Primera Escuela de la Red Temática SVO.
Madrid, Noviembre, 27-28, 2006

VO Registry

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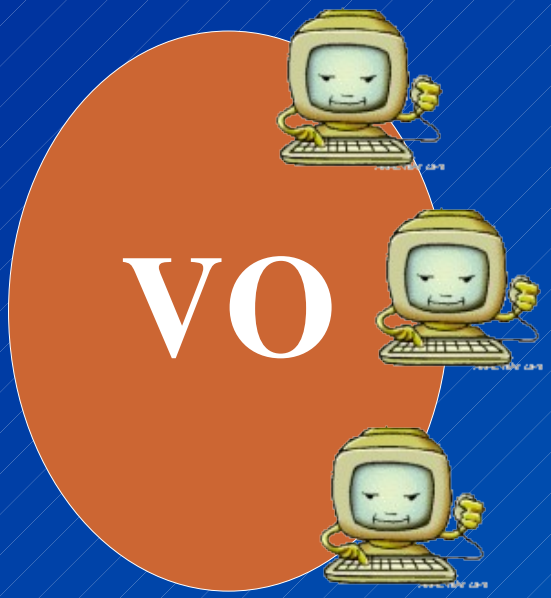
¿Qué servicios hay en VO?

- En VO, cada centro de datos crea sus propios servicios.
- Un usuario querrá saber qué servicios hay que puedan satisfacer sus necesidades.
- ¿Cómo lo averigua?



¿Qué servicios hay en VO?

- Podría haber un ÍNDICE
  - El *centro de datos* registraría su servicio (catálogo, espectros, modelo teórico...)
  - El *índice* organizaría los servicios por categorías...
  - El *usuario* iría y buscaría servicios del tipo que le interesaran, luego accedería a cada servicio y bajaría los datos que encontrase.

➔ **NO es suficiente**

➔ **Necesitamos algo más automatizable.**

¿Qué servicios hay en VO?

- REGISTRY
  - El *centro de datos* registra su servicio (catálogo, espectros, modelo teórico...)

Read only view of data.

Title?	INES: The IUE Newly Extracted Spectra		
Harvested From			
Shortname?	INES SSA	Identifier?	http://sdc.laeff.esa.es/ines/
ContactName?	FF Archive Support Team	ContactEmail?	esm@laeff.esa.es
Creator?	ESA, INTA	Publisher?	INTA/LAEFF
Contributor?	LAEFF/Spanish Virtual Observatory	Subject?	Space Observatory, Ultraviolet Astronomy, spectrophotometry
ResourceType	SSAP		
Description?	IUE (International Ultraviolet Explorer) performed UV spectrophotometry at resolutions of 0.2 and 6 Angstroms from 1150 to 3350 Angstroms, acquiring more than 104000 spectra of some 9600 objects.		
Related Resources			
Type?	Archive Collection of Poin	Instrument?	Spectrograph
Date?	11/22/2004 12:22:55 PM	Version?	1.0
ReferenceURL?	http://sdc.laeff.esa.es/ines/docs/SIAP.pdf	ServiceURL?	http://sdc.laeff.esa.es/ines/jsp/ssap.jsp
CoverageSpatial?		CoverageTemporal?	1978-01-26 to 1996-09-30
RegionOfRegard?	1	CoverageSpectral?	UV
ContentLevel?	Research	Facility?	IUE:International Ultraviolet Explorer
ModificationDate	5/5/2006 6:18:50 AM	ValidationLevel	2
Interfaces			
Footprint			

¿Qué servicios hay en VO?

- REGISTRY
  - El *centro de datos* registra su servicio (catálogo, espectros, modelo teórico...)
  - El *REGISTRY* es, a su vez, un servicio que se comunica con las aplicaciones VO.
  - Una aplicación VO puede preguntarle al registry qué servicios VO hay de un tipo, acceder a cada servicio y averiguar si tiene datos de los que necesita el usuario y luego ofrecérselos.

