Opening Reproducible Research

Reproducible research affects several research fields such as Biology, Medicine, or Geosciences. In the context of our project, PROJECT NAME , we consider research as reproducible if people (e.g. scientists) other than the author are able to reproduce the same results by executing the same computational steps that are given in a paper. This means that a submission must include all components (e.g. source-code, dataset, configuration) that are necessary to implement the computational steps described in the paper (Claerbout, 1992). Your answers to the following questions help us to gain a better understanding of how to facilitate reproducible research.

The questionnaire will take around 5-10 minutes. The entire dataset will be anonymized and analysed by RESEARCHER#S NAME from the Institute INSTITUTE, COUNTRY. Your participation is voluntary and you can quit the survey at any time without giving reasons. For more information, take a look at PROJECT WEBSITE.

Claerbout, J.F. and Karrenbach, M., 1992. Electronic documents give reproducible research a new meaning. In *SEG Technical Program Expanded Abstracts 1992* (pp. 601-604). Society of Exploration Geophysicists.

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General information

What are you doing in the context of scientific publications?

❗ Check all that apply

- ☐ I write papers.
- ☐ I read papers.
- ☐ Other: [   ]

What are your research fields?

❗ Check all that apply

- ☐ Biology
- ☐ Computer science
- ☐ Economics
- ☐ Geosciences
- ☐ Humanities
- ☐ Law
- ☐ Mathematics
- ☐ Medical science
- ☐ Physics
- ☐ Politics
- ☐ Other: [   ]

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Interaction

Relating to your last five publications, how often did you incorporate the following visualizations?

	never	rarely	sometimes	often	always	No answer
Maps	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Time series	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Histogram	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Pie chart	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Bar chart	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Line chart	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Dot chart	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Scatter plot	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Box-whisker plot	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Function graph	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Tree diagram	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Network diagram	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Flow chart	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Class diagram	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Venn diagram	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Videos	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer
Pictures	○ never	○ rarely	○ sometimes	○ often	○ always	○ No answer

While reading a scientific publication that is related to my own research work, **I** would like to...

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	No answer
change the model used in the paper to see if the results change.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
change one (or more) input variables to the model used in the paper to see if the results are robust to changes in the underlying assumptions.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
leave out some of the data records used in the paper in order to see if the results change.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer

	strongly disagree	disagree	neither agree nor disagree	agree	strongly agree	No answer
compare the results given in the paper with my results after changing, for example, input variables.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
use the analysis method described in the paper with a different dataset.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
see the source-code used to compute the diagrams, images, and tables in the paper.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
download the source-code used to compute the diagrams, images, and tables in the paper.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
see the datasets underlying the paper.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
download the datasets underlying the paper.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
use the datasets underlying the paper with a different analysis method.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
interact with figures in the paper, e.g. zooming into diagrams or panning on maps.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
easily jump to other sources cited in the paper.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer
do nothing more than reading the paper.	○ strongly disagree	○ disagree	○ neither agree nor disagree	○ agree	○ strongly agree	○ No answer

It would be useful for my research work, if I could directly search for and get immediate access to...

	strongly disagree	disagree	neither disagree nor agree	agree	strongly agree	No answer
the source-code used in scientific publications.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer
datasets used in scientific publications.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer
methods used in scientific publications.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer
research questions formulated in scientific publications.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer
hypotheses formulated in scientific publications.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer

For my research work I would like to search for other scientific publications on the web by using...

	strongly disagree	disagree	neither disagree nor agree	agree	strongly agree	No answer
spatial properties or constraints, e.g. a spatial extent.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer
temporal properties or constraints, e.g. a period of time.	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer
thematic properties or constraints, e.g. "climate change".	○ strongly disagree	○ disagree	○ neither disagree nor agree	○ agree	○ strongly agree	○ No answer

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Demographic information

Demographic Information

Please tell us your age.

❶ Choose one of the following answers

- ○ 18 - 25
- ○ 26 - 35
- ○ 36 - 45
- ○ 46 - 55
- ○ 56 - 65
- ○ 66 +
- ○ No answer

Please tell us your gender.

❶ Choose one of the following answers

- ○ Female
- ○ Male
- ○ Other
- ○ No answer

Years in research.

❶ Only numbers may be entered in this field.

If you would like to keep informed about the project or maybe become involved, for example, by providing one of your papers to make it reproducible or by participating in further studies, we would appreciate if you enter your email address in the field below.

For more information, see http://o2r.info/ (http://o2r.info/).

Do you have any further comments?

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