Asclepias: Flower Power for Software Citation

Jose Benito Gonzalez Lopez (CERN/Zenodo) Alexandros Ioannidis (CERN/Zenodo)

on behalf of Asclepias Project Team

Flower power was a slogan used during the late 1960s and early 1970s as a symbol of passive resistance and non-violence ideology.[1]

[1] Stuart Hall, "The Hippies: An American Moment" published in Ann Gray (Ed.), CCCS Selected Working Papers, Routledge, (December 20, 2007), p.155 ISBN 0-415-32441-6

Asclepias

Enabling Software Citation and Discovery through links (PIDs) exchange in astronomy

Asclepias



American Astronomical Society







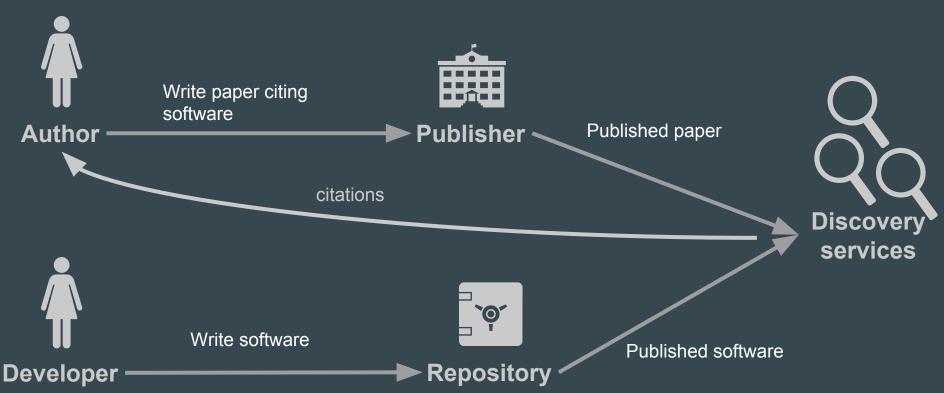
Astrophysics Data System

zendo

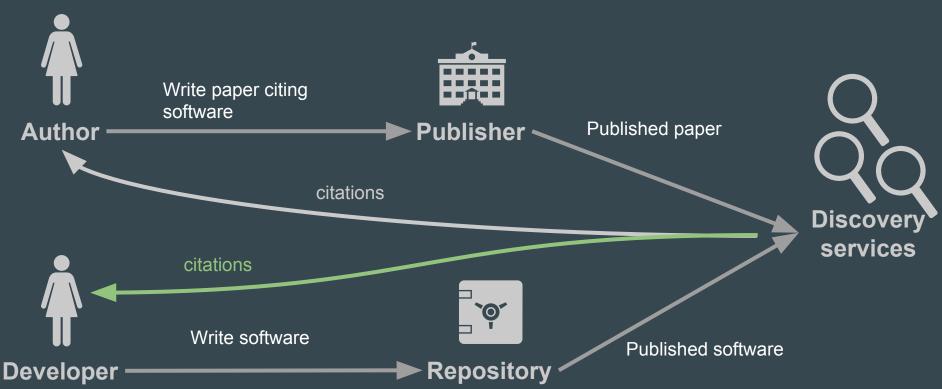
How to receive credit for software in astronomy?