➔ **El proceso puede ser transparente para el usuario**

SED Builder & Fitting Tool: Search Form

Object ID: vega

Submit Query | Reset

Position: R.A.: DEC.: Size:

Data Services:

Spectroscopic Data

Mark all

- [x] **Hubble Space Telescope Faint Object Spectrograph**
- [x] **HyperLeda FITS Archive Simple Spectrum Data Access**
- [x] **Far Ultraviolet Spectroscopic Explorer (Simple Spectrum Data Access)**
- [x] **Infrared Space Observatory Simple Spectrum Data Access**
- [x] **The GIRAFFE Archive (Science Ready Data)**
- [x] **Hubble Space Telescope Spectra**
- [x] **Hopkins Ultraviolet Telescope**
- [x] **Wisconsin Ultraviolet Photo-Polarimeter Experiment**
- [x] **Extreme Ultraviolet Explorer Merged Spectra**
- [x] **Far Ultraviolet Spectroscopic Explorer**
- [x] **HiG - Simple Spectral Access to HI (21cm) Spectra of Galaxies**
- [x] **INES: The IUE Newly Extracted Spectra**
- [x] **OMC: The INTEGRAL Optical Monitoring Camera**
- [x] **Photometry of Class 0 sources**
- [x] **International Ultraviolet Explorer**

SED Builder & Fitting Tool: Results

Resolved Object	
Search Name	vega
SIMBAD Name	V* alf Lyr
Type	V*
RA	279.23474
DEC	38.78369

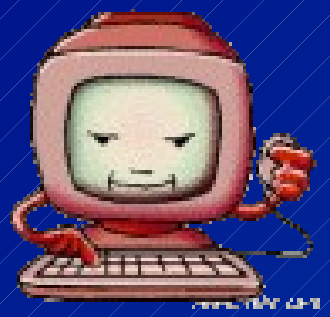
Equivalent Names			
V* alf Lyr	NAME VEGA	* alf Lyr	* 3 Lyr
ADS 11510 A	AG+38 1711	BD+38 3238	CCDM J18369+3847A
CEL 4636	CSI+38 3238 1	CSV 101745	1E 183515+3844.3
EUVE J1836+38.7	FK5 699	GC 25466	GCRV 11085
GEN# +1.00172167	GJ 721	HD 172167	[HFE83] 1223
HGAM 706	HIC 91262	HIP 91262	HR 7001
IDS 18336+3841 A	IRAS 18352+3844	IRC +40322	JP11 2999
LTT 15486	N30 4138	NLTT 46746	NSV 11128
8pc 128.93	PLX 4293	PMC 90-93 496	PPM 81558
RAFGL 2208	ROT 2633	SAO 67174	SKY# 34103
TD1 22883	UBV 15842	UBV M 23118	USNO 882
uvby98 100172167 V	Zkh 277		

Products found matching your criteria	
POS = 279.234735 , 38.783692 SIZE = 0.083333	
Hubble Space Telescope Faint Object Spectrograph	
HyperLeda FITS Archive Simple Spectrum Data Access	7
Far Ultraviolet Spectroscopic Explorer (Simple Spectrum Data Access)	
Infrared Space Observatory Simple Spectrum Data Access	49
The GIRAFFE Archive (Science Ready Data)	
Hubble Space Telescope Spectra	37
Hopkins Ultraviolet Telescope	
Wisconsin Ultraviolet Photo-Polarimeter Experiment	
Extreme Ultraviolet Explorer Merged Spectra	
Far Ultraviolet Spectroscopic Explorer	
HiG - Simple Spectral Access to HI (21cm) Spectra of Galaxies	
INES: The IUE Newly Extracted Spectra	152
OMC: The INTEGRAL Optical Monitoring Camera	
Photometry of Class 0 sources	
International Ultraviolet Explorer	54
Wisconsin Halfwave Spectropolarimeter	
uvbyß photometry	1
JHK photometry	43
Hipparcos photometry	1

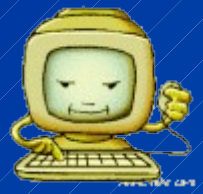
Stellar Physical Parameters	Value	Error
T_{eff} (IR)		
T_{eff} (Strömgren)	9434	
log g	4.06	
M/H		
E(B-V)	0.0	0.0
Flags	191122	
Strömgren Dist. (pc)	7.0	
Chi^2		

Mark all ☑

¿Qué servicios hay en VO?



