

The Role of the ADS in Software Discovery and Citation

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AAS 231st Meeting - 1/11/2018



ADS Core Responsibilities

- Maintaining a comprehensive, timely and complete database of scholarly papers in Astronomy
- Tracking citations to scholarly papers
- Integrating in its database bibliographies and links to data products
- Providing discovery services and metrics to researchers, librarians, collaborators

ADS Core Responsibilities v1.1

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How ADS selects and ingests content

In order for some work to be considered for inclusion in ADS it must be:

- Scholarly in nature
- Related to Astronomy
- Published and (ideally) available online

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- **If you want a record for your software included in ADS, publish it in a known repository or register it in ASCL**

How ADS awards citations (“A cites B”)

- The citing work A is in ADS
- ADS has the the full-text or reference section of A available for analysis
- The reference to B has been successfully identified
- The cited work B is in ADS

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- If you want your software citation to count, make sure it appears as a formal citation via a unique identifier**

“Software” publishing and citation in 1987

1987PASP...99...191S

PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC
99:191-222, March 1987

DAOPHOT: A COMPUTER PROGRAM FOR CROWDED-FIELD STELLAR PHOTOMETRY

PETER B. STETSON

Dominion Astrophysical Observatory, Herzberg Institute of Astrophysics
5071 West Saanich Road, Victoria, British Columbia V8X 4M6, Canada

Received 1986 October 13, revised 1986 December 5

ABSTRACT

The difficult art of stellar photometry in crowded fields is currently undergoing a surge of popularity, and a number of different computer programs for deriving photometric information from two-dimensional digital images are currently in use. This paper describes one such program, DAOPHOT, which was written and continues to be developed at the Dominion Astrophysical Observatory. Emphasis is placed on the various types of philosophical and technical complications which arise when accurate photometry is sought for blended stellar images, and on the mathematical algorithms with which DAOPHOT attempts to deal with these complications, rather than on details of the coding. Some ways in which DAOPHOT resembles or differs from other similar programs are mentioned, and a discussion is presented of known shortcomings of the current program as well as possibilities for future improvement.

Key words: data-handling techniques—photometry (general)

red images using the point-spread-function
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Software “publishing” and citation in 1997

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- [extern-v212](#) - External packages for IRAF V2.12. The [README](#) file serves as a Table of Contents.
- [extern-v211](#) - External packages for IRAF V2.11. The [README](#) file serves as a Table of Contents.
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- [v211](#) - V2.11 distribution directory (all platforms).
- [v210](#) - V2.10 distribution directory (all platforms). Contains the system [Buglog](#).
- [v29](#) - V2.9 distribution directory (all platforms)
- [v28](#) - V2.8 distribution directory (CONVEX only)
- [x11iraf](#) - XGterm, Ximtool etc. Binaries, source, utilities. ***
- [/contrib](#) - User contributed software, STSDAS/TABLES binaries, etc.
- [/misc](#) - Miscellaenous
- [/util](#) - Network archive utilities
- [ls-IR_Z](#) - Index to the files in the archive (compressed) [ls-IR_gz](#) - Index to the files in the archive (GNU compressed)
- [ls-IR_Z](#) - Same, sorted by time

Archive file search pattern: Substring?



Last updated: 16May2002

reduced using the standard routines in the IRAF echelle reduction guide (Wilmarth & Barnes 1994; Massey 1997). The remaining

Wilmarth D., Barnes J., 1994, A Users Guide to Reducing Echelle Spectra With IRAF, <http://iraf.noao.edu/iraf/web/docs/spectra.html>

