



Language:

Survey on Code Review in Open Source Projects

Thank you for your interest in our study!

Before you take part in our survey, we would like to explain the purpose of this study and the procedures involved. Please read the following information carefully.

If you have any questions or uncertainties, please feel free to contact [redacted] who is responsible for the current study at the department of [redacted]

TARGET GROUP

Whether you're a long-time maintainer, a new contributor, or an interested browser, we want to hear from you. We're inviting you to take part based on having been active in at least one open source project on GitHub. This survey is open to anyone aged 18 or older who uses, contributes to, or thinks about open source software.

PURPOSE & DURATION

Your participation contributes to the research into understanding code review processes in open source projects at the [redacted]. The results will inform the development of targeted support tools to enhance code understanding and increase code review performance.

The survey will take ca. 15 minutes.

DATA PROTECTION

All data remains anonymous and is used only for scientific purposes. For more details on data protection refer to the note on privacy at the bottom of this site.

By clicking the '**Next**' button you confirm that you agree to the aforementioned conditions and participate in this survey voluntarily. Thank you for your time and your trust!

A note on privacy
This survey is anonymous.
The record of your survey responses does not contain any identifying information about you, unless a specific survey question explicitly asked for it. If you used an identifying token to access this survey, please rest assured that this token will not be stored together with your responses. It is managed in a separate database and will only be updated to indicate whether you did (or did not) complete this survey. There is no way of matching identification tokens with survey responses.



0%

Language: English

Open Source Project Experience

How many years have you been involved in open source projects? (contributing, maintaining or authoring etc.)

ⓘ Only numbers may be entered in this field.

years

What role(s) do you have in open source projects?

ⓘ Check all that apply

- ☐ **Member** *(Definition: user who is a member of the organization that owns the repository)*
- ☐ **Collaborator** *(Definition: user who has been invited to collaborate on the repository)*
- ☐ **Contributor** *(Definition: user who has previously committed to the repository)*
- ☐ **None** *(Definition: user who has no association with the repository)*
- ☐ Other:

How often do you engage in each of the following activities?

	Never	Rarely	Occasionally	Often	Always
Contribute code	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Contribute documentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maintain project (e.g. review and merge contributions, manage releases)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Report or document bugs and unexpected behaviors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Offer ideas for new features	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Perform organizational or administrative functions (e.g. manage mailing lists, organize events)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Code reviews have multiple goals.
Which goals primarily motivate code reviews in the projects that you contribute to?

ⓘ Check all that apply

- ☐ Find defects
- ☐ Code improvement
- ☐ Enforce the project's coding style
- ☐ Share knowledge
- ☐ Document rationale
- ☐ Avoid build fails
- ☐ Share code ownership
- ☐ Find alternative solutions
- ☐ Other:

What do you find particularly challenging about reviewing code?

Cognitive effort is defined as the total amount of cognitive resources including perception, memory and judgement needed to complete a certain task.
Which code review activity requires most cognitive effort in you opinion?

ⓘ Check all that apply

- ☐ Understanding the purpose of the pull request
- ☐ Finding defects
- ☐ Understanding code changes
- ☐ Suggesting an alternative solution
- ☐ Evaluating the pull request usefulness or necessity
- ☐ Other:



25%

Language:

English

Experience with GitHub Suggestions

GitHub suggestions id a feature introduced in 2018 to enable code reviewers to suggest changes to the code. A suggestion can be integrated by a simple commit. An example of a GitHub suggestion is shown below:

Suggested change ⓘ

4

-

return nums[1:len(nums)]

4

+

return nums[1:]

Commit suggestion ▾

Add suggestion to batch

Are you familiar with the "Suggestion" feature on GitHub for Pull Request reviews?

ⓘ Choose one of the following answers

- ☐ No
- ☐ Yes, I have seen it in pull requests but I have not used or received any suggestions
- ☐ Yes, I have received suggestions on previous pull requests
- ☐ Yes, I have used suggestions in my reviews
- ☐ Yes, I have received and used suggestions before

There is a variety of automation tools available on GitHub, for example bots that automate tasks such as assigning a reviewer, ensuring license agreement signing, reporting continuous integration failures, etc.

What do you think of automating code review suggestions? can you name a case in which this can reduce code review effort?



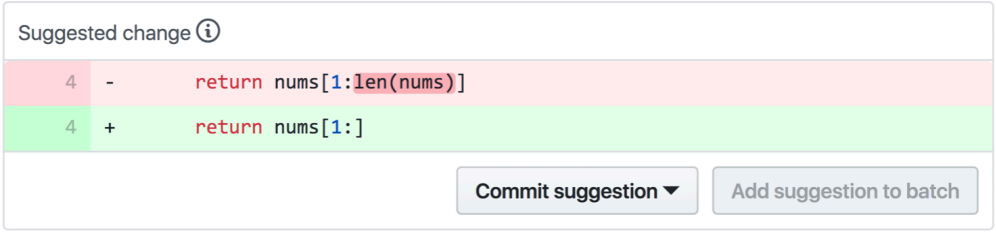
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Have you ever searched suggestions from repository history to help with the following activities?

