

CLARIN FOR LINGUISTS STORING RESOURCES IN CLARIN

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OVERVIEW

- Why store resource in CLARIN?
- How to store resources in CLARIN
 - What you must do
 - What the CLARIN Centre must do



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WHY?

- You may benefit from it
 - Existing tools in CLARIN
 - faster production, better quality, more features
 - Search engines, analysis tools, visualisation tools
 - Can be easily combined with other data in CLARIN
- Others may benefit from it
 - Many unexpected uses of your data
 - Now or in the future



WHY?

- Openness in Science
 - Usually produced with public money
- Integrity
 - Recently many scandals with faked data
- Verifiability and Replicability of research results
 - Essential for the proper conduct of science
 - More and more journals are requiring it
- Funding Agency requires it (data management plan)
- **DANS CLIP on data sharing** (in Dutch)



OVERVIEW

Why store resource in CLARIN? How to store resources in CLARIN

- What you must do
- What the CLARIN Centre must do



How?

- Start early
 - Preferably before you start creating data
- Contact a CLARIN Type B centre
 - They can help you
 - Your resource must be stored at a CLARIN centre
- Which CLARIN centre?
 - Check CLARIN-NL portal (<u>http://dev.clarin.nl</u>)
 - CLARIN-NL website <u>Centres</u> page
 - Brief summary



OVERVIEW

- Why store resource in CLARIN?
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- Define what your data are / are going to be
- Ensure legal / ethical compliance
 - Permission from subjects to use the data for research
 - Provisions for respecting privacy matters
- Determine Metadata Contents
 - Determine what information should be included in the metadata (resource description) of your resource
 - Collect this information



- Determine centre
- <u>Contact them</u> and make arrangements
- Determine <u>CLARIN-recommended standard</u> <u>format(s) for your data</u>
 - Consult with the CLARIN Centre
 - Ask help from the helpdesk <u>helpdesk@clarin.nl</u>
 - E.g. LMF (Lexical Markup Framework for lexicons, cf. Cornetto, DuELME, ...)



- Metadata must be in CMDI format
- CMDI provides
 - A model for metadata
 - A format for metadata
 - Tools to make metadata
- CMDI Metadata are written in XML
- It does NOT proscribe the contents of the metadata
- Introduction to CMDI

cmdi@clarin.eu



- CMDI Metadata use a metadata profile
- Metadata profile: a combination of
 - Metadata components
 - Metadata elements
- Metadata Component: a combination of
 - Metadata components (optional)
 - Metadata elements (optional)
- Metadata Element
 - XML element: name, value (of an explicit type), attribute-value pairs



- This provides high flexibility
 - YOU can determine the metadata for your resource
 - By defining your own profiles, components, elements
- CMDI helps you with
 - A profile and component editor [login required]
 - A list of <u>commonly used profiles and components</u>
 - A metadata editor: ARBIL



- Flexibility requires explicit semantics!
 - The CLARIN infrastructure must `know' what you mean with your metadata elements
 - Otherwise it cannot use faceted browsing in the <u>VLO</u> or the <u>Meertens Metadata Search Engine</u>



- Explicit semantics:
 - Each element in the data and metadata must have a link to a CLARIN-recognized concept or data category registry
 - Most prominent data category registry in CLARIN is <u>ISOCAT</u>
 - Example Data Category in ISOCAT
 - Example Link to ISOCAT in element definition



- Explicit semantics (2):
 - <u>RELCAT alpha version</u>
 - For relations between data categories
 - SCHEMACAT alpha version
 - For describing schemas of resources
 - <u>CLAVAS</u> <u>Vocabulary Service</u>
 - Interface to other data category registries and vocabularies
 - ISO 639-3 Language codes



- Attend dedicated tutorials on CMDI and ISOCAT
 - <u>Regularly organized</u> in NL (each 2+ times/year)
- Usually the CLARIN Centre helps you creating the CMDI metadata
- Maximally reuse existing profiles /components

 It will help you get better metadata
 - You do not have to reinvent the wheel



• CLARIN

- strongly recommends using certain components (e.g. GeneralInfo component) and
- may require inclusion of certain properties
- Do not forget properties that are 'obvious to you', e.g.
 - Language
 - Title
 - Version



- Live Version v. exchange/archive version – E.g. lexicon
 - in Lexical Markup Framework compatible XML text v.
 - database with indexes for fast search
 - Live version is ideally derived fully automatically from the exchange/archive version
- In close cooperation with the CLARIN Centre



Software

- Desktop tool
- Desktop application
- Web service
 - <u>SOAP</u> / <u>REST</u> , use <u>CLAM</u> if possible
- Web application
- There must be `metadata' for software as well!

