

CLARIN

Common Language Resources and Technology Infrastructure



ARBIL, a tool for organising corpus/language data

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Outline



- What is ARBIL
- What is metadata
- Why was ARBIL written
- The user interface
- Workflow
- Adding metadata
- Visualising and using the metadata
- Exporting the metadata

What is ARBIL



- ARBIL is an application for organising research data and associated metadata into a format appropriate for archiving.
- There are many features in ARBIL that enable users to view and edit their data.
- The data can be viewed side by side in tables and bulk edited in the same table.
- ARBIL is designed so that it can be used offline in remote locations.
- The data can be entered at any stage in part or as a whole.

What is Metadata?



Metadata is information that describes the content of the files you are working with (the data)

This includes:

- Who collected the data
- Where was it collected
- What the data contains

This information can then be used so that you and others (if permission is granted) can find the data in the future.

(most archives allow you to search the metadata but not the data itself)

History of ARBIL



- The development of ARBIL has stemmed from discussions with many researchers at the MPI and members of the DOBES community and the experience gained from previous metadata editors developed at the MPI over the last ten years.
- ARBIL has been developed over the last two years and contains many features in order to fulfill the wide ranging needs expressed by its users, while maintaining the functionality of the previous editors. ARBIL continues to be actively developed to extend these features further.

An XML Editor



- ARBIL is essentially an XML editor
- Reads and writes to XML
- Validates via the schema
- Generates XML from the schema

The screenshot displays the ARBIL XML editor interface. On the left is a tree view showing the XML structure for 'SSL_JM_poem_cayak', including nodes for 'Actors', 'Languages', 'MediaFiles', and 'WrittenResources'. In the center, a table lists field names and their corresponding values. On the right, the XML code is displayed in a text area.

Field Name	Value
Name	SSL_JM_poem_cayak
Title	ECHO, cayak poem SSL, performed by Jo...
Date	2005-01-01
Description	This poem is a later addition to the ECHO ...
Location.Continent	Europe
References.Description	
ProjectName	ECHO
Location.Country	Sweden

```
<?xml version="1.0" xsl:stylesheet="http://www.mpl.nl/mdb/schema/mdb_rimd_3.0.xsl" ?>
<Session>
  <Name>SSL_JM_poem_cayak</Name>
  <Title>ECHO, cayak poem SSL, performed by Johanna Mesch</Title>
  <Date>2005-01-01</Date>
  <Description LanguageId="ISO639-2:eng" Link="">This poem is a later addition to
  e ECHO corpus, which was completed in 2004. Added May 2007.</Description>
  <MDGroup>
    <Location>
      <Continent Type="OpenVocabulary">Europe</Continent>
      <Country Type="OpenVocabulary">Sweden</Country>
      <Address>Stockholm</Address>
    </Location>
    <Project>
      <Name>ECHO</Name>
      <Title>European Cultural Heritage Online</Title>
      <Id>ECHO case study 4</Id>
      <Contact>
        <Name>Onno Crasborn</Name>
        <Address>Department of Linguistics, PO Box 9103, NL-6500 HD Nijmegen,</Address>
      </Contact>
    </Project>
  </MDGroup>
  <MediaFiles>
    <MediaFile Name="SSL_JM_poem_cayak.mp4" Type="Audio" />
    <MediaFile Name="SSL_JM_poem_cayak.mpeg" Type="Audio" />
    <MediaFile Name="SSL_JM_poem_cayak.mpg" Type="Audio" />
    <MediaFile Name="SSL_JM_poem_cayak.eaf" Type="Audio" />
  </MediaFiles>
  <WrittenResources>
    <WrittenResource Name="SSL_JM_poem_cayak.eaf" Type="Audio" />
  </WrittenResources>
  <Actors>
    <Actor Name="Johanna Mesch" Type="Person" />
    <Actor Name="Johanna Mesch" Type="Person" />
  </Actors>
  <Languages>
    <Language Name="Swedish Sign Language" Type="Language" />
    <Language Name="Swedish Sign Language" Type="Language" />
    <Language Name="Swedish Sign Language" Type="Language" />
  </Languages>
</Session>
```

Specialised Functions



- ARBIL differs from a standard XML editor in that it has functionality specialised for editing metadata.
- Whereas if a user hand edits the XML files there are likely to be difficult to detect errors.
- The attaching resource files is handled consistently.
- Both IMDI and CMDI formats are supported.
- Workflow focused
- Table view
- Drag and drop
- Bulk copy and paste
- Multiple undo and redo
- Resource file preview
- Customisable columns

The screenshot displays the ARBIL software interface. On the left is a tree view showing a hierarchy for 'SSL_Poetry' with a selected item 'SSL_JM_poem_cayak'. The tree includes nodes for 'Actors' (Johanna Mesch), 'Languages' (Swedish, Swedish Sign Language), 'MediaFiles' (SSL_JM_poem_cayak.mp4, .mpeg, .mpg), and 'WrittenResources' (SSL_JM_poem_cayak.eaf). Below the tree is a 'Local Corpus' section and a 'Files' section with 'Favourites' and 'Working Directories'.

