# Download ELAN

https://archive.mpi.nl/tla/elan/download

**ELAN 6.4 Windows** 



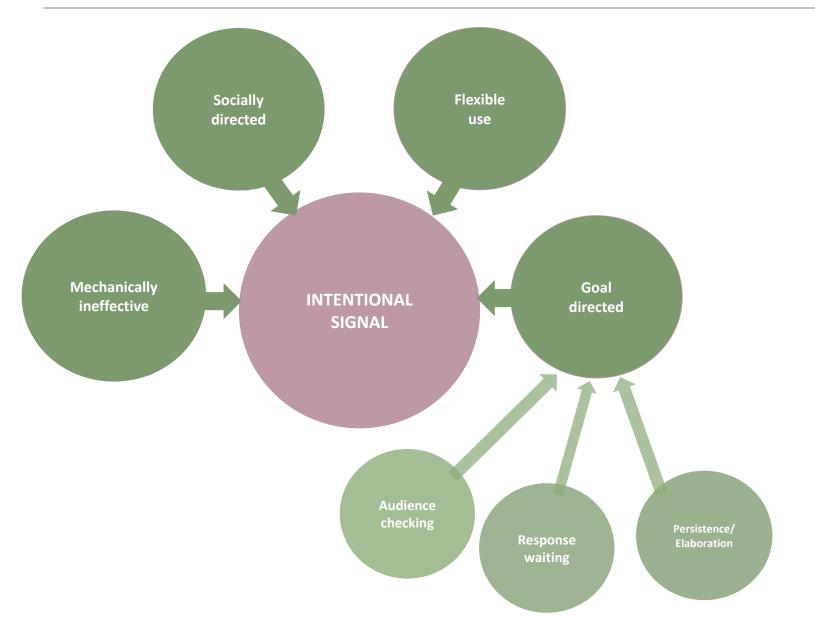




## Coding ape signals with ELAN



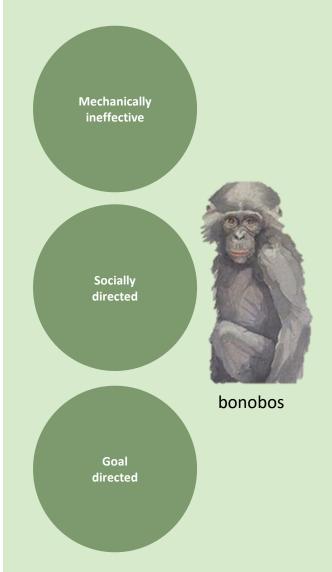
#### Ape gestures





### Ape gestures





#### Methods- data collection







- Ad libitum observations and/or focal individual follow, video and sound recording of social interactions
- Selection and edition of clips containing communicative events
- Coding of interactions using ELAN



#### Methods- coding procedure

- Combinations = overlapping signals or signals
  separated by ≤ 1 s.
- Coded variables:
  - signaler and recipient's identities
  - context of production
  - call type
  - gesture type
  - body signal type
  - facial expression type
  - response



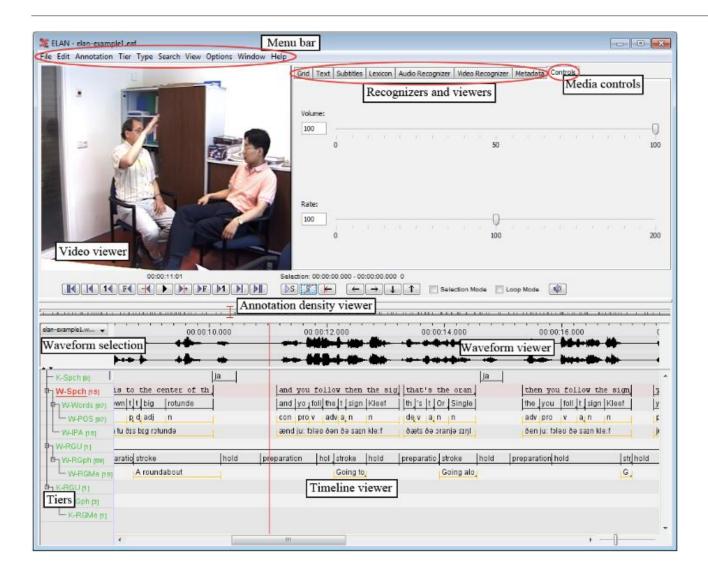
Elan (EUDICO Linguistic Annotator):

- Computer software developed at the Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands (2000)
- It runs on Windows, Mac OS X and Linux



- Annotation tool for video and audio data
- Specifically designed for the analysis of language, sign language, and gesture
- Used in many disciplines e.g., psychology, behavioral studies, to study sign language, conversation analysis, language acquisition, gesture analysis, animal behaviour...