- Generic profile exists and is being refined

• Consult with the CLARIN Centre



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WHAT THE CLARIN CENTRE MUST DO

- Assist you with your tasks
- Assign Persistent Identifiers (PIDs) to all data and metadata
 - Handle system for assignment and resolution of PIDs
 - <u>example</u>
- Make Metadata harvestable
 - <u>OAI-PMH</u> protocol
 - Open Archives Initiative Protocol for Metadata Harvesting



WHAT THE CLARIN CENTRE MUST DO

- Store the data in the centre's repository
 - <u>LAMUS</u> (the Language Archive) and its documentation <u>online</u> or as <u>PDF</u>
 - EASY (DANS) and its Help and Support Page
- Make data themselves available and accessible in the CLARIN infrastructure



WHAT THE CLARIN CENTRE MUST DO

- Provisions for legal / ethical restrictions
- Long term preservation
 - Data Seal of Approval
- (Minimal) Maintenance



WHAT ABOUT EXISTING DATA?

- Adapt them to meet the CLARIN requirements - Data Curation
- CLARIN-NL
 - has financed many <u>data curation projects</u>
 - Has set up Data Curation Service
- CLARIAH (successor project, if financed)
 - Will continue these curation activities



Thanks for your attention!





CLARIN-NL B CENTRES

- Meertens Institute: resources relevant for the study of
 - cultural expressions and Language variation within the Dutch language
- Max Planck Institute for Psycholinguistics (The Language Archive): resources related to the study of
 - psychological, social and biological foundations of language
- Huygens Institute: resources related to the study of
 - history and literature of the Netherlands.
- Institute for Dutch Lexicology (INL)
 - relevant to the lexicological study of the Dutch language
- Data Archiving and Networked Centres (DANS)
 - digital research data generally



CLARIN-NL D CENTRES



• Koninklijke Bibliotheek (National Library):

- Digital books, articles, newspapers
- Includes DBNL (Digital Library for Dutch Literature)
- (will be available in the VLO soon)
- Nederlands Instituut voor Beeld & Geluid (NIBG, Netherlands Institute for Sound and Vision)
 - Audio-visual data (esp. TV and radio programmes)
 - <u>NIBG data via the VLO</u>
- Utrecht University Library (UBU)
 - Digital books, articles
 - UBU data via the VLO

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WrittenResource	CLARIN-D Version 1.2	phonetics	71A3DD8C90E89334@lmu.de	Component contains informati	05 February 2013 14:13:45	0
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- CLARIN attempts to maximize open and free access to resources
 - with as little restrictions as possible
 - no login unless it cannot be avoided
- Sometimes, a login (Authentication and Authorisation, AAI) is required, e.g.
 - Because there are legal and/or ethical restrictions on the data
 - To identify you and assign you your own workspace / data
 - To enter with your own personal settings



- CLARIN is a distributed infrastructure
 - How can we avoid that you have to login again and again?
 - How can we avoid that you have to remember many user names and passwords?
 - How can we avoid that CLARIN has to securely store user names, passwords and possibly other privacy-sensitive information?





