| Linguistic Data | Corpora 0 | Childes | Linguistic Data | Corpora | Childes |
|--|---------------------------|-----------------|---|---|-----------------|
| 0 | | | o Intuitions | | |
| | | | Introspec | tion as a Source of Linguistic Da | ıta |
| | Linguistic Data | | | ospection by trained linguists, relying on th eaker competence | eir native |
| L | LING 510 (today with jan) | | a. b. | ? How big a dog chased you? | |
| February 18, 2005 | | (2) a. b. | [from Bresnan (1994)] (Locat On the wall hung canvasses, but not pai ? On the wall hung canvasses, but not on | ntings. | |
| | | | (3) a. b. | Who bought what? | k Crossover) |
| | < = > < @ > < | 5) (3) 2 OAO | | | (2)(2)(2) 2 のへの |
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| Reactions | | | Observations | | |

Responses as a Source of Linguistic Data



- Response times
- Reading pace
- Eye-tracking
- Brain activity (PET, fMRI, ERP)
- ...





Spontaneous Speech as a Source of Linguistic Data

Collect naturally produced speech or text in corpora.

- Collection of spoken language, f.i. radio shows, phone conversations (speech corpora).
- Collection of written language, f.i. books, newspapers (text corpora).
- Text plus f.i. gestures, facial expressions, f.i. tv, video taped conversations (multimodal corpora).







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| | | | Annotation | | |

Spontaneous Speech as a Source of Linguistic Data

- Specialized collections, for instance child language, language from second language learners.
- Specialized domains of language use, for instance conversations about meetings and appointments, etc.
- Corpora contain only occurring forms, no negative evidence.







Different levels of annotation

- Lexical information [f.i. lemma (Hund, Hunds, Hunde, Hunden, are all forms of 'Hund' (*dog*)), part of speech]
- Phonological information [f.i. ipa transcription, intonation]
- Morphological information [f.i. inflection, dog's -> gen. sg.]
- Syntactic structure
- Anaphoric relations
- Discourse structure
- Watch out though, annotation is always dependent on theoretical assumptions.

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Examples of usage of corpora

CHILDES - Child Language Data Exchange System

- Collections of example sentences
- Psycholinguistic experiments balance the frequencies of items
- Historical linguistics, language change, f.i. when did people start using you instead of thou
- Sociolinguistics, dialect variance
- Productivity of certain processes, f.i. German plural -en vs. -s (frequent vs. productive)

"[...] this type of study is limited by the fact that certain structures occur infrequently in spontaneous speech and are thus difficult to investigate using data of this sort. Moreover, because of the longitudinal character, naturalistic studies are sometimes impractical due to the time required to collect and transcribe tape-recorded data"

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CHILDES – Child Language Data Exchange System



- "This problem is alleviated somewhat in the case of English and a few other languges by the availability of previously collected and transcribed data from various sources, including CHILDES – the Child Language Data Exchange System." [O'Grady 1997]
- http://childes.psy.cmu.edu/

CHILDES – Child Language Data Exchange System

What will you need to work with CHILDES.

- The CLAN program, available at http://childes.psy.cmu.edu/clan/.
- A copy of the data you want to look at. An overview of all available data and detailed information about each dataset are on the childes website at

 ${\tt http://childes.psy.cmu.edu/manuals/}.$ You can download the data from

http://childes.psy.cmu.edu/data/.

 You probably also want a copy of the CLAN manual, even though you will probably only need to use a couple of its many commands. Look at

http://childes.psy.cmu.edu/manuals/CLAN.pdf.

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References and Resources

- O' Grady, William (1997): Syntactic Development. University of Chicago Press, Chicago.
- MacWhinney, Brian (2000): The CHILDES Project: Tools for analyzing talk. 3rd Edition. Vol. 2: The Database. Lawrence Erlbaum Associates, Mahwah, NJ.
- http://www.linguistik.hu-berlin.designato.de/ korpuslinguistik/
- Childes: http://childes.psy.cmu.edu/
- British National Corpus: http://sara.natcorp.ox.ac.uk/lookup.html
- Linguistic Data Consortium: http://www.ldc.upenn.edu