On the right, a metadata table is shown with the following data:

Field Name	Value
Name	SSL_JM_poem_cayak
Title	ECHO_cayak poem SSL_performed by Jo...
Date	2005-01-01
Description	This poem is a later addition to the ECHO ...
Location.Continent	Europe
References.Description	
Project.Name	ECHO
Location.Country	Sweden

Below the metadata table are two 'Selection' windows. The first window shows a table of resource files:

	Type	Format	Derivation
SSL_JM_poem_cayak.eaf	Annotation	text/x-eaf+xml	Analysis
SSL_JM_poem_cayak.mpeg	video	video/x-mpeg2	
SSL_JM_poem_cayak.mp4	video	video/mp4	
SSL_JM_poem_cayak.mpg	video	video/x-mpeg1	

The second window shows a table of language codes:

	Id	Name
Swedish	ISO639-3:swe	Swedish
Swedish Sign Langu...	ISO639-3:swl	Swedish Sign Language
Swedish Sign Langu...	ISO639-3:swl	Swedish Sign Language
Swedish Sign Langu...	ISO639-3:swl	Swedish Sign Language

Getting to know the interface



Remote Corpus

View and import metadata from remote servers

Local Corpus

All newly created metadata will be created here

Working Directories

Your resource files can be browsed and associated with new metadata from here

Preview Table (optional)

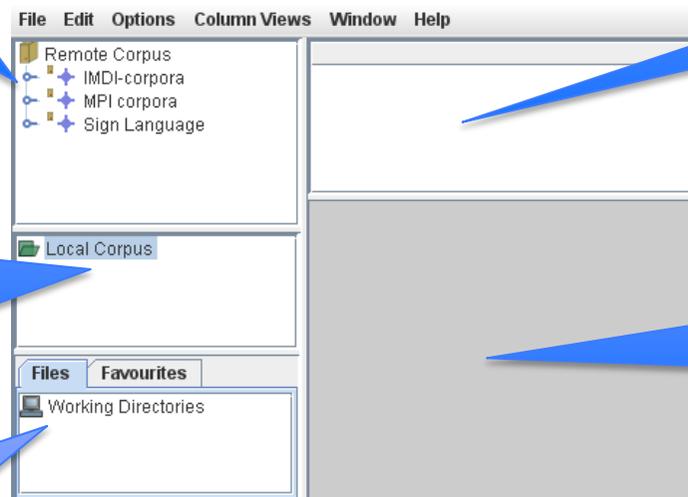
The currently selected metadata.