Registry



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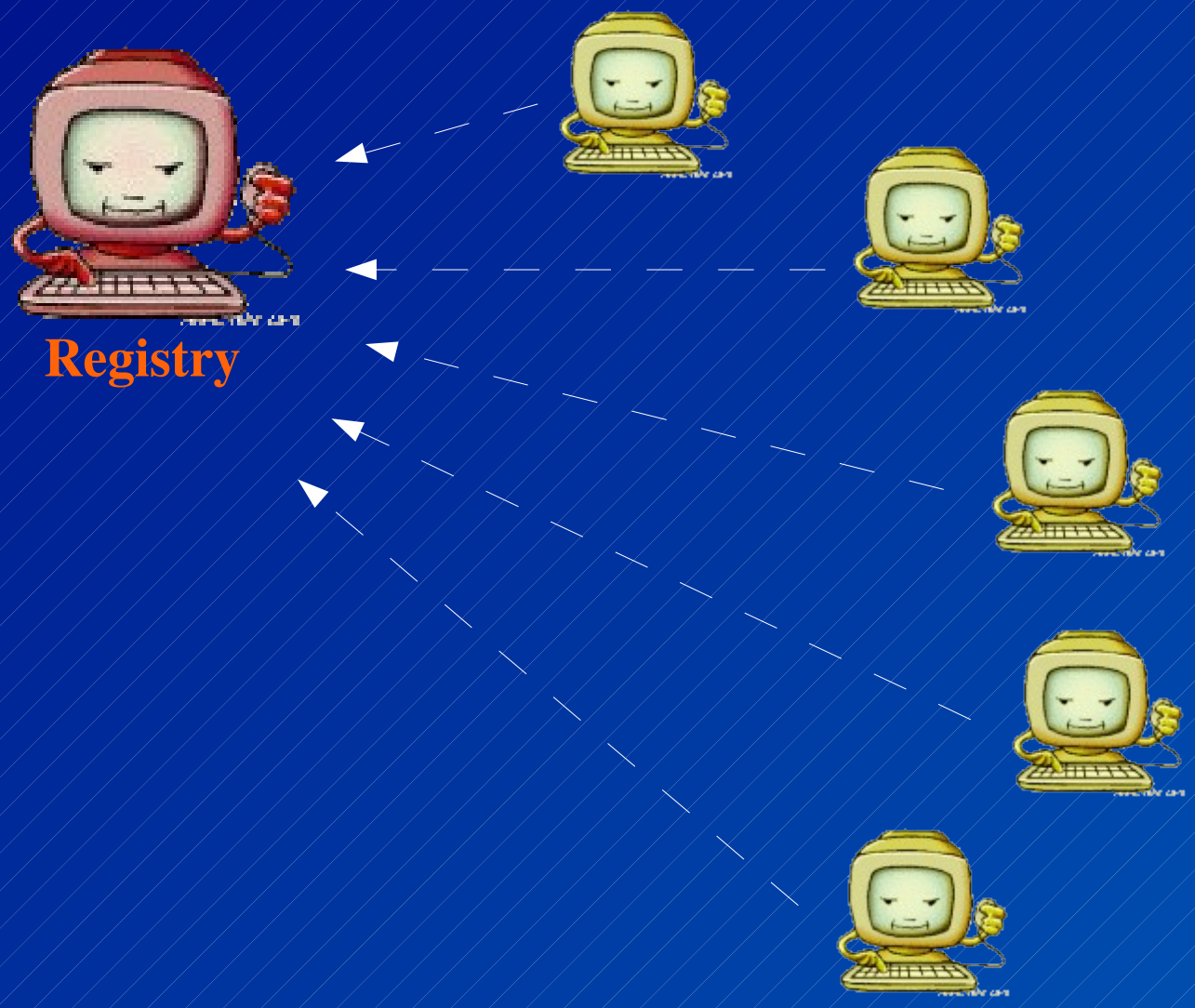


¿Qué servicios hay en VO?

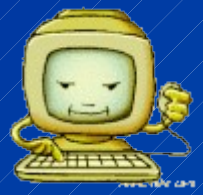
Vega?
UV?

¿Qué servicios hay en VO?

Registry

Vega?

UV?



