

Advancement in the multimedia annotation tool ELAN

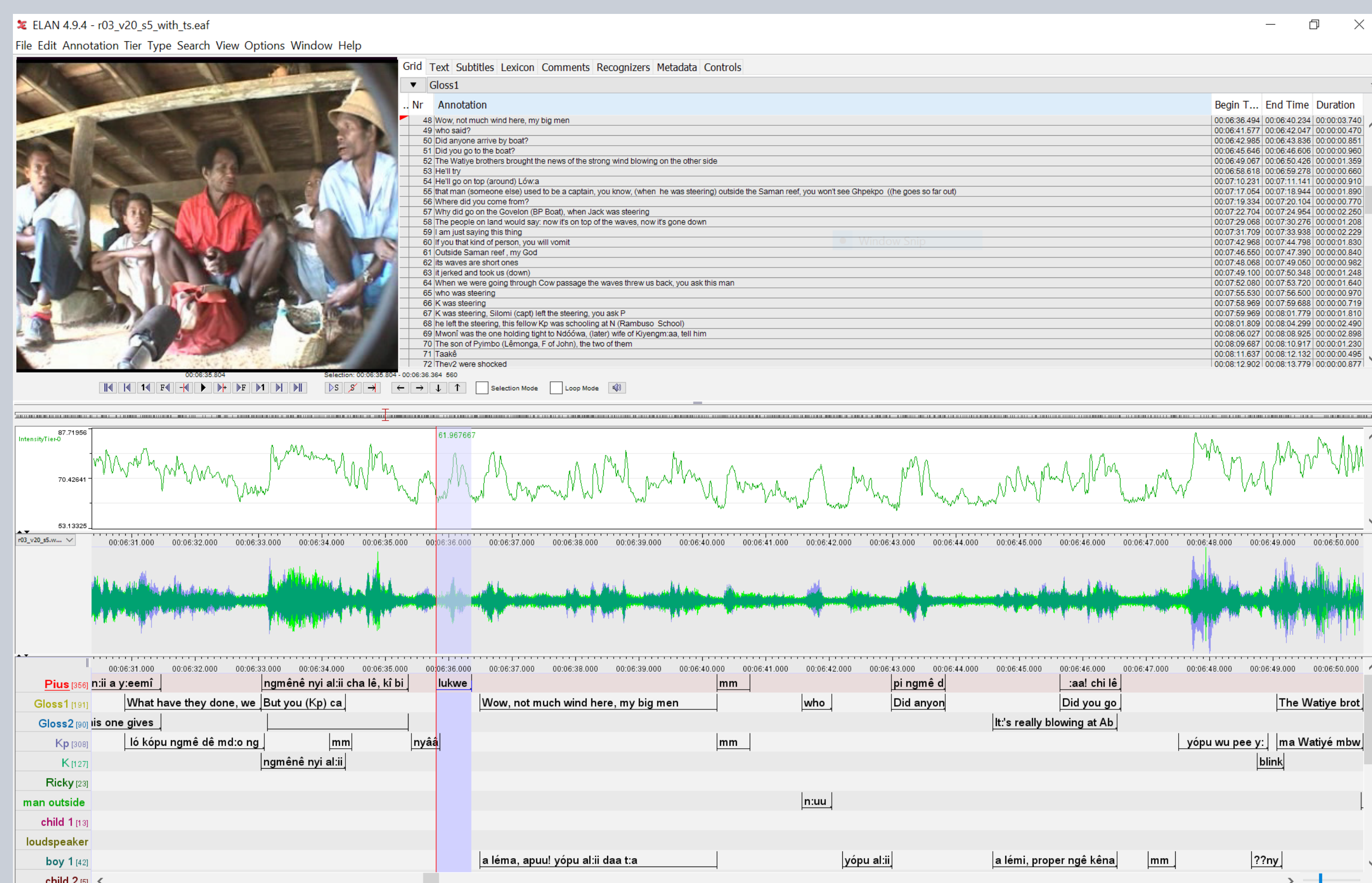


Han Slöetjes, Olaf Seibert
han.sloetjes@mpi.nl, olaf.seibert@mpi.nl



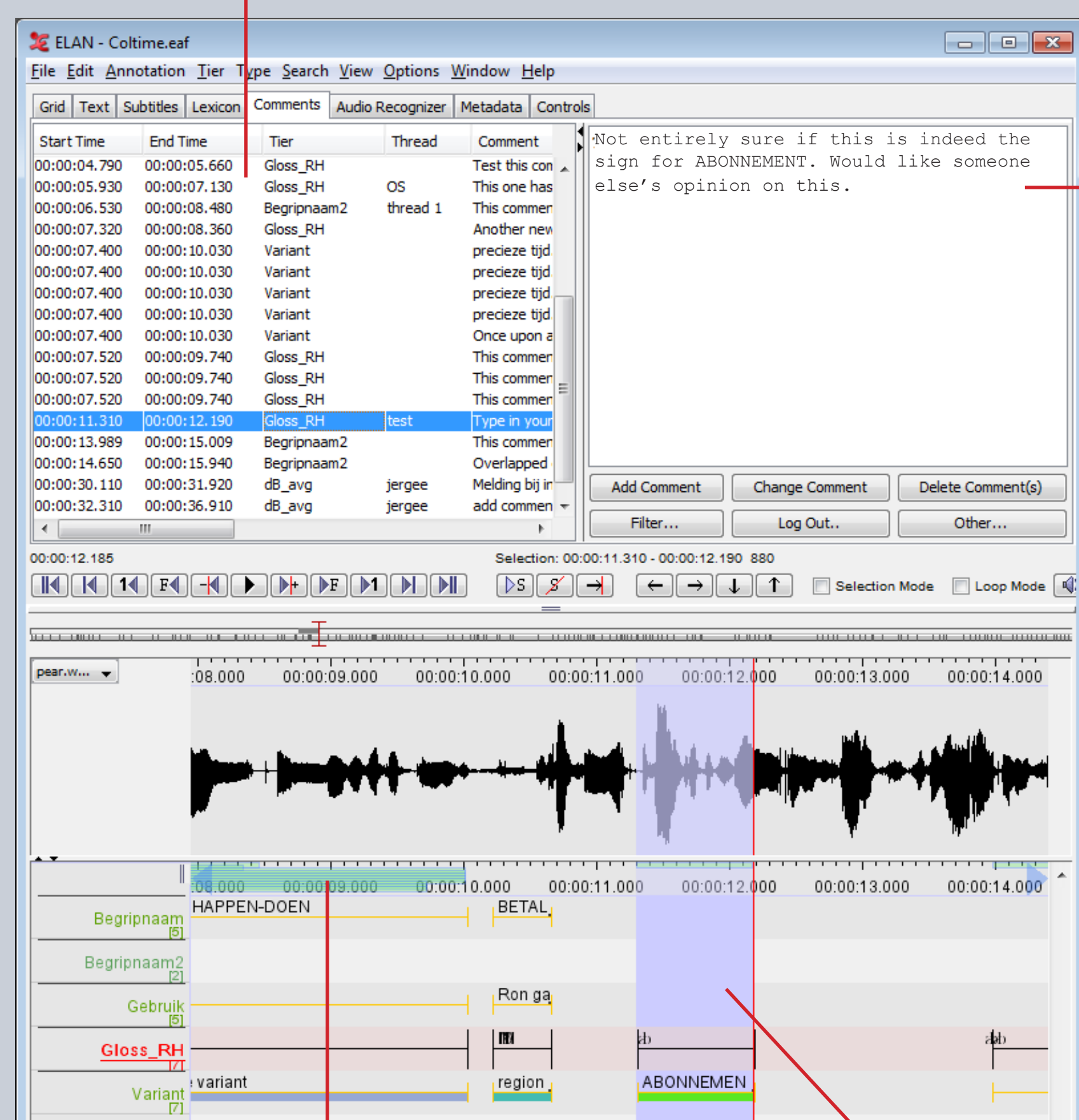
- ELAN is a multimedia annotation tool
- freely available, sources available
- written in Java, stores data in XML
- current version 4.9.4

ELAN is a tool for multi-tier, multi-speaker, time-linked annotation of audio and video recordings



