The \glinlines macro The \glinlines{} macro provides for an unlimited number of word-for-word interlinear text/gloss lines, and an unlimited number of free-form text lines for translations, notes, etc.

The macro can be used inside the linguistic example environment (exe) of the gb4e package, standing in place of the $\glasse1$... commands in some cases.

```
\begin{exe}
\ex
\qll Wenn jemand in die Wüste zieht ... \\
If someone in the desert draws and lives ... \\
\trans `if one retreats to the desert and ... '
\end{exe}
  produces:
  (1) Wenn jemand in die Wüste zieht und ...
           someone in the desert draws and lives ...
      'if one retreats to the desert and ...'
  The \qlinlines{} equivalent is:
\begin{exe}
\ex
\qlinlines{%
       Wenn jemand in die Wüste zieht und ...
*/
       If someone in the desert draws and ...
alt
        `If one retreats to the desert and ... '
\end{exe}
  and produces:
      Wenn jemand in die Wüste zieht und ...
            someone in the desert draws and ...
      'If one retreats to the desert and ...'
```

The number of words in the text/gloss lines currently must be equal. Lines are delineated with */ (arbitrarily chosen, can be set to some other string).

Words are split out by spaces. "they-have" is one word, "they have" is two words. Braces, which have a special meaning to T_EX, can be used to group words, in effect shielding everything they contain from being seen: "{they have}" counts as one word. Because braces are eventually stripped out before printing, their presence affects the working of any attach-commands that \glinlines{} might use.

Free-form text as a translation (or any other matter) is introduced with glt (likewise arbitrary) as the default marker.

Multiple glosses are possible:

(3) Auto uderzył dziecko.
car.NOM hit.3sG child.ACC
car.ACC hit.3sG child.NOM
'The car hit the child.' / 'The child hit the car.'

Each text/gloss line (the word-for-word lines, WFW), can have one or more free-form text lines (FFT) attached.

The unstarred version of the macro, \glinlines{}, will print the FFT line(s) attached to the last WFW line. The starred version, \glinlines*{}, will print all FFT lines.

(4) Auto uderzył dziecko.
car.NOM hit.3sG child.Acc
'The car hit the child.'
car.Acc hit.3sG child.NOM
'The child hit the car.'

The WFW lines can hold anything, not just glossing, as long as the number of words (i.e., ungrouped spaces) matches.

The FFT lines likewise can contain anything, not just translations.

(5) gef hundinum matinn gje hunden maten give the dog the food gib dem Hunde das Essen One of the daily chores.

Source Reference

https://tex.stackexchange.com/questions/156066/align-glosses-in-more-than-one-language-with-gb4e

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The \glsetfirstlineformat{} command will apply its contents to every word on the first line, e.g., font, font size, font colour.

To keep the spaces pristine as word-boundary markers, commands to be applied inside a line are marked with a colon (:) and suffixed to a word, e.g., ugrt:writing becomes ugrt\writing, which typesets as "ugrt \"".

An ancient city in the east Mediterranean.

