

Do Open Science

Dr. Julien Colomb, John Tennant and others

About this document

The document is meant to be read as a **pdf**, while it is written with **rmarkdown**.

I am looking for help: co-authors, reviewers and commentators are welcome, see <https://github.com/jcolomb/doopenscience.git> to see how you could help.

food for thoughts

check the openscienceskills document (another github repo of J colomb)

Audience

PhD students with no coding skills ?

Topics

- Version control (git)
- Collaborate (github)

how

- getting contest (best solution to a problem)

Open data has no cost

Organizing data for it to be shared represents a lot of work. This is often presented as an extra cost for scientists, there would be a cost to share own's data. I do not agree: there is no cost in making own's data sharable, but there is a time **investment**. An analogy will best show my point: The very basic rule in a molecular biology lab is: tidy your bench, make sure that your solutions, samples and equipment are kept in the right place and temperature and that the equipment is well maintained. It will save you time for your next experiment (finding the right reagents and your tools). The same apply for data: **tidy your data files**, make sure that your data is kept in the right place and format and that your analysis tools are well maintained.

The amount of time saved by organizing your data overwhelm by far the time invested to organize it. Everybody agrees that the extra cost to share organized data is tiny. In conclusion, Open data is not costly, it is only a question of training and getting the right habits.

You won't let your
bench messy.



Why do you let your
files be?



Tidy up you data and analysis code!

That's just efficient scientific practice