

The logo for ALADIN features the word "ALADIN" in a bold, black, sans-serif font. The text is centered and overlaid on a graphic consisting of two thick, intertwined, swirling bands in red and blue. These bands are surrounded by a cloud of small, scattered dots in red, blue, and white. A solid dark blue horizontal bar passes behind the text and the swirling graphic.

# ALADIN

*Pierre Fernique*

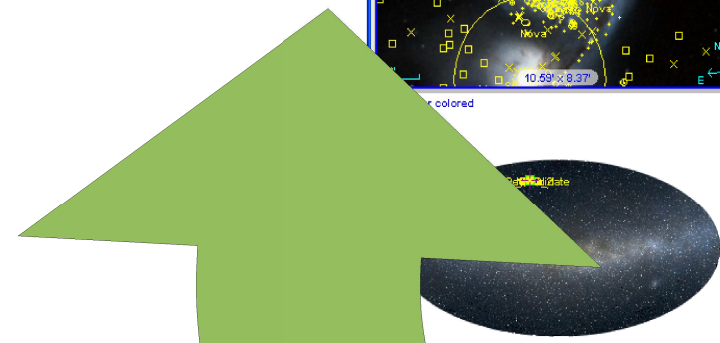
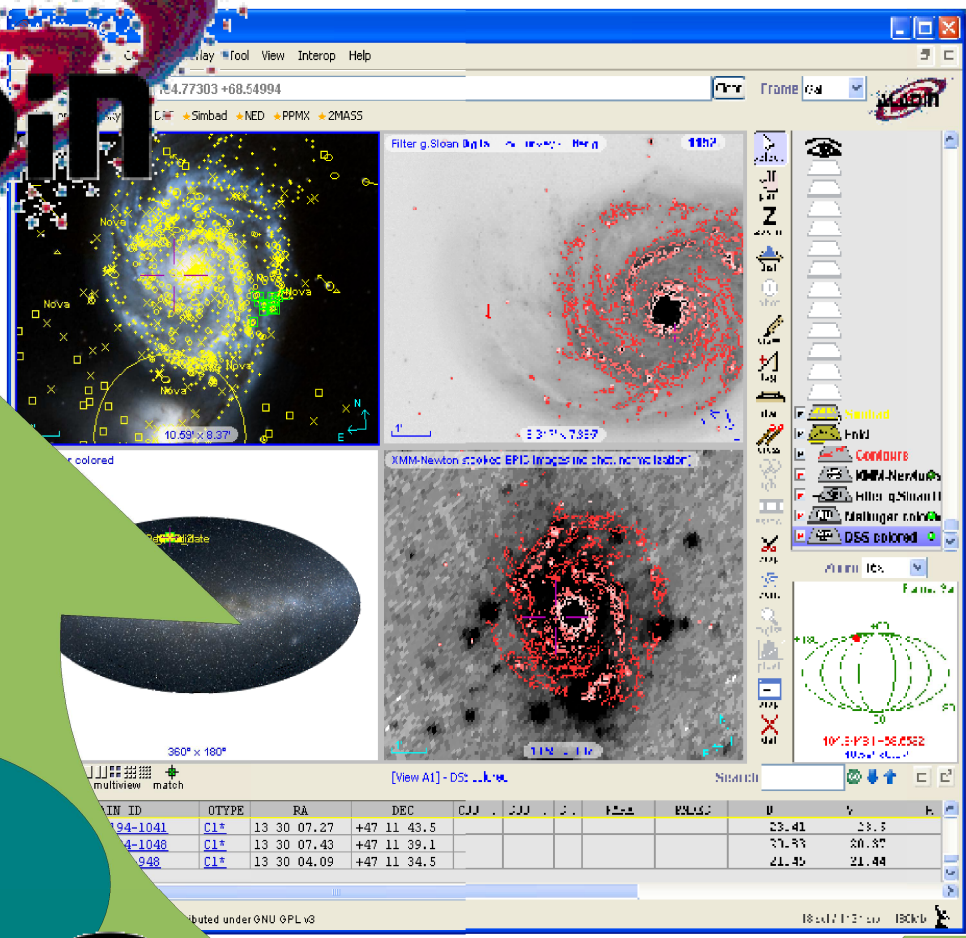
*CDS council – June 2011*

# Service description

« *Aladin has become the astronomical reference software dedicated to the integration, visualization and manipulation of images and catalogues provided by most of astronomical data servers in the world (CDS, ESO, ESA, NASA, CADAC,...) »*



