

REFONTE DES OUTILS ET SUPPORTS DE COMMUNICATION EXTERNE DU CDS

LES PRINCIPAUX SUPPORTS PAPIER MIS EN PLACE

OTHER CDS SERVICES

CDS PORTAL
A single entry point to search and access the different CDS services.
The CDS Portal facilitates the workflow between the services and your data with eMyCDS:
<http://cdsportal.unistra.fr>

X-MATCH
A powerful cross-match service to merge by position sources from large catalogues, SIMBAD, or your own data.
<http://cdsmatch.unistra.fr/cgi-bin/Sesame>

SESAME NAME RESOLVER
Resolve an object name to its position using Simbad, VizieR and NEB.
<http://cds.unistra.fr/cgi-bin/Sesame>

ALADINITE
A lightweight version of the Aladin tool, running in the browser and geared towards simple visualization of a sky region.
<http://aladin.unistra.fr/AladinLite/>

CDS AND YOU
Registering to create your own MyCDS login is easy and free. You'll get instant access to:
- writing annotations on SIMBAD objects or VizieR catalogues
- better use of your XMatch service
- expanded personal storage space
- a single entry point to search and access the different CDS services

PUBLICATION SUPPORT
You can upload your data for publication into VizieR by FTP or via a WEB tool.
Complete your data with the appropriate description following our instructions
<http://cdsmatch.unistra.fr/cgi-bin/Sesame>

The VizieR pipeline accepts:
- few tabular data
- images
- spectra or time series (in FITS format)

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SIMBAD **VIZIER** **ALADIN**

SIMBAD provides basic data, cross-identifications, bibliography and measurements for astronomical objects outside the solar system.
For each object, SIMBAD provides object types, measurements (with references), coordinates, object identifiers, a preview (using Aladinite), etc.
<http://cds.unistra.fr/cgi-bin/Simbad/>

VizieR provides access to the most complete library of published astronomical catalogues and data tables available on line, organized in a self-documented database.
VizieR provides access to:
- 11 500 catalogues, 25 400 tables
- large surveys: 2MASS, WISE, SDSS, UCAC, etc.
- tables published in astronomical journals: AAS, A&A, MNRAS
- 1 500 catalogues having associated data like images, spectra, time-series
Photometry
VizieR computes photometry points for 2 200 catalogues and 147 filters, as shown in this photometry widget.
<http://vizier.unistra.fr/vizieR/sep/>

VizieR in the VO
VizieR shares data to VO softwares using standard like the VOTable output or SAMP.
You can query the VizieR tables with ADIQ (SQL extension for astronomy) with IAPVizieR.
<http://vizier.unistra.fr/adiq/>

Aladin is an interactive sky atlas, allowing to visualize digitized astronomical images, and to superimpose data from many catalogues or databases.
Aladin can display regular FITS images, but also HPS surveys (Hierarchical Progressive Survey).
Why use HPS surveys?
- More than one hundred surveys already published by CDS, IAS, IRAP, etc.
- Dedicated to astronomers: low distortion areas in full sky view or at the poles, free pixel values available, etc.
- Many browsers: Aladin (Java/2009/CDS), Mizar (HTML5/WebGL/2012/CNRS), Aladin Lite (HTML5/Canvas/2013/CDS)
- Usable with your own data, embeddable in your own WEB pages (thanks to AladinLite).
- Build your own HPS from your collection of images using SkyGen Java code, or directly from Aladin.

Le dépliant

Les cartes de visite

Les cartes postales

RESEARCH AND DEVELOPMENT AT CDS

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The CDS has a long tradition of Research and Development to improve its services and to integrate the new technologies which are interesting and which have a good chance to « survive ».

Aladin remote control with SkyTouch, an app running both on android and IOS, using SAMP.

SKYTOUCH POINTING TO M31
A small android app to retrieve basic information about astronomical objects through the name resolver and with a pointing capability (user interface in english or french).

HEALPIX
HEALPIX image server in the clouds accessed by HEALPIX clients. Done to evaluate the performances, the cost, etc.
Part of this work has been shown during the EuroVO CoSADIE and the IVCA meetings.
Have a look at <http://cds.unistra.fr/resources/doku.php?id=feature> for more information :

Information retrieval in VizieR Readline (~11000) files.
ElasticSearch, Solr and Lucene were involved in the tests.

We are also exploring other topics like Big Data, augmented reality, etc. The educational community should also benefit from some of these experiments through new user-friendly interfaces, in terms of interaction.

Or contact us at cds-question@astro.unistra.fr

Les posters

Le marque-page