Software “publishing” and citation in 1997

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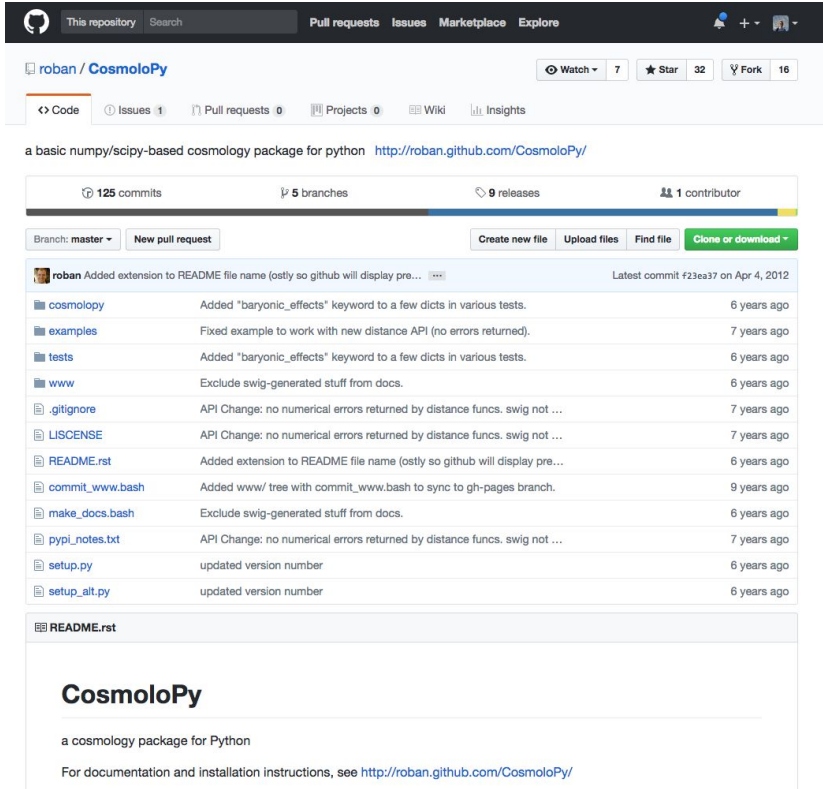
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Software “publishing” and “citation” in 2010



The screenshot shows the GitHub interface for the repository 'roban / CosmoloPy'. At the top, there are navigation links for 'This repository', 'Search', 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below this, the repository name 'roban / CosmoloPy' is displayed, along with statistics: 7 watches, 32 stars, and 16 forks. A navigation bar includes 'Code', 'Issues (1)', 'Pull requests (0)', 'Projects (0)', 'Wiki', and 'Insights'. A description reads: 'a basic numpy/scipy-based cosmology package for python' with a link to the repository. Below the description, there are statistics for 125 commits, 5 branches, 9 releases, and 1 contributor. A 'Branch: master' dropdown and a 'New pull request' button are visible. A list of files and their commit history is shown, including 'cosmology', 'examples', 'tests', 'www', '.gitignore', 'LICENSE', 'README.rst', 'commit_www.bash', 'make_docs.bash', 'pypi_notes.txt', 'setup.py', and 'setup_alt.py'. The 'README.rst' file is expanded, showing the title 'CosmoloPy' and a description: 'a cosmology package for Python'. A link to the repository is provided for documentation and installation instructions.

roban / CosmoloPy

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Code Issues 1 Pull requests 0 Projects 0 Wiki Insights

a basic numpy/scipy-based cosmology package for python <http://roban.github.com/CosmoloPy/>

125 commits 5 branches 9 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

roban Added extension to README file name (ostly so github will display pre... Latest commit f23ea37 on Apr 4, 2012

cosmology	Added "baryonic_effects" keyword to a few dicts in various tests.	6 years ago
examples	Fixed example to work with new distance API (no errors returned).	7 years ago
tests	Added "baryonic_effects" keyword to a few dicts in various tests.	6 years ago
www	Exclude swig-generated stuff from docs.	6 years ago
.gitignore	API Change: no numerical errors returned by distance funcs. swig not ...	7 years ago
LICENSE	API Change: no numerical errors returned by distance funcs. swig not ...	7 years ago
README.rst	Added extension to README file name (ostly so github will display pre...	6 years ago
commit_www.bash	Added www/ tree with commit_www.bash to sync to gh-pages branch.	9 years ago
make_docs.bash	Exclude swig-generated stuff from docs.	6 years ago
pypi_notes.txt	API Change: no numerical errors returned by distance funcs. swig not ...	7 years ago
setup.py	updated version number	6 years ago
setup_alt.py	updated version number	6 years ago