Also known as Ras Shamra ("head fennel" = Cape Fennel),

رأس شمرة

~~~~~

New line Post-pend a plus sign (+) to the word prior to where the new line should occur, e.g., "Mink.+":

(7) thu-mi-t-əm =k'wa Mink.
go.RIL.CTR.PASS =.QUOT Mink
chichiya7-u-s =k'wa Mink te= c'estaya.
grandmother.PST.3POSS =.QUOT Mink .DET= knothole
'Mink went towards it. The knothole was Mink's grandmother.'

Source Reference

https://tex.stackexchange.com/questions/306764/breaking-l
ine-in-gb4e

Switching over to italic blue for the first line.

Notice the emphasized e, subscript i, e_i , inside an italic environment.

(8) a delak a uleker er ngak el kmo ng-ngerai a sensei mother-my asked P me L Comp CL-what teacher a milskak a buk me a Toki a ulterur ei er ngak gave book and Toki sold P me 'My mother asked me what the teacher gave me a book and Toki sold me'

To do: outdent:

Source Reference

https://tex.stackexchange.com/questions/115591/how-can-i
-indent-the-second-line-of-a-linguistic-gloss-with-gb4
e-sty/115607#115607

Prepend commands To prepend a command to a word, mark the command's finish with a semicolon (;), e.g., :llapstar; `The becomes \llapstar`The which becomes "*'The". (The \llap{} command is used here to overprint the * to the left, so that the text aligns vertically.)

(9) bites dog cat verb dd cc 'The dog bites the cat.' *'The cat bites the dog.'

Source Reference

https://tex.stackexchange.com/questions/306564/left-edg e-vertical-alignment-in-gb4e **Dot Prefix** Words (i.e., made up of letters A-Z, a-z, and digits 0-9) beginning with a dot are treated as parts of speech and their formatting is governed by the \mfssetposformat{} command, e.g., ".1sg" becomes ".1sg".

(10) kma t'-əlčqu-(y)in .1sg .1sg.sub-see-.2sg.obj 'I saw you.' (S1:71)

Source Reference

https://tex.stackexchange.com/questions/184860/gb4e-leave s-extra-space-before-translation/184862#184862

Patching the example number format

11. *Dies ist ein Beispiel*This is an example

() \mapsto . : \usepackage{gb4e} \usepackage{etoolbox} \makeatletter \patchcmd\ exe {(\thexnumi)} {\thexnumi.} {}} \makeatother

Global settings The \mfssetposformat{} formatting continues to apply from one example to the next, like a global switch.

(12) Saja mem-bawa surat itu kepada Ali.
I .CAUSE-bring letter the to Ali.
I brought the letter to Ali.

Source Reference

https://tex.stackexchange.com/questions/337817/using-gb4e-inside-of-enumerate-environment/338093#338093

Attaching commands Use : commandA; na: commandB to achieve \commandAna\commandB e.g., upright brackets: :uplb; na: uprb \mapsto (na).

(13) nyumba i-na-on-ek-a (na) wa-tu house(9) 9-.PRS-see-.NEUT-.FV (.COM) 2-person intended: '(A/the) house is seen by people.'

(14) a-li-sem-a kwamba "na-m-ju-a"
1-.PST-speak-.FV .COMP .1SG.PRS-1-know-.FV
"He said, "I know him."

Source Reference

https://tex.stackexchange.com/questions/308454/gb4e-overwrite-italics-in-first-line

Adding information to the right is done with \glinlinesnote{gloss example}{note}.

\begin{exe}
\ex
 \glinlinesnote{%
 Das ist ein deutsches Beispiel.
*/ this is a German example
 }{German}
\end{exe}
 produces

(15) Das ist ein deutsches Beispiel. this is a German example

(German)

A longer sentence:

- (16) Das ist einer dieser sehr langen Sätze, die es in der a this is one of-these very long sentences that it in the a b deutschen Sprache gibt.
 b German language gives
- (17) Das ist einer dieser sehr langen Sätze, (German) this is one of-these very long sentences die es in der a b deutschen Sprache gibt. that it in the a b German language gives

 This item has a language note.

Source Reference

https://tex.stackexchange.com/questions/600695/limiting-space-used-by-gb4e-and-adding-language-information-to-the-right