# ALADIN



EDS  
 SIMBAD  
 All vizieR  
 Aladin images

Remote

CADC  
 MAST  
 NED  
 SkyBot  
 SkyView  
 UKIDSS  
 Sloan

File

- Image
- Optical
- Halpha
- CO
- H I
- Radio
- Infrared
- Subar
- IRAC color 1,2,3,4 - GLIMPSE\_SAGE
- IRAC1 - 3.6mu (GLIMPSE, CCD, Tau)
- IRAC2 - 4.5mu (GLIMPSE, CCD, Tau)
- IRAC3 - 5.8mu (GLIMPSE, CCD, Tau)
- IRAC4 - 8.0mu (GLIMPSE, CCD, Tau)
- MPS1 - 24mu (MPS1Gal, CCD, Tau)
- WISE
- 2MASS J (SPAC/NASA)
- IRAS
- X
- Progressive catalog
- Density map



- all VO
- Hubble Legacy Archive (HLA)
  - 2MASS All-Sky Quicklook Image Service
  - The IRAS Sky Survey Atlas
  - Aladin
  - 2MASS Large Galaxy Atlas
  - The NASA/IPAC Extragalactic Database Image Data Atlas
  - Multimission Archive at STScI (MAST)
  - SOCDD
  - Tofo frame
  - FSSM
  - F785LP
  - F150W
  - F187W
  - F160W

- Fits VOTable
- Healpix SIA ASCII
- Jpeg RGB Cube
- CSV

# Short demo...

**Google** aladin × Rechercher

Environ 28 900 000 résultats (0,08 secondes) [Google.com in English](#) [Recherche avancée](#)

**Tout**  
Images  
Vidéos  
Actualités  
Shopping  
Plus

**Strasbourg**  
Changer le lieu

**Le Web**  
Pages en français  
Pays : France  
Pages en langue étrangère traduites

**Date indifférente**  
Les plus récentes  
Moins de 24 heures  
Moins d'une semaine  
Moins d'un mois

► [Aladin, ou la Lampe merveilleuse - Wikipédia](#) 🔍  
**Aladin**, ou la Lampe merveilleuse (titre long : Histoire d'**Aladin**, ou la Lampe merveilleuse) est un conte présenté avec les Mille et Une Nuits. ...  
Résumé - Pistes interprétatives - Histoire littéraire du récit - Adaptations  
[fr.wikipedia.org/.../Aladin,\\_ou\\_la\\_Lampe\\_merveilleuse](#) -  
En cache - Pages similaires

YouTube - [Aladin - ce rêve bleu](#) 🔍  
 3 min - 24 déc. 2006 - Importé par pttdisney  
**Aladin** pourquoi t'existe pas ? :(, laragazzaa 1 week ago 3 ...  
Added to queue **aladin**-ce reve bleu (CLIP+PAROLE)by couettelouloute2398929 ...  
[www.youtube.com/watch?v=5-4vXiIB-nA](#)

YouTube - [Aladdin Prince Ali \(french\)](#) 🔍  
 3 min - 11 juin 2007 - Importé par body72  
Added to queue **Aladin** - ce rêve bleuby pttdisney4973133 views ·  
Thumbnail 4:01, Add to, Added to queue Le Roi Lion (The Lion King ...  
[www.youtube.com/watch?v=i9vsbVHvlss](#)

Autres vidéos pour [aladin](#) »

[Aladin : Atlas du Ciel](#) 🔍  
**Aladin** est un atlas interactif du ciel qui permet aux utilisateurs de visualiser des images digitalisées du ciel et d'y superposer des informations issues ...  
[aladin.u-strasbg.fr/aladin.html](#) - En cache - Pages similaires