Main Work Area

Multiple tables of metadata can be viewed and edited

Favourites

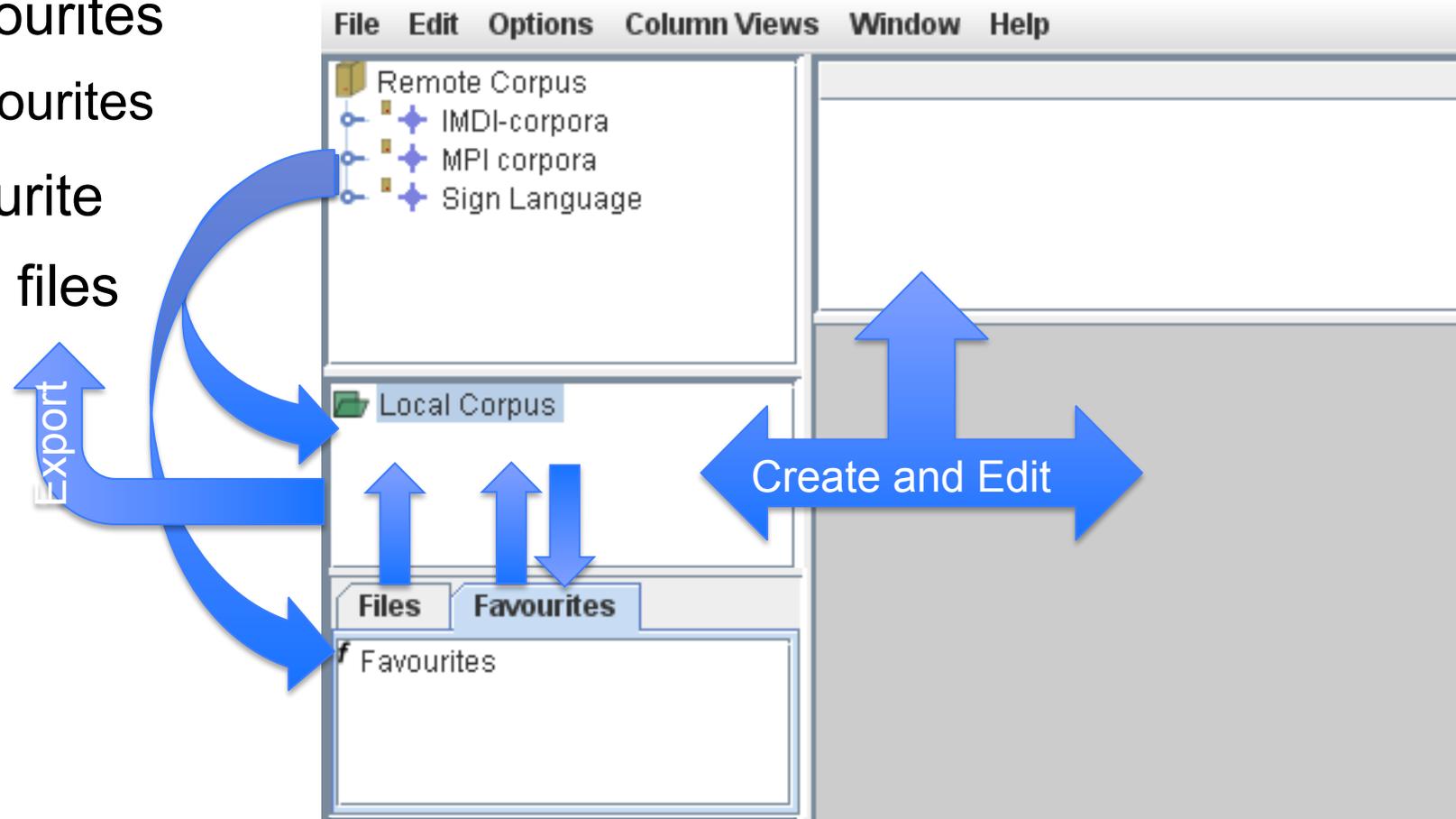
Frequently used metadata is saved here for easy replication



Workflow



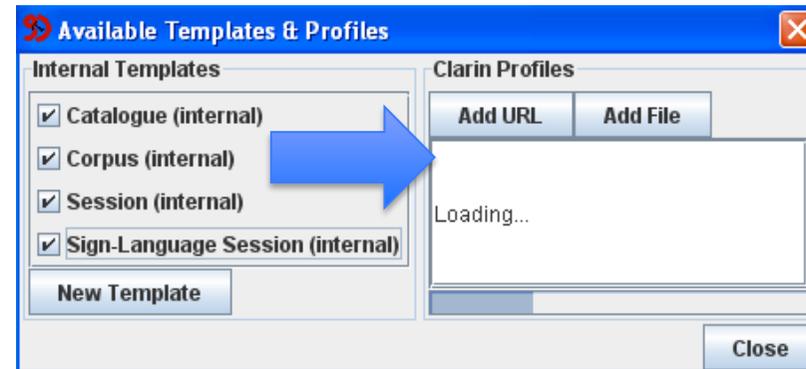
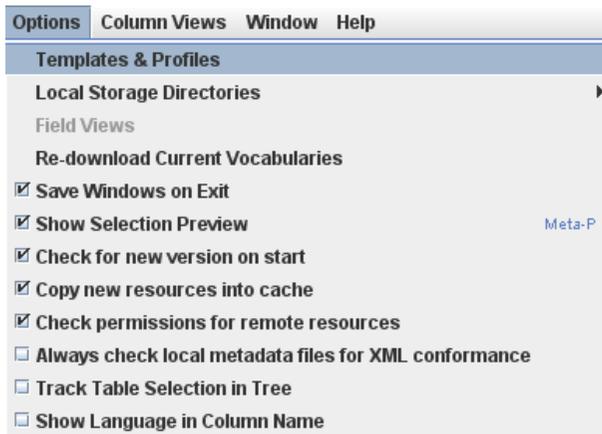
- Create and edit metadata
- Import for offline use
- Import as favourites
- Insert from favourites
- Save as favourite
- Add resource files
- Export



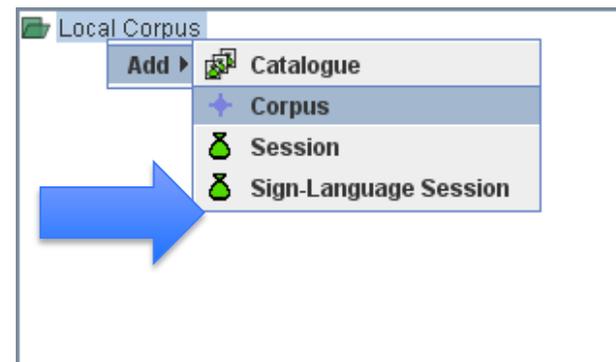
Configuring ARBIL Templates



- Depending on how you will use ARBIL you may want to select specific templates. For instance to use a specific Clarin profile you must enable it in the templates dialogue. This can also be preconfigured by your system administrator.