Comments framework: sharing comments and notes with colleagues

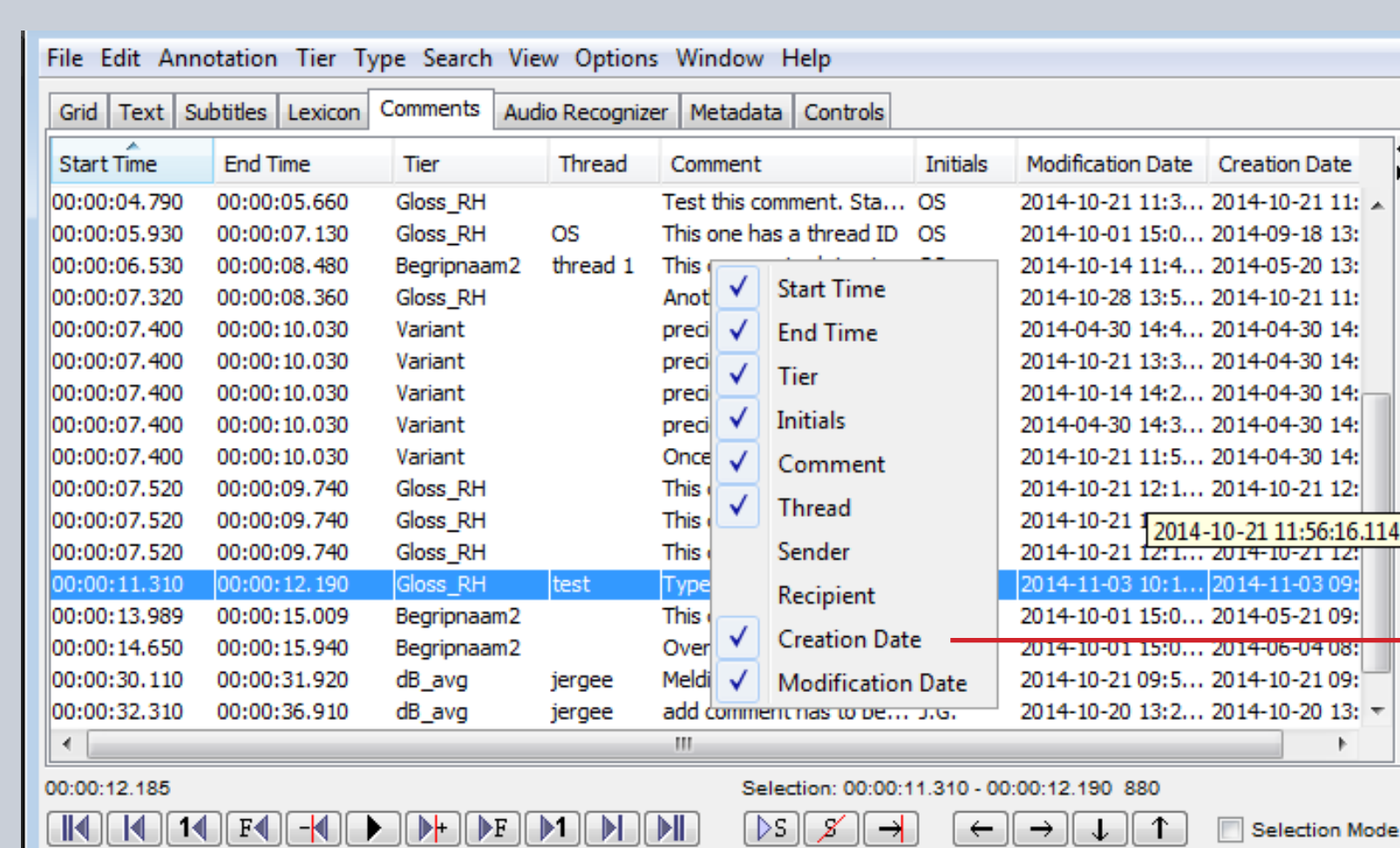
The list of comments



- Comments are pieces of text linked to a segment of the media and possibly to a tier
- Can be used for intermediate notes, remarks or questions
- Can be shared via email or a file sharing (cloud) service

