

How to spend less time on data management and more on the science: Open tools for efficient data organization, reproducible workflows, and collaboration

LUDWIG-**MAXIMILIANS-**UNIVERSITÄT

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[1] Grewe et al (2011), doi:10.3389/fninf.2011.00016

[2] https://terminologies.g-node.org

[4] https://github.com/G-Node/odml-ui

[8] http://neuralensemble.org/elephant

[9] http://bendalab.github.io/NixView

[5] https://github.com/INM-6/python-odmltable

[3] https://templates.g-node.org

[6] http://g-node.github.io/nix

[10] https://gin.g-node.org

[11] https://git-scm.com

[7] http://neuralensemble.org/neo

Linux, macOS and Windows

data and metadata of NIX files

Built-in plotting and figure export

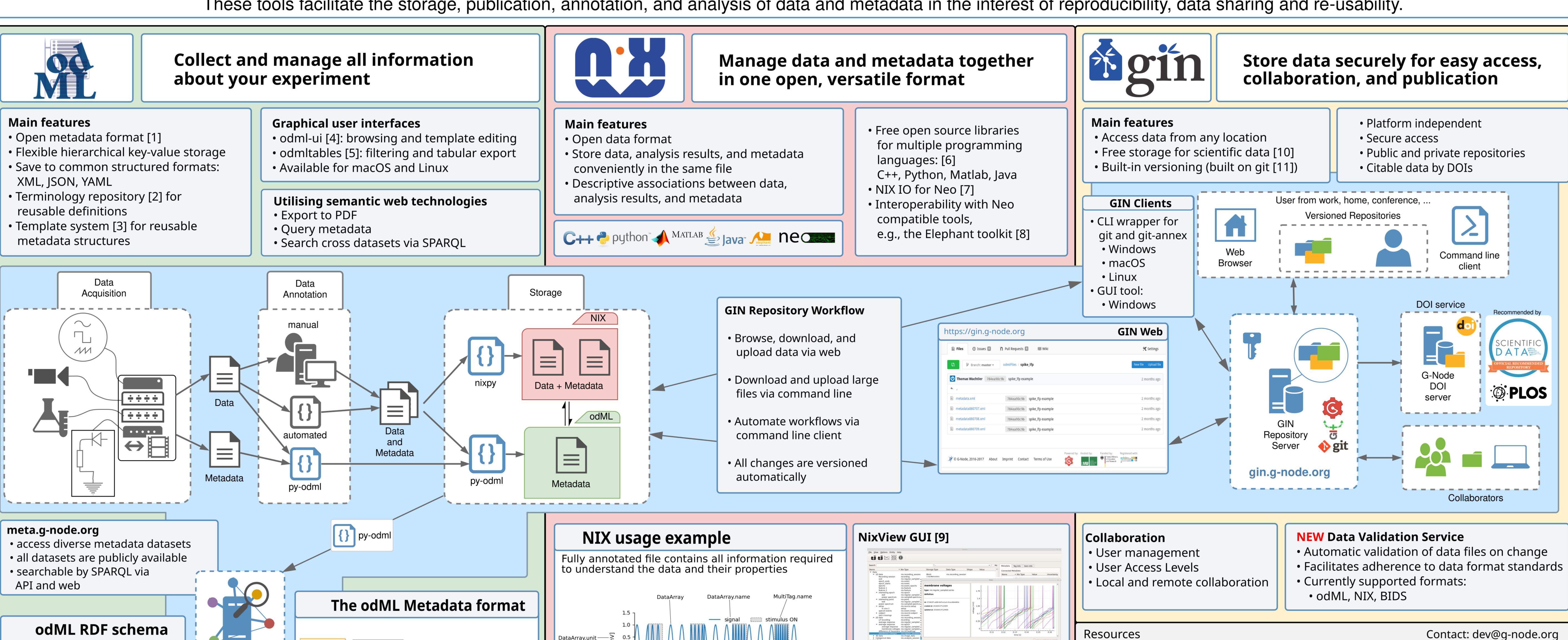
Convenient exploration of

Browse raw data via tabular

display and export to CSV

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Maintaining reproducible data workflows while keeping data organized, annotated, backed up, and easily accessible from within and outside the lab is a key challenge in research. To minimize the time and effort scientists spend on these tasks, we provide a suite of tools designed for comprehensive and versioned management of scientific data. These tools facilitate the storage, publication, annotation, and analysis of data and metadata in the interest of reproducibility, data sharing and re-usability.



DataArray.unit —

DataArray.label—

+ author: String + version: String + date: DateTime

+ repository: URI

+ sections: Section[]

public SPARQL

meta.g-node.org

Queries