

Code Review Survey

Thank you for your interest in participating in our research.

This research is part of a study that aims to understand which factors are relevant for a code review to be more effective. In Modern Code Review, authors submit the changes for review by their peers (i.e. reviewers), without the need for meetings or synchronous participation of the involved people, because this activity is in general supported by specific tools for code annotation and feedback provision, with interaction done in an asynchronous way. The reviewers are invited to contribute, offering feedback in the form of comments, votes or questions, although some abstain themselves or do not provide input in the process. The changes made in the code can be in various sizes in terms of lines of code.

The research is being conducted by Eduardo Witter dos Santos and Prof. Ingrid Nunes of the Instituto de Informática, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brasil.

PARTICIPATION: You will be asked to answer a set of questions about your experience and perceptions with respect to the process of code review in software development. We estimate that it takes 15-20 minutes of your time.

VOLUNTARY PARTICIPATION: You have the right to withdraw from this study at any moment. To withdraw, leave this website before you conclude the survey.

Risks: There are no risks associated with the participation in this study.

CONFIDENTIALITY and ANONYMITY: The web application does not collect any data that allow us to personally identify you. Only the researchers listed about will have normal access to the underlying data. Any other access to this information, in the form of a publication, for example, will have all your personal data removed. Authorities of countries where Google operates, including Brazil, can possibly look for access to the data by legal processes. However, it is unlikely.

DATA CONSERVATION: The data will be stored after the project conclusion for at least 5 years.

If you have any question about this study, please do not hesitate to contact the researchers.

E-mail: ewitter@gmail.com

* Required

1. Indicate if you agree or not in participating in this research. *

Mark only one oval.

- I agree to participate.
- I don't agree and, therefore, prefer not to participate.

Throughout this questionnaire, you will have to answer a set of questions. You will find some terms, which are described below. Please, read the definitions to guarantee that the understanding of these terms are what we expect.

- Authors: who creates or modifies artefacts to be reviewed.

- Reviewers: who review the work made by authors, providing feedback and helping in various forms, such as comments, votes, suggestions of alternative approaches.

Terminology

- Participation: the authors can invite a set of reviewers, from which only a fraction in fact interact - these are the active reviewers. Reviews where all invited reviewers participate have 100% of participation.

- Team: collaborations that work under the same immediate supervision, in the same project.

- Site: a location. We consider to be distinct locations: another floor, another building, another city, or another country.

Participant Data

2. Age *

3. Gender *

Mark only one oval.

Male

Female

I prefer not to inform.

Other: _____

4. Which is your level of education? *

Mark only one oval.

- Primary/Middle school
- High school
- Incomplete undergraduate degree (in Computer Science or similar programs)
- Undergraduate degree (in Computer Science or similar programs)
- Incomplete master degree (in Computer Science or similar programs)
- Master degree (in Computer Science or similar programs)
- Incomplete doctorate degree (in Computer Science or similar programs)
- Doctorate degree (in Computer Science or similar programs)

5. How many years of experience in software development do you have? *

Mark only one oval.

- Less than 2 years
- Between 2 and 5 years
- Between 5 and 10 years
- More than 10 years
- I don't have professional experience.

6. Evaluate your experience in the topic below. *

Mark only one oval per row.

	Very low	Low	Medium	High	Very high
Experience in software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience in code review, as reviewer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience in code review, as author	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience in projects that involve other teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience in projects that involve other sites (of the same team or not)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

About Code Review

7. Evaluate the contribution of code review to each of the items listed below. *

Mark only one oval per row.

	Largely negative	Negative	Neutral	Positive	Largely positive	N/A
Participant learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code maintainability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Product quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delivery time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Development cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

8. Code review contributes to something not listed above? If yes, list the missing item(s) and evaluate its contribution.

9. Evaluate each of the characteristics related to code review below. *

Mark only one oval per row.

	The lower, the better	The closest to a value/interval, the better	The more, the better	N/A
Review duration (in hours, days, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of reviewer comments (by means of suggestions, requests, feedback, questions, votes, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Percentage of participation of invited reviewers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of reviewers that effectively participated in the review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

For the characteristics you selected "The closest to a value/interval, the better", indicate which is this value/interval.