Graphical indication of segments with comments

Selected segment to which a new comment will be linked



- Filter and search comments
- Export comments
- Show/hide comments attributes



CLARIN-NL project ColTome

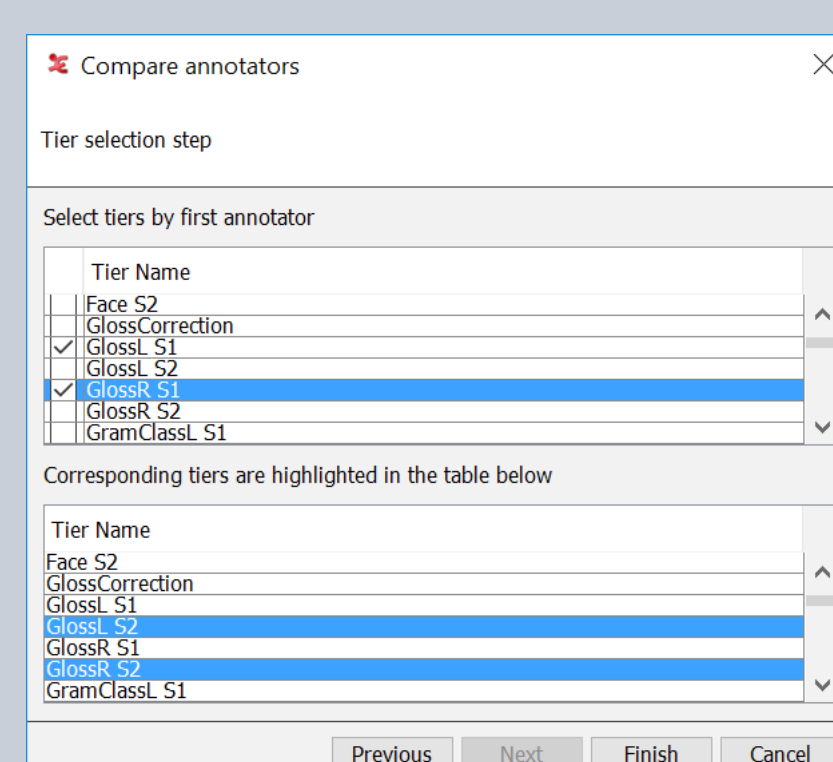
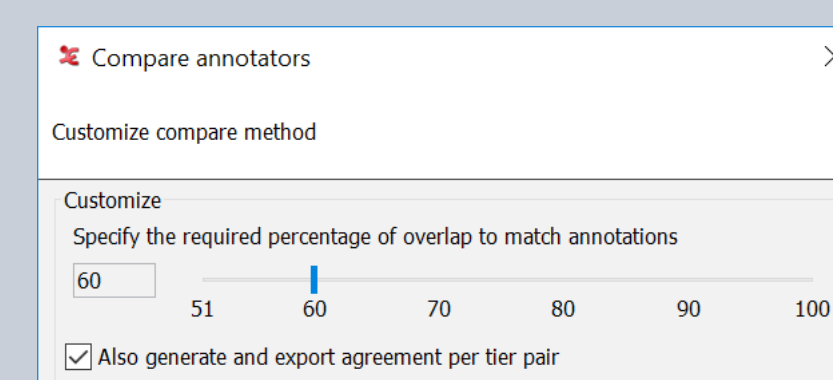
Assessing interrater agreement

Calculate interrater agreement to test:

- The validity of a coding scheme
- The quality of the annotation guidelines
- The training of the annotators

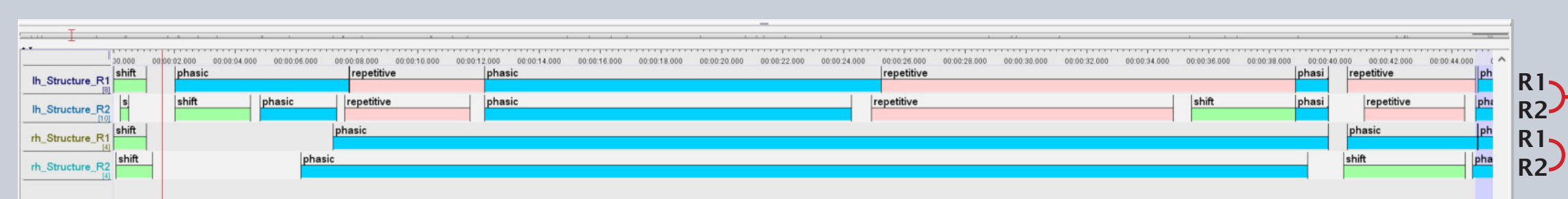
New algorithms added:

- Modified Cohen's kappa (Holle and Rein, 2015)
Applies a matching algorithm to combine segments created by two raters and then calculates the kappa value
- Staccato (Lücking, 2011)
Calculates a Degree of Organization by applying Monte Carlo Simulations to segmentations produced by multiple raters



The calculation can be performed on a corpus (multiple files and multiple tiers)

Comparing the segmentation and the labels of the corresponding tiers created by two annotators

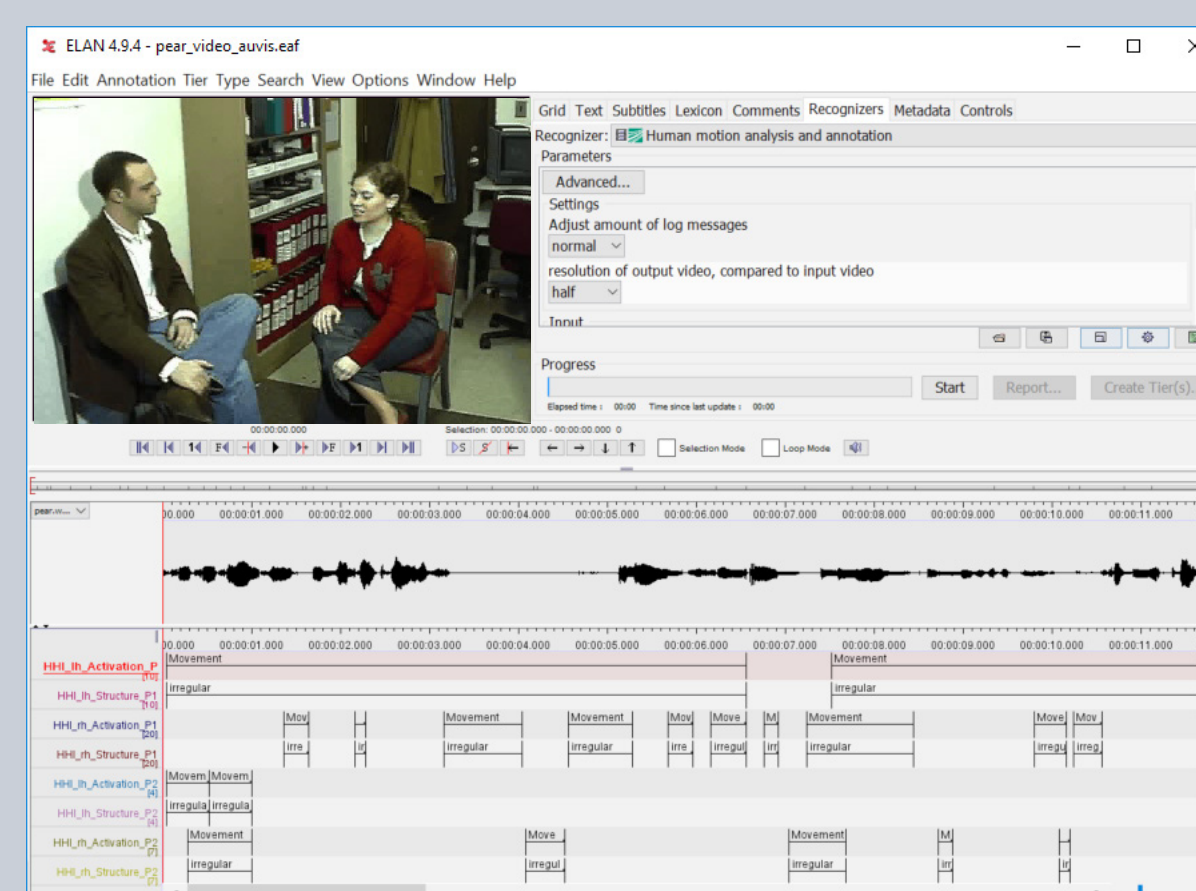


Automatic segmentation and labelling

Algorithms for automatic segmentation and labelling implemented in two projects, AVATeCH and AUVIS

Audio recognizers:

- Speech segmentation
- Speaker diarization
- Keyword spotter



Video recognizers:

- Detection and categorization of gesture units (based on the NEUROGES coding scheme)
- Recognize and extract key frames

Export to Theme format

- New export format. Theme is an application for detection and analysis of hidden patterns