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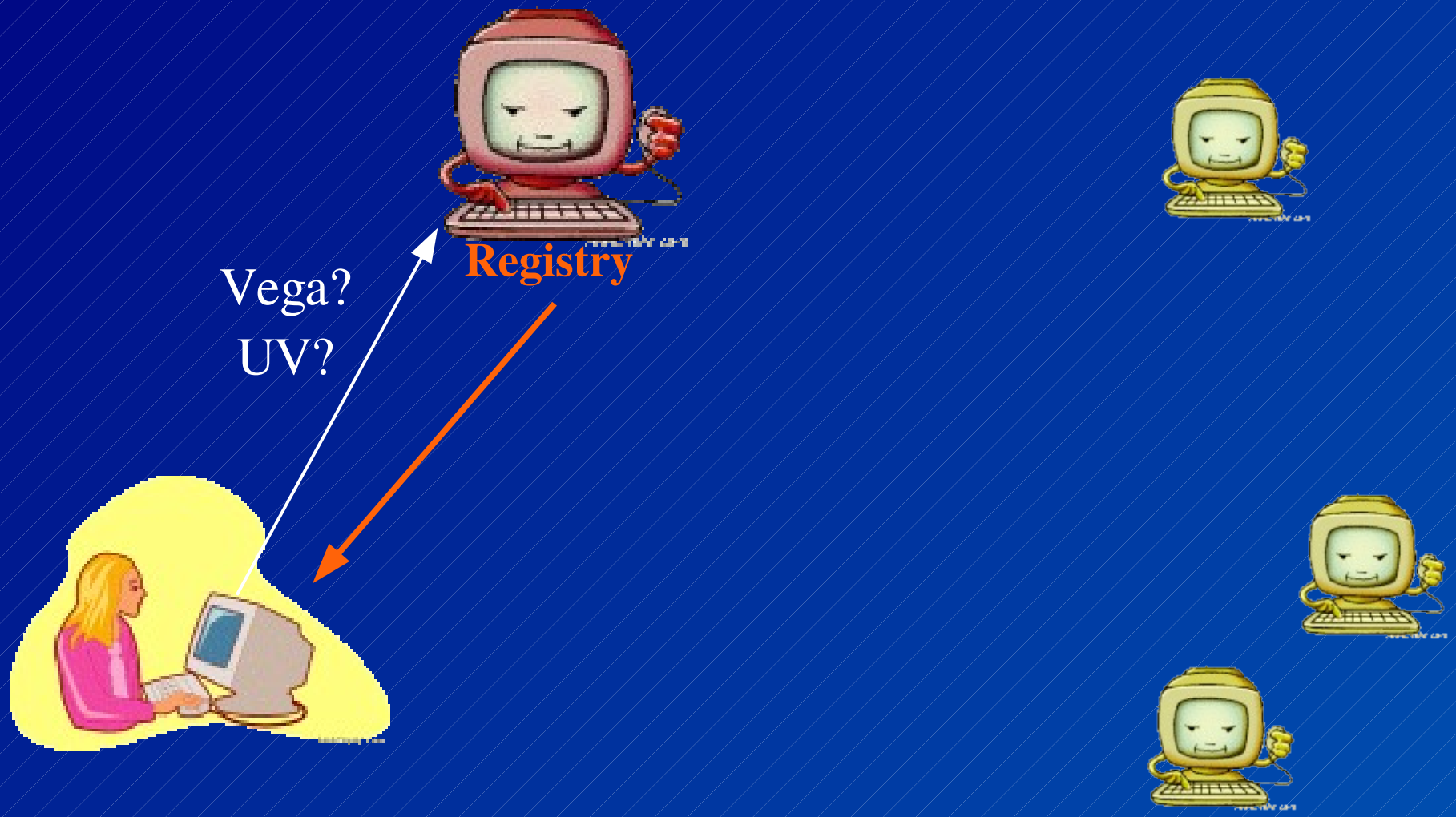

