

The Leipzig Glossing Rules:

Conventions for interlinear morpheme-by-morpheme glosses

About the rules

The Leipzig Glossing Rules have been developed jointly by the Department of Linguistics of the Max Planck Institute for Evolutionary Anthropology (Bernard Comrie, Martin Haspelmath) and by the Department of Linguistics of the University of Leipzig (Balthasar Bickel). They consist of ten rules for the "syntax" and "semantics" of interlinear glosses, and an appendix with a proposed "lexicon" of abbreviated category labels. The rules cover a large part of linguists' needs in glossing texts, but most authors will feel the need to add (or modify) certain conventions (especially category labels). Still, it will be useful to have a standard set of conventions that linguists can refer to, and the Leipzig Rules are proposed as such to the community of linguists. The Rules are intended to reflect common usage, and only very few (mostly optional) innovations are proposed.

We intend to update the Leipzig Glossing Rules occasionally, so feedback is highly welcome.

Important references:

Lehmann, Christian. 1982. "Directions for interlinear morphemic translations". *Folia Linguistica* 16: 199-224.

Croft, William. 2003. *Typology and universals*. 2nd ed. Cambridge: Cambridge University Press, pp. xix-xxv.

The rules

(revised version of February 2008)

Preamble

Interlinear morpheme-by-morpheme glosses give information about the meanings and grammatical properties of individual words and parts of words. Linguists by and large conform to certain notational conventions in glossing, and the main purpose of this document is to make the most widely used conventions explicit.

Depending on the author's purposes and the readers' assumed background knowledge, different degrees of detail will be chosen. The current rules therefore allow some flexibility in various respects, and sometimes alternative options are mentioned.

The main purpose that is assumed here is the presentation of an example in a research paper or book. When an entire corpus is tagged, somewhat different

considerations may apply (e.g. one may want to add information about larger units such as words or phrases; the rules here only allow for information about morphemes).

It should also be noted that there are often multiple ways of analyzing the morphological patterns of a language. The glossing conventions do not help linguists in deciding between them, but merely provide standard ways of abbreviating possible descriptions. Moreover, glossing is rarely a complete morphological description, and it should be kept in mind that its purpose is not to state an analysis, but to give some further possibly relevant information on the structure of a text or an example, beyond the idiomatic translation.

A remark on the treatment of glosses in data cited from other sources: Glosses are part of the analysis, not part of the data. When citing an example from a published source, the gloss may be changed by the author if they prefer different terminology, a different style or a different analysis.

Rule 1: Word-by-word alignment

Interlinear glosses are left-aligned vertically, word by word, with the example. E.g.

- (1) Indonesian (Sneddon 1996:237)

Mereka di Jakarta sekarang.
 they in Jakarta now
 'They are in Jakarta now.'

Rule 2: Morpheme-by-morpheme correspondence

Segmentable morphemes are separated by hyphens, both in the example and in the gloss. There must be exactly the same number of hyphens in the example and in the gloss. E.g.

- (2) Lezgian (Haspelmath 1993:207)

Gila abur-u-n ferma hamišaluǧ güǧüna amuq'-da-č.
 now they-OBL-GEN farm forever behind stay-FUT-NEG
 'Now their farm will not stay behind forever.'

Since hyphens and vertical alignment make the text look unusual, authors may want to add another line at the beginning, containing the unmodified text, or resort to the option described in Rule 4 (and especially 4C).

Clitic boundaries are marked by an equals sign, both in the object language and in the gloss.

- (3) West Greenlandic (Fortescue 1984:127)

palasi=lu niuirtur=lu
 priest=and shopkeeper=and
 'both the priest and the shopkeeper'

Rule 2A. (Optional)

If morphologically bound elements constitute distinct prosodic or phonological words, a hyphen and a single space may be used together in the object language (but not in the gloss).

- (4) Hakha Lai
a-nii -láay
 3SG-laugh-FUT
 's/he will laugh'

Rule 3: Grammatical category labels

Grammatical morphemes are generally rendered by abbreviated grammatical category labels, printed in upper case letters (usually small capitals). A list of standard abbreviations (which are widely known among linguists) is given at the end of this document.

Deviations from these standard abbreviations may of course be necessary in particular cases, e.g. if a category is highly frequent in a language, so that a shorter abbreviation is more convenient, e.g. CPL (instead of COMPL) for "completive", PF (instead of PRF) for "perfect", etc. If a category is very rare, it may be simplest not to abbreviate its label at all.

In many cases, either a category label or a word from the metalanguage is acceptable. Thus, both of the two glosses of (5) may be chosen, depending on the purpose of the gloss.