Making software a first-class citizen

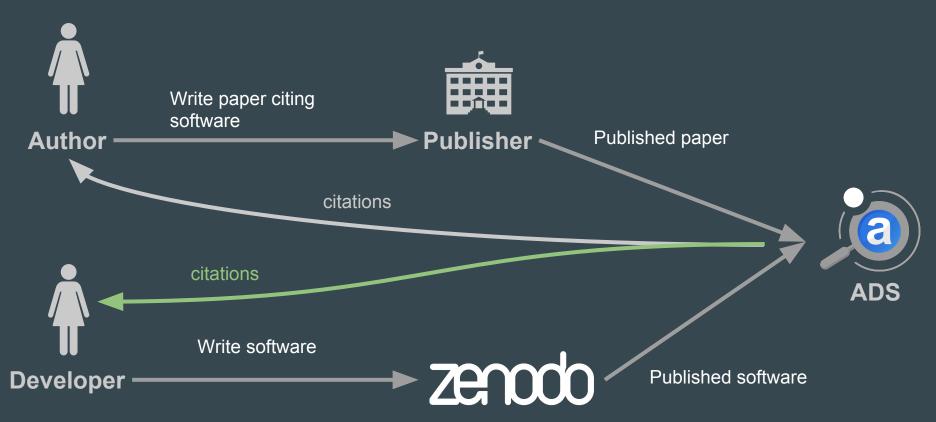
The current workflow



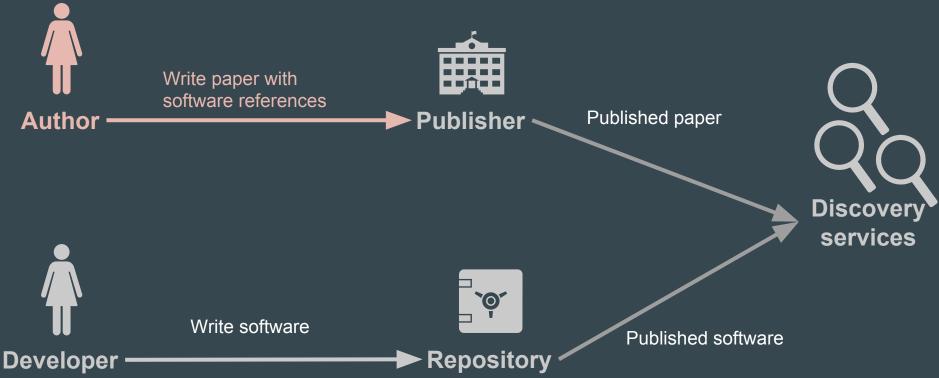
The current workflow



Asclepias use case: astronomy



The current workflow issues/solutions



Authors

- Information loss
 - Include citation in paper
- BibTeX/... for reference manager
 - "Software" type doesn't exist
 - No version field support
- Multiple IDs for software:
 - DOI? URL? name?
 - DOI: zero, one or more?

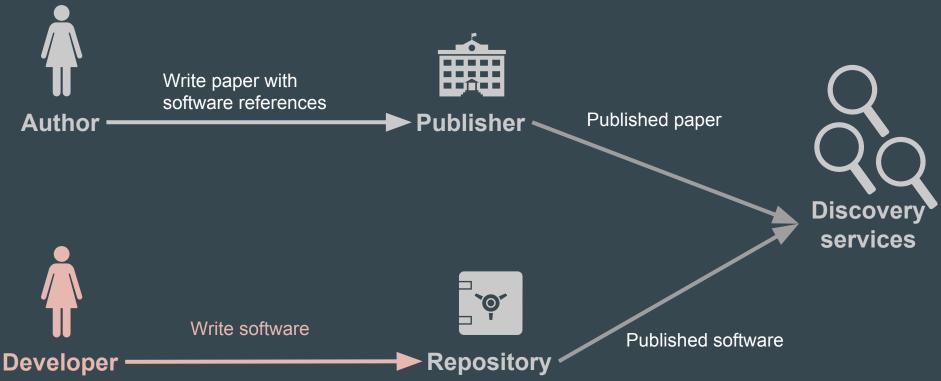


Software PID buffet: Triangle.py/Corner.py

- Triangle.py •
 - 10.5281/zenodo.10598
 - 10.5281/zenodo.11020
- Corner.py •
 - 10.5281/zenodo.45906
 - 10.5281/zenodo.53155
 - 10.5281/zenodo.591491 (Concept)
- JOSS
 - 10.21105/joss.00024
- ASCL (Astronomy Source Code Library)
 - https://ascl.net/1702.002

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The current workflow issues/solutions

