

MySpec – Mylmg Tools for publication of spectra and images

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1. Introduction

MySpec and MyImg are applications intended to facilitate the publication of spectra and images, both as a web page and as Virtual Observatory SIAP and SSAP services.

They have been designed to build the services from a collection of spectra or images and without any previous knowledge of any programming language.

A clear guidance of what to do and how to proceed to publish VO-compliant data was a major requirement for the Spanish data providers.

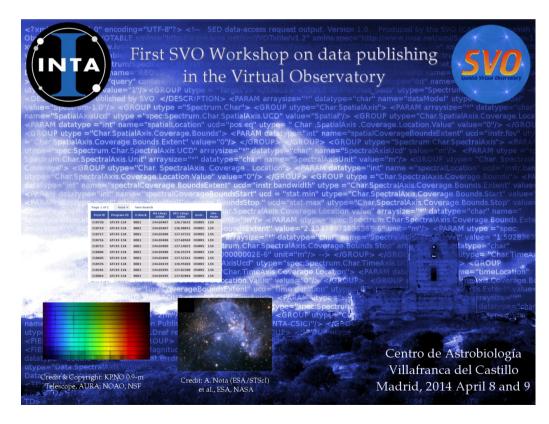






1. Introduction

First release took place during the First SVO Workshop on data publising (Madrid, April 2014).











2. Configuration

On purpose, the tools do not work like black boxes. Some technical knowledge is required, in particular if changes in the standard functionalities are required.



Data requirements:

Data (spectra/image) have to be in FITS format. The header must contain the RA and DEC keywords, both in decimal degrees, and TIME keyword for spectra data.







3.Installation

Once the tool is deployed, you can access via url a private web page where the project can be defined.

Here you must define your data and how to show them (search form and result page). The system will create the database and will ingest the data there.

My Spectral Your Logo **Archive** Start project show? UCD Name Keyword Type search? Units Description RA Double - \checkmark \checkmark pos.eq deg To create your archive, you have to follow the next steps: DEC Double • \checkmark \checkmark pos.eq deg 1. Define your data here TIME choose type - \checkmark \checkmark time.epoch 2. Download the DataBase Creation Script and executed it in your database 3. Ingest your data here String 4. Test that you web access is working properly • 5. Configure and re Ingest Data • Back to Index • • D214680 F3 jacob 20081105 05.fits this file is already in the syster • Version 0.1 - April 201 does not have the keyword 'DATE OBS' ID18409_F1_iacob_20110912_01.fits . Inserted in the database his file is already in the sy already in the F3 jacob 20081106 07.fit his file is already in the sys does not have the keyword 'DATE OBS HD14052_F3_iacob_20101024_03.fits Inserted in the database 2905 E3 jacob 20091111 04 fits his file is already in the s





4. Final result

Once the configuration process is done, the web application and the VO service will be ready.

Your Logo	My Spec Archiv			
	Search for	n		
Search by Obj ID/Coordinates:				
ObjID/ Coordinates:		Coordinates format: decimal degrees or sexagesimal degrees HH MM SS.	S ±DD MM SS.S	
Search radius:	0.05	(decimal degrees)		
Search by date:				
Between:	1 January 📩			
And:	1 January 🗾			
Search by OBJECT:				Soorob form wob poor
OBJECT:				Search form web page
You can search a substring using d'%' For example "HD%"				
Search by JULIAN:				
Between:				
And:				
Number of Results per Page: 10 •		Page to show: 1		
Submit Reset Form				
Version 1.0 - June 2016 © CAB		org-name - SVO - Ho	me - Help Desk	







4. Final result

Once the configuration process is done, the web application and the VO service will be ready.

Your Logo

My Spectral Archive



Results

Total results: 23										
ID	RA (deg)	DEC (deg)	TIME	TIME_OBS (seg)	OBJECT	TELESCOPE	AIRMASS	JULIAN	Header	Descarga 💆
1	178.92859	-22.416277	2013-12-12	16:00:30.333472	LP 851-346	NASA IRTF	1.391	56639.167	Header	Download 🧕
2	81.681168	-44.929306	2013-12-12	10:33:41.966427	0526-4455	NASA IRTF	2.337	56638.94	Header	Download 🧕
3	130.88867	10.412083	2013-12-12	14:01:22.27776	0843+1024	NASA IRTF	1.019	56639.084	Header	Download 🧕
4	130.12396	18.402527	2013-12-12	12:30:09.956466	GJ 316.1	NASA IRTF	1.04	56639.021	Header	Download 🧕
5	135.0983	21.834833	2013-12-12	12:35:50.500395	LHS 2090	NASA IRTF	1.059	56639.025	Header	Download 🧕
6	154.14458	27.863806	2013-12-12	13:31:43.537975	1016+2751	NASA IRTF	1.097	56639.064	Header	Download 🧕
7	135.09866	25.659527	2013-12-12	12:53:27.21353	0900+2539	NASA IRTF	1.037	56639.037	Header	Download 🧕
8	127.48775	26.919416	2013-12-12	12:05:15.231617	0829+2655	NASA IRTF	1.062	56639.004	Header	Download 🧕
9	129.817	12.898417	2013-12-12	13:43:05.353886	0839+1253	NASA IRTF	1.008	56639.072	Header	Download 🗹
10	178.46945	6.9989171	2013-12-12	15:17:31.061358	LHS 2471	NASA IRTF	1.111	56639.137	Header	Download 🧕

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Retrieve Selected Data

Back to Search Form

org-name - SVO - Home - Help Desk

Result web page



MySpec - MyImg



4. Final result

Once the configuration process is done, the web application and the VO service will be ready.