- (5) Russian
My s Marko poexa-l-i avtobus-om v Peredelkino.
 1PL COM Marko go-PST-PL bus-INS ALL Peredelkino
 we with Marko go-PST-PL bus-by to Peredelkino
 'Marko and I went to Peredelkino by bus.'

Rule 4: One-to-many correspondences

When a single object-language element is rendered by several metalanguage elements (words or abbreviations), these are separated by periods. E.g.

- (6) Turkish
çık-mak
 come.out-INF
 'to come out'
- (7) Latin
insul-arum
 island-GEN.PL
 'of the islands'
- (8) French
aux chevaux
 to.ART.PL horse.PL
 'to the horses'

(9) German

unser-n Väter-n
 our-DAT.PL father.PL-DAT.PL
 'to our fathers'

(10) Hittite (Lehmann 1982:211)

n=an apedani mehuni essandu.
 CONN=him that.DAT.SG time.DAT.SG eat.they.shall
 'They shall celebrate him on that date.' (CONN = connective)

(11) Jaminjung (Schultze-Berndt 2000:92)

nanggayan guny-bi-yarluga?
 who 2DU.A.3SG.P-FUT-poke
 'Who do you two want to spear?'

The ordering of the two metalanguage elements may be determined by various principles that are not easy to generalize over, so no rule will be provided for this.

There are various reasons for a one-to-many correspondence between object-language elements and gloss elements. These are conflated by the uniform use of the period. If one wants to distinguish between them, one may follow Rules 4A-E.

Rule 4A. (Optional)

If an object-language element is neither formally nor semantically segmentable and only the metalanguage happens to lack a single-word equivalent, the underscore may be used instead of the period.

(12) Turkish (cf. 6)

çık-mak
 come_out-INF
 'to come out'

Rule 4B. (Optional)

If an object-language element is formally unsegmentable but has two or more clearly distinguishable meanings or grammatical properties, the semi-colon may be used. E.g.

(13) Latin (cf. 7)

insul-arum
 island-GEN;PL
 'of the islands'

(14) French

aux chevaux
 to;ART;PL horse;PL
 'to the horses'

Rule 4C. (Optional)

If an object-language element is formally and semantically segmentable, but the author does not want to show the formal segmentation (because it is irrelevant and/or to keep the text intact), the colon may be used. E.g.

- (15) Hittite (Lehmann 1982:211) (cf. 10)
n=an apedani mehuni essandu.
 CONN=him that:DAT;SG time:DAT;SG eat:they:shall
 'They shall celebrate him on that date.'

Rule 4D. (Optional)

If a grammatical property in the object-language is signaled by a morphophonological change (ablaut, mutation, tone alternation, etc.), the backslash is used to separate the category label and the rest of the gloss.

- (16) German (cf. 9)
unser-n Väter-n
 our-DAT.PL father\PL-DAT.PL
 'to our fathers' (cf. singular *Vater*)

- (17) Irish
bhris-is
 PST\break-2SG
 'you broke' (cf. nonpast *bris-*)

- (18) Kinyarwanda
mú-kòrà
 SBJV\1PL-work
 'that we work' (cf. indicative *mù-kòrà*)

Rule 4E. (Optional)

If a language has person-number affixes that express the agent-like and the patient-like argument of a transitive verb simultaneously, the symbol ">" may be used in the gloss to indicate that the first is the agent-like argument and the second is the patient-like argument.

- (19) Jaminjung (Schultze-Berndt 2000:92) (cf. 11)
nanggayan guny-bi-yarluga?
 who 2DU>3SG-FUT-poke
 'Who do you two want to spear?'

Rule 5: Person and number labels

Person and number are not separated by a period when they cooccur in this order. E.g.

- (20) Italian
and-iamo
 go-PRS.1PL(not: go-PRS.1.PL)
 'we go'

Rule 5A. (Optional)

Number and gender markers are very frequent in some languages, especially when combined with person. Several authors therefore use non-capitalized shortened abbreviations without a period. If this option is adopted, then the second gloss is used in (21).

(21) Belhare

<i>ne-e</i>	<i>a-khim-chi</i>	<i>n-yuŋŋa</i>
DEM-LOC	1SG.POSS-house-PL	3NSG-be.NPST
DEM-LOC	1sPOSS-house-PL	3ns-be.NPST

'Here are my houses.'

Rule 6: Non-overt elements

If the morpheme-by-morpheme gloss contains an element that does not correspond to an overt element in the example, it can be enclosed in square brackets. An obvious alternative is to include an overt "Ø" in the object-language text, which is separated by a hyphen like an overt element.