README.rst

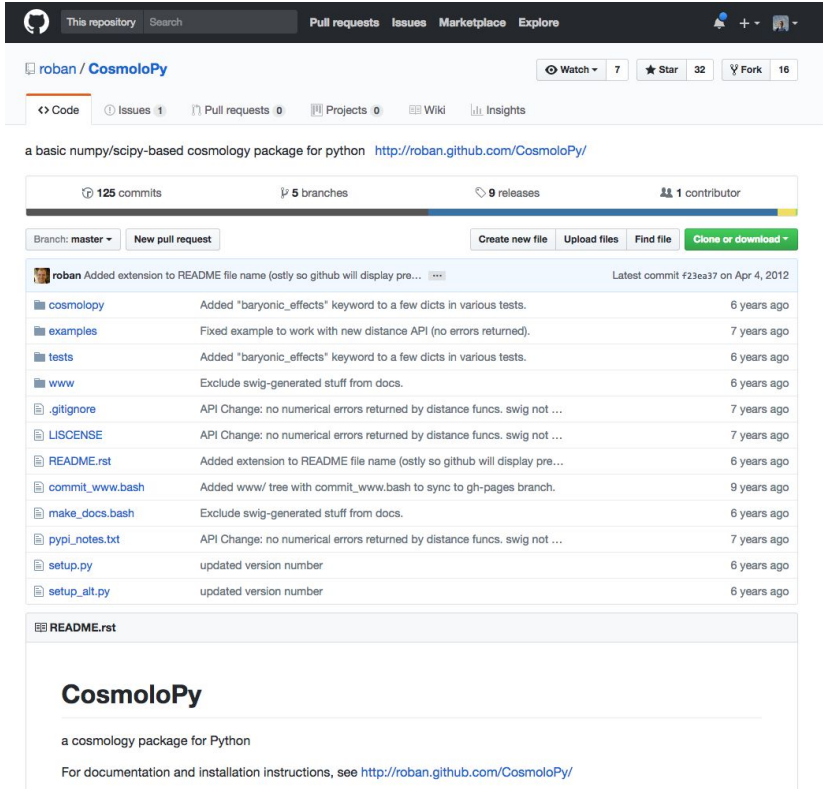
CosmoloPy

a cosmology package for Python

For documentation and installation instructions, see <http://roban.github.com/CosmoloPy/>

¹ The full compendium of code and ancillary files needed to reproduce the present paper is available from the first author. Cosmological calculations were made with the COSMOLOGY package. The ENRICHPY package encapsulates our enrichment model. These resources are available at <http://www.astro.phys.ethz.ch/kramer/>, <http://roban.github.com/CosmoloPy/>, and <http://roban.github.com/EnrichPy/>.

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Software “publishing” and citation in 2012



Starlink

The Starlink Project was a long running UK Project supporting astronomical data processing. It was shut down in 2005 but the Astronomy Centre until March 2015, and is now maintained by the [East Asian Observatory](#). The code is open source.

Starlink News was last updated August 10th 2017.

Getting the Software

The Joint Astronomy Centre and East Asian Observatory have made a number of [releases](#). The instructions are also provided.

Please note that there was a leap second at the end of December 2016; data taken since then (or 2016A, or a development rsync version) to reduce JCMT data taken from this point onwards.

For a cutting edge version, you can [rsync](#) from the [East Asian Observatory's](#) build.

Citing the software

If you have used Starlink software in your research, please cite the software in your papers.

For the Starlink software package please use:

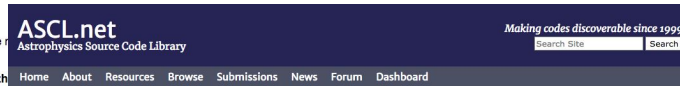
- Starlink citation: Currie et al 2014 [2014ASPC..485..391C](#)
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All of the individual packages are on the Astronomy Source Code Library, which have entries in A reference, please cite the ASCL entry. The following packages have a preferred reference you should use (reference):

- SMURF: For makecmap (SCUBA-2 DR) please cite [http://adsabs.harvard.edu/abs/2013MNRAS...444...146J](#)
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- The FellWalker algorithm (implemented inside Cupid's clumpfind) has its own citation: [2011MNRAS...414...108S](#)
- SPLAT-VO [ascl:1402.007](#) prefers [2014A&C.....7..108S](#)
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In addition, all Starlink SUNs also have bibliographic records on ADS.

