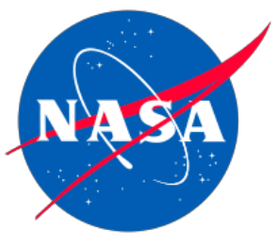
Asclepias - Astrophysics Data System

Edwin Henneken & the ADS Team

URSSI Workshop - January 2019



astrophysics data system

article metadata (references)
(XML, LaTeX, ASCII, …)

DataCite

pull metadata
for DOI not in ADS

reference processing pipeline

references with DOIs

citation capture pipeline

matched

is this software?

```
<resourceType
resourceTypeGeneral=
"Software">
```

send event data

Asclepias Broker

new?

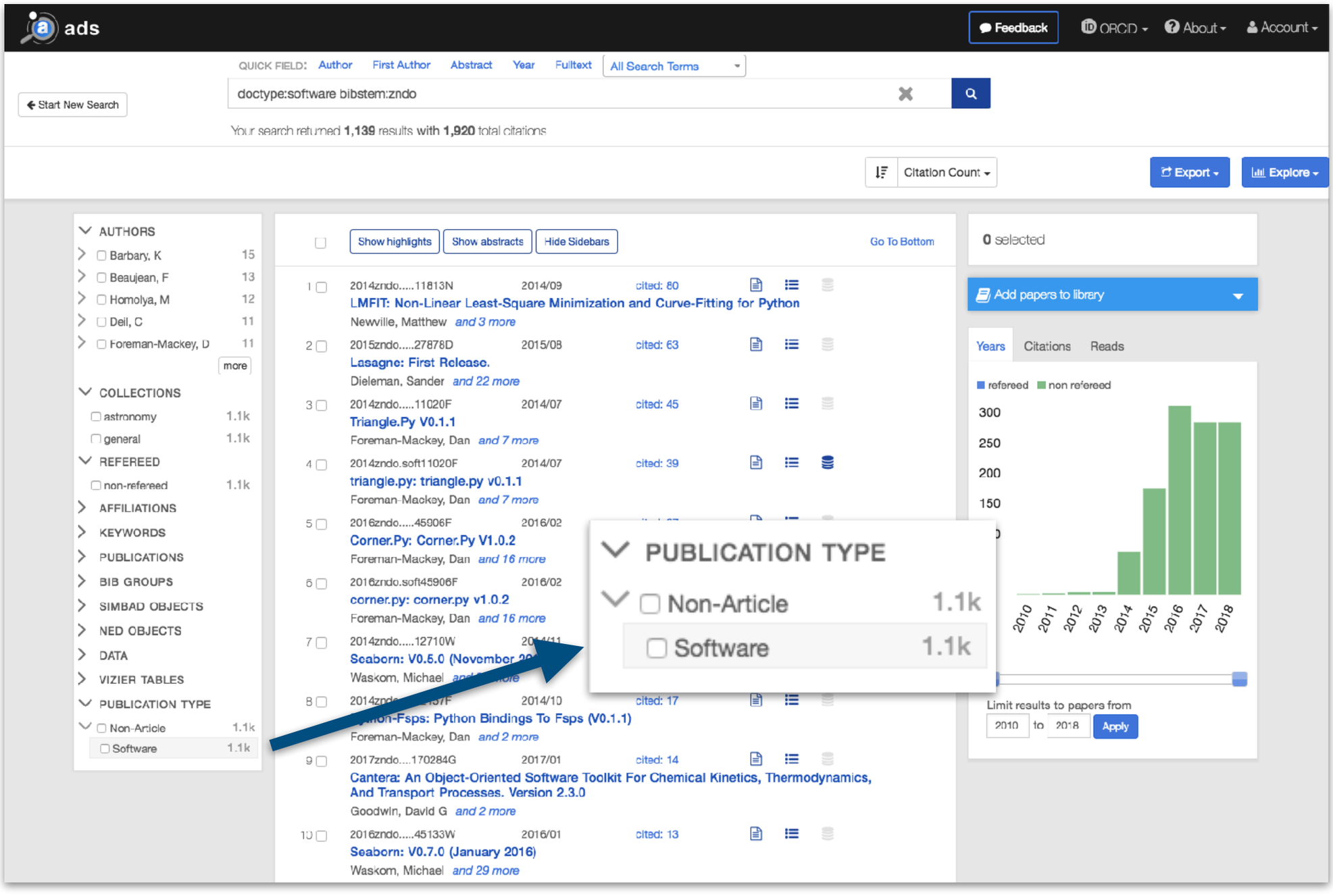
Y

create record using DataCite metadata

ADS Citation Index

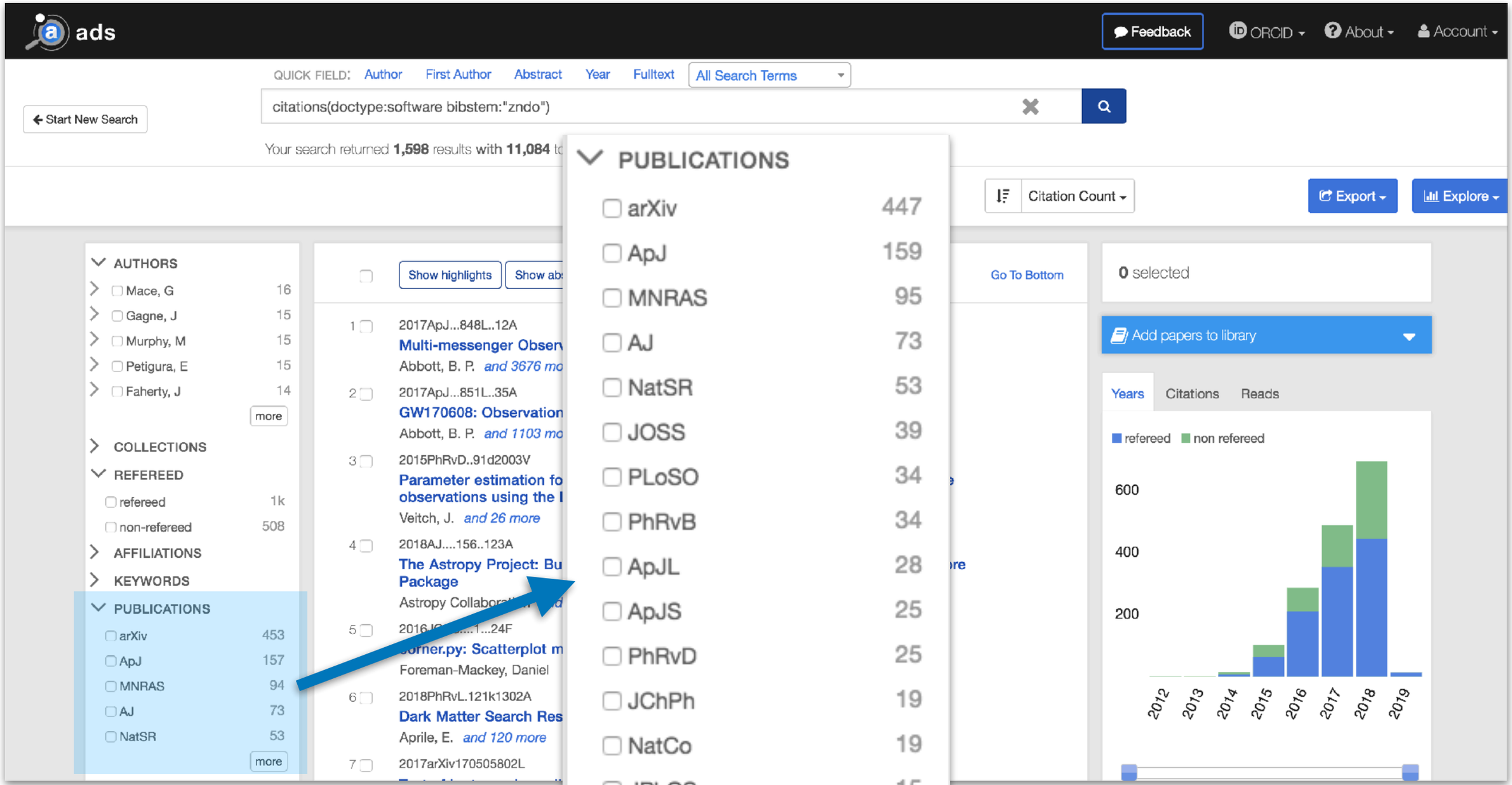
First results: 1139 records with 2399 citations

query: **`doctype:software bibstem:zndo`**



Where are the citations coming from?

query: **`citations(doctype:software bibstem:zndo)`**



VIEW

Abstract

Citations (19)

References

Co-Reads

Volume Content

Graphics

Metrics

Export

Seaborn: V0.5.0 (November 2014)

Hide affiliations | Show all authors

Waskom, Michael (*Stanford University*); Botvinnik, Olga (*UCSD*); Hobson, Paul (-); Cole, John B (-); Halchenko, Yaroslav (*Dartmouth College*); Hoyer, Stephan (*The Climate Corporation*); Miles, Alistair (*University of Oxford*); Augspurger, Tom (-); Yarkoni, Tal (*University of Texas*); Megies, Tobias (-); Coelho, Luis Pedro (*European Molecular Biology Laboratory (EMBL)*); Wehner, Daniel (*http://dawehner.github.com/*); cynddl (-); Ziegler, Erik (*Centre de Recherches du Cyclotron, Université de Liège*); diego0020 (-); Zaytsev, Yury V (*Bugre Porter and the Order of Linus*); Hoppe, Travis (*National Institutes of Health (NIH), NIDDK*); Seabold, Skipper (*American University*); Cloud, Phillip (*Continuum Analytics*); Koskinen, Miikka (-) ; ...