(22) Latin

<i>puer</i>	or:	<i>puer-Ø</i>
boy[NOM.SG]		boy-NOM.SG
'boy'		'boy'

Rule 7: Inherent categories

Inherent, non-overt categories such as gender may be indicated in the gloss, but a special boundary symbol, the round parenthesis, is used. E.g.

(23) Hunzib (van den Berg 1995:46)

<i>ož-di-g</i>	<i>xōxe</i>	<i>m-uq'e-r</i>
boy-OBL-AD	tree(G4)	G4-bend-PRET

'Because of the boy the tree bent.'

(G4 = 4th gender, AD = adessive, PRET = preterite)

Rule 8: Bipartite elements

Grammatical or lexical elements that consist of two parts which are treated as distinct morphological entities (e.g. bipartite stems such as Lakhota *na-xʔu* 'hear') may be treated in two different ways:

(i) The gloss may simply be repeated:

(24) Lakhota

<i>na-wičha-wa-xʔu</i>	
hear-3PL.UND-1SG.ACT-hear	
'I hear them'	(UND = undergoer, ACT = actor)

(ii) One of the two parts may be represented by a special label such as STEM:

- (25) Lakhota
na-wičha-wa-xʔu
 hear-3PL.UND-1SG.ACT-STEM
 'I hear them'

Circumfixes are "bipartite affixes" and can be treated in the same way, e.g.

- (26) German
ge-seh-en or: *ge-seh-en*
 PTCP-see-PTCP PTCP-see-CIRC
 'seen' 'seen'

Rule 9: Infixes

Infixes are enclosed by angle brackets, and so is the object-language counterpart in the gloss.

- (27) Tagalog
b<um>ili (stem: *bili*)
 <ACTFOC>buy
 'buy'
- (28) Latin
reli<n>qu-ere (stem: *reliqu-*)
 leave<PRS>-INF
 'to leave'

Infixes are generally easily identifiable as left-peripheral (as in 27) or as right-peripheral (as in 28), and this determines the position of the gloss corresponding to the infix with respect to the gloss of the stem. If the infix is not clearly peripheral, some other basis for linearizing the gloss has to be found.

Rule 10: Reduplication

Reduplication is treated similarly to affixation, but with a tilde (instead of an ordinary hyphen) connecting the copied element to the stem.

- (29) Hebrew
yerak~rak-im
 green~ATT-M.PL
 'greenish ones' (ATT = attenuative)
- (30) Tagalog
bi~bili
 IPFV~buy
 'is buying'

(31) Tagalog

b<um>i~bili

<ACTFOC>IPFV~buy

'is buying'

(ACTFOC = Actor focus)

Appendix: List of Standard Abbreviations

1	first person
2	second person
3	third person
A	agent-like argument of canonical transitive verb
ABL	ablative
ABS	absolute
ACC	accusative
ADJ	adjective
ADV	adverb(ial)
AGR	agreement
ALL	allative
ANTIP	antipassive
APPL	applicative
ART	article
AUX	auxiliary
BEN	benefactive
CAUS	causative
CLF	classifier
COM	comitative
COMP	complementizer
COMPL	completive
COND	conditional
COP	copula
CVB	converb
DAT	dative
DECL	declarative
DEF	definite
DEM	demonstrative
DET	determiner
DIST	distal
DISTR	distributive
DU	dual
DUR	durative
ERG	ergative
EXCL	exclusive
F	feminine
FOC	focus
FUT	future
GEN	genitive
IMP	imperative
INCL	inclusive
IND	indicative
INDF	indefinite

INF	infinitive
INS	instrumental
INTR	intransitive
IPFV	imperfective
IRR	irrealis
LOC	locative
M	masculine
N	neuter
N-	non- (e.g. NSG nonsingular, NPST nonpast)
NEG	negation, negative
NMLZ	nominalizer/nominalization
NOM	nominative
OBJ	object
OBL	oblique
P	patient-like argument of canonical transitive verb
PASS	passive
PFV	perfective
PL	plural
POSS	possessive
PRED	predicative
PRF	perfect
PRS	present
PROG	progressive
PROH	prohibitive
PROX	proximal/proximate
PST	past
PTCP	participle
PURP	purposive
Q	question particle/marker
QUOT	quotative
RECP	reciprocal
REFL	reflexive
REL	relative
RES	resultative
S	single argument of canonical intransitive verb
SBJ	subject
SBJV	subjunctive
SG	singular
TOP	topic
TR	transitive
VOC	vocative

References

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