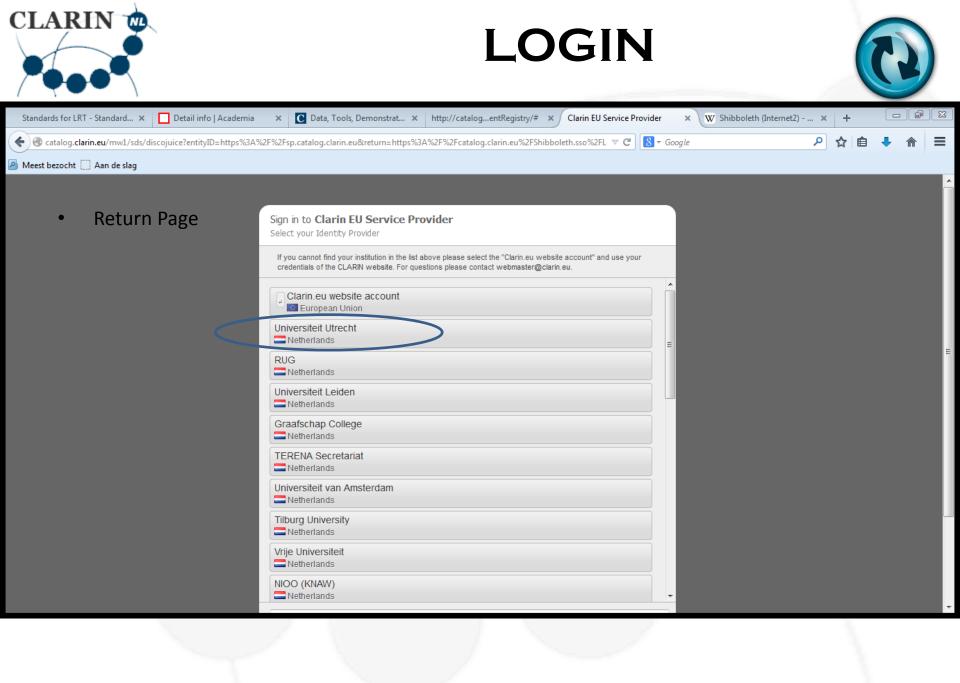


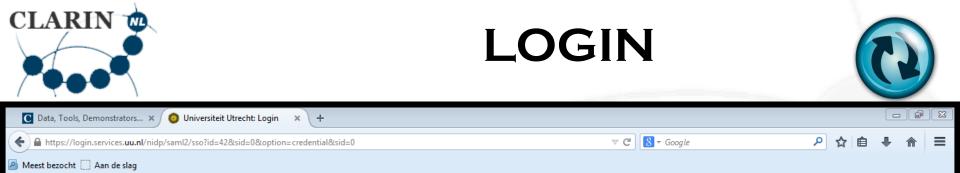
- The answer: <u>Shibboleth</u>
 - When you log in, you are directed to a login with your own institute
 - You then log in with you institute's user name and password
 - The institute server then confirms that you are a trusted person, and you can enter this part of the CLARIN infrastructure
 - it does **not** pass on any sensitive information such as your user name or password
 - If you now go to another part of the CLARIN infrastructure that requires login, it `knows' that you are already logged in, so you do not have to do this again (Single Sign On, SSO)





Standards for LRT - Standard 🗙	Detail info Academia 🛛 🗙	C Data, Tools, Demonstrat	× http://catalogentRegistry/#	× http://catalogentRegistry/# ×	W Shibboleth (Internet2) 🗙	+ - 8 %
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ArthurianFiction		Other	Rik Hoekstra	Profile for Arthurian Fiction data	04 September 2012 14:50:05	o 🗐
BamdesLexicalResource		computational_linguistics	Dieter Van Uytvanck	Lexical Resource as used by BA	27 October 2010 15:47:42	0
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BamdesWrittenCorpus		computational_linguistics	Dieter Van Uytvanck	Written Corpus as used by BAM	27 October 2010 15:59:28	0
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Boedelbank			Folkert de Vriend	Profile for Boedelbank	30 July 2010 9:36:25	0
cmdi-virtual-collection			CLARIN (cmdi@clarin.eu)	A component for describing per	21 April 2010 16:18:30	0
collection			Matej Durco	minimal collection profile (start	15 October 2010 20:58:37	0 🗸





Universiteit Utrecht	
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Wachtwoord vergeten?	
Meer informatie over Solis-id: medewerkers	/ <u>studenten</u>
Kijk ook op <u>www.uu.nl/ict</u>	🚟 English

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ArthurianFiction		Other	Rik Hoekstra	Profile for Arthurian Fiction data			0	
BamdesLexicalResource		computational_linguistics	Dieter Van Uytvanck	Lexical Resource as used by BA			0	1
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BamdesWrittenCorpus		computational_linguistics	Dieter Van Uytvanck	Written Corpus as used by BAM	27 October 2010 15:59:28		0	1
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Matej Durco

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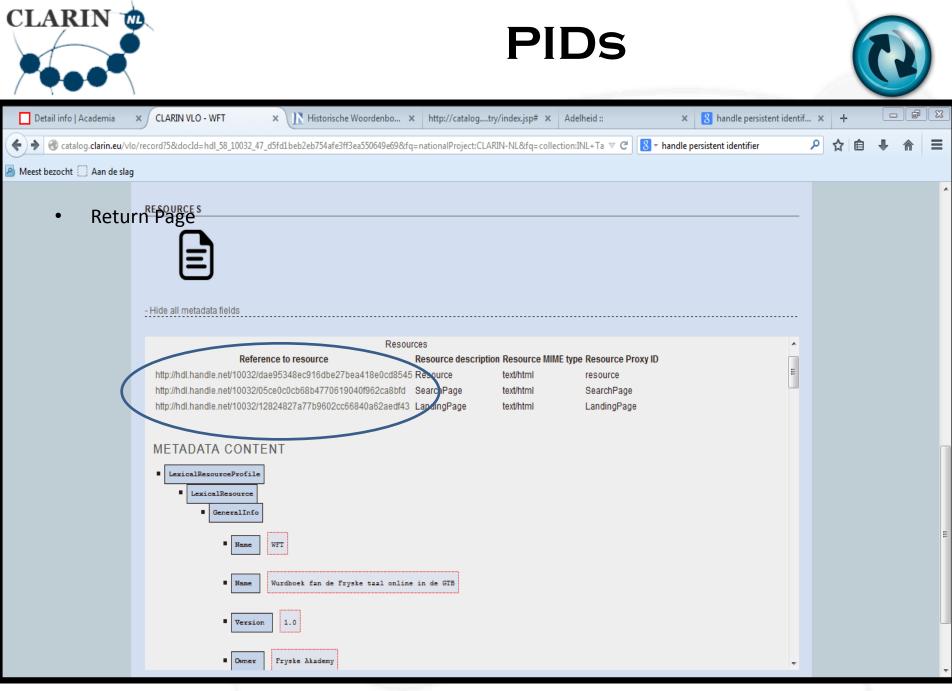
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	CLAM is funded under <u>CLARIN-NL</u> pr	Powered by CLAM v0.7.6 - Computational Linguist: by Maarten van Gompel <u>Induction of Linguistic Knowledge Research Gro</u> ojects TICCLops (09-011), coordinated by Martin Reynaert, and Antal van den Bosch.	up, <u>Tilburg University</u>	Reynaert and	





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