# Aladin dash board



May 2011

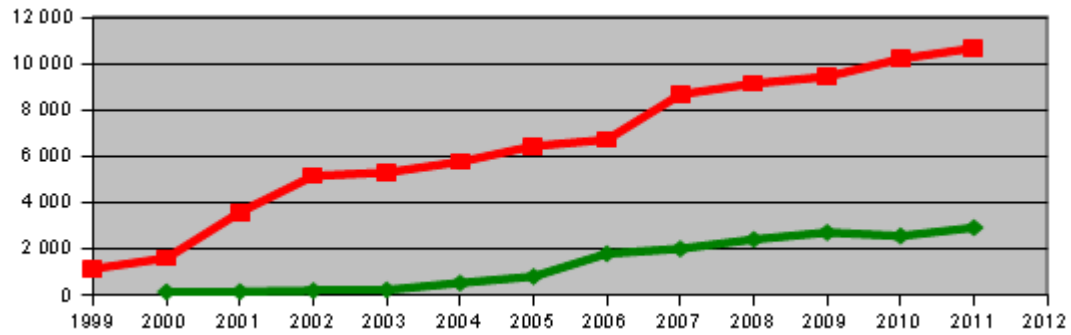
- 1 900 sessions/day
- 15 000 queries/day  
+ 19 000 Healpix query/day
- 90 software installations/day
- 210 000 java code lines
- ~2 FTE (*P.Fernique, T.Boch, F.Bonnarel, A.Oberto*)



