

# The Sign Language Dataset Compendium

## Creating an Overview of Digital Sign Language Resources

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### Why?

- Identification of suitable sign language datasets challenging
- No single source of information
- Extensive literature review or word-of-mouth needed
- Amount of information varies widely
- Information distributed across different publications, data repositories and (potentially defunct) project websites

### The Compendium

- Extensive **overview of linguistic resources** for sign languages around the globe
- Naturally used language by signers with L1 language proficiency
- Info tables with **structured information** in thematic categories
- Standardised but flexible format through free-form description
- Machine-readable **metadata**
- Pointers to data, project websites, literature references, etc.
- **Interconnected** entries, providing links between resources, tasks, and languages
- Available as website and static document
- Growing resource with **regular updates**

### How?

#### Method

- Literature review of 363 publications in the sign-lang@LREC Anthology
- Inspection of
  - Additional literature
  - Datasets
  - Project websites
- Personal correspondence with data creators
- Language specific curation criteria depending on size and number of available resources

### What is Described?

#### For Corpora

**Languages:** Languages of primary data; not including languages of annotation/translation

**Size:** Token count, type count, recording hours, number of video clips, and/or file size

**Participants:** Publicly documented demographic information, such as number of participants, regions, age groups, gender distribution, and more

**Metadata Format:** File formats of machine-readable metadata

**Translation:** Amount and language of translations

**Annotation:** Amount of annotations, and conventions (paraphrased and/or with reference to published conventions)

**Data Format:** File formats of annotation/translation data

#### Current Size



41  
Corpora



71  
Lexical Resources



27  
Collection Tasks



76  
Sign Languages

#### Where to Find It?

<https://www.sign-lang.uni-hamburg.de/lr/compendium/>



### The Sign Language Dataset Compendium

Start | Corpora | Lexical Resources | Tasks | Languages

#### Dictionary of LESCO

The dictionary of LESCO was built on the basis of the [LESCO Corpus](#). For missing semantic fields videos not selected for the corpus have been used, as well as advice from members of the Deaf community of San José.

Signs can be searched by Spanish gloss, handshape of the active hand and a thematic index.

<b>Languages</b>	<a href="#">Costa Rican Sign Language, Spanish</a>
<b>Size</b>	1041 signs
<b>Linguistic Information</b>	Citation form, corpus examples, glosses and translations in Spanish, information on grammar and meaning
<b>Licence</b>	BY-NC-SA
<b>Access</b>	Public access via browsable homepage
<b>Webpage</b>	<a href="http://cenarec-lesco.org/DiccionarioLESKO.php">http://cenarec-lesco.org/DiccionarioLESKO.php</a>
<b>Institution</b>	Centro Nacional de Recursos para la Educación Inclusiva (CENAREC)
<b>Publications</b>	<a href="#">Oviedo and Ramírez Valerio (2018)</a>

#### References

- Alejandro Oviedo, Christian Ramírez Valerio (2018). "The LESKO Corpus. Data for the Description of Costa Rican Sign Language". In: *Proceedings of the LREC2018 8th Workshop on the Representation and Processing of Sign Languages: Involving the Language Community* (Miyazaki, Japan), Ed. by Mayumi Bono, Eleni Efthymiou, Stavroula-Evita Fotinea, Thomas Hanke, Julie A. Hochgesang, Jette Kristoffersen, Johanna Mesch, Yutaka Osugi. Paris, France: European Language Resources Association (ELRA), pp. 167-170. ISBN: 979-10-95546-01-6.

This entry was last inspected on 11 April 2022.

### For Lexical Resources

**Languages:** Signed and spoken languages used in resource

**Size:** Number of lexical items (signs or types)

**Linguistic Information:** ID-glosses, translational equivalents, citation form video, meanings, phonetic transcription or categorisations, frequency and other statistics, list of corpus occurrences, and more