external algorithm code is from the Starlink software collection (Currie et al., 2014; [ascl:1110.012](#)) and uses the ADAM messaging system (Allan, 1992), but this is not required by the



ASCL Code Record

[[ascl:1110.012](#)] [Starlink: Multi-purpose Astronomy Software](#)
Various

Starlink has many applications within it to meet a variety of needs; it includes:

- a general astronomical image viewer;
- data reduction tools, including programs for reducing CCD-like data;
- general-purpose data-analysis and visualisation tools;
- image processing, data visualisation, and manipulating NDF components;
- a flexible and powerful library for handling World Coordinate Systems (partly based on the SLALIB library);
- a library of routines intended to make accurate and reliable positional-astronomy applications easier to write; and
- and a Hierarchical Data System that is portable and flexible for storing and retrieving data.

Code site: [http://starlink.eao.hawaii.edu/starlink](#)

Appears in: [http://adsabs.harvard.edu/abs/2002SPIE..4844..366S](#)
[http://adsabs.harvard.edu/abs/1982QIRAS...21..485D](#)

Bibcode: [2011ascl.soft10012V](#)

Preferred citation method:

The Starlink software (Currie et al 2014; [http://adsabs.harvard.edu/abs/2014ASPC...485..391C](#)) is currently supported by the East Asian Observatory.

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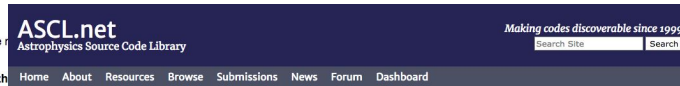
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Software publishing and citation in 2016

 The Journal of Open Source Software

corner.py: Scatterplot matrices in Python

Daniel Foreman-Mackey

Article details

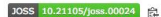
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Submitted: 26 May 2016
Accepted: 08 June 2016

Cite as:

Foreman-Mackey, (2016), corner.py: Scatterplot matrices in Python, Journal of Open Source Software, 1(2), 24, doi:10.21105/joss.00024

Status badge

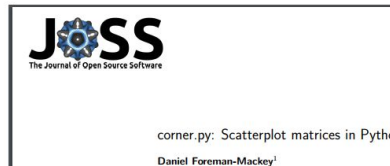
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corner.py: corner.py v2.0.0

Dan Foreman-Mackey, Will Vouderd, Adrian Price-Whelan, Matt Pitkin, Victor Zabalza, Geoffrey Ryan, Emily, Michael Smith, Gregory Ashton, Kelle Cruz, Wolfgang Kerzendorf, Thomas A Caswell, Stephan Hoyer, Kyle Barbary, Ian Czekala, Hanno Rein, Eric Gentry, Brendon J. Brewer, David W. Hogg

Version 2 of corner.py is now tested, documented, and citable.

Preview

- corner.py-v2.0.0.zip
- dfm-corner.py-03fe9de
 - coverageerc 61 Bytes
 - gigignore 111 Bytes
 - rd-environment.yml 56 Bytes
 - travis.yml 947 Bytes
 - LICENSE 1.5 kB
 - MANIFEST.in 27 Bytes
 - README.rst 772 Bytes
 - corner
 - __init__.py 994 Bytes
 - corner.py 20.3 kB
 - tests
 - __init__.py 0 Bytes
 - baseline_images
 - basic.png 93.0 kB
 - color.png 96.6 kB
 - color_filed.png 90.0 kB
 - labels.png 94.4 kB

Files (5.8 MB)

Name	Size
corner.py-v2.0.0.zip	5.8 MB

md5:2f2d1871c0d468a977570e1086d977

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Creates new file Upload files Find file Clone or download

dfm bumping version number for release Latest commit @3fe9de on May 26, 2016

- corner bumping version number for release 2 years ago
- docs bumping version number for release 2 years ago
- coverageerc coverage and pandas in travis builds 2 years ago
- gigignore fixing #72 2 years ago
- rd-environment.yml rtd config 2 years ago
- travis.yml coverage and pandas in travis builds 2 years ago
- LICENSE add docs 2 years ago
- MANIFEST.in pushing to pypi 5 years ago
- README.rst Update README.rst 2 years ago
- corner.png changing package structure 2 years ago
- demo.py changing package structure 2 years ago
- readthedocs.yml rtd conda 2 years ago
- setup.py include README in data 2 years ago
- tests.py Adding @hannorein to contributors for his contribution :-)

README.rst

corner.py Daniel Foreman-Mackey. corner.py: Scatterplot matrices in python. *The Journal of Open Source Software*, 24, 2016. doi:10.21105/joss.00024.

