

The Corpus NGT

an online corpus for professionals and laymen



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Overview



- Description of the project
- Discussion of technical matters relating to video
- Open access & distribution
- Software development

The project



- Two-year project until May 2008
- Funding from the Netherlands Organisation for Scientific Research (NWO)
- · Six people working part-time on data recording, processing & annotation (1.5 fte)
- Two people doing everything else (us; part-time, 0.8 fte)

Project goals

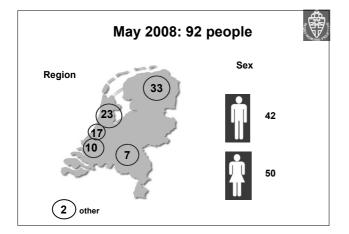


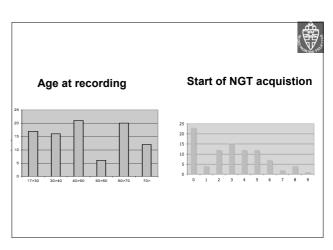
Make a snapshot of the language: 'this is what deaf (native) signers were like in 2008'

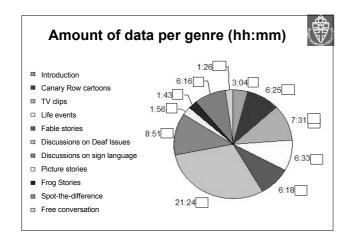
Historical value

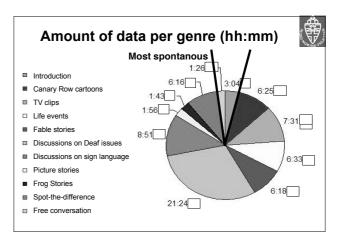
- Record a variety of ages, regions, and styles Linguistics research
- · Provide raw materials for teachers and students of deaf culture and sign language, for deaf people, etc.