### For Corpora as well as Lexical Resources

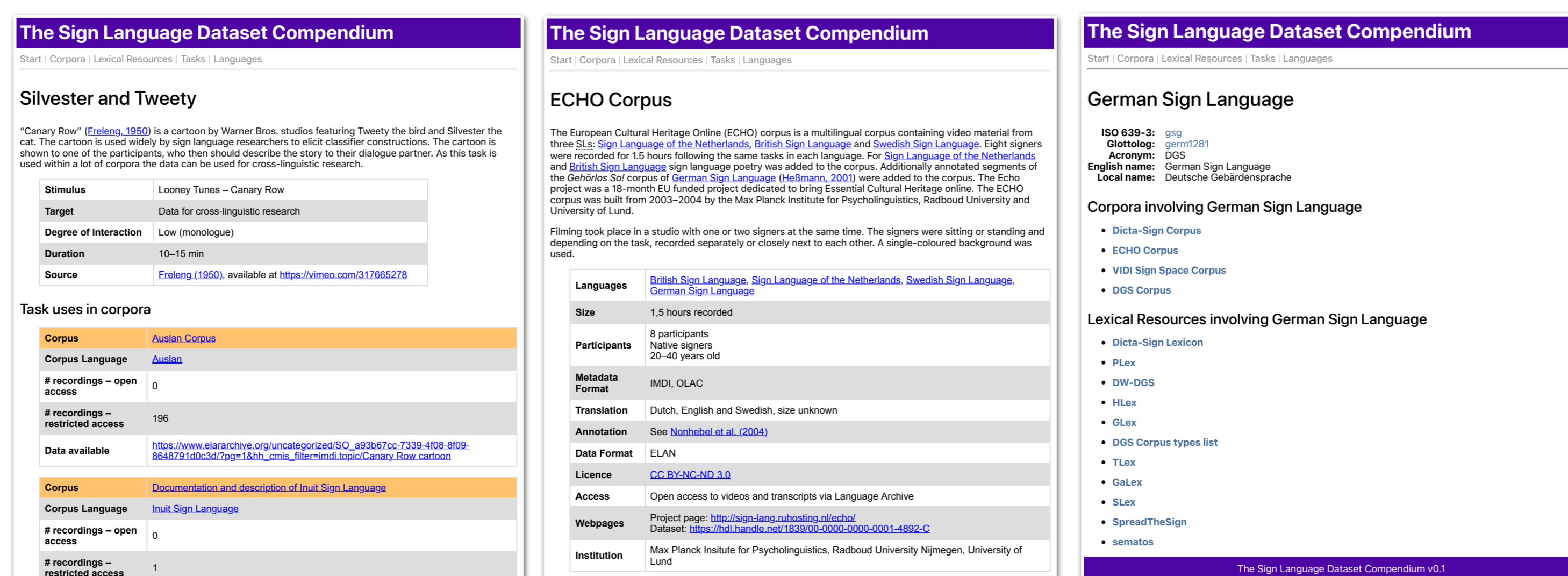
**Licence:** Commonly used licence conditions such as Creative Commons or custom licences, link to the licence

**Access:** Identification of public and restricted parts, description of access

**Webpages:** Relevant websites such as project page, research dataset, portals for access by the general public, and more

**Institutions:** Universities and other organisations creating the dataset

**References:** Important bibliographic references, links to external lists of publications



### Curation Criteria

#### General criteria:

1. Must include video data
2. No sign-supported systems
3. No language acquisition data
4. No historical sign languages
5. Data must be attainable
6. Criteria for corpora
7. Must be (semi-)spontaneous signing
8. L1 signers
9. Data must have at least a partial translation and/or gloss annotation
10. At least 5 hours (minimum) or 10 hours (strict) of sign language recordings.

#### For Lexical Resources:

11. Must include index
12. At least 100 (minimum) or 1000 (strict) different signs.

#### For data collection tasks:

13. Used by multiple resources

### What are Commonly Used Tasks?

**Stimulus:** Description of stimulus provided to participants

**Target:** Linguistic phenomena intended to elicit

**Degree of Interaction:** Estimate of amount of interaction, reason for given degree

**Duration:** Estimate of duration of the task, based on instances observed in corpus data or published documentation

**Source:** References to material (e.g. books, films) or related scientific publications

### Which Corpus Uses which Task?

**# recordings – open access:** Number of recordings publicly available

**# recordings – closed access:** Number of recordings non-publicly available

**Data available:** Links to corpus recordings of this task with disambiguating notes to help find the task on the referenced page

