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Open data with public repositories

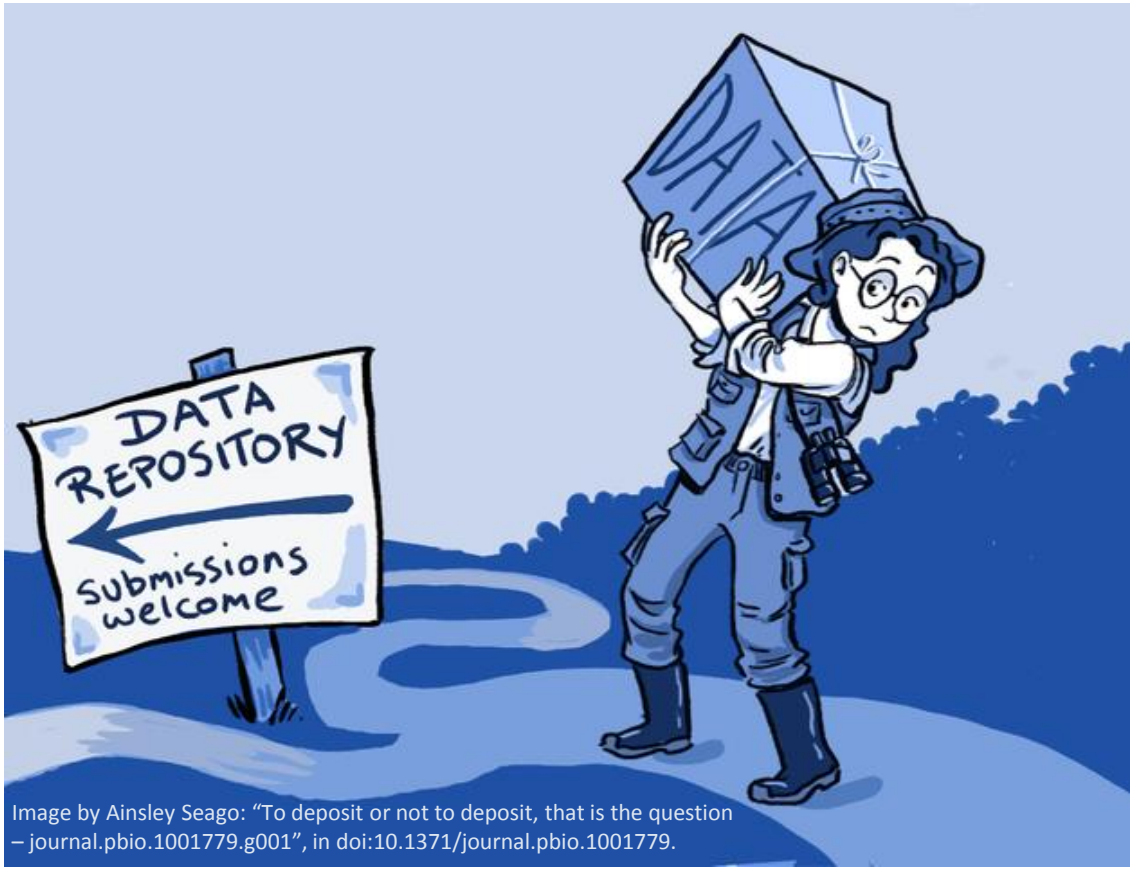

Image by Ainsley Seago: "To deposit or not to deposit, that is the question – journal.pbio.1001779.g001", in doi:10.1371/journal.pbio.1001779.

Grippa Taïs - October 23, 2019

Mini Open Science Fair: from researchers to researchers

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and largely inspired from Nielsen, Lars Holm. (2017, May). Sharing your data and software on Zenodo. Zenodo. http://doi.org/10.5281/zenodo.802100

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Why sharing your data ?

- Data is keystone of research!
- If you want to go for open-research, you need to share your data
  - Journals are developing ‘open’ policy and push authors for making their data available
  - Allow a better scientific peer (open-)review
  - Allow other researcher to attempt exact replication of your results => Speed up research
  - BUT: be sure you’re allowed to share (license, rights, GDPR…)

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Cite your input data and your results directly in your publications!