The selected profile will be available via the add menu



Constructing Metadata Files



- Metadata files are created in the “Local Corpus” via the “Add” menu.
- At each level of the tree the appropriate sub components are offered in the “Add” menu.

The screenshot illustrates the process of constructing metadata files in the "Local Corpus" via the "Add" menu. It shows the "Local Corpus" tree structure, the "Add" menu options, and the resulting metadata forms for a new Actor and a new Description.

new Actor in Standard (Session) Resource Bundle

Field Name	Value
Role	
Name	Standard Actor
FullName	
Code	
FamilySocialRole	
Languages.Description	
EthnicGroup	
Age	Unspecified
BirthDate	Unspecified
Sex	
Education	Unspecified
Anonymized	Unspecified
Contact.Name	
Contact.Address	
Contact.Email	
Contact.Organisation	
Description	

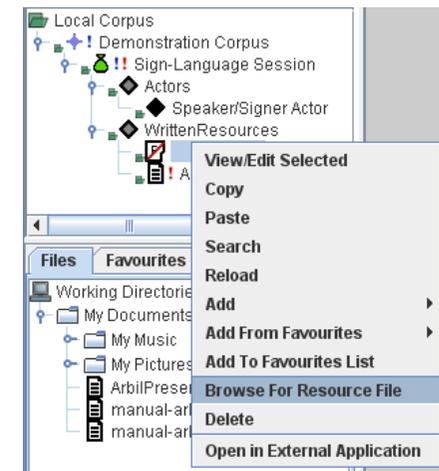
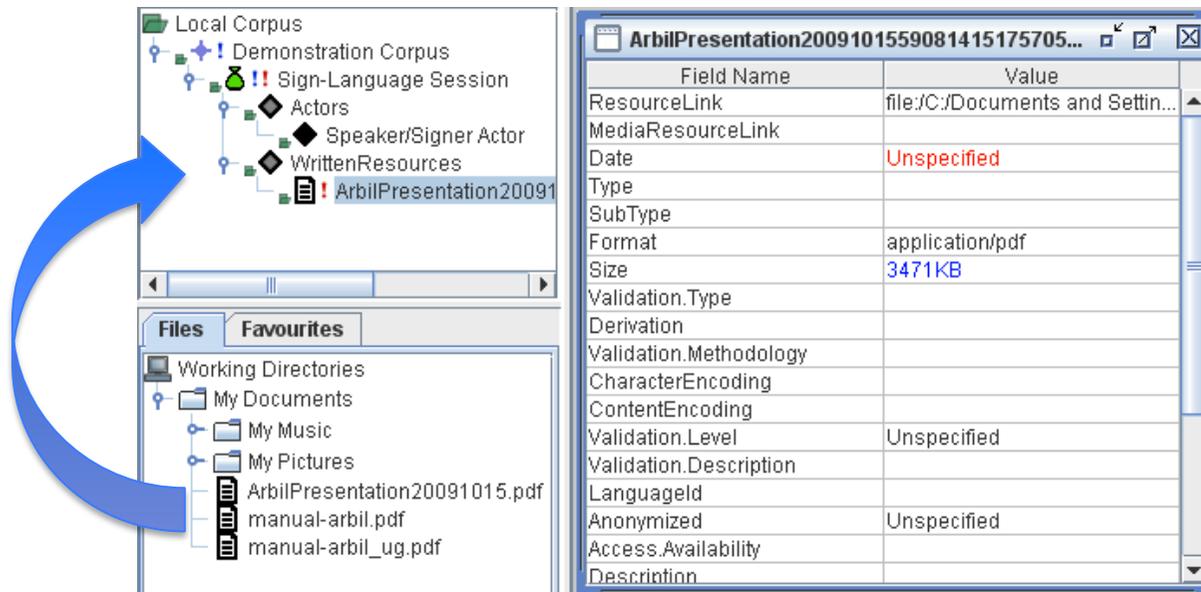
new Description in Standard (Session) Resource Bundle

Field Name	Value
Name	Standard (Session) Reso...
Title	
Date	Unspecified
Description	
Description	
Location.Continent	
Location.Country	
Location.Region	
Location.Address	
Project.Name	
Project.Title	
Project.Id	
Project.Contact.Name	
Project.Contact.Address	
Project.Contact.Email	
Project.Contact.Organisat...	
Project.Description	
Content.Genre	
Content.SubGenre	

Attaching Resource Files



- Resources can be attached to a session by dragging
- Or by adding a resource node then browsing for the file.



