The Astrophysics Source Code Library
http://ascl.net

WHAT IT IS

Free, on-line registry for source codes of interest to astronomers and astrophysicists

Largest resource for codes in existence

HISTORY

Founded in 1999

Moved to APOD discussion forum Starship Asterisk in 2010

Advisory Committee formed in 2011

WHY A SOURCE CODE LIBRARY

Source codes are increasingly important for the advancement of science in astrophysics

Source codes need to be available; science demands:
- reproducibility
- falsifiability
- reliability

Sharing codes is efficient

Use by others increases confidence in a code and in research findings dependent on that code
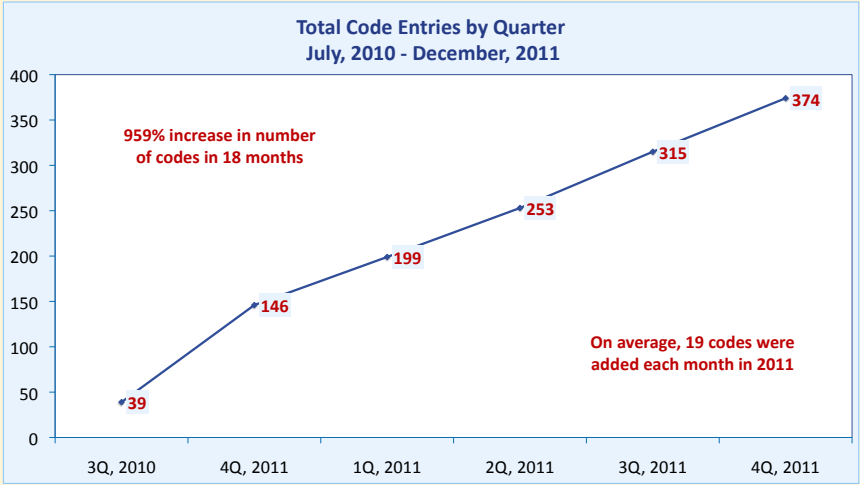
WHY *THIS* SOURCE CODE LIBRARY

Indexed by ADS

Citable

Active approach to adding codes

Affiliation with APOD offers stable, ongoing exposure for the ASCL

GROWTH & ACTIVITY

Total Code Entries by Quarter
July, 2010 - December, 2011

959% increase in number of codes in 18 months

On average, 19 codes were added each month in 2011

Data points: 39 (3Q, 2010), 146 (4Q, 2011), 199 (1Q, 2011), 253 (2Q, 2011), 315 (3Q, 2011), 374 (4Q, 2011)

X-axis: 3Q, 2010 | 4Q, 2011 | 1Q, 2011 | 2Q, 2011 | 3Q, 2011 | 4Q, 2011
Y-axis: 0 to 400

CODE ENTRY ELEMENTS

STIFF: Converting Scientific [1 - Thread title] **to TIFF**

by **owlice** » Wed Oct 12, 2011 5:06 am

STIFF: Conv [2 – Full title of code] **FITS Images to TIFF**

Abstract: STIFF is a program that converts scientific FITS1 images to the more popular TIFF2 format for illustration purposes. Most current FITS image viewers and converters provide the user an [3 – Abstract or description] incorrect translation of the FITS image content by simply rescaling linearly input pixel values. The purpose of STIFF is to produce beautiful pictures in an automatic and consistent way.

Credit: Emmanuel Bertin [4 – Code author]

Site: http://www.astromatic. [5 – Download site]
http://www.eso.org/sci/php/m [6 – Paper(s) describing or using code]

ID: ascl:1110.006 [7 - Unique identifier]

QUOTE

MAIN LIBRARY PAGE

The Engineering Deck: Astrophysics Source Code Library

NEWTOPIC | Search this for... | Search — Search box and button

Number of topics and pages → 321 topics • Page 1 of 4 • 1 2 3 4

ANNOUNCEMENTS	REPLIES	VIEWS	LAST POST
Welcome & Rules (please read before posting) by RJN » Mon Jan 18, 2010 7:40 pm	0	12543	Mon Jan 18, 2010 7:40 pm

TOPICS	REPLIES	VIEWS	LAST POST
Guide to the Astrophysics Source Code Library by RJN » Sat Jul 24, 2010 8:01 pm			:42 am
Papers of Possible Interest to Astronomical Software Users by owlice » Tue Oct 12, 2010 7:02 am	20	1697	by owlice Sat Jul 16, 2011 12:32 pm
The Astrophysics Source Code Library: New codes welcome by RJN » Sat Jul 24, 2010 8:01 pm			22 pm
Web Resoures and Tools for Astrophysicists/Astronomers by owlice » Sat Jul 16, 2011 12:01 pm			1:31 am
21cmFAST: Simulation of the High-Redshift 21-cm Signal by owlice » Thu Feb 17, 2011 10:47 pm			0:47 pm
A Fast Chi-squared Technique For Period Search of Irregularl by owlice » Thu Oct 21, 2010 8:17 pm	2	412	by Dmpalmer Sun Feb 20, 2011 4:59 pm
ADAPTSMOOTH: Adaptive Smoothing of Astronomical Images by owlice » Tue Oct 12, 2010 10:49 pm	0	352	by owlice Tue Oct 12, 2010 10:49 pm
ADIPLS: Aarhus Adiabatic Oscillation Packa by owlice » Tue Sep 06, 2011 9:46 pm	0	45	by owlice Tue Sep 06, 2011 9:46 pm
AHF: Amiga's Halo Finder by owlice » Fri Feb 04, 2011 12:36 pm	0	262	by owlice Fri Feb 04, 2011 12:36 pm
AIPS: Astronomical Image Processing System by owlice » Tue Jul 27, 2010 1:56 pm	0	1253	by owlice Tue Jul 27, 2010 1:56 pm

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Add your code here!
① Click thread to open it
② Click "Reply"
③ Type in code information
④ Click "Submit"

Codes are listed in alphabetical order

The Astrophysics Source Code Library (ASCL), founded in 1999, takes an active approach to sharing astrophysical source code. ASCL's editor seeks out both new and old peer-reviewed papers that describe methods or experiments that involve the development or use of source code, and adds entries for the found codes to the library. This approach ensures that source codes are added without requiring authors to actively submit them, resulting in a comprehensive listing that covers a significant number of the astrophysics source codes used in peer-reviewed studies. The ASCL moved to a new location in 2010, has over 400 codes in it and continues to grow.

In 2011, the ASCL added on average 19 new codes per month; we encourage scientists to submit their codes for inclusion.

An advisory committee has been established to provide input and guide the development and expansion of its new site, and a marketing plan has been developed and is being executed. All ASCL source codes have been used to generate results published in or submitted to a refereed journal and are freely available either via a download site or from an identified source.

CODE ENTRY REQUIREMENTS

Code must be submitted to, described in, or used in research published in a peer-reviewed publication

Code must be available to others through download or by request

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http://asterisk.apod.com/viewforum.php?f=35

http://ascl.net