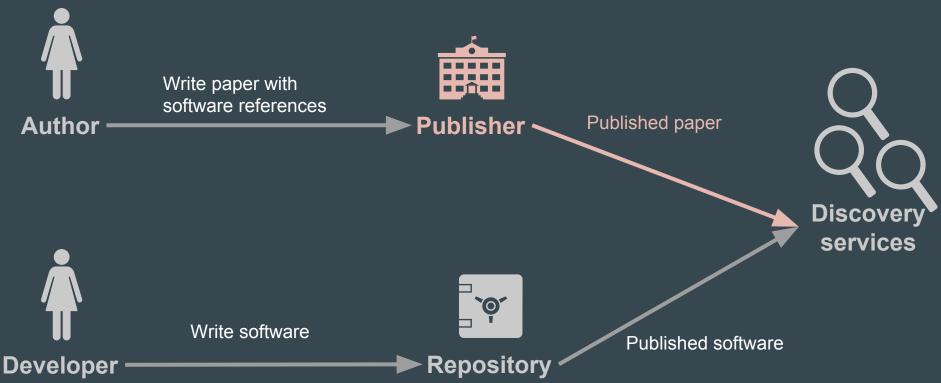


Developers should <u>ensure software is citable</u>

- Use a proper repository to publish software Ο (a.k.a. get a DOI)
 - Versioning support
 - Dynamic authorship
 - Name changes
 - Suggest clear citation in the software 0 website



The current workflow issues



Information loss: include citation

- Policy not favouring software citation
- Journal authoring system issues:
 - Information from BibTeX is lost
 - CrossRef DOI \rightarrow JATS XML \rightarrow PDF

- Software citation policy
- Authoring system:
 - Working with vendor to produce correct DOI metadata and JATS XML (machine

readability).

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← Back to Policies

Policy Statement on Software

1 January 2016

AAS Journals have adopted a policy that reflects the importance of software to the astronomical community, and the need for clear communication about such software which ensures that credit is appropriately given to its authors. The policy provides clear guidelines for citing software in all papers, and supports the publication of descriptive papers about software relevant to research in astronomy and astrophysics.

Guidelines for software papers

AAS Journals welcome papers which describe the design and function of software of relevance to research in astronomy and astrophysics. Such papers should contain a description of the software, its novel features and its intended use. Such papers need not include research results produced using the software, although including examples of applications can be helpful. There is no minimum length requirement for software papers.

If a piece of novel software is important to published research then it is likely appropriate to describe it in such a paper.

We highly recommend that authors release code described in a paper under an appropriate open source license (see http://opensource.org/faelesd or http://choosealicense.com/) and archive the published version of their code using a service such as Zenodo (http://zenodo.org/) or figShare (http://figShare.com/) which vili provide a unique digital object identifier (DOI) and ensure that the code is accessible in the long term. However, any papers which provide a clear statement on how to access the code - for example, by contacting the author - are acceptable.

Workflows for publishing code with a DOI include Making your Code Citable from GitHub & Zenodo.

Guidelines for citation of software

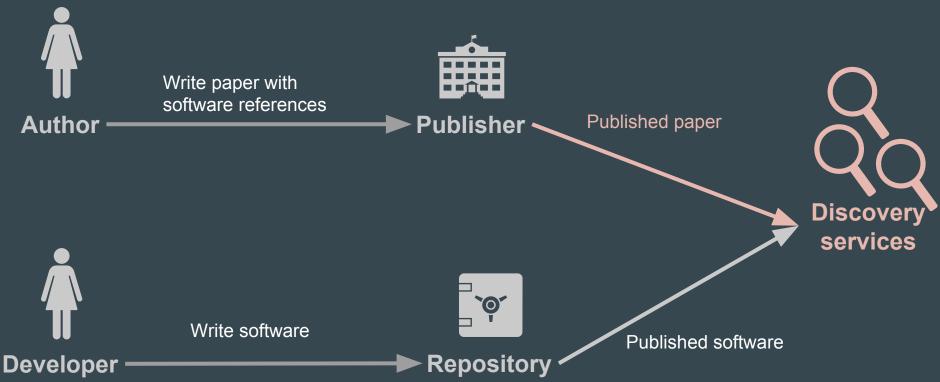
Software can be cited in two ways:

Citing the paper describing the software (e.g., pajay, Apython Library, for Galactic Dynamics, Bowy 2015, Api, 216, 29);
 Citing a DOI for the software, for example, obtained via Zenodo or FigShare (e.g. Foreman-Mackey et al. 2014, correr,py, v0.1.1, Zenodo, doi:10.5281/zenodo.1020.as developed on GiHub)

Ideally, both forms of citation should be included. The former extends credit to the authors for their publication and tells the reader where to learn about the software. The latter gives the reader access to the exact version of the software used in the project. These forms of citation are intended to allow authors to properly reference their use of software; alongside these formal references, they may also want to include links to appropriate code repositories, such as GitHub, or indices, such as the <u>Astrophysics Source Code Library</u>.

