

# How To Improve Code Review?

An introduction to a better methodology

What is wrong? What will be good?

# **MOTIVATION**

# Introduction

Try to improve our code review meeting

Suggest areas for improvement

Rely on the goodwill of people

# Today

1 day by week code review meeting

Commit by  
commit  
analysis



Issue by issue  
analysis



Questions

# Today. What happens?

Meeting is long (~ 2h)

Few people involved

Duplicate discussions

# Tomorrow

Continuously

Use coding  
best practices



Commit  
analysis

1 day by week code review meeting

Issue by issue  
analysis



Code quality  
report



Questions

# Tomorrow. What will happen?

Reduce meeting time

Involve community

Synthetic meeting discussions

How to improve our code review?

# **SUGGESTIONS**



# How to

1

Continuous code review

2

1 day by week code review meeting

# Continuous code review

*"A commit is always associated to an issue"*

A commit answers to a need

Use the **Github commit/issue link syntax**<sup>1</sup>

<sup>1</sup> <https://guides.github.com/features/issues>

# Continuous code review

*"A commit is always formatted"*

Code should be **easy to read**

Use a **standard code format**

# Continuous code review

*"A commit is continuously reviewed by the community"*

Use **Github** notifications

Have a **remark**?  
Add a **comment**

Have a **question**?  
**Note** for the 1 day by week code review meeting

# 1 day by week code review meeting

*"Issue by issue analysis"*

Use the **Github Pulse** tool<sup>1</sup>

Review issue => Review commits and comments

<sup>1</sup> <https://github.com/vertigo17/Cerberus/pulse>

# 1 day by week code review meeting

*"Keep an eye to the time"*

Each meeting part should be **time kepted**

Make **synthetic discussions**. Just important messages

# 1 day by week code review meeting

*"Code quality improvement"*

Use the **Sonar Time Machine** tool<sup>1</sup>

Compare with previous reports

<sup>1</sup> <http://192.168.134.35:8211/sonar/dashboard/index/6695?did=4&period=2>

# 1 day by week code review meeting

*"Additional questions are discussed later"*

Use the **Question time** to ask additional questions

**Too long** discussion?  
Establish a **dedicated meeting**



How to improve our code review?

**IN SHORT**

# Continuous code review

Follow the rules

Look at new commits

Comment remarks, Note questions

Continuously

# 1 day by week code review meeting

20 minutes

Open the Github pulse tool

Discuss about issues

1 minute

Open the Sonar Time Machine tool

Discuss about code quality evolution

10 minutes

Start the question time part

Discuss about additional subjects

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