Since 3-4 years,  
Aladin has become a real  
alternative to DS9

# Evolution

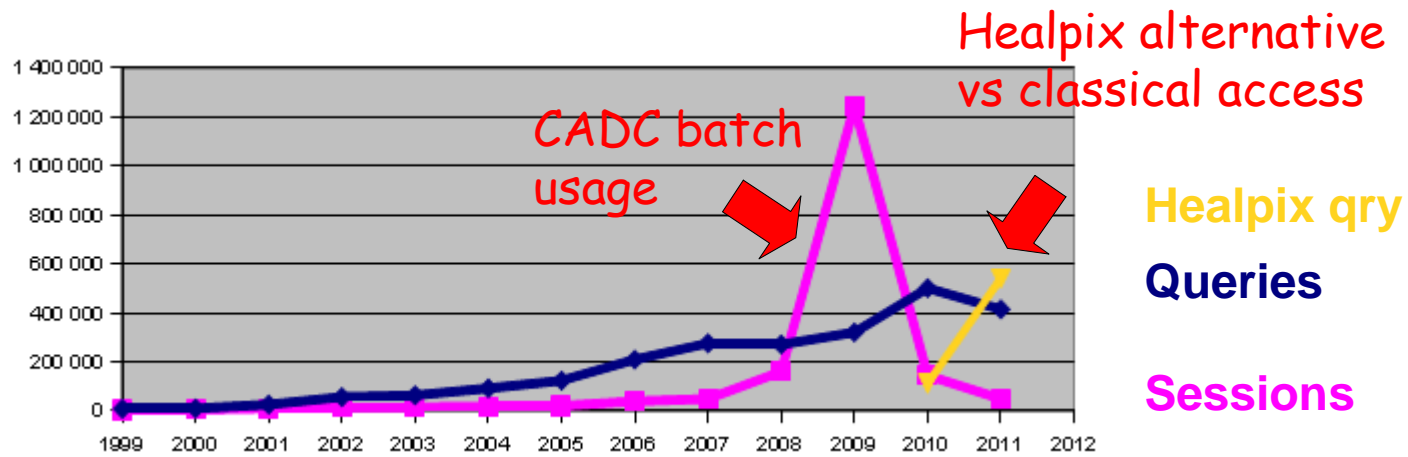
Audience



Hosts

Install

Usage



Healpix alternative vs classical access

CADC batch usage

Healpix qry

Queries

Sessions

(\*) per month

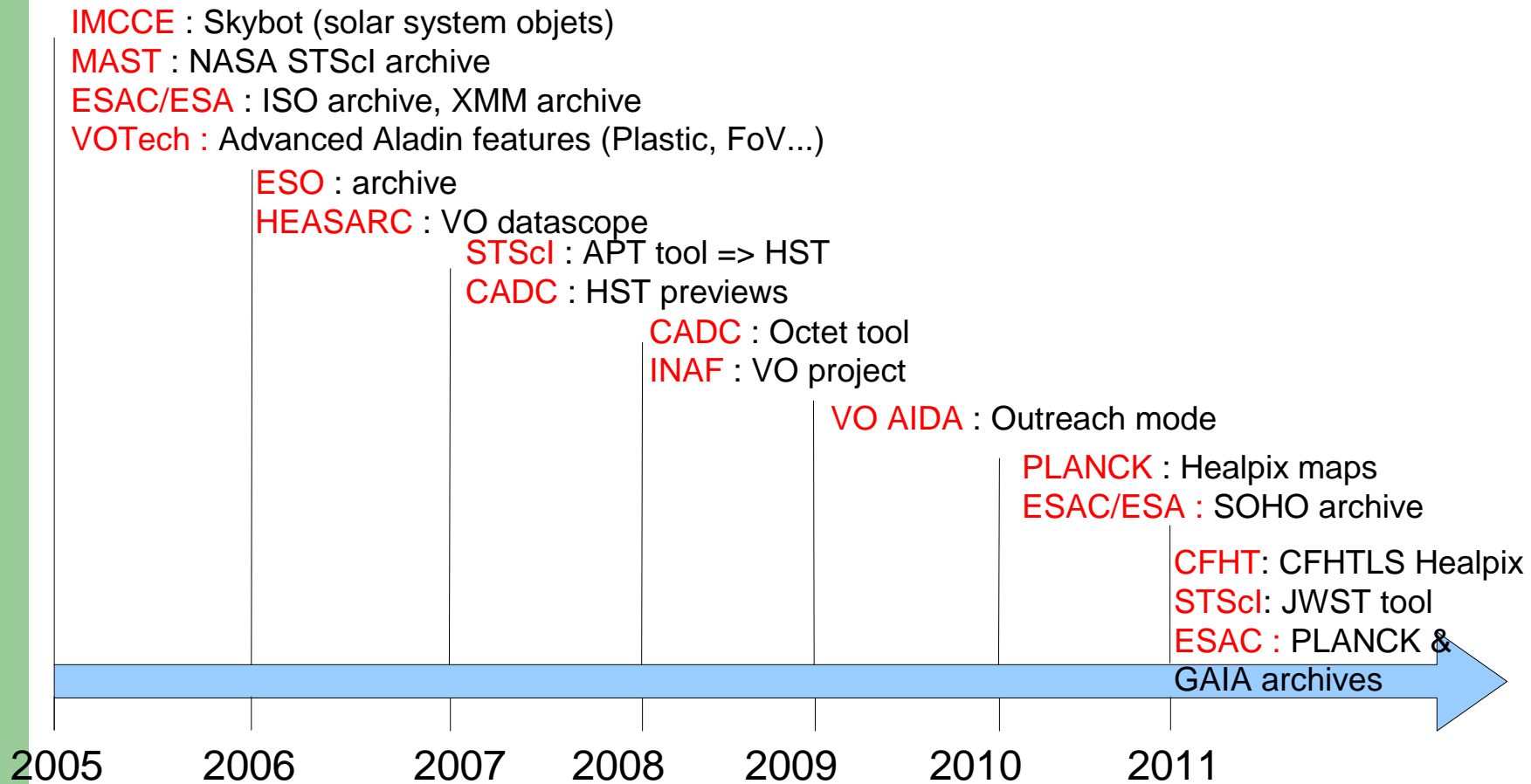
# All figures

Par mois	Hosts		Queries		Sessions		Install		Healpix queries	
1999	1 158		8 599		2 327					
2000	1 619	40%	10 074	17%	5 017	116%	158			
2001	3 595	122%	26 323	161%	10 228	104%	172	9%		
2002	5 163	44%	56 870	116%	14 497	42%	215	25%		
2003	5 311	3%	63 969	12%	15 231	5%	244	13%		
2004	5 769	9%	92 425	44%	18 431	21%	545	123%		
2005	6 449	12%	123 775	34%	20 979	14%	823	51%		
2006	6 726	4%	209 841	70%	39 328	87%	1 807	120%		
2007	8 677	29%	276 301	32%	45 127	25%	2 021	12%		
2008	9 146	5%	271 435	-2%	160 437	227%	2 422	20%		
2009	9 444	3%	320 963	18%	1 244 584	676%	2 722	12%		
2010	10 215	8%	501 842	56%	145 250	-58%	2 572	-6%	111 473	
2011	10 673	4%	414 880	-17%	49 016	-66%	2 932	14%	541 863	388%

