

Interactive comment on “LoopStructural 1.0: Time aware geological modelling” by Lachlan Grose et al.

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Following the comments on the manuscript, both reviewers and myself see value in the work. The senior editor notes compliance issues with GMD standards for open-source software and its connection with the publication, which indeed I should have caught, and which should be straightforward to address. The first reviewer gives minor comments and a positive review, whereas the second reviewer gives a detailed, earnest, and negative review, which indicates significant difficulties understanding the software libraries used and actually installing and testing LoopStructural. Based on the detailed comments of Reviewer 2, I suggest that you revise both the text of your document and the users' manual to ensure that your code is usable.

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Following Reviewer 2's remarks, I tried to reproduce their issues on installation. I am using Ubuntu.

- `pip3 install LoopStructural: Success. Perhaps test Python 2/3 compatibility`
- `But when I imported Loop: ModuleNotFoundError: No module named 'skimage'`
- `After apt installing skimage: ImportError: cannot import name 'marching_cubes' from 'skimage.measure'`

At this point, it started to seem to me that there are issues related to dependency versions and to the indicated dependencies employed in your PyPI repository. When ready for publication, such installations should obviously be smooth; I am sure that they are on your machines, but I suggest that you reach out to colleagues to test installation on a range of computers and OS'es while preparing your resubmission.

Best of luck in your improvements, and I look forward to viewing your revised paper and code.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-336>, 2020.

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