This is a major release from 0.4. Highlights include new functions for plotting heatmaps, possibly while applying clustering algorithms to discover structured relationships. These functions are complemented by new custom colormap functions and a full set of IPython widgets that allow interactive selection of colormap parameters. The palette tutorial has been rewritten to cover these new tools and more generally provide guidance on how to use color in visualizations. There are also a number of smaller changes and bugfixes. Plotting functions Added the heatmap function for visualizing a matrix of data by color-encoding the values. See the docs for more information. Added the clustermap function for clustering and visualizing a matrix of data, with options to label individual rows and columns by colors. See the docs for more information. This work was lead by Olga Botvinnik. lmplot and pairplot get a new keyword argument, markers. This can be a single kind of marker or a list of different markers for each level of the hue variable. Using different markers for different hues should let plots be more comprehensible when reproduced to black-and-white (i.e. when printed). See the github pull request for examples. More generally, there is a new keyword argument in FacetGrid and PairGrid, hue_kws. This similarly lets plot aesthetics vary across the levels of the hue variable, but more flexibily. hue_kws should be a dictionary that maps the name of keyword arguments to lists of values that are as long as the number of levels of the hue variable.

...vs has been added to FacetGrid. This allows for faceted plots with custom

Examples of citations we cannot capture

From *A&A 613, A62 (2018)* :

Droettboom, M., Caswell, T. A., Hunter, J., et al. 2017, https://zenodo.org/record/1098480

From *IEEE Transactions on Image Processing 28, 1837 (2019)* :

67. *ECO Code*, 2018, [online] Available: https://github.com/martin-danelljan/ECO.

Show Context TRY HARVARD LIBRARY Google Scholar

Example of ambiguous citation:

From *ApJ 866, 67 (2018)* :