CADC  
batch usage

Healpix alternative  
vs classical access

# Main collaborations

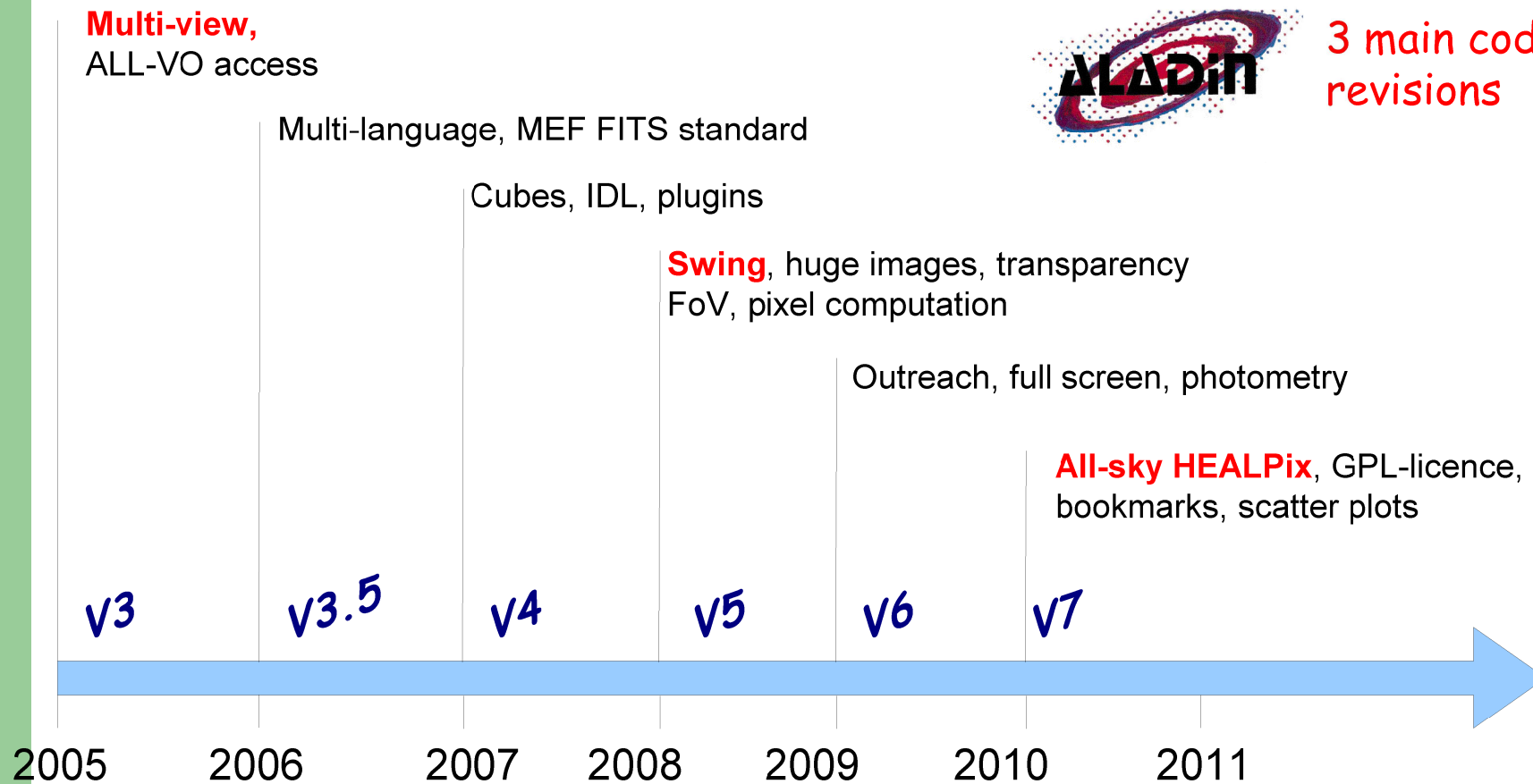




# Main code evolutions



3 main code revisions



# Specific Aladin servers at CDS

Historically : Aladin image server  
=> Objectivity database on a Sun

+ Simbad  
+ VizieR

2010 : Simbad fast access

2011 : 2 mirrored HEALPix servers (2 x  
linux/30TB)

+ 3 computation machines (3 x linux/12TB)



New paradigm with  
HEALPix all-sky mode

## Next steps...

- Continue data all-sky/wide-field integration (pixels, catalogs, footprints)
- Prototyping + implementation of a « metadata » server (*evolution of the historical image data server*)
- Prototyping of a HTML5 Light client (*alternative to Aladin applet – ie inside the Web navigator*)

# For the fun...

Aladin tw.pdf - Adobe Reader

天文學家的阿拉丁神燈

## The Aladin Sky Atlas

天象星繁浩，雖然每一顆星看似大性、位置、亮度、特徵、運動狀態...，無一開宇宙之謎的重要線索。這些上帝的掌中明珠，一般業餘者耳熟能詳的Starry\_Night等，在上傳顆恆星資料與資料時，可謂毫無招架。天文學專業需求的強力astronomical Data Center Atlas (上圖) 正是其中

