



Mastering Code Reviews

Effective Strategies for Teams

Sebastian Feldmann

 @movetodevnull



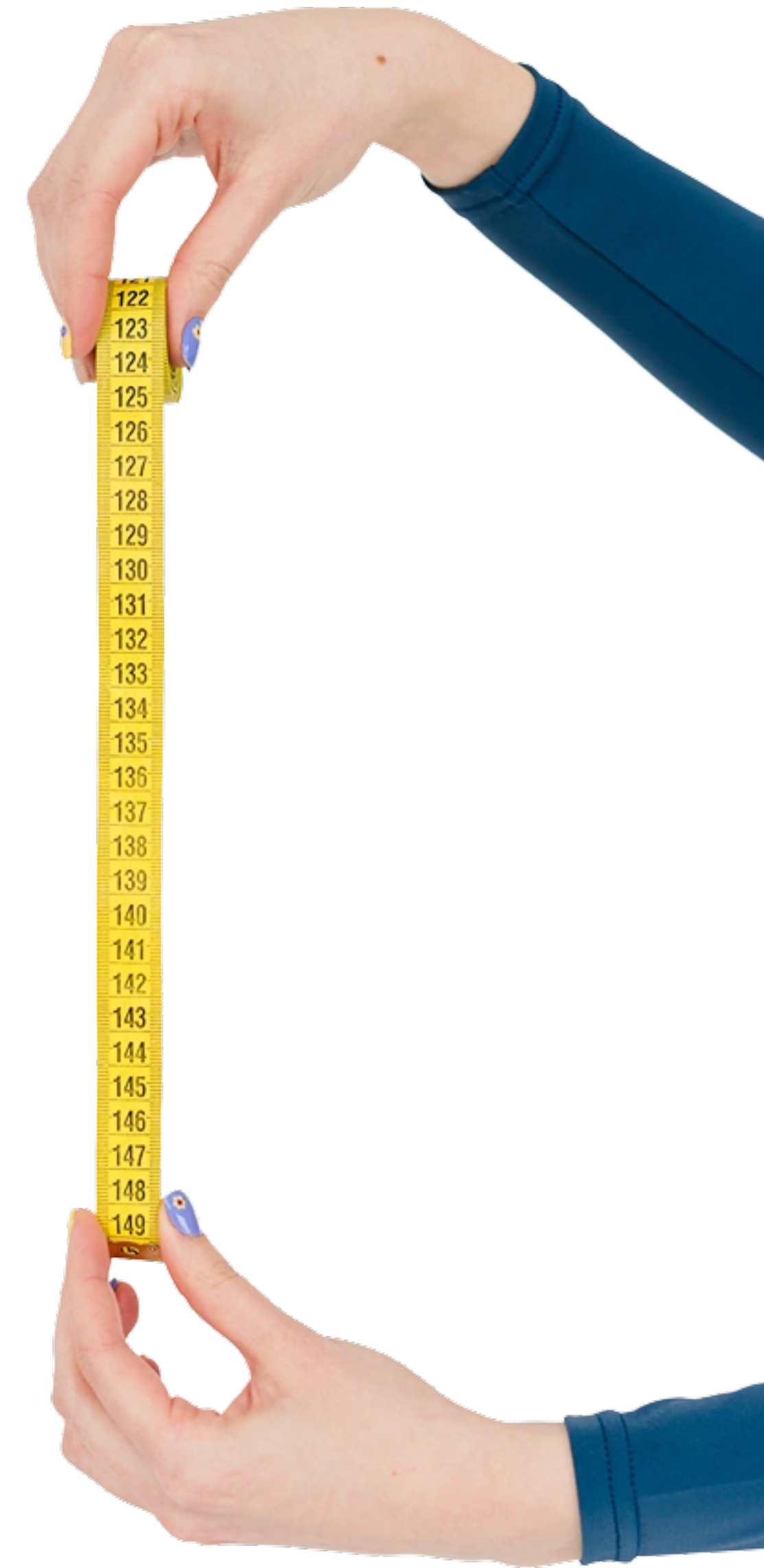


Find Bugs

Share knowledge



**Ensure the code does
what it's supposed to**



**Does the implementation
makes sense**



Is the code understandable



Get early feedback



Collaborate on design





FOR SALE

SOLD

**I GOT
99
PROBLEMS
AND
CODE REVIEW
IS ONE OF THEM**





Hello I'm Sebastian

CHECK24



~ 30 years



X @movetodevnull





**CAN WE
FIX IT?**

YES

WE

CAN

Reviewer

Assume best intentions



**Don't make assumptions
ask questions**



**Only look at stuff
that can't be automated**



Have a checklist



- ✓ Exception error messages
- ✓ Subtle bugs
- ✓ Over-engineering
- ✓ Security
- ✓ Regulatory requirements
- ✓ Performance
- ✓ Documentation been updated
- ✓ Spelling, punctuation & grammar
- ✓ Fit with the overall architecture
- ✓ New code follows team's current practices
- ✓ Code is in the right place
- ✓ Code reuse
- ✓ Testing the right things
- ✓ Readable code and tests
- ✓ SOLID principles, Domain Driven Design
- ✓ Design Patterns or other paradigms of choice

Respond to positive stuff



Actionable comments
what, when, why

Label comments

praise

showstopper

personal
preference

minor

acceptable
for now

**The goal is to get it shipped
it is not to show
how clever you are**

Take it somewhere else



Reviewee

Early feedback



Smaller size



A black and white photograph of a metal gate with vertical bars, partially open, revealing a white background with text.

Make your changes accessible

Annotate your code

Focus on ...