Foreman-Mackey, D. 2016, JOSS, 24, doi:10.5281/zenodo.45906

Asclepias - Zenodo

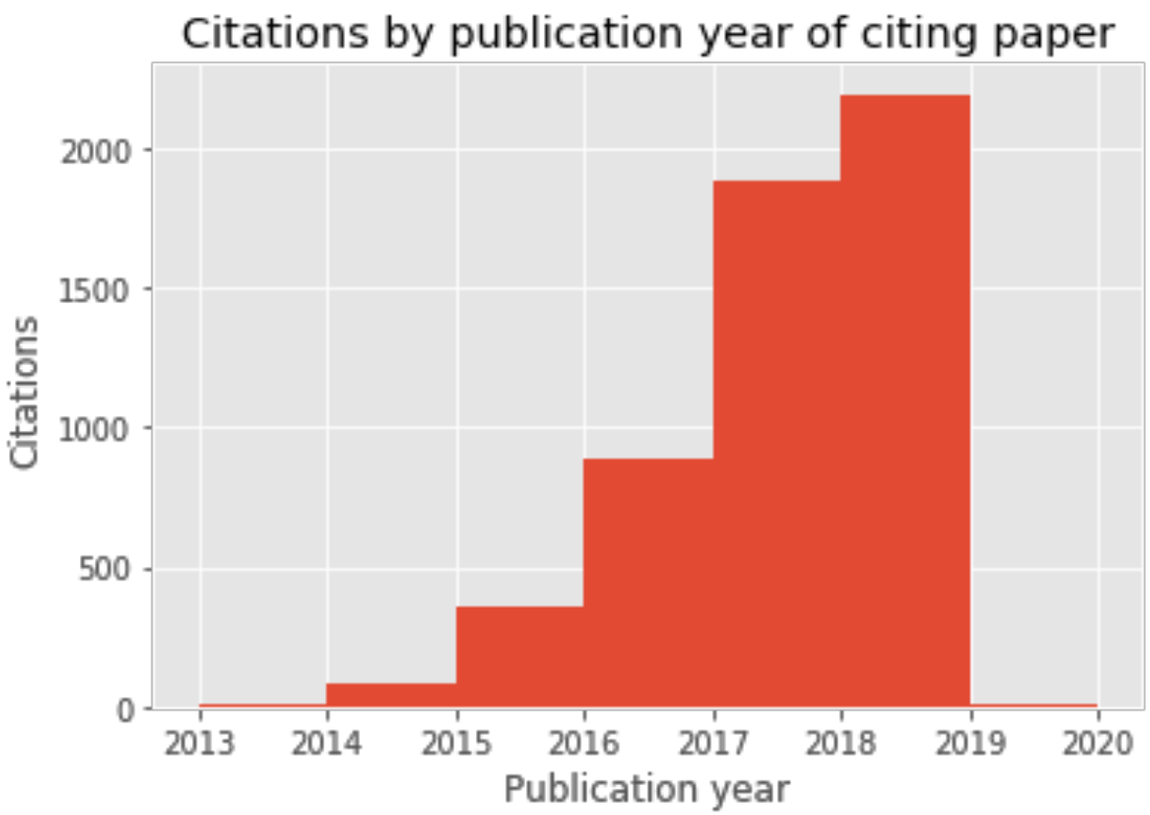
Lars Holm Nielsen & the Zenodo Team

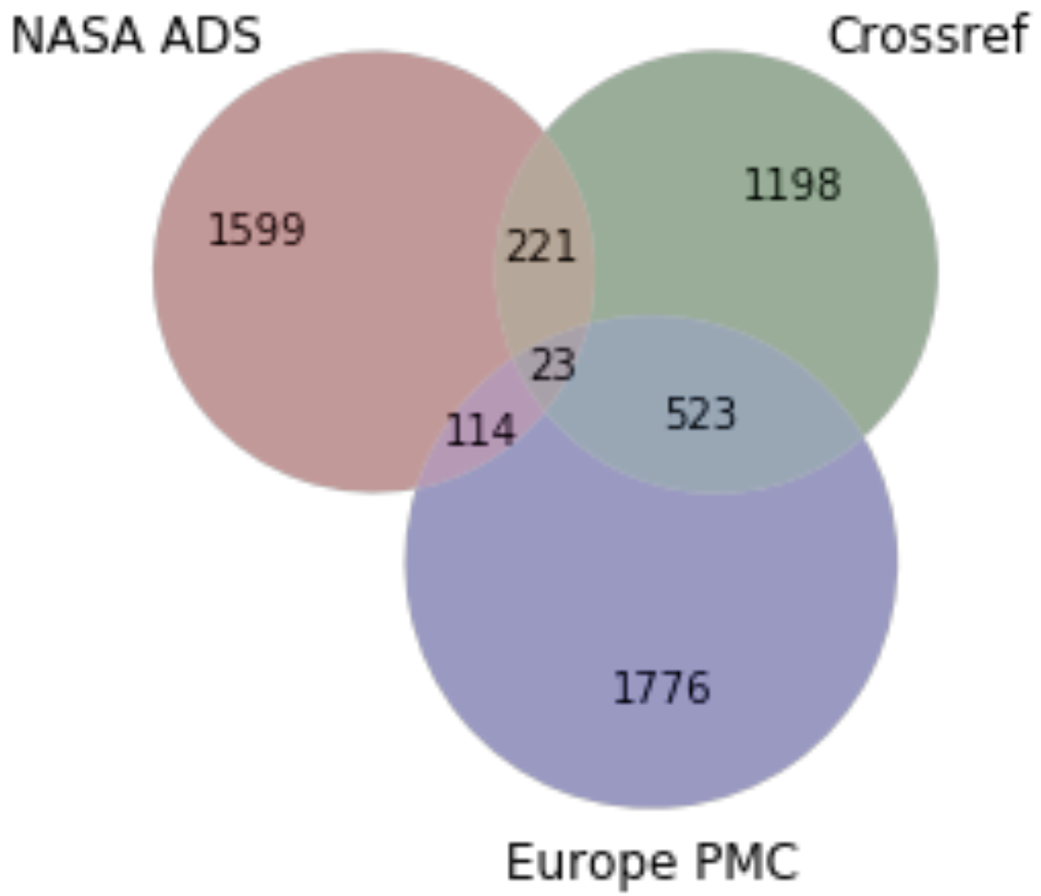
URSSI Workshop - January 2019

5400 (almost) deduplicated citations to Zenodo DOIs

Disclaimer: Some data cleaning still in progress

Where do you find citations to **Zenodo DOIs**? (1/2)