Read the documentation.

Foreman-Mackey D. et al., 2016, corner.py: corner.py v2.0.0, Available at: <https://doi.org/10.5281/zenodo.53155>

PDF 10.5281/zenodo.53155

Related identifiers: Supplement to <https://github.com/dfm/corner.py/tree/v2.0.0>

License (for files): Other (Open)

Versions

- Version v2.0.0 10.5281/zenodo.53155 May 26, 2016
- Version v1.0.2 10.5281/zenodo.4936 Feb 11, 2016

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corner.py: Scatterplot matrices in Python

Daniel Foreman-Mackey

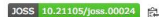
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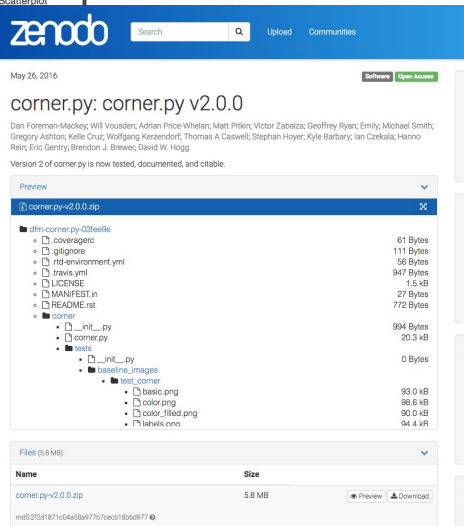
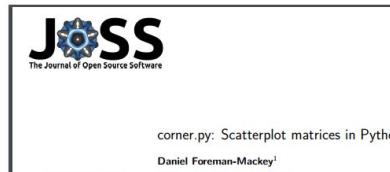
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corner.py: corner.py v2.0.0

Dan Foreman-Mackey, Will Vouderd, Adrian Price-Whelan, Matt Pitkin, Victor Zabalza, Geoffrey Ryan, Emily, Michael Smith, Gregory Ashton, Kelle Cruz, Wolfgang Kerzendorf, Thomas A Caswell, Stephan Hoyer, Kyle Barbary, Ian Czekala, Hanno Rein, Eric Gentry, Brendon J. Brewer, David W. Hogg

Version 2 of corner.py is now tested, documented, and citable.

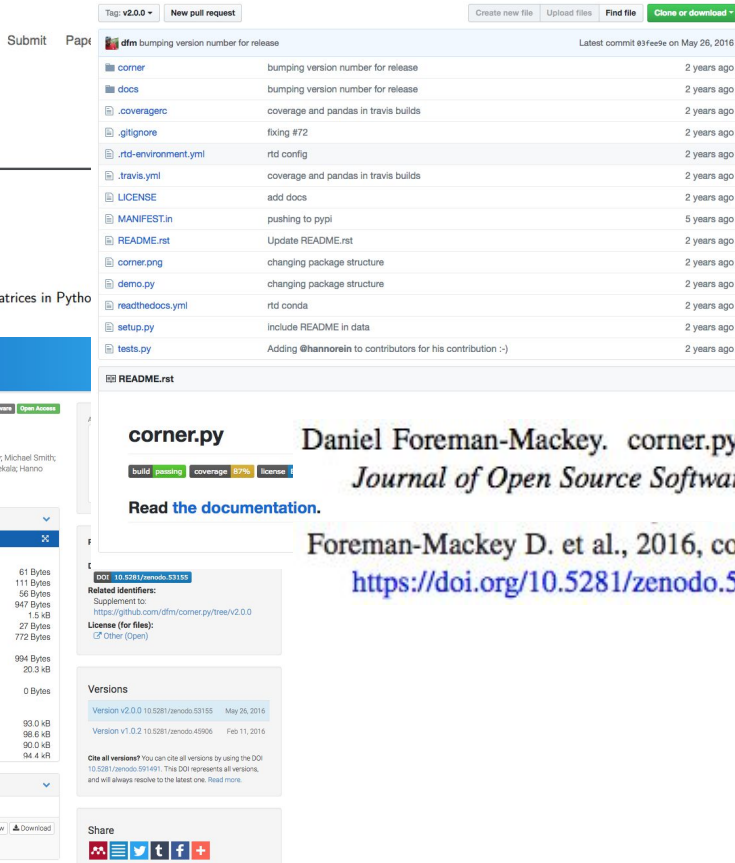
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- corner.py-v2.0.0.zip
- dfm-corner.py-02fe9de
 - coverage
 - gignore
 - rd-environment.yml
 - travis.yml
 - LICENSE
 - MANIFEST.in
 - README.rst
 - corner
 - __init__.py
 - corner.py
 - tests
 - __init__.py
 - baseline_images
 - test_corner
 - basic.png
 - color.png
 - color_filed.png
 - labels.png