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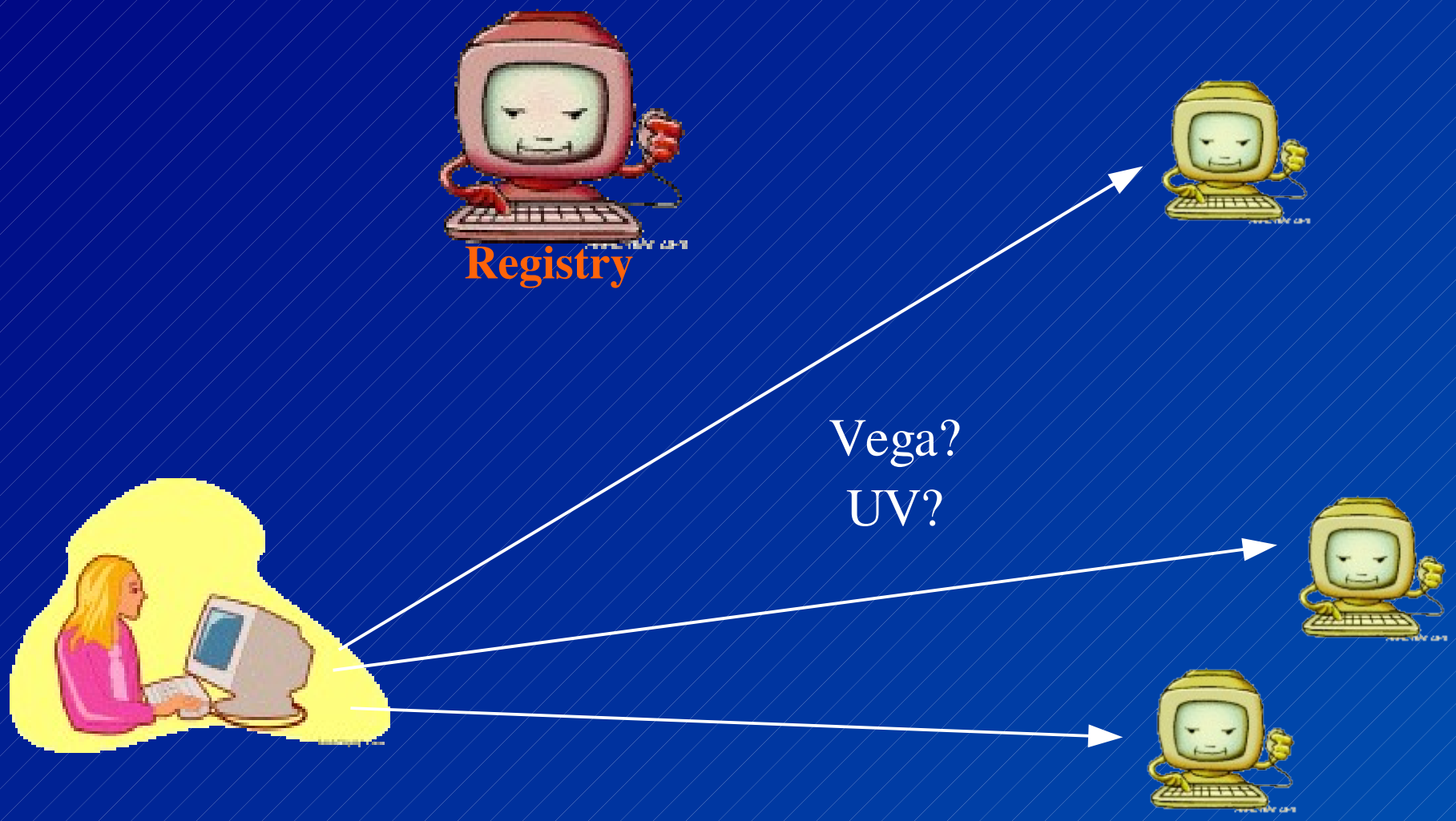