Appendix B

Hereafter are referenced the dataset, pieces of computer code, and processing chains used in this research. These are all made available under Creative Common License (CC-BY).

The land-cover maps used as input data for the computation of landscape metrics:

Ouagadougou land-cover map [62] is referenced and available on **https://doi.org/10.5281/zenodo.1290653**. The version used in this research is referred as v1.0 (10.5281/zenodo.1290654).
Dakar land-cover map [63] is referenced and available on **https://doi.org/10.5281/zenodo.1290799**. The version used in this research is referred as v1.0 (10.5281/zenodo.1290800).

The results of the land use classification and the street blocks extracted:

Ouagadougou land-use map [64] is referenced and available on **https://doi.org/10.5281/zenodo.1291384**. The version produced in this research is referred as v1.0 (10.5281/zenodo.1291385).
Dakar land-use map [65] is referenced and available on **https://doi.org/10.5281/zenodo.1291388**. The version produced in this research is referred as v1.0 (10.5281/zenodo.1291389).

The R code used for the feature selection and RF classification steps, belonging to the dataset of features used and training/test sets, is available in the following Github repository: **https://github.com/ANAGEO/R_stuff/tree/master/VSURF_FeatureSelection_RF_Optimization**.

The semiautomated processing chain for extraction of street block from OSM using PostGIS is available in the following Github repository: **https://github.com/ANAGEO/OSM_Streetblocks_extraction**.

The semiautomated processing chain for computation of spatial metrics using GRASS GIS is available in the following Github repository: **https://github.com/tgrippa/Street_blocks_features_computation**.

The piece of Python code used for computing uncertainty form the probabilistic output of RF: **https://github.com/ANAGEO/RFprob_to_uncertainty**.

Grippa 2018, https://doi.org/10.3390/ijgi7070246

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What is zenodo

- Zenodo is an interdisciplinary open data repository service maintained by CERN, Geneva.
- Launched in 2013 under the OpenAIRE project (EC), in order to support the EU Open Data policy.
- Data is stored in the CERN cloud infrastructure.

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One among other

- There exists (many) other platforms to store your datasets publicly. Another one could better fit you needs.

- Check on =>

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Zenodo dataset

- You can create as many dataset as you need. E.g., one for each project or product.
- You can store up to 50Gb of data in one single Zenodo dataset. Data could be any file format.
- You have to provide different metadata to create your dataset.
- Different kind of access are possible.

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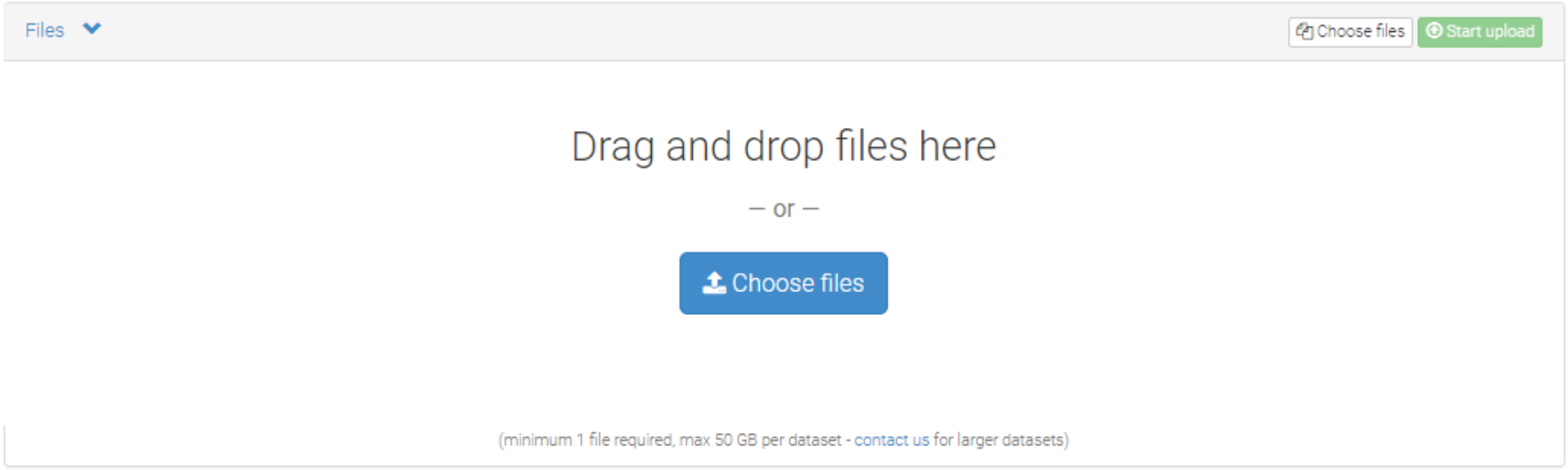