Authors may also include a section below the acknowledgments listing scientific software packages used as part of the work presented in the manuscript. This should be done via the new <u>instrumere AASTEX 6 macro</u>. The content of the command should take the form of a list of software name and citation in parentheses, for example:

The current workflow issues

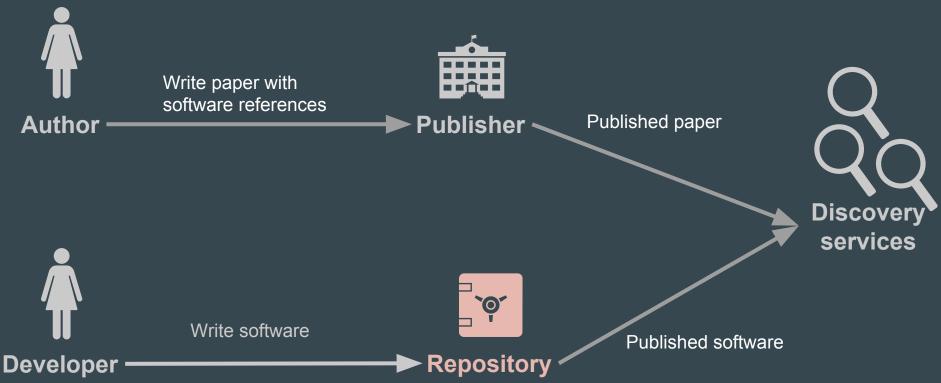


Information loss: ingest paper and track citations

- Discovery system supporting software records?
- Ingestion workflow incapable of identifying software
- Inability to identify synonymous identifiers lacksquare
- Synonymous PIDs
- Version relationships
- **BibTeX** generation fixes

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The current workflow issues



Repositories should <u>ensure software is citable properly</u>

- **DOI** Versioning: Ο
 - Version relationships
 - Version number field
 - DataCite metadata
 - Dynamic authorship
- **BibTeX** generation fixes Ο
- GitHub integration \cap









uvotpy: UVOTPY-2.1.2 Swift UVOT grism analysis

Paul Kuin

B

March 21, 2016

The Swift UVOT grisms (uv. 170-500nm; visible: 285-660 nm) spectral data reduction package is a replacement for the uvotingrism Ftool from the HEADAS Swift software. This requires a recent HEADAS Swift installation and CALDB as available from HEASARC. Recently the coincidence loss correction was redeveloped and is now formulated in a fully consistent manner to the theory as used successfully for point sources. Updates to the calibration files were made consistent with the reformulated correction

Recent software updates have been described in the Release notes for 2.1.0. The latest calibration files that were missing in the previous versions were added in 2.1.1, while this release fixes a small typo affecting the uvotgrism script.

Documentation sources are described in the Readme as well as how to cite this software.