10. Review duration (in hours, days, etc.)

11. Number of reviewer comments (by means of suggestions, requests, feedback, questions, votes, etc.)

12. Percentage of participation of invited reviewers

13. Number of reviewers that effectively participated in the review

Personal Experience in Code Review

Consider here your broad PERSONAL experience, not only in the project or company where you currently work.

14. About the interaction between reviewers and authors: Based on the reviews in which I participated, I noticed that... *

Mark only one oval per row.

	Disagree	Partially disagree	Neutral	Partially agree	Agree	N/A
... some people are more willing and like more to contribute as reviewers than others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... under certain conditions the reviewers are less rigorous to not create conflict with your peers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... reviewers feel less comfortable to rigorous review if they do not personally know the authors.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... there are reviewers that generally provide more relevant feedback and better contribution to the process than others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... reviews of very large artefacts tend to be avoided or postponed by reviewers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... reviews of very large artefacts tend to be done with less rigour.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. With respect to tracking during code review: Based on the reviews in which I participated, I noticed that... *

Mark only one oval per row.

	Disagree	Partially disagree	Neutral	Partially agree	Agree	N/A
... it is frequent to perform a review by e-mail, chat or other electronic communication means, without storing records in the code review tool.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... it is frequent to provide informal feedback related to the reviews, storing incomplete records in the code review tool.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... some reviewers tend to contribute less if the code review is not properly tracked as a performed activity.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. With respect to agility in code review: Based on the reviews in which I participated, I noticed that... *

Mark only one oval per row.

	Disagree	Partially disagree	Neutral	Partially agree	Agree	N/A
... interventions are sometimes needed for the reviewers of other SITES to perform a pending review.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... interventions are sometimes needed for the reviewers of other TEAMS to perform a pending review.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... periodic meetings and interaction among the team members are important for the reviews to be done in adequate time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. About the appreciation of reviewers and the code review as a development activity *

Mark only one oval per row.

	Disagree	Partially disagree	Neutral	Partially agree	Agree	N/A
MY managers notice and value when I contribute with code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managers of other TEAMS notice and value when I contribute with code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managers of teams from other SITES notice and value when I contribute with code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Developers from MY team notice and value when I contribute with code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Developers from other TEAMS notice and value when I contribute with code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Developers from other SITES notice and value when I contribute with code reviews	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Factors that Influence in the Code Review

In each question, tell us about your perception regarding the influence of the three factors below about a specific aspect of code reviews.

18. Influence on review duration (in hours, days, etc.) *

Mark only one oval per row.

	... much slower is the review.	... slower is the review.	... the duration is not affected.	... faster is the review.	... much faster is the review.	N/A
The higher the number of reviewers effectively participating in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of lines of code to be reviewed...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of teams involved in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of sites involved in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19. In case the relationship between the duration of the review and some of the listed items are not directly or inversely proportional, mark the option "N/A" and explain your choice below.

20. Influence on the motivation of peers to be reviewers *

Mark only one oval per row.

	... lower is the reviewer participation.	... much lower is the reviewer participation.	... the reviewer participation is not affected.	... higher is the reviewer participation.	... much higher is the reviewer participation.	N/A
The higher the number of reviewers effectively participating in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of lines of code to be reviewed...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of teams involved in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of sites involved in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. In case the relationship between the motivation of collaborators to be reviewers and some of the listed items are not directly or inversely proportional, mark the option "N/A" and explain your choice below.

22. Influence on the number of review comments (with suggestions, requests, feedback, questions, votes, etc.) generating more interaction among reviewers and authors *

Mark only one oval per row.

	... much lower is the number of comments.	... lower is the number of comments.	... the number of comments is not affected.	... higher is the number of comments.	... much higher is the number of comments.	N/A
The higher the number of reviewers effectively participating in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of lines of code to be reviewed...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of teams involved in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The higher the number of sites involved in the review...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. In case the relationship between the number of reviewer comments and some of the listed items are not directly or inversely proportional, mark the option "N/A" and explain your choice below.

Additional Comments

24. Are there any additional comments you would like to make?

25. If you would like to receive the results of this survey, please, provide your e-mail below.

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