Check all that apply

- ☐ Find an example for how to implement a code section
- ☐ Learn about project coding conventions
- ☐ Find a suitable reviewer for a pull request
- ☐ Find an expert to help with a similar problem
- ☐ Find rationale for why a code section was written in a certain way
- ☐ Learn how code review is done in a certain project
- ☐ Other:

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ⓘ Choose one of the following answers

- ☐

No
- ☐

Yes, I have seen it in pull requests but I have not used or received any suggestions
- ☒

Yes, I have received suggestions on previous pull requests
- ☐

Yes, I have used suggestions in my reviews
- ☐

Yes, I have received and used suggestions before

Listed below are statements about you code review suggestion usage as a pull request author
Please indicate to which extent you agree or disagree with each statement.

	Strongly disagree	Somewhat disagree	Neither agree nor dis-agree	Somewhat agree	Strongly agree
I frequently receive suggestions in the reviews of the pull requests I create	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more likely to integrate a code review suggestion when the suggesting reviewer is a team member	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more likely to integrate a code review suggestion when the suggesting reviewer is a first time contributor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more likely to integrate a code review suggestion when the suggesting reviewer is a recurrent contributor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more likely to integrate a code review suggestion when the suggesting reviewer is a collaborator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find code review suggestions about documentation changes (e.g. comments) useful	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Have you ever searched suggestions from repository history to help with the following activities?

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- ☐

Find an example for how to implement a code section
- ☐

Learn about project coding conventions
- ☐

Find a suitable reviewer for a pull request
- ☐

Find an expert to help with a similar problem
- ☐

Find rationale for why a code section was written in a certain way
- ☐

Learn how code review is done in a certain project
- ☐

Other:

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I frequently use the suggestion feature in my code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am more likely to use code review suggestions when the author of the pull request is a team member	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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I use suggestions in my reviews to provide solutions to defects in the code	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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I use suggestions in my reviews to explain code rationale to others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I use suggestions in my reviews to point out alternative solutions to others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I use suggestions in my reviews to ensure newcomers stick to the project's coding convention	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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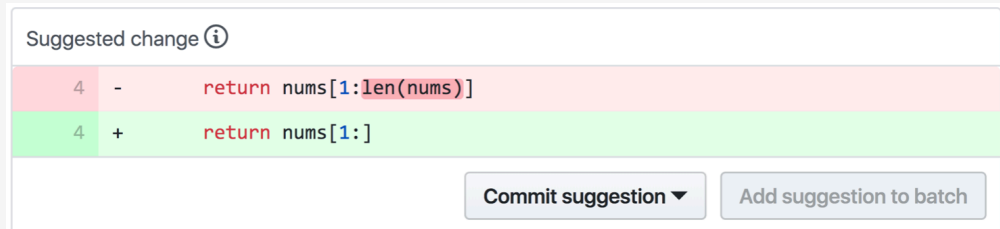


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📌 Check all that apply

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50%

Language:

English

Information Sources for Software Development

How likely are you to consult the following information sources while engaging in the development activities:

Activity 1: Implementing a new feature

Activity 2: Bug Fixing

	Very unlikely	Rather unlikely	Neither likely nor unlikely	Rather likely	Very likely	Very unlikely	Rather unlikely	Neither likely nor unlikely	Rather likely	Very likely
Technical Blogs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q&A web sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
API specification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forum discussions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code example sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experts or team colleagues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Previous or other projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online tutorials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How likely are you to consult the following information sources while engaging in the development activities:

Activity 3: Reviewing code

Activity 4: Refactoring code

	Very unlikely	Rather unlikely	Neither likely nor unlikely	Rather likely	Very likely	Very unlikely	Rather unlikely	Neither likely nor unlikely	Rather likely	Very likely
Technical Blogs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q&A web sites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Experts or team colleagues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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75%

Language: English

Demographics

Please state your age.

Please state your gender.

📘 Choose one of the following answers

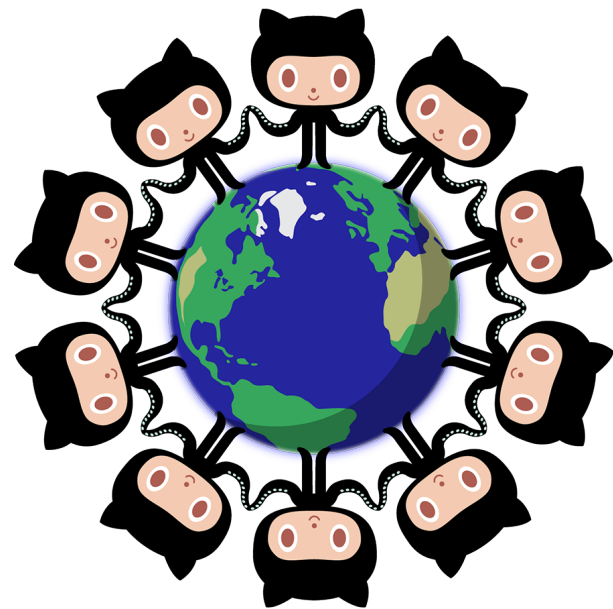
- ☐ Female
- ☐ Male
- ☐ Non-binary or Other
- ☐ Prefer not to say

Do you have further comments or feedback about this survey?

Responsible for the survey: [\[redacted\]](#) | [Legal notice](#) | [Privacy statement](#) | [Note on accessibility](#)



Thank you for your participation!



In the next couple of weeks, we will collect and analyse the the answers of the survey. If you are interested in this topic and want to be keep up to date with the research progress, please feel free to contact us.

For further questions, feedback or suggestions do not hesitate to reach out to [\[redacted\]](#).