Ignore this
BECAUSE...

This does ...

Most important ...

This is just
noise ...

Start here ...

I had to do ...

Guide the reviewer



○ Commits on September 22, 2023

Changed some stuff



sebastianfeldmann committed on September 22, 2023

Verified



6ea370c



○ Commits on September 22, 2023

Implemented new voting feature, fi... ...



sebastianfeldmann committed on September 22, 2023

Verified




6ea370c



○ Commits on September 22, 2023

Implemented new voting feature, fi... ...

Verified

 6ea370c



...xed an internal messaging issue and refactored some inheritance menace


 **sebastianfeldmann** committed on September 22, 2023

○ Commits on September 22, 2023

Add voting api endpoints and actions

 **sebastianfeldmann** committed on September 22, 2023

Verified


 6ea370c



Fix internal messaging issue

 **sebastianfeldmann** committed on September 22, 2023

Verified


 63ba00d



Refactor Formatters to be composable

 **sebastianfeldmann** committed on September 22, 2023

Verified


 30b67b0



Add voting persistence services

 **sebastianfeldmann** committed on September 22, 2023

Verified

 7bd0873





```
$ git log --oneline --no-decorate
```

```
6ea370c Add voting api endpoints and actions
```

```
63ba00d Fix internal messaging issue
```

```
30b67b0 Refactor Formatters to be composable
```

```
7bd0873 Add voting persistence services
```

```
$ git commit --fixup=7bd0873 -m"Add missing..."
```

```
[my-branch 88086c0] fixup! Add voting persistence service
```

```
1 file changed, 1 insertion(+)
```

```
$
```


<div><div>!fixup Add voting persistence services</div><div><div><div></div></div><div>sebastianfeldmann committed on September 22, 2023</div></div></div>	<div>Verified</div>	<div><div></div><div>88086c0</div><div><></div></div>
<div><div>Add voting api endpoints and actions</div><div><div><div></div></div><div>sebastianfeldmann committed on September 22, 2023</div></div></div>	<div>Verified</div>	<div><div></div><div>6ea370c</div><div><></div></div>
<div><div>Fix internal messaging issue</div><div><div><div></div></div><div>sebastianfeldmann committed on September 22, 2023</div></div></div>	<div>Verified</div>	<div><div></div><div>63ba00d</div><div><></div></div>
<div><div>Refactor Formatters to be composable</div><div><div><div></div></div><div>sebastianfeldmann committed on September 22, 2023</div></div></div>	<div>Verified</div>	<div><div></div><div>30b67b0</div><div><></div></div>
<div><div>Add voting persistence services</div><div><div><div></div></div><div>sebastianfeldmann committed on September 22, 2023</div></div></div>	<div>Verified</div>	<div><div></div><div>7bd0873</div><div><></div></div>



```
$ git log --oneline --no-decorate
```

```
88086c0 !fixup Add voting persistence services
```

```
6ea370c Add voting api endpoints and actions
```

```
63ba00d Fix internal messaging issue
```

```
30b67b0 Refactor Formatters to be composable
```

```
7bd0873 Add voting persistence services
```

```
$ git rebase -i --autosquash main
```



```
pick 7bd0873 Add voting persistence services
fixup 88086c0 !fixup Add voting persistence services
pick 30b67b0 Refactor Formatters to be composable
pick 63ba00d Fix internal messaging issue
pick 6ea370c Add voting api endpoints and actions

# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
# e, edit <commit> = use commit, but stop for amending
# s, squash <commit> = use commit, but meld into previous commit
# f, fixup <commit> = like "squash", but discard this commit's log message
# x, exec <command> = run command (the rest of the line) using shell
# b, break = stop here (continue rebase later with 'git rebase --continue')
# d, drop <commit> = remove commit
# l, label <label> = label current HEAD with a name
# t, reset <label> = reset HEAD to a label
# m, merge [-C <commit> | -c <commit>] <label> [# <oneline>]
# .      create a merge commit using the original merge commit's
# .      message (or the oneline, if no original merge commit was
# .      specified). Use -c <commit> to reword the commit message.
```

```
$ git log --oneline --no-decorate
```

```
88086c0 !fixup Add voting persistence services
```

```
6ea370c Add voting api endpoints and actions
```

```
63ba00d Fix internal messaging issue
```

```
30b67b0 Refactor Formatters to be composable
```

```
7bd0873 Add voting persistence services
```

```
$ git rebase -i --autosquash main
```

```
Successfully rebased and updated refs/heads/my-branch.
```

```
$ git log --oneline --no-decorate
```

```
3ea570a Add voting api endpoints and actions
```

```
53da90d Fix internal messaging issue
```

```
20c64b8 Refactor Formatters to be composable
```

```
5cc0470 Add voting persistence services
```



```
$
```


○ Commits on September 22, 2023

Add voting api endpoints and actions

 **sebastianfeldmann** committed on September 22, 2023



Verified

 3ea570a 

Fix internal messaging issue

 **sebastianfeldmann** committed on September 22, 2023



Verified

 53da90d 

Refactor Formatters to be composable

 **sebastianfeldmann** committed on September 22, 2023



Verified

 20c64b8 

Add voting persistence services

 **sebastianfeldmann** committed on September 22, 2023

Verified

 3ea570a 



Keep it accessible

Code Review Code

Respect the reviewers time & effort

Every merge/pull request needs a description

Remove unnecessary commits before hand

More than 5 files result in multiple commits

Use fixup commits to incorporate feedback

Every rule can be broken but only for good reasons



DANKE!
THANK YOU!
MERCI!
GRAZIE!
GRACIAS!
DANK JE WEL!

.....