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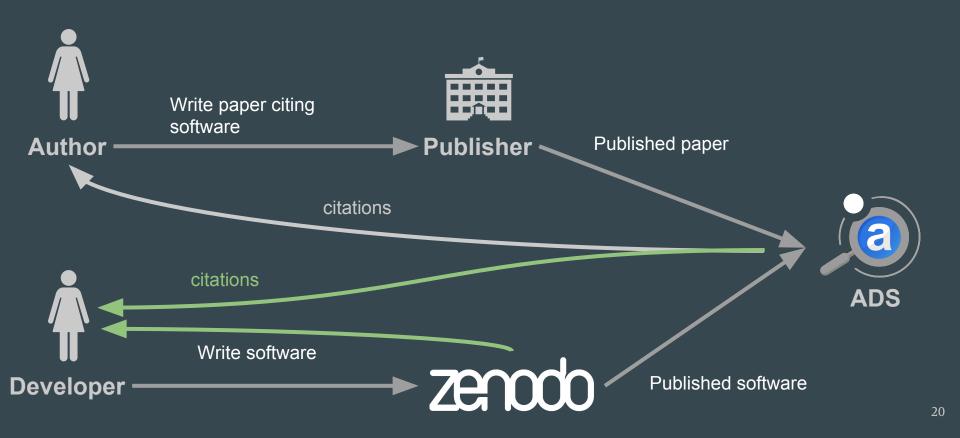
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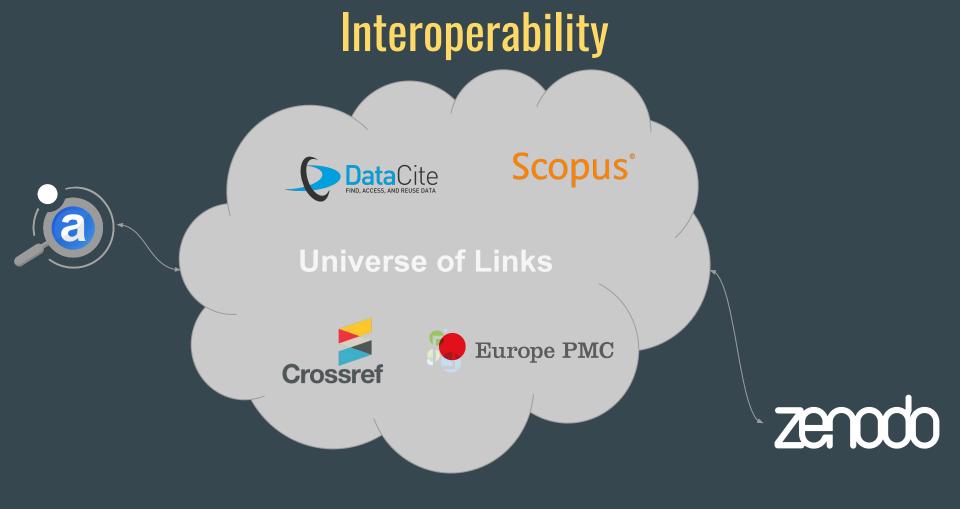
License (for files)

Zenodo

March 21, 2016

Systemic issues need joint effort to be solved





Meet the Asclepias Broker!



https://asclepias-broker.readthedocs.io/en/latest/index.html

	Number of citations Search citations
By default aggregated citations for all versions	Show only: Literature (160) Unknown (2) Dataset (0) Software (0) Search Q Citations to this version
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_	Exploring the Origins of Earth's Nitrogen: Astronomical Obs Rice, Thomas S. et al. (DOI: 10.3847/1538-4357/aadfdb)
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	The architecture and formation of the Kepler-30 planetary s 2018 ADS ARXIV DOI Panichi, F et al. (DOI: 10.1093/mnras/sty1071) 2018 ADS ARXIV DOI
	Bayesian Analysis of Hot-Jupiter Radius Anomalies: Evidence 2018 ADS ARXIV DOI Thorngren, Daniel P. & Fortney, Jonathan J. (DOI: 10.3847/1538-3881/aaba13) 2018 ADS ARXIV DOI
	RadVel: The Radial Velocity Modeling Toolkit 2018 ADS ARXIV DOI Fulton, Benjamin J. et al. (DOI: 10.1088/1538-3873/aaaaa8) 001 001
	Source selection for cluster weak lensing measurements in t 2018 ADS ARXIV DOI Medezinski, Elinor et al. (DOI: 10.1093/pasj/psy009) 000 000

Asclepias Broker

- <u>Web application</u> exposing a <u>REST API</u> and an <u>ingestion pipeline</u>
- <u>Stores</u> and <u>exposes</u> information about <u>scholarly links</u> (in Scholix format)
- Free and Open Source (<u>https://github.com/asclepias</u>)
- "Citation Exchange as a Service" easy to setup and configure
- Any repository or discovery service can setup an instance and benefit from it

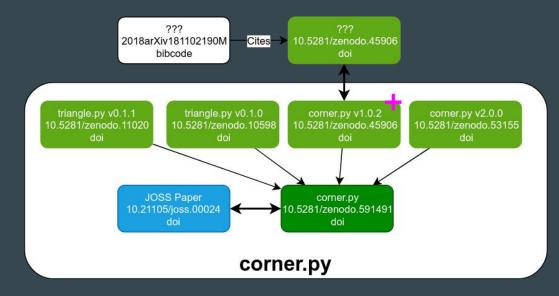


- Event handling (Scholix)
 - Receive citations from trusted and curated sources
- Ingestion
 - Grouping of multiple identifiers for same resource (URL, DOI, arXiv, etc)
 - Keep citation count aggregated per version and all at once
 - Automatic metadata enhancement
- Expose a search REST API
- Harvest other sources for citations