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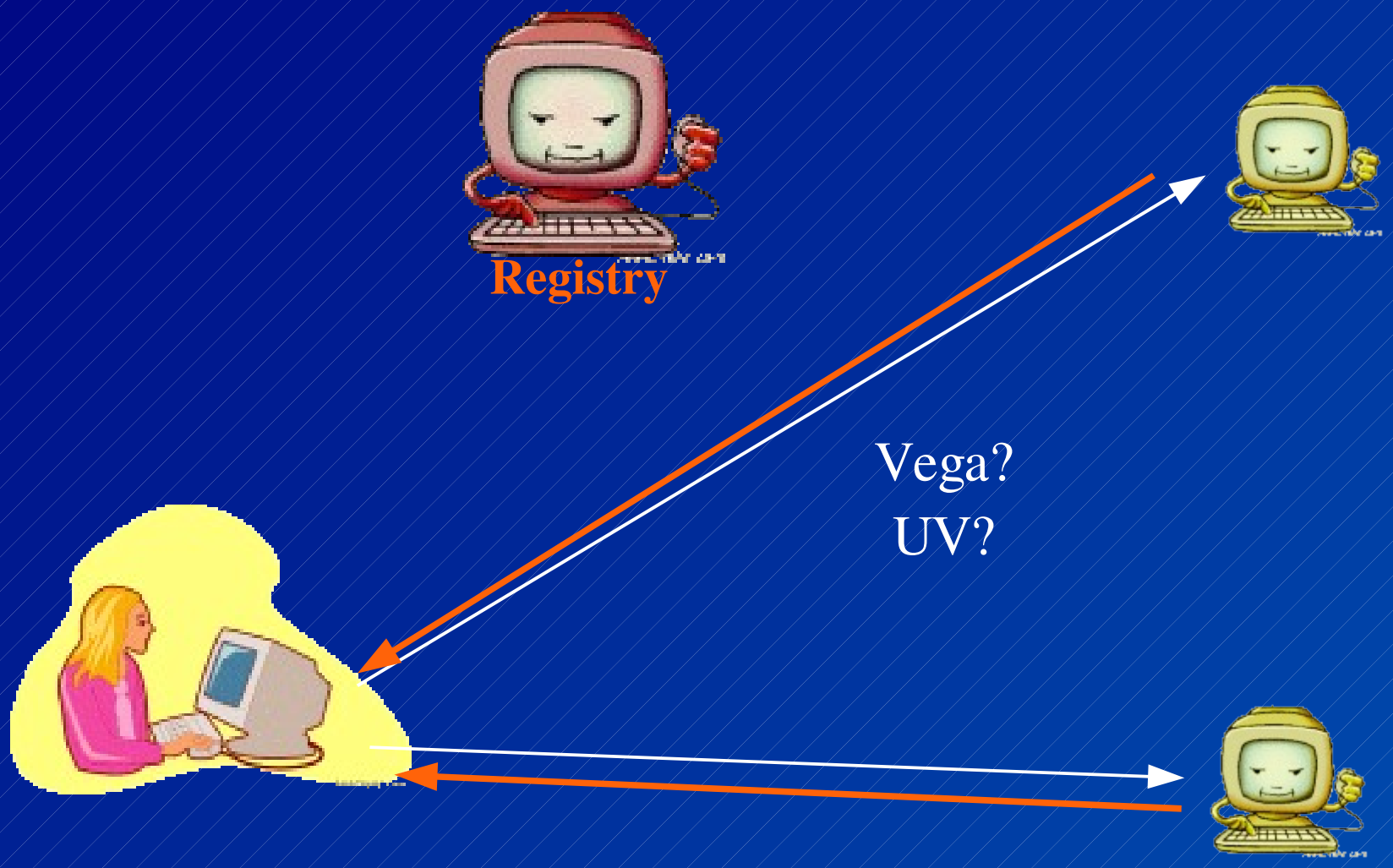

HARVESTING

- No sólo existe un REGISTRY.
  - Todo el que quiera puede crear el suyo, según las necesidades de sus usuarios potenciales.
  - Cada centro de datos sólo necesita registrar sus servicios en un REGISTRY, el que quieran.
  - El usuario/aplicación VO puede usar el registry que quiera.
- Los distintos REGISTRY's tienen que tener la capacidad de comunicarse entre sí, averiguar los servicios registrados en los otros y actualizar su información
  - ➔ Eso es lo que se llama HARVESTING

STScI/JHU Registry

HOME | QUERY | PUBLISH | DEVELOPER | CONTENTS

NVO Home
FAQ
Projects
IVOA WG
Help

Virtual Observatory Data and Service Locator

Search! Advanced Search

Enter word(s) separated by single spaces (e.g cool star)
View the animated tutorial

The service is replicated at http://voservices.net/registry/ Last syncronization was at 7/27/2006 1:55:05 PM

