



WP2 Know-how, Formats, Tools
WP2-TR 2-2002 Version 3

The ECHO project can offer already now at its start excellent know-how, information about formats and tools that can be offered to interested institutions. Only those technologies will be mentioned where ECHO partners have own experience and where it is expected that these technologies have a considerable impact at making cultural heritage online. The ECHO partners are interested to get more hints on other useful technology. However, only those entries will be listed where institutions involved in ECHO have gathered experience and can give advice. It is expected that this list will be upgraded regularly, since other institutes will join the network of expertise and since new technologies will become available and applied within the ECHO project.

We distinguish between

- know-how that partners have and offer to other institutes and communities
- special knowledge about formats that ECHO partners have and that they can process
- specialized schemas (XML) that have been created by partners that are supported and
- tools that are used or were created by partners.

For every item under formats, schemas and tools a contact address will be mentioned and a short description is given that identifies its purpose and state. Under tools, formats and schemas only those items will be mentioned that have been used already. Plans what will be developed within or without the ECHO framework will be described elsewhere on this site.

Know-how

(areas and technology where know-how is available within ECHO)

Topic	Institution	Email-Address
Multimedia Handling (Audio/Video) incl. digitization, tools	MPI for Psycholinguistics	echo-faq@mpi.nl
Handling of Photos and Scanned Images incl. digitization, tools	MPI for History of Arts University of Bern	schlimme@biblhertz.it liess@philo.unibe.ch
Combining Text and Multimedia	MPI for Psycholinguistics	echo-faq@mpi.nl
Database Technology (relational Databases, SQL, ...)	MPI for Psycholinguistics University of Bern MPI for History of Arts	echo-faq@mpi.nl liess@philo.unibe.ch kulawik@biblhertz.it
XML Technologies (XML, Xlink, XUL, ...)	MPI for Psycholinguistics MPI for History of Arts University of Bern	echo-faq@mpi.nl kulawik@biblhertz.it liess@philo.unibe.ch
Text Technology (morphological parsers, etc)	University of Bern	liess@philo.unibe.ch
Creation of Interactive Web-Sites	MPI for Psycholinguistics University of Bern	echo-faq@mpi.nl liess@philo.unibe.ch
Archiving of Material	MPI for Psycholinguistics MPI for History of Arts	echo-faq@mpi.nl glorius@biblhertz.it
Lexica (Formats, Access, ...)	MPI for Psycholinguistics University of Lund	echo-faq@mpi.nl sven.stromqvist@ling.lu.se
Multimodal Analysis and Annotation Sign Language A&A	MPI for Psycholinguistics University of Nijmegen	echo-faq@mpi.nl crasborn@let.kun.nl

Metadata Standards and Tools (DublinCore, IMDI, OLAC, ...)	MPI for Psycholinguistics	echo-faq@mpi.nl
Web-Service Technology (SOAP, WSDL, UDDI)	MPI for Psycholinguistics	echo-faq@mpi.nl
General Software-Development (Java, Javascript, Perl, ...)	University of Bern MPI for Psycholinguistics	liess@philo.unibe.ch echo-faq@mpi.nl

Formats and Encoding

(Formats that are known within ECHO and that can be processed)

Topic	Institution	Email-Address
Video Encoding and File Formats (MPEGx, MJPEG, Cinepak; MPG, AVI, QT, ...)	MPI for Psycholinguistics	echo-faq@mpi.nl
Audio Encoding and File Formats (PCM, MP3, ATRAC; WAV, NIST, ...)	MPI for Psycholinguistics	echo-faq@mpi.nl
Media Annotation Formats (CHAT, XML-EAF, XML-ATLAS, ...)	MPI for Psycholinguistics	echo-faq@mpi.nl
Photo Encoding and File Formats (TIFF, JPEG, NPG, GIF, ...)	University of Bern MPI for History of Arts	liess@philo.unibe.ch schlimme@biblhertz.it
Text Encoding Standards (TEI, CES, EAGLES, ...)	MPI for Psycholinguistics	echo-faq@mpi.nl
Lexica Encoding Standards (TEI, EAGLES, ISLE, MILE, SHOEBOX, ...)	MPI for Psycholinguistics	echo-faq@mpi.nl
Metadata Standards (DublinCore, IMDI-XML, OLAC)	MPI for Psycholinguistics	echo-faq@mpi.nl
XUL	University of Bern	liess@philo.unibe.ch

Schemas

(XML Schemas (and DTD) become increasingly important for machine processing of data, therefore those applied with ECHO will be mentioned if they have a general relevance)

Topic	Institution	URL	Email-Address
IMDI Metadata Schema	MPI for Psycholinguistics	www.mpi.nl/tools	echo-faq@mpi.nl
EAF Annotation Format (XML-based)	MPI for Psycholinguistics	www.mpi.nl/tools	echo-faq@mpi.nl

Tools

(Here only specialized tools will be mentioned that are used or created by the partners)

Topic	Institution	URL	Email-Address
DIGILIB (Photo ?? Tool)	U Bern MPI for History of Science	www.philoscience.unibe.ch	liess@philo.unibe.ch
ELAN/EUDICO (Multimedia Annotation and Exploitation Tool)	MPI for Psycholinguistics	www.mpi.nl/tools	echo-faq@mpi.nl
IMDI Metadata Editor and Browser incl. Search	MPI for Psycholinguistics	www.mpi.nl/tools	echo-faq@mpi.nl
eDOC Server (relational database to house electronic documents)	U Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
Text Conversion Tools	MPI for Psycholinguistics	www.mpi.nl/tools	echo-faq@mpi.nl
ARCHIMEDES (Tool for measuring distances)	MPI for History of Arts	www.philoscience.unibe.ch	raspe@uni-trier.de schlimme@biblhertz.it

on the screen)			
IMAGO (image processing tool)	University of Bern MPI for History of Science	www.philoscience.unibe.ch	liess@philo.unibe.ch
COMPOSITO (Tool to superimpose images)	University of Bern MPI for History of Science	www.philoscience.unibe.ch	liess@philo.unibe.ch
PINGO (Tool to superimpose vector graphics)	University of Bern MPI for History of Science	www.philoscience.unibe.ch	liess@philo.unibe.ch
RELATO (Tool to compare media objects based on their annotations)	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
CONTEXTTO (Tool to visualize complex texts)	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
DICTIO (Tool to operate on texts)	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
ImageCat (Tool to allow browsing through image collections)	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
NAVIGIO (Tool that allows to navigate through hierarchical orders)	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
INTEGRA (Tool to submit resource into ECHO repositories)	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch
MATHEMATICO	University of Bern	www.philoscience.unibe.ch	liess@philo.unibe.ch