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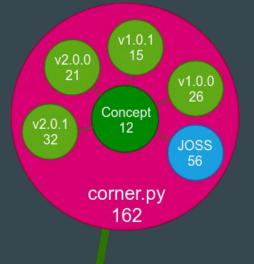
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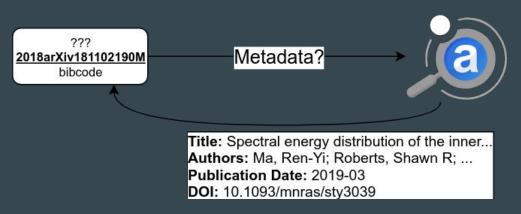
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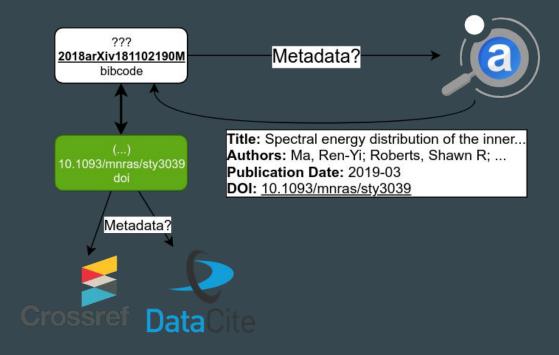
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Broker

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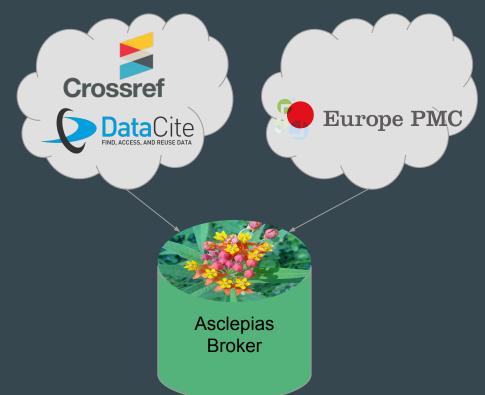
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	Citations to this version		Search
È	Spectral Energy Distribution of the inner accretion flow ar Ma, Ren-Yi et al. (DDI: 10.1093/mnras/sty3039)	2018	ADS ARXIV DO
È	Exploring the Origins of Earth's Nitrogen: Astronomical Obs Rice, Thomas S. et al. (DOI: 10.3847/1538-4357/aadfdb)	2018	ADS ARXIV DO
È	Eclipsing Binaries in the Open Cluster Ruprecht 147. I. EPI Torres, Guillermo et al. (DOI: 10.3847/1538-4357/aadca8)	2018	ADS ARXIV DO
È.	Free-form modelling of galaxy clusters: a Bayesian and data Olamaie, Malak et al. (DOI: 10.1093/mnras/sty2495)	2018	ADS ARXIV DO
Ľ	Observing the circumgalactic medium of simulated galaxies t Liang, Cameron J et al. (DOI: 10.1093/mnras/sty1668)	2018	ADS ARXIV DO
È	Low Metallicities and Old Ages for Three Ultra-diffuse Gala Gu, Meng et al. (DOI: 10.3847/1538-4357/aabbae)	2018	ADS ARXIV DO
È	The architecture and formation of the Kepler-30 planetary s Panichi, F et al. (DOI: 10.1093/mnras/sty1071)	2018	ADS ARXIV DO
ľ	Bayesian Analysis of Hot-Jupiter Radius Anomalies: Evidence Thomgren, Daniel P. & Fortney, Jonathan J. (DOI: 10.3847/1538-3881/aaba13)	2018	ADS ARXIV DO
ß	RadVel: The Radial Velocity Modeling Toolkit Fulton, Benjamin J. et al. (DOI: 10.1088/1538-3873/aaaaa8)	2018	ADS ARXIV DO
B)	Source selection for cluster weak lensing measurements in t Medezinski, Elinor et al. (DOI: 10.1093/pasi/psy009)	2018	ADS ARXIV DO