Entering Data



- The data can be edited in any table.
- Tables can contain one or many separate nodes.
- Data can be edited in bulk across the table.
- Controlled vocabularies are offered as a dropdown.
- Data can be compared across multiple rows at a time.
- The table data can be copied for use in external applications.

	Title	Date	Project.Name	Project.Title
SSL_JI_fab3	ECHO SSLJI Fable 3: The lion and the mouse	2003-06-13	ECHO	European Cultural Herit...
SSL_JI_fab2	ECHO SSLJI Fable 2: The tortoise and the hare	2003-06-13	ECHO	European Cultural Herit...
SSL_JI_fab1	ECHO SSLJI Fable 1: The shepherd's boy and the wolf	2003-06-13	ECHO	European Cultural Herit...

Field Name	Value
Name	Demo Session
Title	
Date	2010-07-13
Description	
Location.Continent	Europe
Location.Country	
Location.Region	

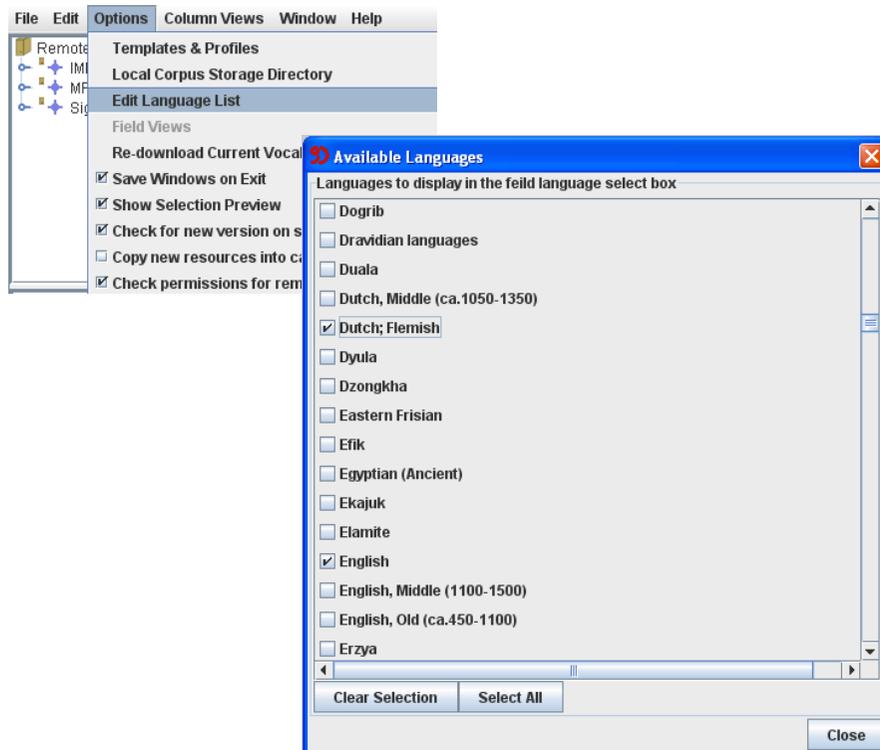
Field Name	Value
Name	Demo Session
Title	
Date	2010-07-13
Description	
Location.Continent	Europe
Location.Country	Africa
Location.Region	Asia
Location.Address	Europe
Project.Name	Australia
Project.Title	Oceania
Project.Id	North-America
Project.Contact.Name	Middle-America
Project.Contact.Address	South-America
Project.Contact.Email	

Field Name	Value
Name	Demo Session
Title	
Date	2010-07-13
Description	This is a demo session
Location.Continent	Europe
Location.Country	
Location.Region	
Location.Address	
Project.Name	
Project.Title	
Project.Id	
Project.Contact.Name	
Project.Contact.Address	
Project.Contact.Email	

Documentation Languages



- Some fields can be entered in multiple languages
- The full language list is very long so it should be condensed
- Your selected languages will be shown in the table dropdown



Field Name	Value	
Name	Demo Session	
Title		
Date	2010-07-13	
Description	This is a demo sesssion	<select>
Location.Continent	Europe	Angika
Location.Country		Dutch; Flemish
Location.Region		English
Location.Address		Khasi
Project.Name		Kimbundu
Project.Title		Nyoro
Project.Id		Nzima
Project.Contact.Name		Tamashek
Project.Contact.Address		
Project.Contact.Email		

Long Field Editor



- The long field editor allows text that is too long to display in a table to be viewed and edited
- Fields with multiple values can be viewed
- Key names (when present) can be edited

Field Name	Value
Name	Demo Session
Title	
Date	2010-07-13
Description	This is a demo session
Location.Continent	Europe
Location.Country	
Location.Region	
Location.Address	
Project.Name	
Project.Title	
Project.Id	
Project.Contact.Name	
Project.Contact.Address	
Project.Contact.Email	

	Date	Description
! Demo Session	2010-07-13	<multiple values>
! Stand...		