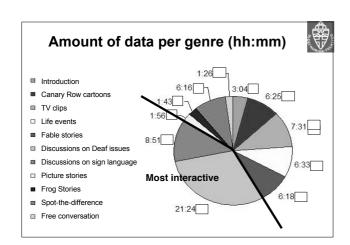
General public

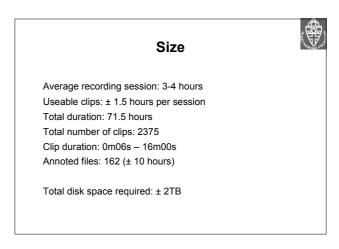


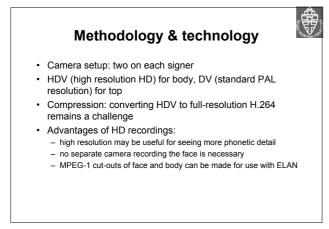


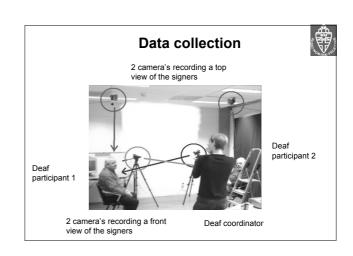


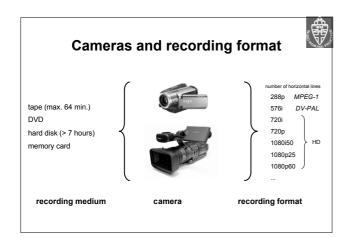


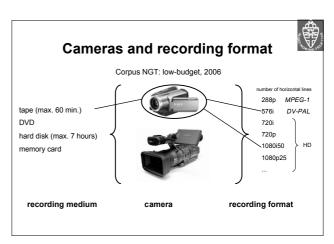




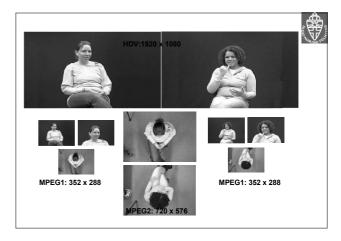










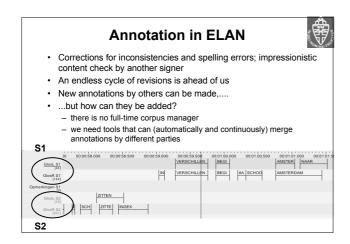


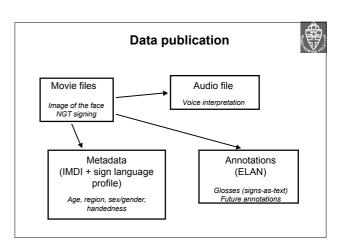
Voice interpretation



- Six interpreters (dialogues); several interpreting students (monologues)
- · Recordings on minidisc
- Made available as WAV files linked to EAF files; as audio track to combined movies
- Skilled interpreters take about 10x real-time for a rough voice interpretation (≠sentence-by-sentence translation)
- 235 voice-interpreted movies (11:54:53 hours)
- 210 movies by certified interpreters (11:28:12 hours)
- 25 movies by students (0:26:41 hours)

Plain gloss annotation (lemmas) by four linguistically naive deaf signers Separate tiers for left and right hand; every gloss (should be) individually aligned >64,000 annotations for ± 10 hours of video S1 | Open Code S2 | Open Cod





Related publications (on web site and in corpus)



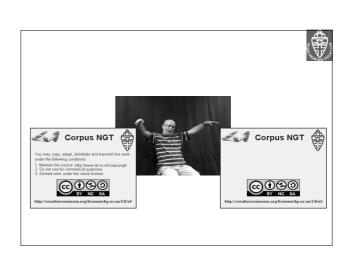
- · Introduction to the corpus: structure, metadata, use
- · Annotation guidelines
- Workflow for using Apple's Final Cut Pro and Compressor
- Additional metadata for researchers (access to be determined)
 - information on signers
 - tables with sessions, durations, signers

Open Access to the Corpus NGT



- All movies, annotations and metadata are freely accessible through the web
- Scientific access: all data can be accessed by a web browser, and can be searched by their IMDI metadata description (standardised) and the available ELAN annotations (not standardised)
- · General public: available via web, examples
- No registration or password needed
- · Licensing: Creative Commons

Creative Commons licenses • Goal: explicitly allow use of copyrighted material • Three types of restrictions: 1. Mention author's name 2. Do not use for commercial purposes 3. If modified, share under the same conditions From 'all rights reserved' to 'please use, but don't do x and y' More information: presentation Crasborn, 17:00



Hosting of (sign) language data



- 1. Archiving data (backups)
- 2. Making movies and related material available
- ELRA: European Language Resources Association
- LDC: Linguistic Data Consortium
- SurfNet: streaming video for Dutch universities
- MPI: Max Planck Institute for Psycholinguistics
- Your university's web server
- Any internet provider

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Software development (MPI)



- Additions to ELAN (release 2.6–3.4; see poster)
 - duplicate annotation
 - search across files
 - easy selection of movie files to be displayed
 - revision of menu bar
- · Use of metadata in ELAN (under development)
 - presentation of metadata categories for the current file
 - ELAN search in a subset of a corpus (on the basis of the outcome of an IMDI search)

Expected future developments



- · Integration of existing lexicon corpora and the Corpus NGT
- Extension of materials by others (annotations, content)
- Technological developments
 - improved searching and data mining tools
 - integration of additional types of data (e.g. cyber glove, eye tracker) in future data sets
 - (Semi-)automatic annotation on the basis of sign recognition techniques
 - Speech-to-text conversion of interpreter voice-over

Scientific use General public Sign Language -∳ ECHO – Sign Language → NGT Corpus Data types + Canary Row Deaf issues Experiences Fables Free conversation Frog Story Introduction Picture stories Spot the difference + TV clips Recordings

What more could one wish for?!



- Collaboration with organisations and institutes in the Netherlands: exploiting the existing corpus
- Collaboration with MPI and other institutes for further development of corpus tools
- Collaboration with sign language colleagues throughout Europe (and elsewhere): establish standards and compare languages
- ⇒ This workshop; and future ones
- ⇒ Funding needed!