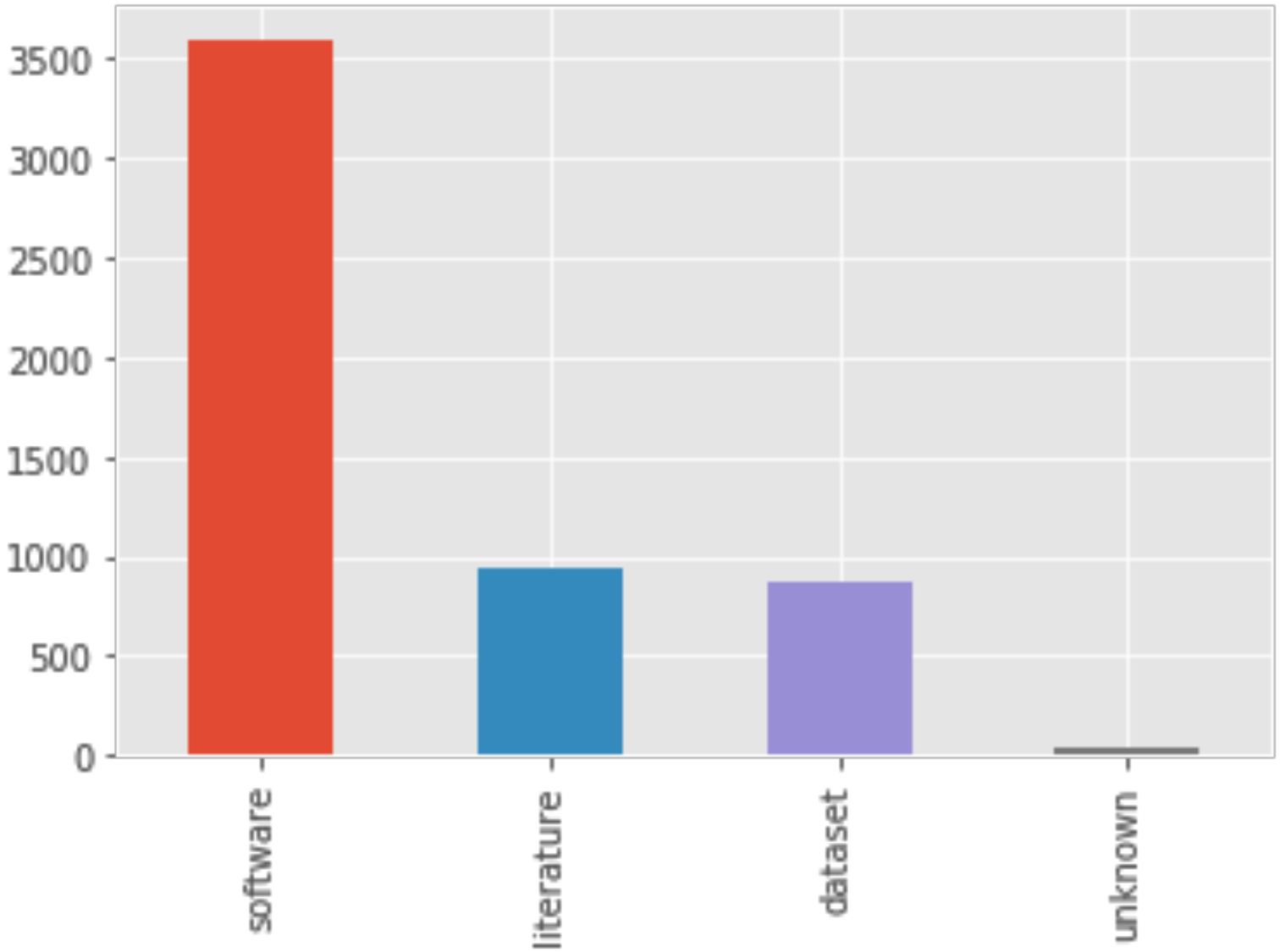




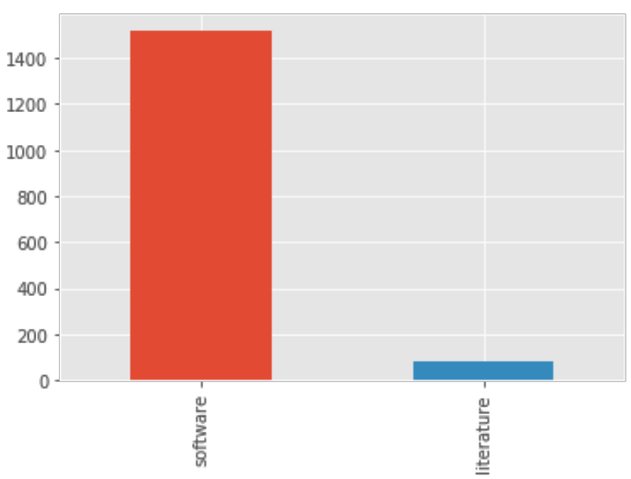
Where do you find citations to **Zenodo DOIs**? (2/2)

Springer Nature	747
F1000 Research, Ltd.	541
arXiv e-prints	535
American Astronomical Society	348
Public Library of Science (PLoS)	303
Pensoft Publishers	258
Oxford University Press (OUP)	248
Frontiers Media SA	172
PeerJ	167
Elsevier BV	166
Springer Nature America, Inc	159
Wiley	145
IOP Publishing	145
MDPI AG	128
Springer International Publishing	127
American Physical Society (APS)	117
American Chemical Society (ACS)	102
American Geophysical Union (AGU)	91
The Royal Society	74
Copernicus GmbH	70
Informa UK Limited	62
The Open Journal	58
Proceedings of the National Academy of Sciences	57
eLife Sciences Publications, Ltd	56
Royal Society of Chemistry (RSC)	52
AIP Publishing	51
International Union of Crystallography (IUCr)	22
Genetics Society of America	21
American Association for the Advancement of Science (AAAS)	18
American Society for Microbiology	18

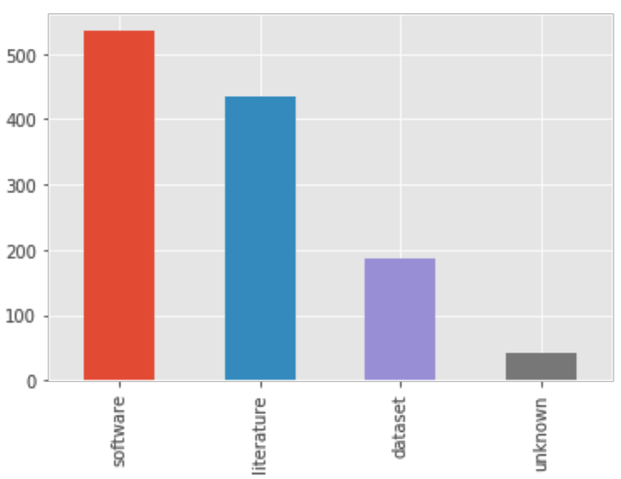
What is being cited?