Doc translations

Courses

Técnicas experimentales en Astrofísica

Departamento de Astrofísica

Facultad de Ciencias Físicas, Universidad Complutense de Madrid

### 7 Ciencia con ALADIN

OBJETIVOS

- Aprender a buscar y familiarizarse con el software.
- Calibración astronómica.
- Estudio de la morfología fotométrica y de las regiones en una galaxia.
- Identificación de regiones de observación espectral.

Astronomy Tools and the Aladin Sky Atlas by Peter Campbell-Burns | Farnham Astronomical Society

HOME MEMBERS VENUES OBSERVING PROGRAMME CONTACTS EVENTS RESOURCES

Astro societies

Re: Aladin Sky Atlas (#3 (permalink))

Posts: 7,416  
Join Date: Oct 2005

lunator is Offline  
Super Moderator  
Main Sequence

Re: Aladin Sky Atlas - 27th June 2007, 01:34 PM

Barkis

I use it all the time.

It is a fantastic resource although not infallible as if the database it uses is incorrect then Aladin is incorrect.

Cheers

Ian

News groups

ESO Home

Science Users Information

Observing Facilities

Future Facilities

Observing with ESO Telescopes

Science Software

Instrument Pipelines

Common Pipeline Library

Software repositories

Scio

\*\* Note - all changes related to the software are in the software repository.

Contents

- Data Analysis Systems
- Image Display Servers
- Graphics Software
- Scripting Languages
- Scientific Libraries
- Miscellaneous Utilities
- Virtual Observatory Tools

Virtual Observatory Tools

- Aladin - Aladin Sky Atlas
- VOspec - tool for handling spectra
- VOplot - VOTable plotting
- Plastic - Platform for Astronomical Tool InterConnection
- Specview
- Splat - Spectral Analysis Tool
- Stilts - Starlink Tables Infrastructure Library Tool Set
- TOPCAT - Tool for OPERations on Catalogues And Tables

internet de una amplia base de datos.

28th International School of Pure and Applied Astrophysics (ISAP) INAOE, Tonantzintla, Puebla, Mexico

Astronomical Databases and Software

Surfing the Tsunami

Lab 3: The Wonderful World of Aladin

CIEL ESPACE

AGENCE PHOTOS

Inscrivez-vous à la newsletter

RECHERCHE DANS LE SITE

ACCUEIL LA LUNE PHOTOGRAPHIE

LA LA LUNE

RÉVOLUTION NUMÉRIQUE, LE CIEL REDÉCOUVERT

En 2002, il s'est vendu en France plus de 200 000 exemplaires de ce magazine.

hors-série CIEL espace

Photographe le ciel

17-07/2007

SOMMAIRE DU MAGAZINE

EDITO

ne ap... opening

Magazine

SOFTPEDIA

Updated one minute ago

Today's News: SoftPlay Beta for Android Phones and Tablets Updated with New Features and Improvements

WINDOWS GAMES DRIVERS MAC LINUX SCRIPTS MOBILE HANDHELD

PROGRAM FINDER

Aladin 6.011

DOWNLOAD HUBS

WINDOWS CATEGORIES:

- Antivirus
- Authoring tools
- CD/DVD Tools
- Compression tools
- File management
- FTP clients
- Image tools
- IP/DVD Tools
- Mobile Phone Tools
- Music tools
- PDF tools
- Share
- System
- System Tools
- Torrent

DOWNLOAD

Downloads: 2,599

User Rating: Fair (2.9/5)

Rated by: 13 user(s)

Developer: Pierre FERNIQUE | More programs

License / Price: Freeware / FREE

Size / OS: 2.6 MB / Windows All

Aladin for Astronomy at the University of Louisville - Mozilla Firefox

Aladin for Astronomy at the University of Louisville

Images and Data from Moore and Mt. Kent Observatories in Aladin

- Start Aladin on this server
- Start Aladin and open images of Proxima Centauri in 2007 and 2009 (Large files!)
- Download Aladin for your own computer
- Aladin Sky Atlas Home
- Use ImageJ for image processing

You must have a Java-enabled browser to run Aladin on the Web.

For Firefox use these settings to allow Java

University tools