-<RESOURCE type="Results"> <DESCRIPTION/> <INFO name="OUERY STATUS" value="OK"/> <INFO name="SERVICE PROTOCOL" value="1.1">SSAP</INFO> <INFO name="REQUEST" value="gueryData"/> -<INFO name="INPUT:TIME" value="2013" datatype="double">

- <VOTABLE version="1.1" xsi:noNamespaceSchemaLocation="xmlns:http://www.ivo.net/xml/VOTable-1.1.xsd">

- <DESCRIPTION>Temporal Region </DESCRIPTION>
- </INFO>
- <INFO name="INPUT:FORMAT" value="ALL" datatype="char" arraysize="*"> <DESCRIPTION>Request format of image</DESCRIPTION>
- <VALUES>
- <OPTION value="image/fits"/> </VALUES>
- </INFO>
- <INFO name="Collection" value="ivo:/svo/sdss"/>
- <INFO name="TableRows" value="23"/>
- -<TABLE ID="ssap" name="ssap search results">
- <DESCRIPTION>Result showed in VOTable format.</DESCRIPTION>
- <FIELD ID="AssocID" name="AssocID" datatype="char" utype="ssa:Association.ID" arraysize="*">
- <DESCRIPTION>Association identifier</DESCRIPTION> </FIELD>
- -<FIELD ID="AcRef" name="AcRef" datatype="char" ucd="meta.ref.url" utype="ssa:Access.Reference" arraysize="*"> <DESCRIPTION>URL used to access dataset</DESCRIPTION>
- </FIELD>
- -<FIELD ID="Format" name="Format" datatype="char" utype="ssa:Access.Format" arraysize="*"> <DESCRIPTION>Content or MIME type of dataset</DESCRIPTION>
- </FIELD>
- <FIELD ID="Title" name="Title" datatype="char" ucd="meta.title;meta.dataset" utype="ssa:DataID.Title" arraysize="*"> <DESCRIPTION>Dataset Title</DESCRIPTION>
- </FIELD>
- <FIELD ID="Location" name="Location" utype="ssa:Char.SpatialAxis.Coverage.Location.Value" ucd="pos.eg" datatype="double" arraysize="2"> <DESCRIPTION>Right Ascension and Declination of the star</DESCRIPTION> </FIELD>
- <FIELD ID="TIME" name="TIME" datatype="DATE" width="" ucd="time.epoch" arraysize="*"/> <FIELD ID="TIME OBS" name="TIME OBS" datatype="TIME" width="" ucd="time.epoch" arraysize="*"/>
- <FIELD ID="OBJECT" name="OBJECT" datatype="VARCHAR(50)" width="" ucd="-" arraysize="*"/>
- <FIELD ID="TELESCOPE" name="TELESCOPE" datatype="VARCHAR(50)" width="" ucd="instr:tel" arraysize="*"/>
- <FIELD ID="AIRMASS" name="AIRMASS" datatype="FLOAT" width="" ucd="-" arraysize="*"/>
- <FIELD ID="JULIAN" name="JULIAN" datatype="INT" width="" ucd="time.epoch" arraysize="*"/>
- <FIELD ID="INSTRUMENT" name="INSTRUMENT" datatype="VARCHAR(50)" width="" ucd="-" arraysize="*"/>
- <FIELD name="AXES" ID="AXES" ucd="VOX:Spectrum axes" datatype="char" arraysize="*">
- <DESCRIPTION>
- Axes names (corresponding to the keyword names in the fits file) thatought to be used to do a display. </DESCRIPTION>
- </FIELD>
- <FIELD name="UNITS" ID="UNITS" ucd="VOX:Spectrum units" datatype="char" arraysize="*"> <DESCRIPTION>Units in which each of the axes is represented.</DESCRIPTION> </FIELD>
- -<FIELD name="DIMEQ" ID="DIMEQ" ucd="VOX:Spectrum dimeq" datatype="char" arraysize="*"> - < DESCRIPTION>
- Dimensional equation of the units in each of the axes </DESCRIPTION>

SSAP Service







5. Working implementations

IACOB Project (IAC) http://vivaldi.ll.iac.es:8080/iacob/jsp/search.jsp



SpeX Library







Go to the *NEW* SpeX Prism Library Analysis Toolkit (SPLAT) website

Go to the old SpeX Prism Library (SPL) website











6. Online documentation

The documentation is availabe for the general public on:

http://svo.cab.inta-csic.es/files/svo/Public/Meetings/MySpec_MyImg_7jun2016.odt

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Unidad de Archive de Date: 2016-06-07 Page 1 of 21					
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	INTA	A-CSIC			

If you are interested in creating your own archive using this tool you have to contact with us to obtain the .war file.

MySpec-MyImg Tools for publication of spectra and images in the Virtual Observatory

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