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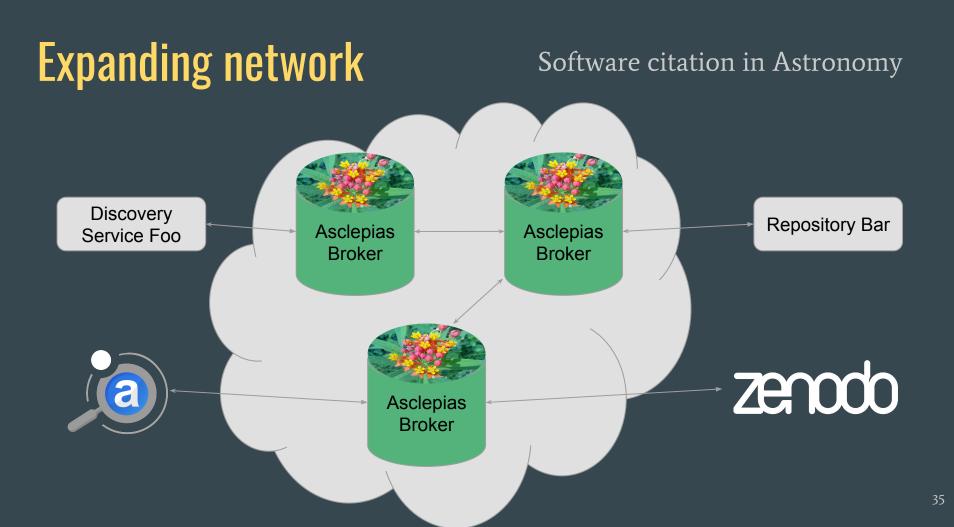
Current working setup

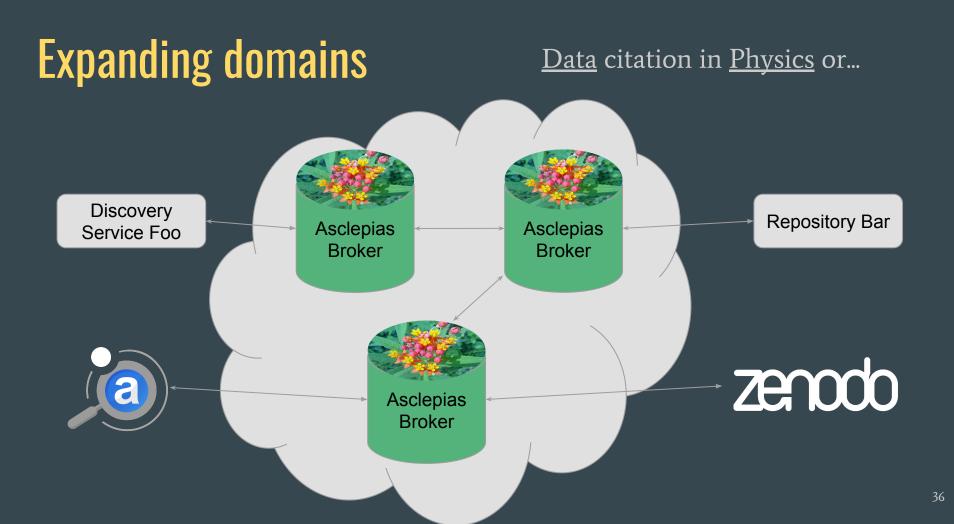
Software citation in Astronomy









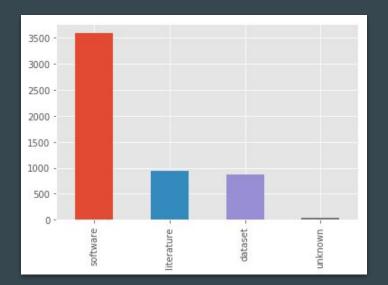


Appendix

Interesting numbers from software citation data

Disclaimer: this is an initial raw analysis from a yet not fully deduplicated/curated dataset

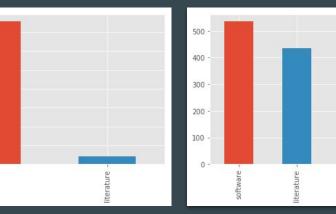
What is being cited on Zenodo?