Extended commentary The example can be almost all free-form text (i.e., glt-tagged material):

(18) On the honeydew melon¹

The honeydew melon is one of the two main cultivar types in Cucumis melo Inodorus Group. It is characterized by the smooth rind and lack of musky odor.

El melón verde, melón blanco, casaba, melón rocío de miel o melón tuna es un fruto de la familia del melónCucumis melo (Cucumis melo) que se cultiva en general para el consumo gastronómico. La fruta es similar al melón anaranjado o cantalupo, pero tiene un sabor más dulce, contiene más agua y posee un color verde pálido o claro en su interior.

Le melon honeydew, ou melon miel, est un melon du groupe de cultivars de l'espèce Cucumis melo (famille des Cucurbitaceae). Le groupe Inodorus inclut le melon honeydew, le melon musqué, le melon d'hiver et d'autres hybrides du melon.

Il melone verde è un gruppo di colture appartenente al gruppo Inodorus della specie dei Cucumis melo.

Tale gruppo comprende oltre al melone verde anche il melone persiano, di inverno, casaba e crenshaw.

This example also illustrates the use of custom markdown commands and their attachment as postfixes, acting on the word they are attached to: honeydew melon becomes honeydew:space;melon, to be seen as one 'word', to which the \ttikz command (an overlaid green bounding box with red text) is applied as the pattern word::command; and the pattern is converted to \command {word} by a regular expression. The pattern:command; is converted to \command.

honeydew::ttikz; produces:

- (19) The honeydew melon
 .ART .PROD.MET.ATTR .FRUIT
- (20) Naoya-wa Mari-ga Nani o Non-da ka Yumi-ni it-ta
 Naoya-Top Mari-Nom what-Acc drink-Past Q Yumi-Dat it-Past
 no?
 Q?

'(Lit.) For which x, x a thing, Naoya said to Yumi whether Mari drink x.'

¹Text from various Wikipedias.

Word-numbering can be switched on with \mfsnumberedwordson.

(21) Naoya-wa¹ Mari-ga² Nani o^3 Non-da⁴ ka⁵ Yumi-ni⁶ Naoya-Top¹ Mari-Nom² what-Acc³ drink-Past⁴ Q⁵ Yumi-Dat⁶ it-ta⁷ no o^{2} ? Naoya-Top⁸ it-Past⁷ Q?

'(Lit.) For which x, x a thing, Naoya said to Yumi whether Mari drink x.'

Word-stacks (which are vboxes) can be formatted with \mfsformattedvboxon.²

(22)θέλω δè οů ύμᾶς άγνοεῖν, άδελφοί, agnoein adelphoi ou thelō de humas want.1SG but you.Acc.PL be-ignorant.PRES.INF not brothers.**Voc** őτι πολλάκις προεθέμην έλθεῖν hoti polakis proethemēn elthein that often planned.1SG come.Aor.Inf

But I don't want you to be unaware, brothers, that many times I planned to come. (Rom 1.13)

- (23) w-for-w line 1
 w-for-w line 2
 w-for-w line 3
 w-for-w line 4
 Line 4, Trans A
 Line 4, Trans B
 Line 4, Trans C
- Line 1, Trans A
 Line 1, Trans B
 Line 1, Trans B
 Line 1, Trans C
 w-for-w line 2
 Line 2, Trans A
 Line 2, Trans B
 Line 2, Trans C
 w-for-w line 3
 Line 3, Trans A
 Line 3, Trans B
 Line 3, Trans C
 w-for-w line 4
 Line 4, Trans A
 Line 4, Trans B

²A hard-coded \colorbox{blue!12} is applied.

option key preamble=

(25) Somebody has arrived late.

#Ich bin schon da

I am already there

'I am here already.'

Source Reference

https://tex.stackexchange.com/questions/308008/gb4e-phantom-spacing

- (26) [This] is an example which displays properly.
- (27) [This] a is an example which displays properly.
- (28) *
 [This] b is an example which displays properly.
- (29) *[This] c is an example which displays properly.

Source Reference

https://tex.stackexchange.com/questions/590883/how-to-use
-gb4e-to-produce-glossed-example-with-bracket
 Text, see footnote³

(30) Text⁴, text, text.

Text⁵, text, text.

Text⁶, text, text.

Text is here⁷, text, text.

https://tex.stackexchange.com/questions/334636/using-gb4e-to-insert-footnote-in-gll-line

³ This is a footnoted example.