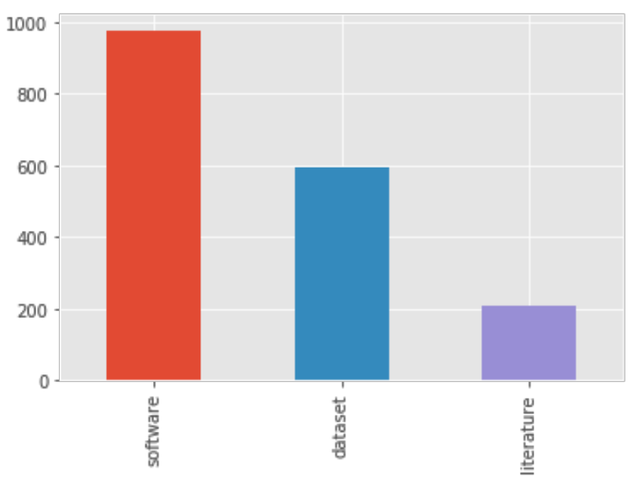
NASA ADS



Crossref



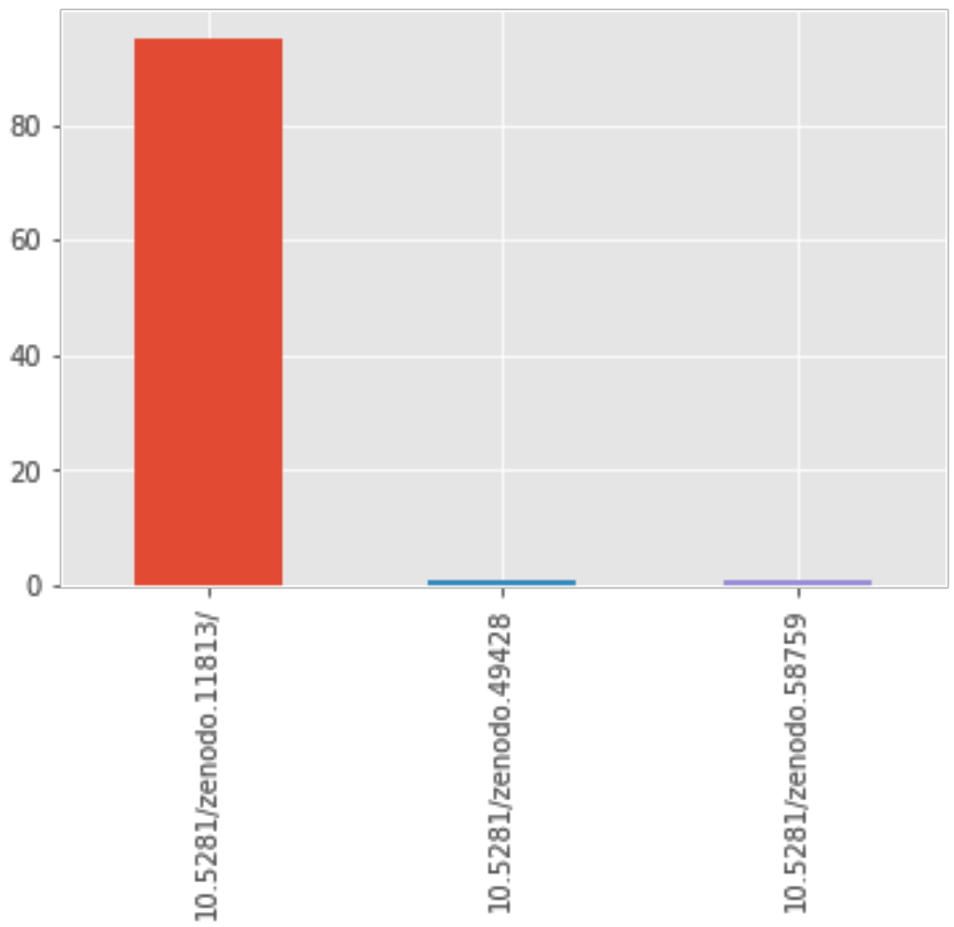
EuropePMC

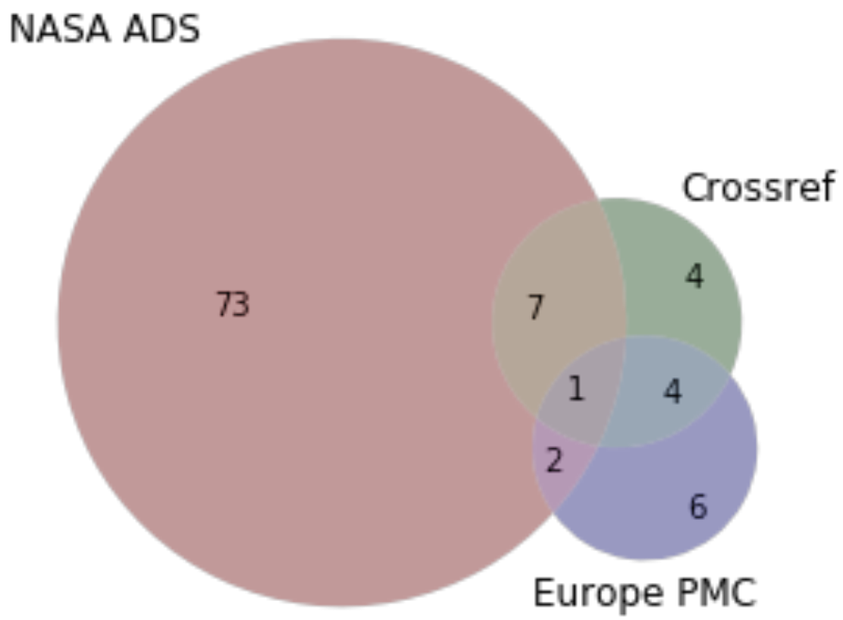


What is the impact of citation recommendations? (1/4)

