4TU.ResearchData challenges & best practices

Madeleine de Smaele 26 April 2022



What is 4TU.ResearchData?

- International data repository https://data.4tu.nl/portal
- Available to researchers globally
- Founded in 2010



UNIVERSITY OF TWENTE.

4TU. Federation











Science

Engineering

Design





Access



Preservation





Two challenges / use cases:

1. Software curation/preservation

From data curation to software curation & preservation; enhancing reproducibility and sustainability of data AND software

2. Sharing confidential information



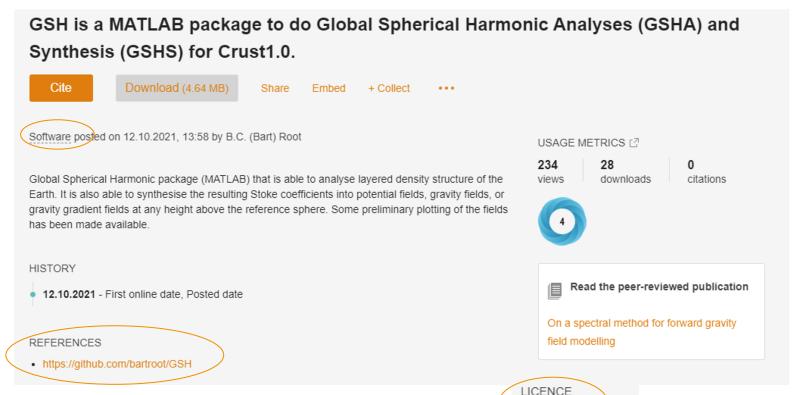
Integration with GitHub and GitLab

- a smooth procedure to publish a snapshot of your code/software
- Opportunity to connect to both gitlab.com and to local GitLab instance
- User guidance available





Example software item in 4TU.ResearchData





Software licences

Public Domain Dedication (CC0)

MIT License

BSD 3-Clause

Apache Licence 2

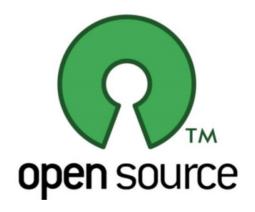
European Union Public License, version 1.2 (EUPL-1.2)

GNU General Public Licence version 2 (GPL-2.0)

GNU General Public Licence version 3 (GPL 3.0+)

GNU Lesser General Public License (LGPL-3.0)

GNU Affero General Public License (AGPL-3.0)





Sharing confidential information

Confidential data is defined as any information that is not intended for public dissemination.

- personal data (information about an identified or identifiable natural person)
- national security data (e.g. nuclear research)
- data falling under export control regulations
- confidential data received from commercial, or other external partners
- data related to competitive advantage (e.g. patent, IP)
- data which could lead to reputation/brand damage (e.g. climate change, personal information, animal research)
- politically-sensitive data (e.g. research commissioned by public authorities, research on societal issues)



Restricted access

When uploading a restricted use dataset to 4TU.ResearchData:

- Select the 'restrictive licence'
- Indicate that the files are restricted
- Indicate the reason why the files are restricted
- Allow anybody to request access to the embargoed files and indicate <u>how</u> users can request access to your data files
- Create an End-User Licence Agreement (EULA) which clarifies what users can and cannot do with the dataset.

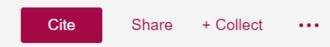


File(s) under permanent embargo

Reason: Data files contain sensitive information that can't be disclosed

Request access to files

Research on Arctica



Version 2 ✓ Dataset posted on 04.02.2022, 12:40 by Madeleine de Smaele

Test description

USAGE METRICS ☑

29 0 0 0 citations



Restrictive licence

- Applied to datasets that contain personal or other confidential information and restrictive conditions for re-use apply
- an End-User Licence Agreement (EULA) should be created by the dataset author when sharing confidential data with specific individuals is allowed
- Process has been set up together with members of the 4TU.ResearchData Community
 WG on Privacy & GDPR
- User guidance on how to apply restricted access is available



Discussion / questions

What are your thoughts?



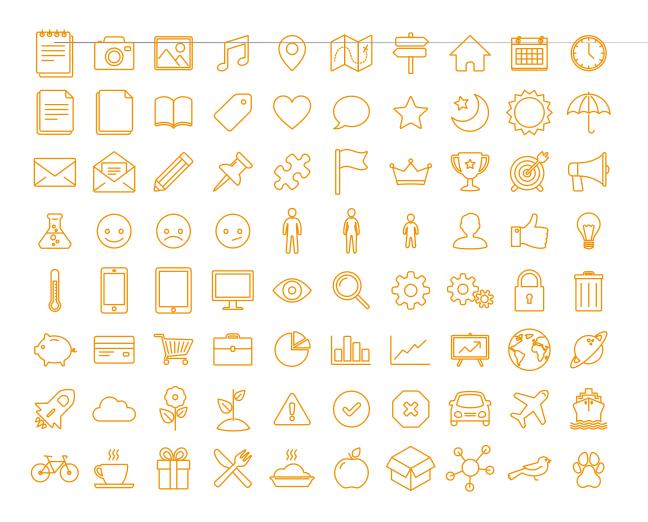












SlidesCarnival icons are editable shapes.

This means that you can:

- Resize them without losing quality.
- Change fill color and opacity.
- Change line color, width and style.

Isn't that nice?:)

Examples:



Find more icons at