Description in Demo Session

Description 1 Description 2 Description 3

Language: English

This is a demo session.
For longer text you can use the long field editor

Field Name	Value
Name	Demo Session
Title	
Date	2010-07-13
Description	This is a demo session. For longer text you can use the long field editor
Location.Continent	Europe
Location.Country	
Location.Region	
Location.Address	
Project.Name	
Project.Title	
Project.Id	
Project.Contact.Name	
Project.Contact.Address	
Project.Contact.Email	
Project.Contact.Organ...	
Project.Description	
Content.Genre	
Content.SubGenre	

Description...

Description 1

Language: English

This is a demo session.
For longer text you can use the long field editor

Keys.Key.Demo Key	Keys allow for custom content.(use only when really required)
Content.Genre	
Content.SubGenre	
Content.Task	
Content.Modalities	
Content.Subject	
Content.Communication...	
Content.Languages.De...	

Keys.Key.Standard Template Key in ...

Keys.Key.Standard Template Key 1

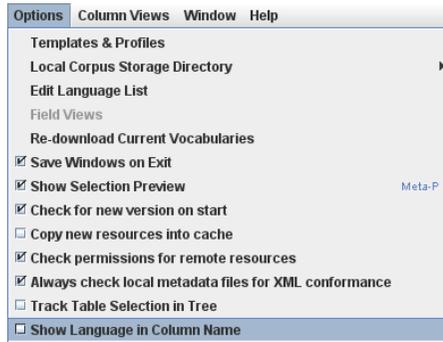
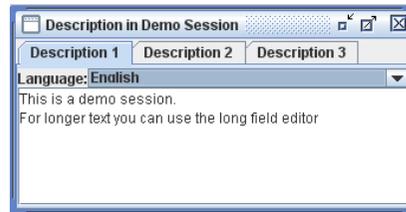
Key Name: Demo Key

Keys allow for custom content.
(use only when really required)

Multiple Documentation Languages



- The table can either show separate documentation languages a condensed column or as a separate column for each language



	Date	Description	Description [ISO6...	Description [ISO6...
! Demo Ses...	2010-07-13		This is a demo s...	Dit is een demo ...
! Standard (...)	Unspecified			

	Date	Description
! Demo Session	2010-07-13	<multiple values>
! Standard (Session) Res...	Unspecified	

Organising Data



- Columns can be hidden to simplify the information displayed in a table.
- Sets of these column views can be saved and easily selected for display.
- A default column view can be selected so that new tables show your preferred columns.

	Title	Date	Descri...	Location...	Location...	Location.Address	Project...
SSL_J...	ECHO SSLJI Fable 1: The shepherd's boy and the w...	2003-06-...		Unspecifi...	Unspecifi...		ECHO
SSL_J...	ECHO SSLJI Fable 2: The tortoise and the hare	2003-06-...					ECHO
SSL_J...	ECHO SSLJI Fable 3: The lion and the mouse	2003-06-...					ECHO
SSL_J...	ECHO SSLJI Fable 4: The two friends and the bear	2003-06-...					ECHO
SSL_J...	ECHO SSLJI Fable 5: The dog and his reflection	2003-06-...					ECHO
SSL_L...	ECHO SSL Fable 1: The shepherd's boy and the wolf...	2003-06-...				m Univer...	ECHO

Save Column View ✖

Enter a name to save this Column View as

DemoView

	Title	Date	Project.Name	Project.Title	Project.Id
SSL_JI_fab1	ECHO SSLJI Fable 1: The shepherd's boy and the wolf	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab2	ECHO SSLJI Fable 2: The tortoise and the hare	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab3	ECHO SSLJI Fable 3: The lion and the mouse	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab4	ECHO SSLJI Fable 4: The two friends and the bear	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab5	ECHO SSLJI Fable 5: The dog and his reflection	2003-06-13	ECHO	European C...	ECHO cas...
SSL_LM_fab1	ECHO SSL Fable 1: The shepherd's boy and the wolf LM	2003-06-16	ECHO	European C...	ECHO cas...

	Title	Date	Project.Name	Project.Title	Project.Id
SSL_JI_fab1	ECHO SSLJI Fable 1: The shepherd's boy and the wolf	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab2	ECHO SSLJI Fable 2: The tortoise and the hare	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab3	ECHO SSLJI Fable 3: The lion and the mouse	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab4	ECHO SSLJI Fable 4: The two friends and the bear	2003-06-13	ECHO	European C...	ECHO cas...
SSL_JI_fab5	ECHO SSLJI Fable 5: The dog and his reflection	2003-06-13	ECHO	European C...	ECHO cas...
SSL_LM_fab1	ECHO SSL Fable 1: The shepherd's boy and the wolf LM	2003-06-16	ECHO	European C...	ECHO cas...