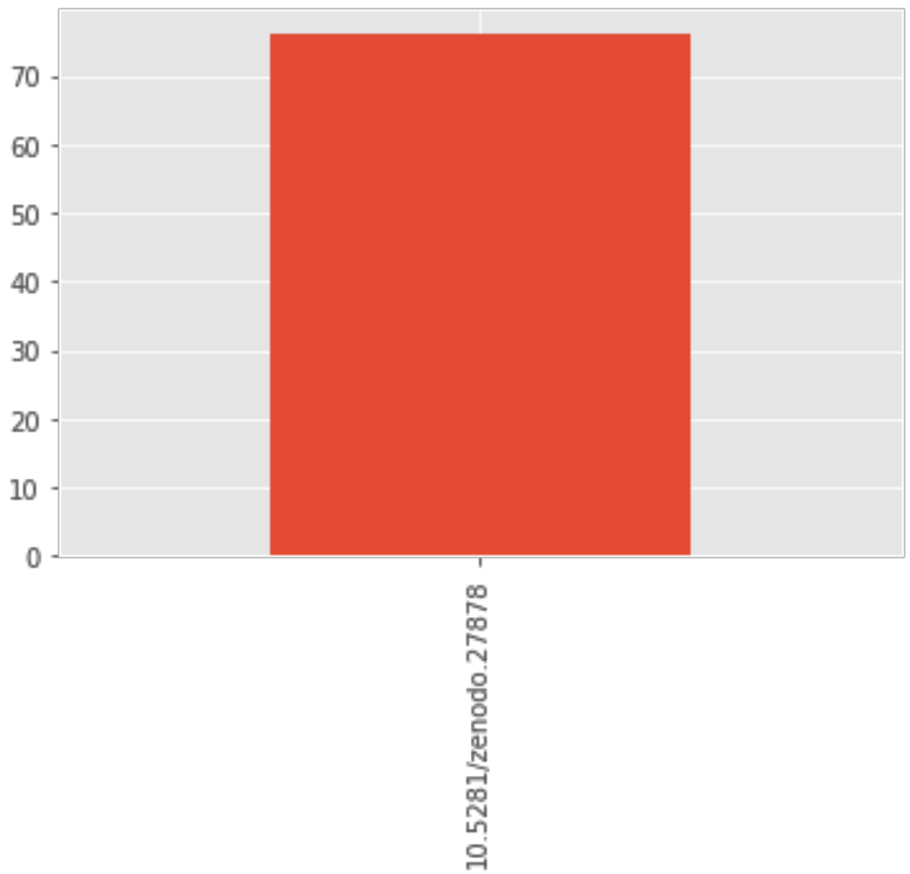
How should I cite LMFIT?

See https://dx.doi.org/10.5281/zenodo.11813





What is the impact of citation recommendations? (2/4)



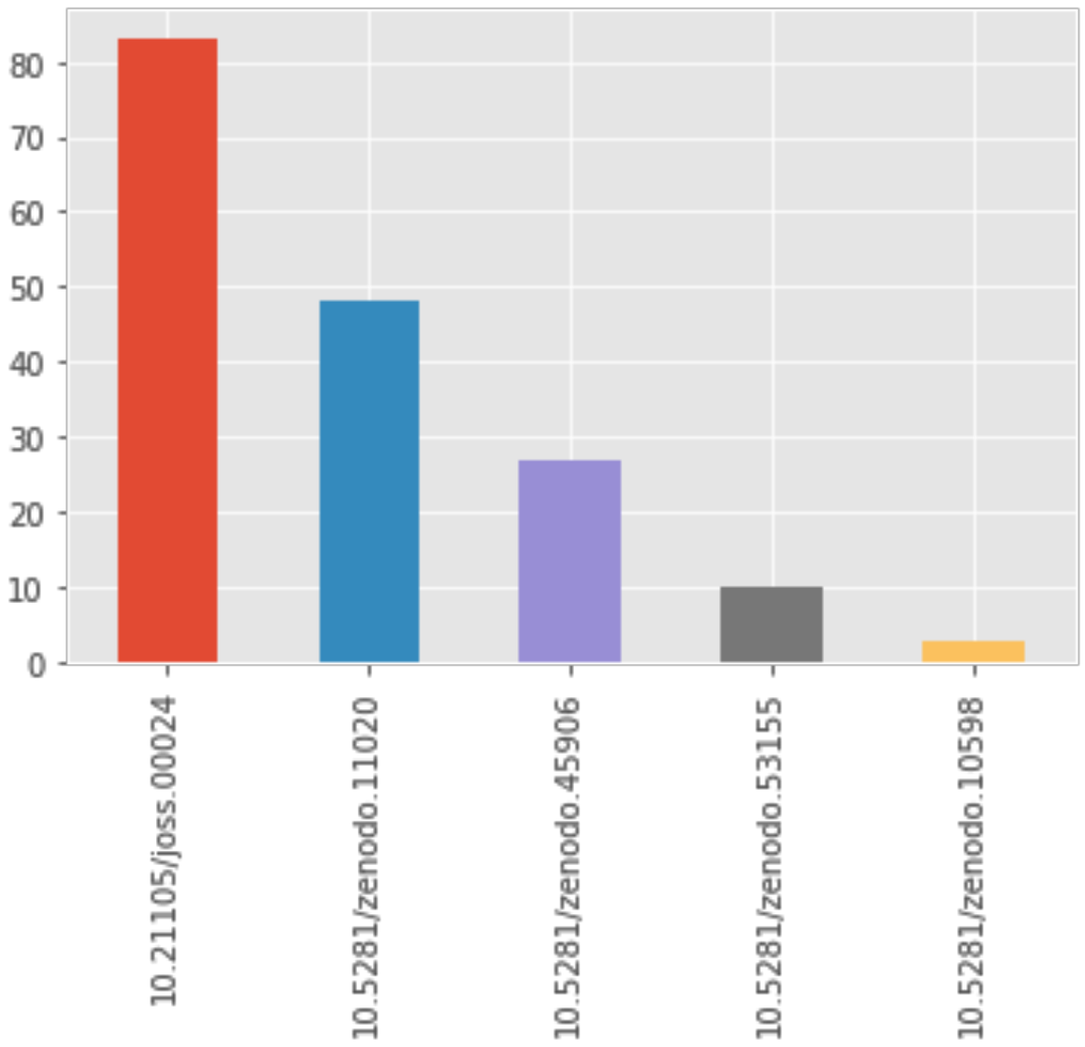
Lasagne Citation (BibTeX)

