

# The Virtual Language Observatory

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CLARIN-FR tutorial, Paris

- VLO?
- What is behind it?
- How do I get my data in there?
- Demo

- Virtual Language Observatory
- <http://www.clarin.eu/vlo/>
- Several parts:
  - Google Earth overlay
  - Facet browser:
    - Data
    - Tools (to be integrated into the data browser)
  - Catalogue
  - LRT inventory

- A simple way to narrow down the search space, step by step
- Purpose: quickly navigating through a huge amount of metadata
- **Not** the tool to answer research questions

## COUNTRY

[Netherlands](#) (15563)

[Germany](#) (8802)

[Japan](#) (4010)

[Belgium](#) (3956)

[Papua New Guinea](#) (3838)

[more...](#)

# VLO Faceted Browser (1)

- Click to edit Master text styles

- Second level

- Third level

- Fourth level

- Fifth level

Virtual Language  
Observatory

Explore the world of language resources and technology from different perspectives



[VLO Home](#) >> Faceted Browser Resources

## COLLECTION

[Graduate Institute of Applied Linguistics Library](#) (26)  
[Centre de Ressources pour la description de l'Oral \(CRDO-Aix\)](#) (4)  
[OLAC Metadata Providers](#) (4)  
[Speech and Language Data Repository](#) (4)  
[SIL Language and Culture Archives](#) (1)  
[WALS Online](#) (1)

## CONTINENT

## COUNTRY

LANGUAGE : [all](#) > Japanese

GENRE : [all](#) > language\_description

## SUBJECT

[japanese language--phonology](#) (6)  
[japanese language--grammar](#) (4)  
[morphology](#) (3)  
[syntax](#) (3)  
[japanese language](#) (2)  
[japanese language--grammar, generative](#) (2)  
[japanese language--textbooks for foreign speakers--english](#) (2)

Showing 1 to 10 of 40

<< < 1 2 3 4 > >>

## Results

[A generative phonology of standard colloquial Japanese](#)  
[An introduction to Japanese phonology](#)  
[Complex verbs and the lexicon](#)  
[Contrastive studies Hungarian-Japanese](#)  
[Essential Japanese grammar](#)  
[Issues in Japanese linguistics](#)  
[Japanese](#)  
[Japanese Digit String](#)  
[Japanese Digit String](#)  
[Japanese Digit String](#)

<http://catalog.clarin.eu/ds/vlo>

Field	Value
<b>name</b>	kleve-route
<b>description</b>	This recording was made to generate a freely available test resource including speech and gestures. The annotations were created by Peter and Kita who is gesture researcher at the MPI for Psycholinguistics., Diese Aufnahme wurde erzeugt, um eine frei verfügbare Test Resource zur Verfügung stellen zu können, die Sprache und Gestik umfasst. Die Annotationen wurden von Peter und Kita, dem Gestik Researcher am MPI erzeugt.
<b>language</b>	English
<b>country</b>	Netherlands
<b>continent</b>	Europe
<b>year</b>	2002-10-30
<b>id</b>	test-hdl:1839/00-0000-0000-0009-294C-9
<b>genre</b>	unspecified
<b>organisation</b>	Max Planck Institute for Psycholinguistics
<b>origin</b>	MPI corpora
<b>resourceType</b>	video, video, audio, image, image, annotation

Resources:



<hdl:1839/00-0000-0000-0009-294E-5>



<hdl:1839/00-0000-0000-0009-294F-C>



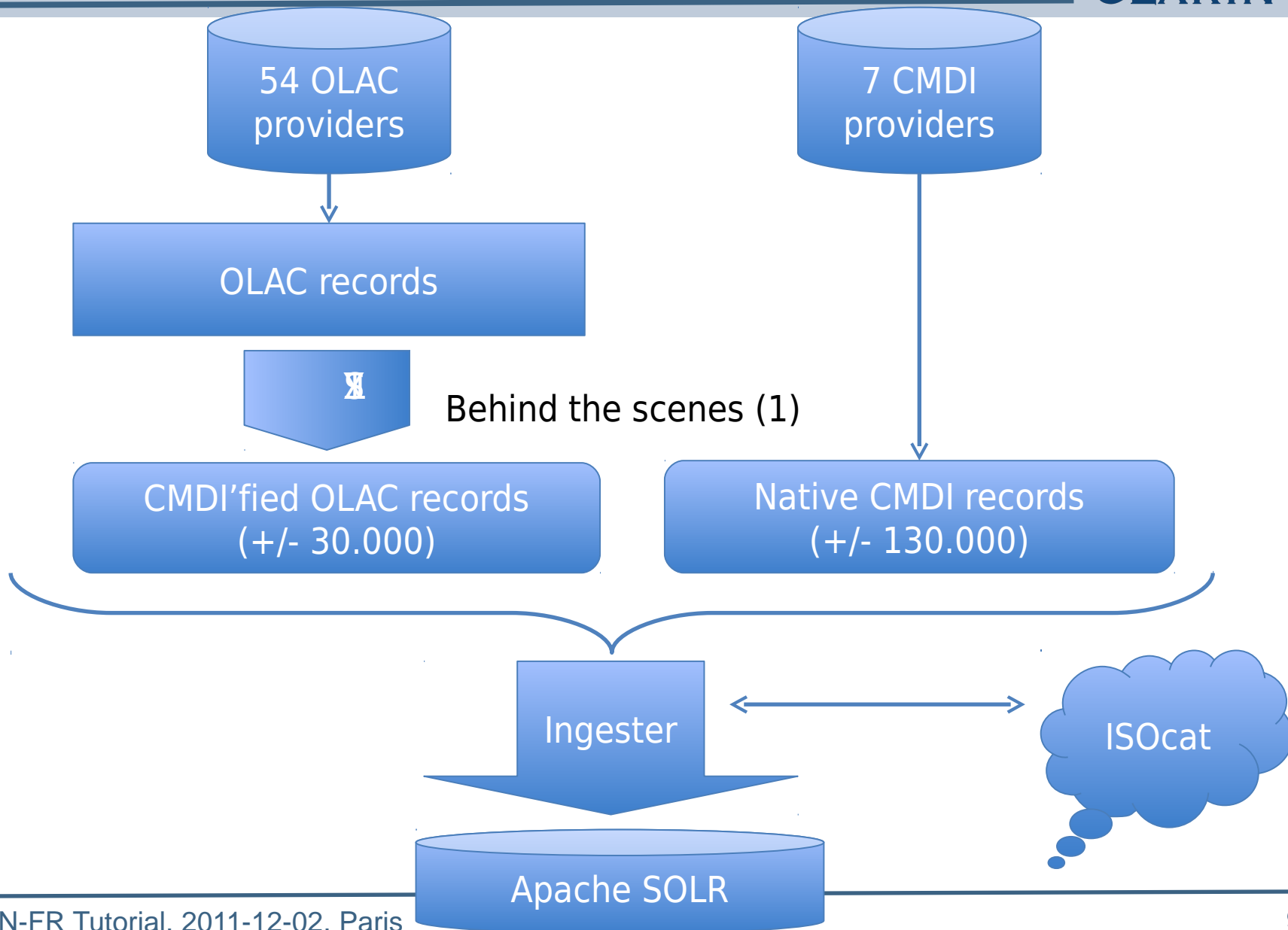
<hdl:1839/00-0000-0000-0009-2950-E>

- Data analyzed is CMDI format
- Data sources
  - CMDI files harvested from CLARIN centres
  - CMDI'fied OLAC records (from CLARIN centres and others)
  - CMDI'fied IMDI
  - CMDI'fied LRT inventory records
- Stability issue solved and performance improved
- You can get to resources directly from search results

- SOLR + lucene
- Tomcat web application
- For the parsing of the CMDI's: [VTD-XML](#)
  - Faster than SAX-parser
  - Still full XPath access
  - Memory-efficient (1.3x~1.5x the size of an XML document)



# Behind the scenes (2)



- The import of metadata files used to be hard coded
- Now we look at the ISOcat links in the XSDs as generated from the CMDI profiles
- Fallback to hard-coded XPath in case no ISOcat link is found



- Import configuration example:

```
<facetConcept name="name" allowMultipleValues="false">
```

```
<concept>http://www.isocat.org/datcat/DC-2544</concept> <concept>  
http://www.isocat.org/datcat/DC-2545</concept> <concept>http://purl.org/dc/terms/title  
</concept>
```

```
<!-- no concept in lrt schema -->
```

```
<pattern>
```

```
/c:CMD/c:Components/c:LrtInventoryResource/c:LrtCommon/c:ResourceName/text()
```