Visualising the Data



- Matching text can be highlighted.
- Sub-nodes can be shown in the parents table as a cell to give a visual indication of their presence and to give easy access to them and to sort the table by them.
- The full metadata of the sub-nodes can be displayed in a separate table just like any other metadata.
- All columns can be used to sort the rows even the sub-node columns

	Title	Date	Project.Id	Content.Su...	Content.Ta...	Content.Mo...	Content.Co...	Content.Co...	Content.Co...	Content.De...
SSL...	ECHO SSL F...	2003-06-16	ECHO...	Narrative	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple v...
SSL...	ECHO SSL Ji...	2003-06-13	ECHO...	Narrative	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple v...
SSL...	ECHO SSL in...	2003-06-13	ECHO...	Narrative	Retell...	Signs	non-inter...	planned	non-elicited	<multiple v...
SSL...	ECHO SSL in...	2003-06-16	ECHO...	Narrative	Retell...	Signs	non-inter...	planned	non-elicited	<multiple v...
SSL...	ECHO SSL in...	2003-06-13	ECHO...	Narrative	Retell...	Signs	non-inter...	planned	non-elicited	<multiple v...
SSL...	ECHO SSL in...	2003-06-13	ECHO...	Narrative	Retell...	Signs	non-inter...	planned	non-elicited	<multiple v...

	Title	Date	Content.Task	Content.Modal...	Content.Com...	Content.Com...	Content.Com...	Content.Descr...	Languages
SSL_LM...	ECHO SSL F...	2003-06-16	Retell fables i...	Signs	non-interactive	planned	non-elicited	<multiple valu...	◆ [Swedish Sign Lang...
SSL_JI...	ECHO SSL Ji...	2003-06-13	Retell fable st...	Signs	non-interactive	planned	non-elicited	<multiple valu...	◆ [Swedish Sign Lang...
SSL_JI...	ECHO SSL in...	2003-06-13	Unspecified	Signs	interactive	semi-sponta...	Unspecified		◆ [Swedish Sign Lang...
SSL_LM...	ECHO SSL in...	2003-06-16	Unspecified	Signs	interactive	semi-sponta...	Unspecified		◆ [Swedish Sign Lang...
SSL_JI...	ECHO SSL Ji...	2003-06-13	Retell fable st...	Signs	non-interactive	planned	non-elicited	<multiple valu...	◆ [Swedish Sign Lang...
SSL_L...	ECHO SSL L...	2003-06-16	Retell fables i...	Signs	non-interactive	planned	non-elicited	This file was ...	◆ [Swedish Sign Lang...
SSL_JI...	ECHO SSL Ji...	2003-06-13	Retell fable st...	Signs	non-interactive	planned	non-elicited	<multiple valu...	◆ [Swedish Sign Lang...
SSL_JI...	ECHO SSL Ji...	2003-06-13	Retell fable st...	Signs	non-interactive	planned	non-elicited	<multiple valu...	◆ [Swedish Sign Lang...
SSL_JI...	ECHO SSL Ji...	2003-06-13	Retell fable st...	Signs	non-interactive	planned	non-elicited	<multiple valu...	◆ [Swedish Sign Lang...

Find and Replace



- The table can be searched for specific text
- Selected cells can have the found text substituted

	Title	Date	Project>Contact.Address	Content.Ta...	Content.M...	Content.Co...	Content.C...	Content.C...	Content.D...	Languages
🚩! SSL...	ECHO SS...	2003-06-16	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-13	Unspecified	Unspecified	Signs	interactive	semi-spo...	Unspecified		◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-16	Unspecified	Unspecified	Signs	interactive	semi-spo...	Unspecified		◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-13	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-13	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-13	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-13	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-13	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩! SSL...	ECHO SS...	2003-06-16	Unspecified	Retell fabl...	Signs	non-inter...	planned	non-elicited	This file w...	◆ [Swe...

Unspecified | new contact address | **Find Next** | **Replace Selected** | **Close**

- Copy
- Paste
- Open in Long Field Editor
- Hide Selected Columns
- Show Child Nodes
- Copy Cell to Whole Column
- Highlight Matching Cells
- Clear Cell Highlight
- Find/Replace**
- View Selected Rows
- Select Matching Rows
- Remove Selected Rows
- Jump to in Tree
- Open in External Application
- View XML
- View IMDI Formatted
- Open IMDI Formatted
- Export IMDI to HTML

	Title	Date	Project>Contact.Address	Content.Ta...	Content.M...	Content.Co...	Content.C...	Content.C...	Content.D...	Languages
🚩!! SS...	ECHO SS...	2003-06-16	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-13	new contact address	Unspecified	Signs	interactive	semi-spo...	Unspecified		◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-16	new contact address	Unspecified	Signs	interactive	semi-spo...	Unspecified		◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-13	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-13	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-13	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-13	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-13	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	<multiple ...	◆ [Swe...
🚩!! SS...	ECHO SS...	2003-06-16	new contact address	Retell fabl...	Signs	non-inter...	planned	non-elicited	This file w...	◆ [Swe...