Jan Schlüter edited this page on 16 Mar 2017 · 2 revisions

To cite Lasagne in your work, use the following BibTeX entry:

```
@misc{lasagne,
  author       = {Sander Dieleman and
                  Jan Schlüter and
                  Colin Raffel and
                  Eben Olson and
                  Søren Kaae Sønderby and
                  Daniel Nouri and
                  Daniel Maturana and
                  Martin Thoma and
                  Eric Battenberg and
                  Jack Kelly and
                  Jeffrey De Fauw and
                  Michael Heilman and
                  Diogo Moitinho de Almeida and
                  Brian McFee and
                  Hendrik Weideman and
                  Gábor Takács and
                  Peter de Rivaz and
                  Jon Crall and
                  Gregory Sanders and
                  Kashif Rasul and
                  Cong Liu and
                  Geoffrey French and
                  Jonas Degrave},
  title        = {Lasagne: First release.},
  month        = aug,
  year         = 2015,
  doi          = {10.5281/zenodo.27878},
  url          = {http://dx.doi.org/10.5281/zenodo.27878}
}
```

What is the impact of citation recommendations? (3/4)



build passing coverage 87% license BSD DOI 10.5281/zenodo.53155

Documentation

- Installation
  - Dependencies
  - Using pip
  - From source
  - Tests
- Getting started
- A note about sigmas
- Custom plotting
- Detailed API documentation

Attribution

If you make use of this code, please cite the JOSS paper:

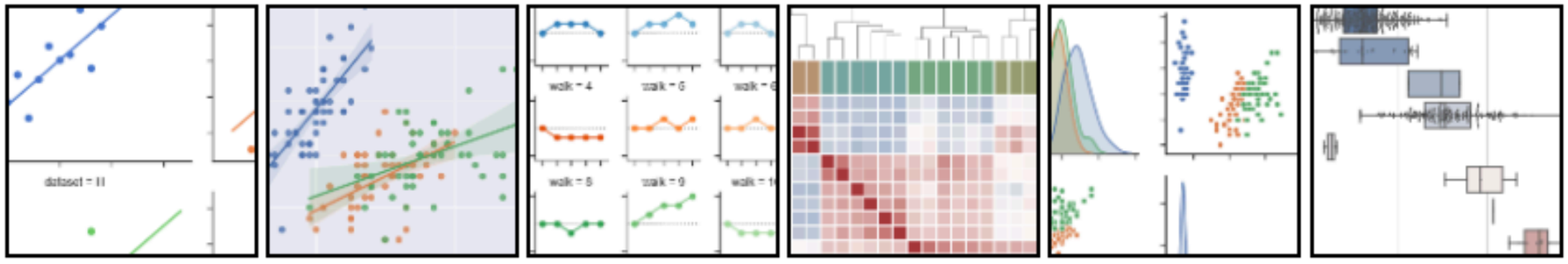
```
@article{corner,
    Author = {Daniel Foreman-Mackey},
    Doi = {10.21105/joss.00024},
    Title = {corner.py: Scatterplot matrices in Python},
    Journal = {The Journal of Open Source Software},
    Year = 2016,
    Volume = 24,
    Url = {http://dx.doi.org/10.5281/zenodo.45906}
}
```

Remember?

Foreman-Mackey, D. 2016, JOSS, 24, doi:10.5281/zenodo.45906

What is the impact of citation recommendations? (4/4)

seaborn: statistical data visualization



pypi v0.9.0 | license BSD (3-clause) | DOI 10.5281/zenodo.883859 | build passing | codecov 94%

Seaborn is a Python visualization library based on matplotlib. It provides a high-level interface for drawing attractive statistical graphics.