

Science outreach and documentation on the cloud

A brief overview of the tools behind OGGM-Edu
holoviz, sphinx, readthedocs, mybinder, repo2docker, jupyterhub...

The OGGM “ecosystem”

- <http://oggm.org>
 - <http://docs.oggm.org>
 - <http://oggm.org/tutorials>
 - <https://github.com/OGGM>
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- <https://edu.oggm.org>
 - <https://oggm.org/oggm-edu-notebooks>



Demo

- OGGM-Edu notebooks
- OGGM-Edu interactive apps



Interested in doing something similar for your project?

Take home

it's not that complicated, now that others have done it and smoothed off some of the rough edges.



jupyter {book}



Model / tool documentation

Fundamentals:

- LICENSE
- Code repository (github / gitlab)
- Continuous integration (pytest + github actions / gitlab CI)
- Inline documentation

Nice to have:

- Tutorials: [notebooks](#) + mybinder (+ [jupyter-book for rendering](#))
- Online documentation (sphinx + readthedocs - can be succinct)
- Docker environments (for reproducibility and HPC)

MyBinder

Basic intro

Some pointers to make your life easier:

- <https://discourse.jupyter.org/t/reproducible-binder-environments-with-repo2-docker-dockerhub-and-nbgitpuller/1823>
- https://edu.oggm.org/en/latest/user_content.html

On OGGM Edu:

- <https://github.com/OGGM/r2d>
- <https://github.com/OGGM/binder>

Interactive apps

That's more of a project.

Pointers:

- <https://holoviz.org>

On OGGM Edu:

- <https://github.com/OGGM/glacier-gallery> (no server needed)
- <https://github.com/OGGM/world-glacier-explorer>
- [https://github.com/OGGM/glacier simulator](https://github.com/OGGM/glacier_simulator)