

PRACTICES IN CODE DISCOVERABILITY: ASTROPHYSICS SOURCE CODE LIBRARY



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

321 codes
as of October 12

HISTORY

- Founded in 1999
- Moved to APOD discussion forum Starship Asterisk in 2010
- Advisory Committee created in 2011

WHY A SOURCE CODE LIBRARY

- Source codes need to be available; science demands:
 - reproducibility
 - falsifiability
 - reliability
- Sharing codes is efficient
- Use by others increases confidence in the code and in research findings dependent on that code

WHY THIS SOURCE CODE LIBRARY

- Active approach to adding codes
- Software is familiar, easy to use, and offers full-text search
- Largest collection of codes known to authors
- Affiliation with APOD offers stable, ongoing exposure for the ASCL

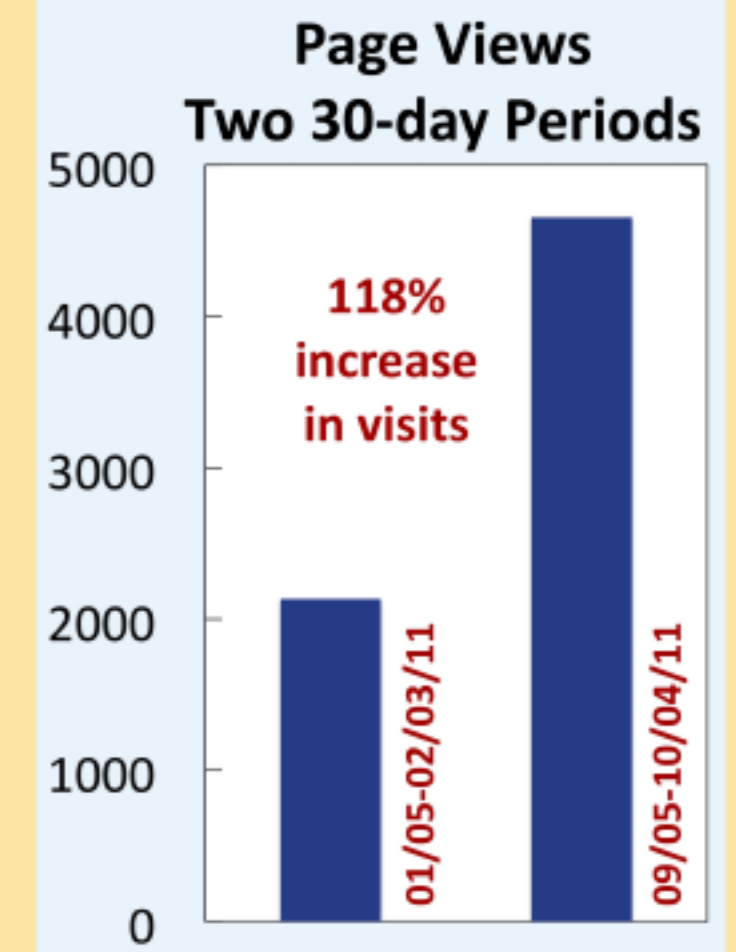
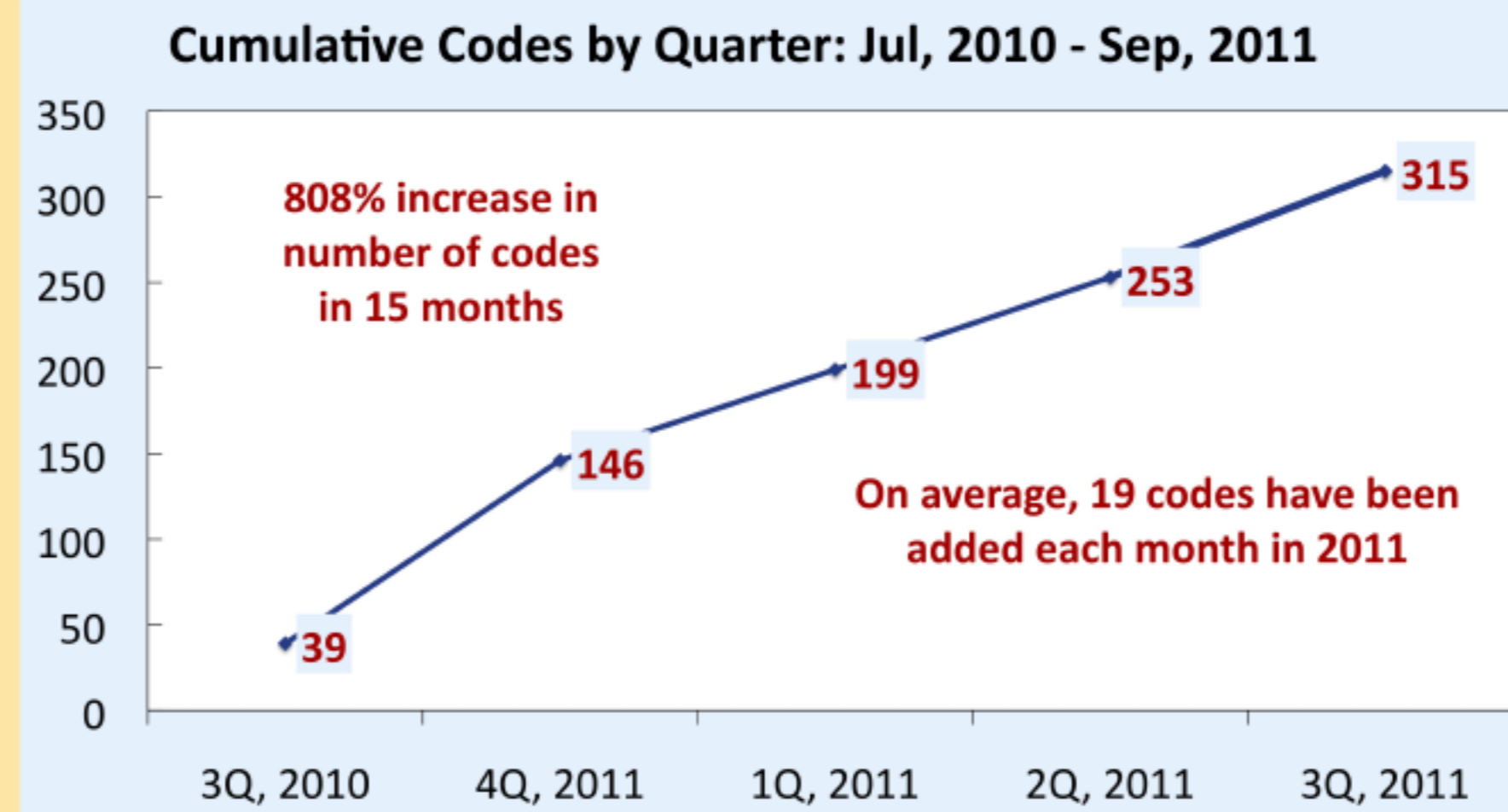
CODE ENTRY REQUIREMENTS

- 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

FUTURE PLANS

- Seek ways to make the ASCL citable
- Implement automatic link checking on URLs in library

GROWTH & ACTIVITY



CODE ENTRY ELEMENTS

STIFF: Converting Scientific 1 - Thread title **to TIFF** QUOTE

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 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. 3 - Abstract or description

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

MAIN LIBRARY PAGE

The Engineering Deck: Astrophysics Source Code Library Number of topics and pages

NEW TOPIC* Search this forum Search ← Search box and button 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	by RJN » 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			by RJN » Sat Jul 24, 2010 8:01 pm
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			by RJN » Sat Jul 24, 2010 8:01 pm
Web Resources and Tools for Astrophysicists/Astronomers by owlice » Sat Jul 16, 2011 12:01 pm			by owlice » Sat Jul 16, 2011 12:01 pm
21cmFAST: Simulation of the High-Redshift 21-cm Signal by owlice » Thu Feb 17, 2011 10:47 pm			by owlice » Thu Feb 17, 2011 10:47 pm
A Fast Chi-squared Technique For Period Search of Irregular 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 Pack 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

Guide includes table of contents

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

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