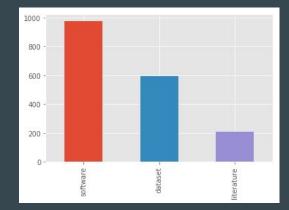
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datas

Crossref



EuropePMC



NASA ADS

1400

1200

1000

800

600

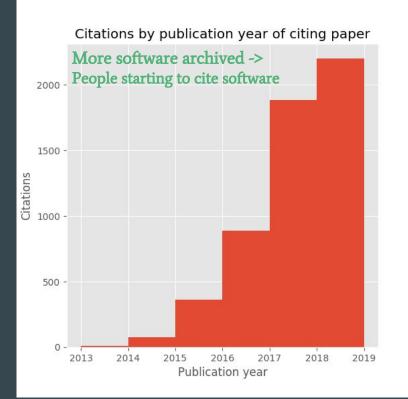
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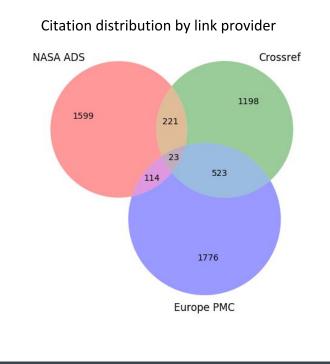
200

0.

softwar

Where do you find citations to Zenodo DOIs?

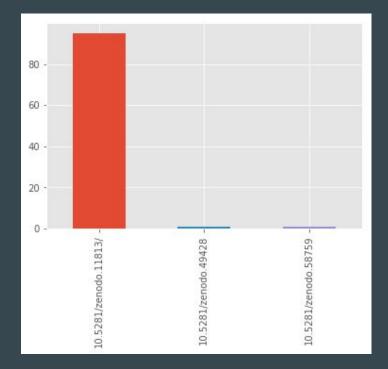


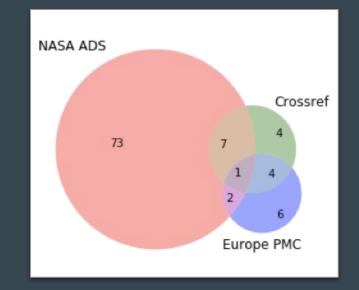


What is the impact of citation recommendations? (1/4)

How should I cite LMFIT?

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



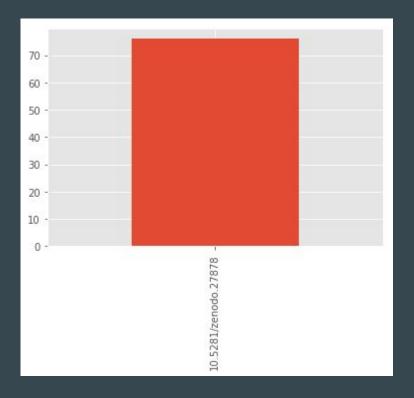


What is the impact of citation recommendations? (2/4)

@mis au

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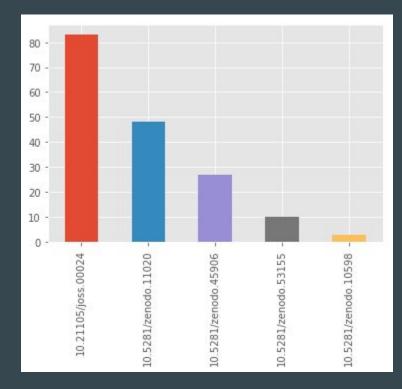
Lasagne Citation (BibTeX)

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

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

c{lasagne,	
thor	= {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},
tle	= {Lasagne: First release.},
nth	= aug,
ar	= 2015,
i	= {10.5281/zenodo.27878},
·1	= {http://dx.doi.org/10.5281/zenodo.27878}

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



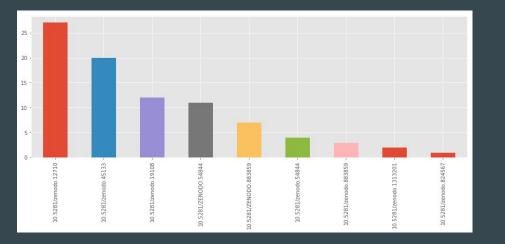


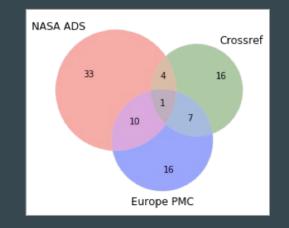
What is the impact of citation recommendations? (4/4)

seaborn: statistical data visualization



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





Questions & Comments

Do you harvest citations? Contact us at info@zenodo.org

by @jotabe & @alexiopan