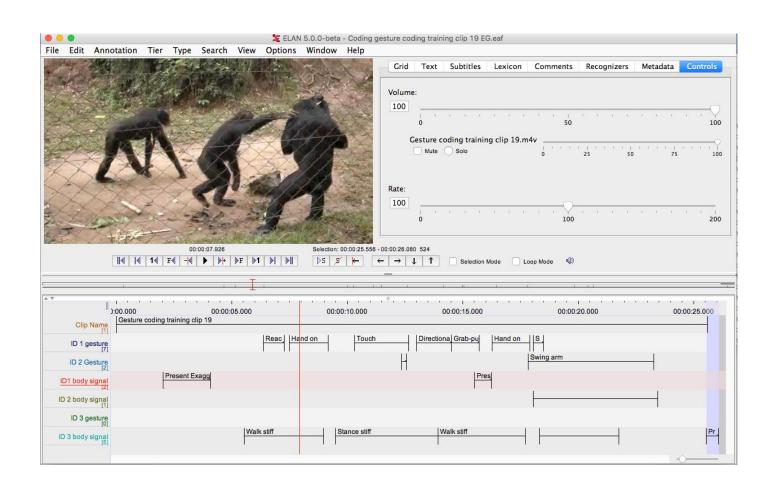






- A user can add an unlimited number of annotations to audio and/or video streams
- A wide variety of audio and video formats is supported and high performance media playback can be achieved
- An annotation can be a sentence, word, a comment, translation or a description of any feature observed in the media
- Annotations can be created on multiple layers, called tiers







#### To start Elan:

- Double-click on the ELAN icon
- Click on the <u>File</u> menu
- Click on Open... (choose existing elan .eaf file or New...in case of media file .mpg, .wav)

Demonstration: open file Elan tutorial clip.m4v



Create the tiers (variables you want to code)

- A tier is a set of annotations that share the same characteristics, e.g., one tier containing the gesture annotations, or another tier containing the vocalization annotations
- Each tier can have a preset number of categories (e.g., for the gesture tier: Reach, Touch, Hand on,...)



Create the tiers:

• Go to <u>Tier</u>... <u>Add new tier</u>...<u>Tier Name</u>...<u>Add</u>

Demonstration: create the following tiers: Clip name, ID1, ID2, Signal



If you want to use a preset coding template:

- Open a video file with Elan
- Click on <u>Tier</u>... <u>Import tiers</u>...<u>Browse</u> (choose existing template file .etf)...<u>Import</u>...<u>Close</u>

#### Create annotations:

- An annotation is any type of text (e.g. a transcription, a translation, coding, etc.) that you enter on a tier
- It is assigned to a selected time interval of the video/audio file

Demonstration: Create an annotation segment in the tier ID1, i.e. « Conan »



#### Working modes:

- Annotation mode: a generic mode in which almost all functions are available
- Segmentation mode: designed for rapid and easy creation of empty annotations while the media is playing



#### Annotation mode (default mode):

- Go to <u>Option</u>... <u>Annotation mode</u>
- You can use the <u>selection mode</u> by ticking the box then drag the red curser to make large selections
- Or you can simply use the mouse click and drag the red line to highlight a segment
- Select the Tier you want to add annotation to by double clicking on it (becomes highlighted in pink, name in red)
- Create an annotation by doucle-clicking on selection or go to Annotation...<u>Create new annotation here</u>



#### Annotation mode (default mode):

- You can remove a selection by selecting it (becomes blue), go to...<u>Annotation</u>...<u>Delete annotation</u>
- You can remove the content of an annotation, go to <u>Annotation</u>... <u>Remove annotation value</u>



Segmentation mode (to create segmentations while media is playing):

- Go to <u>Option</u>... <u>Segmentation mode</u>
- Several segmentation options:
- "two keystrokes per annotation" for non-adjacent annotations (press "enter" once to create 1<sup>st</sup> boundary and press "enter" a second time to create 2<sup>nd</sup> boundary)
- "one keystroke per annotation" for adjacent annotations (press "enter" once to create 1<sup>st</sup> boundary and press "enter" a second time to create 2<sup>nd</sup> boundary = beginning of second annotation)
- "one keystroke per annotation", fixed duration (choose if key stroke marks beginning or end of segment press "enter" once to create a fixed duration segment)



Segmentation mode (to create segmentations while media is playing):

- Possible to change the boundaries of an annotation by dragging them with the mouse (needs to be selected by placing the mouse on it, becomes green)
- Possible to remove segment by selecting and pressing the back key
- Possible to expand or shrink time line by moving the bottom right curser
- Possible to slow down or speed video stream (go to <u>Control</u>... <u>Rate</u>)



Create controlled vocabularies for your tiers:

• All possible categories of annotations for your tiers

e.g., in the 'Gesture' tier you could have a drop-down menu of all potential bonobo gestures, such as Raise, Reach, etc.



Create controlled vocabularies, 3 steps:

**1st step**: enter all the potential values

- Go to Edit... Edit Controlled Vocabularies
- CV Name = Name of Tier
- Entry value... <u>Add</u>
- Close

Demonstration: enter Gesture in CV name and add: Reach, Clap hands, Raise



Create controlled vocabularies

**Step 2**: create a tier type associated with the new vocabulary

- Go to <u>Type</u>... <u>Add New Tier Type</u>...
- Tier name: (e.g. Gesture)
- Use controlled vocabularies: (e.g. Gesture)
- Add... Close

Demonstration: enter Gesture in Tier name and enter Gesture in Use controlled vocabularies



Create controlled vocabularies:

**Step 3**: associate the tier name with the tier type (and thus the vocabulary)

- Go to <u>Tier</u>... <u>Change Tier Attributes</u>...
- Select a Tier (e.g. Gesture)
- Tier type (choose correct linguistic type, i.e. Gesture)
- Change... Close



Saving and exporting annotations:

#### Save files

• Go to File...Save as

#### **Export to Excel**

- Go to <u>File</u>...<u>Export as</u>...<u>Tab delimited text</u>...Separate column for each tier...Include time column for: begin time, end time, duration...Include time format: msec..<u>OK</u>...<u>Save as</u> = "clip name" in UTF-8 mode
- Open text file with Excel