Files (5.8 MB)

Name	Size
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dfm bumping version number for release Latest commit @fefe on May 26, 2016

File	Description	Last commit
corner	bumping version number for release	2 years ago
docs	bumping version number for release	2 years ago
.coveragerc	coverage and pandas in travis builds	2 years ago
.gignore	fixing #72	2 years ago
.rd-environment.yml	rd config	2 years ago
.travis.yml	coverage and pandas in travis builds	2 years ago
LICENSE	add docs	2 years ago
MANIFEST.in	pushing to pypi	5 years ago
README.rst	Update README.rst	2 years ago
corner.png	changing package structure	2 years ago
demo.py	changing package structure	2 years ago
readthedocs.yml	rd conda	2 years ago
setup.py	include README in data	2 years ago
tests.py	Adding @hannorein to contributors for his contribution :-)	2 years ago

README.rst

corner.py

build passing coverage 87% license

Read the documentation.

PDF 10.5281/zenodo.53155

Related identifiers:
Supplement to: <https://github.com/dfm/corner.py/tree/v2.0.0>


License (for files):
Other (Open)

Versions

Version	Created
Version v2.0.0 10.5281/zenodo.53155	May 26, 2016
Version v1.0.2 10.5281/zenodo.4906	Feb 11, 2016

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.091491. This DOI represents all versions, and will always resolve to the latest one. Read more.

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Foreman-Mackey D. et al., 2016, corner.py: corner.py v2.0.0, Available at: <https://doi.org/10.5281/zenodo.53155>



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- Foreman-Mackey, D 3
- Ashton, G 2
- Barbary, K 2
- Brewer, B 2
- Caswell, T 2

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- general 1

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- non-refereed 2
- refereed 1

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	corner.py: Scatterplot matrices in Python					
2	2016zndo.soft53155F	2016/05	cited: 6			
	corner.py: corner.py v2.0.0					
	Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian <i>and 16 more</i>					
	corner.py: corner.py v2.0.0					
3	2016zndo.soft45906F	2016/02	cited: 14			
	corner.py: corner.py v1.0.2					
	Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian <i>and 14 more</i>					
	corner.py: corner.py v1.0.2					

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Back to results title:corner.py

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- Abstract
- Citations (14)
- References
- Co-Reads
- Graphics
- Metrics

EXPORT

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corner.py: corner.py v1.0.2

Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian; Pitkin, Matt; Zabalza, Victor; Ryan, Geoffrey; Rice, Emily; Smith, Michael; Ashton, Gregory; Cruz, Kelle; Kerzendorf, Wolfgang; Caswell, Thomas A.; Hoyer, Stephan; Barbary, Kyle; Czekala, Ian; Hogg, David W.; Brewer, Brendon J.

No abstract

Pub Date: February 2016

DOI: [10.5281/zenodo.45906](https://doi.org/10.5281/zenodo.45906)

Bibcode: 2016zndo.soft45906F

FULL TEXT SOURCES
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The image shows a screenshot of the ADS beta website interface. At the top, there is a navigation bar with the ADS beta logo, a 'Feedback' button, and links for 'ORCID', 'Learn', and 'Account'. Below the navigation bar is a search bar with the text 'title:corner.py' and a search button. A 'Back to results' button is also present.