Unspecified | new contact address | **Find Next** | **Replace Selected** | **Close**

Searching



- The local metadata tree can be searched.
- Multiple parameters can be used to for the search.
- The search results are displayed in a table that has all the functionality of the other tables in ARBIL.
- Multiple different branches can be searched at one time.

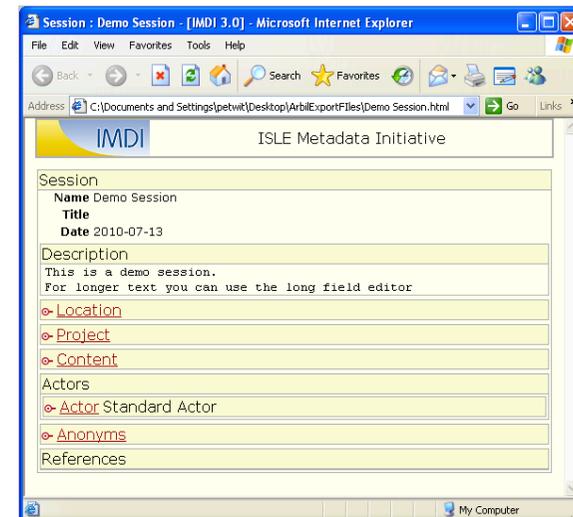
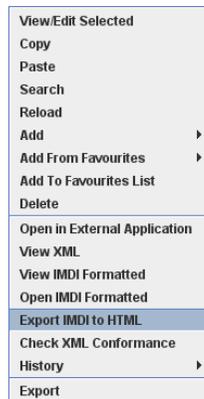
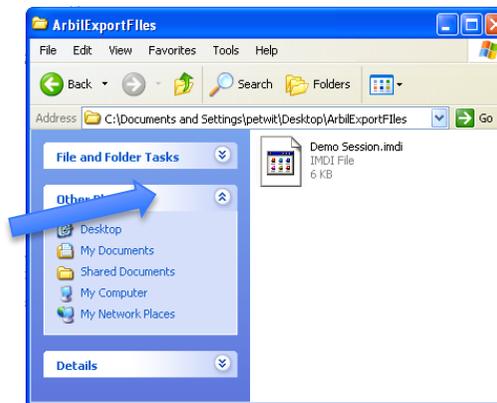
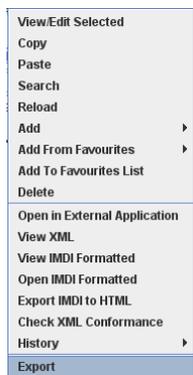
SSL						
All	<column (optional)>	new		==	▼	-
+	searched: 141 found: 5				stop	search
	Name	Title	Date	Project.Contact.Address	Project.Id	
! SSL_JI_fab1	SSL_JI_fab1	ECHO SSL JI Fable 1: The shepherd's boy and the wolf	2003-06-13	new contact address	ECHO cas...	
! SSL_JI_fab2	SSL_JI_fab2	ECHO SSL JI Fable 2: The tortoise and the hare	2003-06-13	new contact address	ECHO cas...	
! SSL_JI_fab3	SSL_JI_fab3	ECHO SSL JI Fable 3: The lion and the mouse	2003-06-13	new contact address	ECHO cas...	
! SSL_JI_fab4	SSL_JI_fab4	ECHO SSL JI Fable 4: The two friends and the bear	2003-06-13	new contact address	ECHO cas...	
! SSL_LM_fab1	SSL_LM_fab1	ECHO SSL Fable 1: The shepherd's boy and the wolf LM	2003-06-16	new contact address	ECHO cas...	

46 columns hidden (edit "Column View" in the table header to show)

Exporting



- Entire branches can be exported as discrete files
- IMDI files can be exported to HTML
- The exported branches can be uploaded into LAMUS



Installing ARBIL



- There is a link to ARBIL on the MPI website
<http://www.lat-mpi.eu/tools/arbil/>
- Providing you already have Java installed the webstart version is the fastest way to start
- Alternately there are installers for Windows, Mac and Ubuntu (Debian).

Recommended Version (stable)

Run via webstart | Download the Windows installer | Download the Debian Linux package | Download the Mac installer

Testing Version (has newer features but is not fully tested)

Run via webstart | Download the Windows installer | Download the Debian Linux package | Download the Mac installer

Manual

User Guide (Online) | Full manual (Online) | User Guide (PDF) | Full manual (PDF) | Presentation (PDF) | A4 Guide