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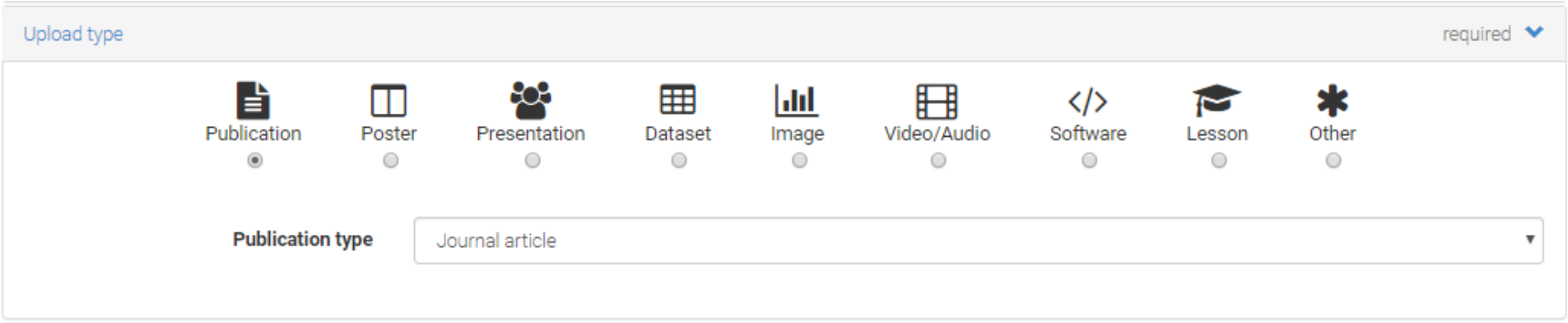

Basic information required

Digital Object Identifier

e.g. 10.1234/foo.bar

Optional. Did your publisher already assign a DOI to your upload? If not, leave the field empty and we will register a new DOI for you. A DOI allows others to easily and unambiguously cite your upload. Please note that it is NOT possible to edit a Zenodo DOI once it has been registered by us, while it is always possible to edit a custom DOI.

Reserve DOI

Publication date *

2019-10-16

Required. Format: YYYY-MM-DD. In case your upload was already published elsewhere, please use the date of first publication.

Title *

Required.

Authors *

Family name, given names | Affiliation | ORCID (e.g.: 0000-0002-1825-0097)

Optional.

+ Add another author

Description *

Source

Required.

Version

Optional. Mostly relevant for software and dataset uploads. Any string will be accepted, but semantically-versioned tag is recommended.
See semver.org for more information on semantic versioning.

Language

e.g.: 'eng', 'fr' or 'Polish'

Optional. Primary language of the record. Start by typing the language's common name in English, or its ISO 639 code (two or three-letter code).
See ISO 639 language codes list for more information.

Keywords

+ Add another keyword

Additional notes

Optional.

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License required

Access right *

- Open Access
- Embargoed Access
- Restricted Access
- Closed Access

Required. Open access uploads have considerably higher visibility on Zenodo.