The main content area displays two search results for 'corner.py'. The first result is for 'corner.py: corner.py v1.0.2'. It lists authors: Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian; Pitkin, Matt; Zabalza, Victor; Ryan, Geoffrey; Rice, Emily; Smith, Michael; Ashton, Gregory; Cruz, Kelle; Kerzendorf, Wolfgang; Caswell, Thomas A.; Hoyer, Stephan; Barbary, Kyle. It includes a 'FULL TEXT SOURCES' section with a 'Publisher Article' link and an 'Add paper to a library' button. The second result is for 'corner.py: corner.py v2.0.0', listing authors: Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian; Pitkin, Matt; Zabalza, Victor; Ryan, Geoffrey; Rice, Emily; Smith, Michael; Ashton, Gregory; Cruz, Kelle; Kerzendorf, Wolfgang; Caswell, Thomas A.; Hoyer, Stephan; Barbary, Kyle; Czekala, Ian; Rein, Hanno; Gentry, Eric; Brewer, Brendon J.; Hogg, David W. It also includes a 'FULL TEXT SOURCES' section with a 'Publisher Article' link and an 'Add paper to a library' button.

On the left side, there is a 'VIEW' menu with options: Abstract, Citations (14), References, Co-Reads, Graphics, Metrics, EXPORT, in BibTeX, in AASTeX, in EndNote, and in RIS. The 'Abstract' option is selected for both results.

At the bottom of the interface, there is a 'Pub Date' field with a 'Back to results' button and a search bar with the text 'title:corner.py' and a search button. The 'DOI' and 'Bibcode' fields are also visible for the second result.

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corner.py: corner.py v1.0.2

Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian; Pitkin, Matt; Zabalza, Victor; Ryan, Geoffrey; Rice, Emily; Smith, Michael; Ashton, Gregory; Cruz, Kelle; Kerzendorf, Wolfgang; Caswell, Thomas A.; Hoyer, Stephan; Barbary, Kyle;

No abstract

Pub Date: [Back to results](#)

DOI:

Bibcode

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Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Zabalza, Victor; Ryan, Geoffrey; Rice, Emily; Smith, Michael; Cruz, Kelle; Kerzendorf, Wolfgang; Caswell, Thomas Barbary, Kyle; Czekala, Ian; Rein, Hanno; Gentry, Er Hogg, David W.

No abstract

Pub Date: May 2016

DOI: [10.5281/zenodo.53155](#)

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corner.py: Scatterplot matrices in Python

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[Foreman-Mackey, Daniel](#)

This Python module uses matplotlib (Hunter 2007) to visualize multidimensional samples using a scatterplot matrix. In these visualizations, each one- and two-dimensional projection of the sample is plotted to reveal covariances. corner was originally conceived to display the results of Markov Chain Monte Carlo simulations and the defaults are chosen with this application in mind but it can be used for displaying many qualitatively different samples.

Publication The Journal of Open Source Software

Pub Date: June 2016

DOI: [10.21105/joss.00024](#)

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Abstract

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Foreman-Mackey, Dan; Vousden, Will; Price-Whelan, Adrian; Pitkin, Matt; Zabalza, Victor; Ryan, Geoffrey; Rice, Emily; Smith, Michael; Ashton, Gregory; Cruz, Kelle; Kerzendorf, Wolfgang; Caswell, Thomas A.; Hoyer, Stephan; Barbary, Kyle; Czekala, Ian; Rein, Hanno; Gentry, Eric; Brewer, Brendon J.; Hogg, David W.

No abstract

Pub Date: May 2016

DOI: 10.5281/zenodo.53155

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RELATED INFORMATION

Version v1.0.2

Version v1.1.0

Github

link to Github repo for this version

links to other versions in the ADS

How is ADS dealing with this - later this year

- Software packages ingested in ADS upon the detection of a citation from the refereed literature via a DOI; citation awarded to identified (versioned) resource
- Different software versions cross-linked in detail view
- Eventually: cumulative metrics (citations, reads) available for versions of same software product
- Citation event data publicly available through API