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Last Modified: Thursday, April 20, 2006 at 2:10:53 PM by Gretchen Greene
Revision 1.12

STScI/JHU Registry

HOME | QUERY | PUBLISH | DEVELOPER | CONTENTS

NVO Home

FAQ

Projects

IVOA WG

Help

Please enter your SQL predicate here using VO MetaData e.g.
ResourceType like 'CONE' and contentlevel like '%research%'

Custom Predicate

```
ResourceType like 'CONE' and contentlevel like '%research%'
```

-OR-

Choose Select Predicate from List

Execute Query

Text Search

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Resource Publication

Click on the kind of resource you wish to publish to this registry. All resources should have an Authority ID as the primary part of the Identifier to be compliant with the IVOA standards. Click here for examples.

ResourceType	Description
AUTHORITY	a naming authority; an assertion of control over a namespace represented by an authority identifier
CEAAPPLICATIONTYPE	Astrogrid Common Execution Architecture App
CEASERVICETYPE	Astrogrid Common Execution Architecture Service
CONE	Simple Cone Search (IVOA Standard)
CONESEARCH	Simple Cone Search (IVOA Standard)
DATACOLLECTION	A logical grouping of data which, in general, is composed of one or more accessible datasets.(A dataset is a collection of digitally-encoded data with a that is normally accessible as a single unit, e.g. a file.)
HTTP-GET	Simple Web Form
ORGANISATION	A publisher of other resources (At a high level, an organisation could be a university, observatory, or government agency. At a finer level, it could be a specific scientific project, mission, or individual researcher)
OTHER	Other (not recommended)
PROJECT	High level Resource describing project

Searchable Registry

Home | Contents | Search | Publish | Delete | Help/Develop | FAQ

National Virtual Observatory : NVO Registry

To copy an existing record enter the Identifier here:

Search

Do not forget to enter your password and a NEW identifier for inserting the record.

Title?			
Shortname?		Identifier?	
ContactName?		ContactEmail?	
Creator?		Publisher?	
Contributor?		Subject?	
ResourceType	CONESEARCH		
Description?			
Related Resources			
Type?		Instrument?	
Date?	11/26/2006 4:08:18 PM	Version?	
ReferenceURL?		ServiceURL?	
CoverageSpatial?		CoverageTemporal?	
RegionOfRegard?	0	CoverageSpectral?	

Enter word(s) separated by spaces (e.g cool star)

Text Search ines ssap GO! Advanced Search

AND OR Keywords

Only one ResourceType *(SSAP)* found.

1 resources. Showing 1 to 1.

Actions	Title / Description	Subject
View **XML** **Edit** **Copy** **Try It!**	INES: The IUE Newly Extracted Spectra **(INES SSA)** IUE (International Ultraviolet Explorer) performed UV spectrophotometry at resolutions of 0.2 and 6 Angstroms from 1150 to 3350 Angstroms, acquiring more than 104000 spectra of some 9600 objects. INES (IUE Newly Extracted Spectra) was defined as a final step in the archive and distribution phase of IUE data. The purpose of the INES system is to reach the maximum number of scientists, with a simple distribution scheme, and to provide high-quality data in a form that does not require a detailed knowledge of the instrumental characteristics. Problems identified during the scientific verification of the IUE Final Archive (IUEFA) output products were fixed for the INES distribution. The INES distribution system is structured in two levels: A Principal Centre hosted at LAEFF and mirrored at Canada (CADC) and Japan (NAOJ) with the complete database and archive server and a number of National Hosts distributed worldwide.	Space Observatory, Ultrav Astronomy, spectrophoto

Found 1 resources. Showing 1 to 1.

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Read only view of data.

Title?	INES: The IUE Newly Extracted Spectra		
Harvested From			
Shortname?	INES SSA	Identifier?	http://sdc.laeff.esa.es/ines/
ContactName?	FF Archive Support Team	ContactEmail?	esm@laeff.esa.es
Creator?	ESA, INTA	Publisher?	INTA/LAEFF
Contributor?	LAEFF/Spanish Virtual Observatory	Subject?	Space Observatory, Ultraviolet Astronomy, spectrophotometry
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Interfaces			
Footprint			