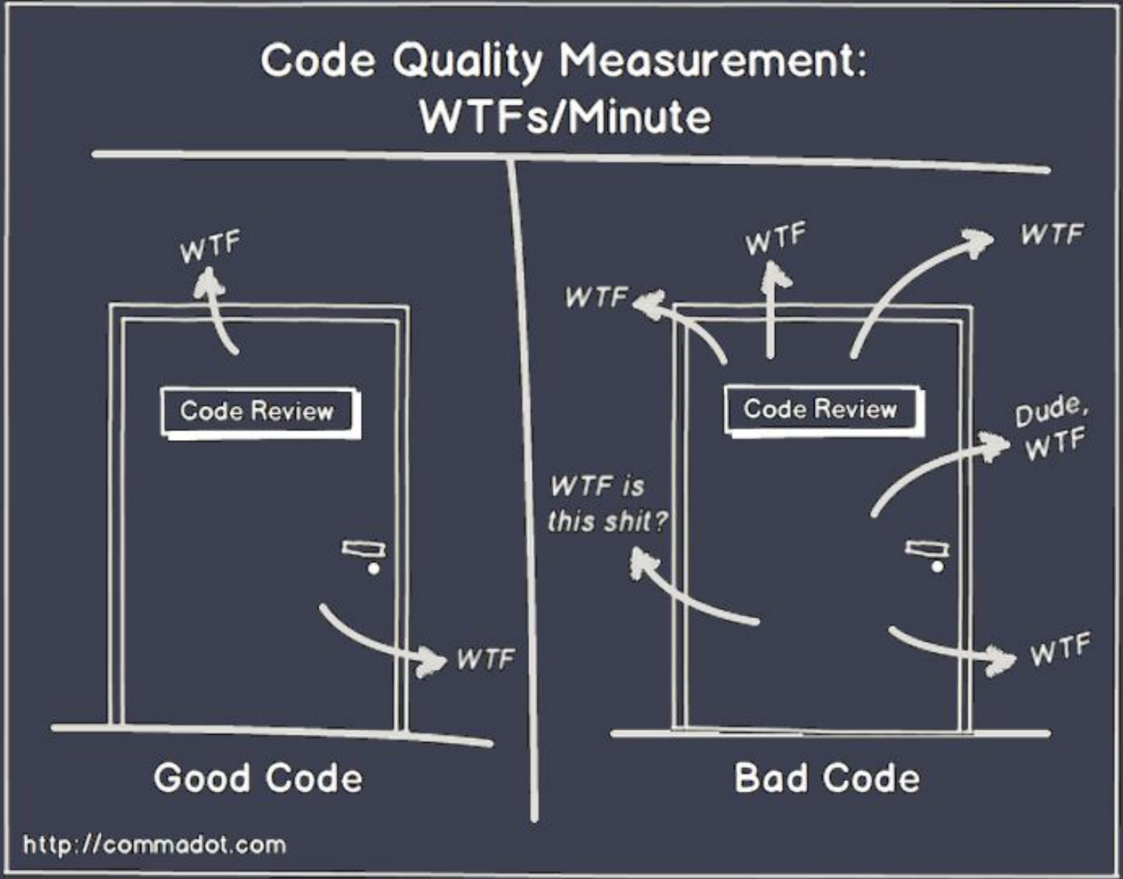
```
133      -         assert not self.storage.exists('/setup/ttt')
     106 + # class TestStorageBackend(object):
```

renanbastos93 1 hour ago • edited

you commented tests...

FIX YOUR CODE TO PASS UNIT TESTS
FIX YOUR UNIT TESTS TO PASS YOUR CODE
imgflip.com
😄 1
Reply

How to check if a PR is good? Which metrics should we use?


Code Quality Measurement:
WTFs/Minute
WTF
Code Review
WTF
Good Code
WTF
WTF
WTF
WTF
Code Review
Dude, WTF
WTF is this shit?
WTF
Bad Code
http://commadot.com

Good practices - Negative feedback

When you reject a PR, always explain the reason you are doing so.

General rules about comments (especially in negative feedback)

- Be nice always! Have empathy with the PR author
- Use collective words (us, can we, all) instead of individual terms (I, you, him).
- Be clear and straight to the point (but still being nice and respecting your fellow teammates).
- Raise questions: What if we do it this way? Looks more efficient because X, Y, Z.

Checklist - During development

- Isn't your PR getting too much big? Is it possible to break it into smaller PRs, easier/faster to review?
- Can I open a PR as a WIP?
- Place style changes (Black/PEP8/iSort) into separate commits

Checklist - Before opening a PR

- Did the tests passed on your machine?
- Is the PR title clear? What about the description? How about adding a print if a screen was added/changed?
- Is it a new feat or fix? Where are the new tests?
- Review your own PR carefully, as you would review somebody else's PR. Or as I like to think of ...

The next programmer is a psycho who know where you live

Reviewing PRs: What to look for?

- Tests or pipeline are failing: don't waste your time
- Typos: Comments, tests, variable names, classes, …
- Words in another language that are not english
- Logic errors
- Performance optimizations

Reviewing PRs: What to look for?

- Follow style conventions, project architectural guidelines, and good practices adopted by the company and the community
- Commit messages / PR title
- The author doesn't give up: negotiate!
- Don't use push force! Use --force-with-lease

To sum it up

Code review comes down to people: find a way to express yourself and negotiate about tech subjects, without harming anybody

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Valeu! / Merci! / Thank you! / Gracias! / Vielen Dank! / Спасибо! / 谢谢啦! / ありがと!

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Have a question? Please contact me!

#talk-effective-code-reviews

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