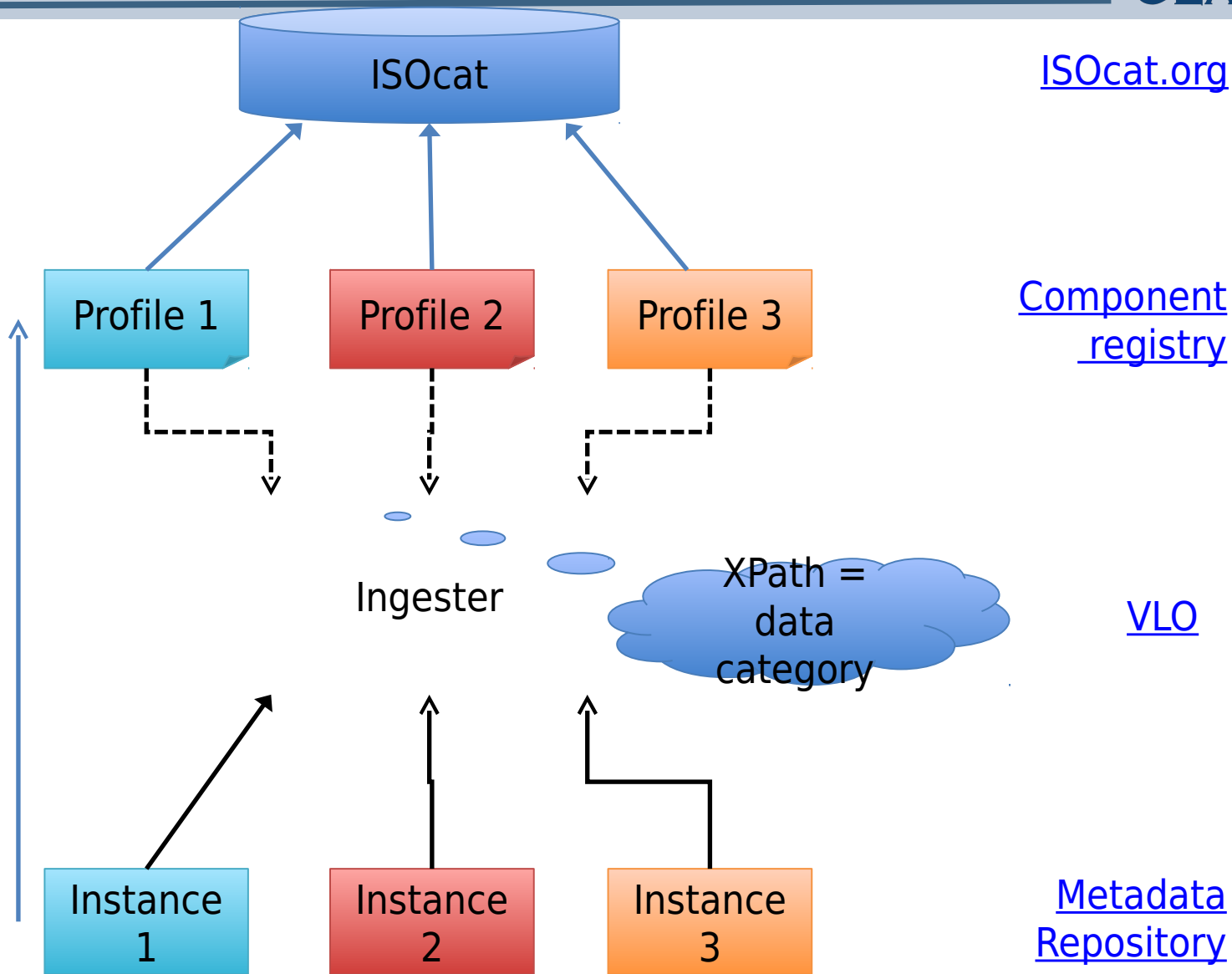
```
</pattern>
```

```
</facetConcept>
```

- Provide it as CMDI over OAI-PMH
- Provide it as OLAC over OAI-PMH
- Provide it as IMDI over OAI-PMH
- Enter it into the LRT inventory:
  - [www.clarin.eu/inventory](http://www.clarin.eu/inventory)

XSD files definitions

CMDI files



- A faceted browser is as good as its data, so curation steps are needed
- Add more CMDI metadata
- Add some more facets e.g.: year
- Human-readable hdl links
- Descriptions in the record listing
- Interface improvements
- Links to [language information](#)