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Required. Selected license applies to all of your files displayed on the top of the form. If you want to upload some of your files under different licenses, please do so in separate uploads. If you cannot find the license you're looking for, include a relevant LICENSE file in your record and choose one of the *Other* licenses available (*Other (Open)*, *Other (Attribution)*, etc.). The supported licenses in the list are harvested from opendefinition.org and spdx.org. If you think that a license is missing from the list, please contact us.

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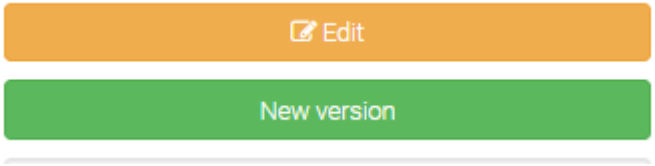
Versions of dataset

- Be careful that files are not editable on Zenodo. Once you put it on it is impossible to change it or to remove it.



- If you want, you can add a new version of your dataset but the original one will still be available.
- You can edit metadata as you want.

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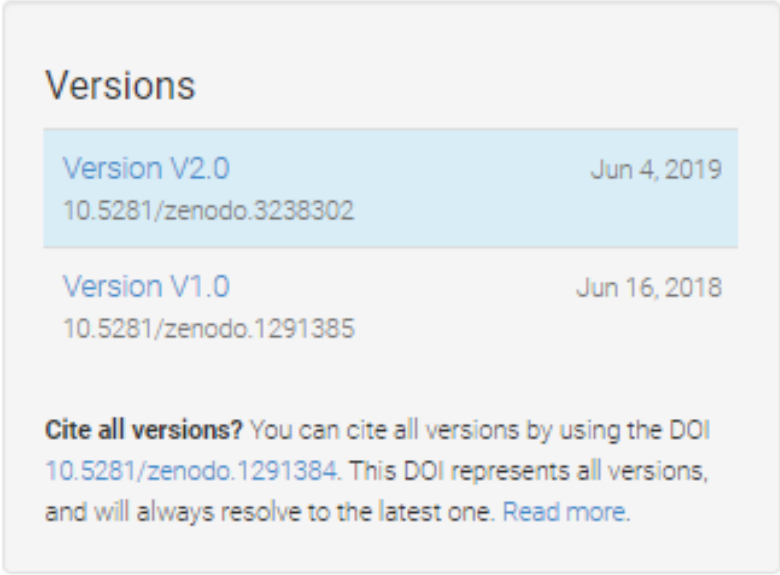
DOI and versioning

- A global digital object identifier (DOI) is automatically assigned to each Zenodo repository.
- A Zenodo repository can have multiple version and each version its own DOI



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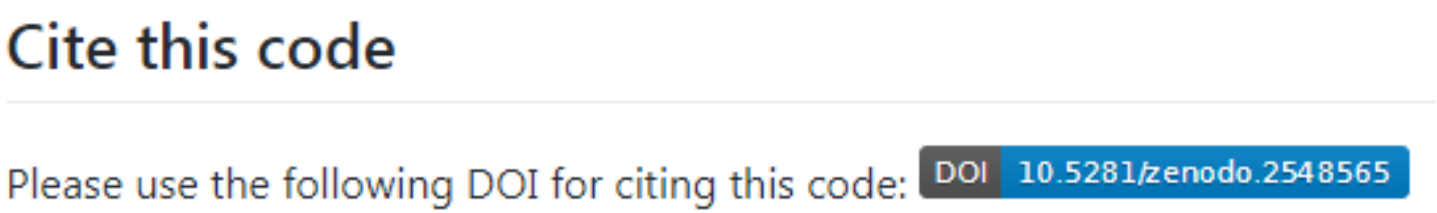
Github code citation

- Once your code is on Github, use Zenodo to make it citable:



- You can create a general DOI for a **Github** repository and specific DOI for different versions of your code.
- More info => here

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More information

- Official website:
  - About
  - FAQ
- Official presentation from which this presentation is largely inspired:

  https://zenodo.org/record/802100#.XaWcMlUzaM8