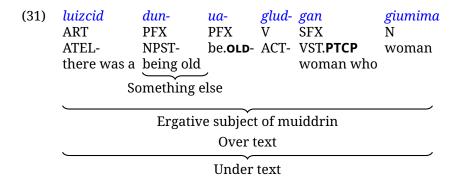
dA V iA Adj

²A footnote.

³A footnote.

⁴A footnote.

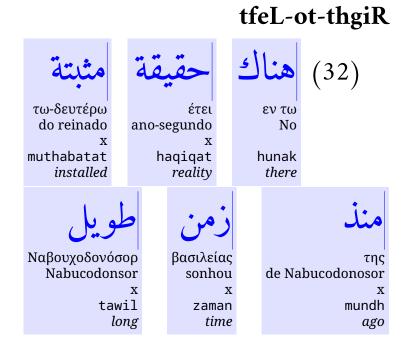
⁷A footnote: Source Reference



Source Reference

Right-to-Left See the example (uses polyglossia).

Even height and depth with a zero width \vrule.





'There is a long-established fact that the readable content of a page will distract the reader from leaving.'

Source Reference

https://tex.stackexchange.com/questions/317589/arabic-rus sian-interlinear-text/317703#317703

Reset line formats with \glresetlineformats.

(33) x y z a b c a b c a b c a b c a b c **Subscripts and Superscripts** with \glsub{} and \glsuper{}.

Single-item Sequence as Input Line

(35) The cat sat on the mat.

The cat sat on the mat!

The cat sat on the mat?

The cat sat on the mat??

Sequence item as Input Line

(36) Many Volcanoes Erupt Mulberry Jam Sandwiches. The cat sat on the mat. The quick brown fox jumps over.

5

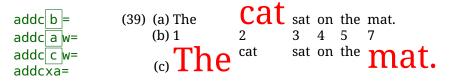
Attaching a command to every word on a line

(37) 1 2 3 4 5 7 1 2 3 4 5 6. pkvcat added manually The cat sat on the mat.

Doing lookups

addca= addcc=	(38)	G1722	G3588	G2	094 G	G3588 G12		98	G3588	G932		*	
		εν	τω	έτει τω		τω	δευτέρω		της	βασιλείας		Ναβουχοδονόσορ	
		in	the	ye	ar t	the secon		nd	of-the	reign		Nebuchadnezzar	
		G1797		*				G1798		G2532	G183	39	
		ενυπνιάσθη		Να	ιβουχα	οδονό	σορ	ενύι	τνιον	και	εξέο	τη	
		dreamed		Nebuchadnezza			ar	a-dr	eam	and	was	-startled	
		G3588	G4151		G1473	G25	32	G3588	G5258	G147	73 (31096	
		το	πνεύμ	α	αυτού	ύ και	l	0	ύπνο	ς αυτ	ού ε	εγένετο	
		the	spirit		his	and	i	the	sleep	his	7	went	
		G575	G1473										
		απ΄	αυτού his										
		from											

Attaching commands to specific words



An inline lookup "Cat" is word 2 in the lookup.

Attaching multiple commands to one word

addcxa= addc a w= addcxb=

- (40) (a) **The** cat sat on the mat. e_i
- (41) The cat sat on the mat. e_i

Highlighting a Wordstack

addwsa=

- (42) The *cat* sat on the mat.
 The *cat* sat on the mat.
 The *cat* sat on the mat.
 The *cat* sat on the mat.
- (43) (a) 我 没 有 问 题
 (b) wǒ méi* yǒu* wèn tí
 (c) I no have ask question

'I don't have questions.'

[Line (b) does a lookup of the xpinyin-database.def. * = first of multiple readings.]

Standalone commands

Note \qlnote{}

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

(44)
Das ist ein deutsches Beispiel.
this is a German example (German)

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

(45)
Das ist einer dieser sehr langen Sätze, die es in this is one of.these very long sentences that it in der a b deutschen Sprache gibt.
the a b German language gives

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

·····

Parallel \qltwoex{}

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

this is a German Beispiel. example

(46) Das ist ein deutsches(47) Das ist einer dieser sehr langen this is one of these very long Sätze. die es in der a b deutschen sentences that it in the a b German Sprache gibt. language gives

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

(48) The quick brown fox jumps (49) The cat sat on DA ADJ1 ADJ2 N V over the lazy dog. PREP DA ADJ1 N

the mat. DA N V PREP DA N

我诸葛 亮 → wǒ zhū gé* liàng 我诸葛 亮 → wǒ zhū (gé,gě) liàng Zhūgé Liàng, ... Zhūgě Liàng, ...

(qí,dàn,chú) (yí,yà,yá) (săn,chěn,càn)

✓3:2:3 Chúyà Càn

✓ 1:1:2 Qíyí Chěn

✓ 2:3:- Dànyá Sǎn

√-:-: Oíyí Săn

√-:-:2 Qíyí Chěn

√-:-: Qíyí Săn

✓1:1:2 Qíyí Chěn

√-:-: Qíyí Săn

√-:-:2 Qíyí Chěn

√-:-: Qíyí Săn

14

~~~~~

```
Meta Commands xxx 
\speech → (b)
```

```
\speech → (()►
  \writing → 🎤
  \mathbb{Q} \mapsto (
  \uprb \mapsto )
  \operatorname{luplq} \mapsto '
  \uprq →'
  \uplqq \mapsto "
\uprqq → "
  \emphe \mapsto e
  \slash suba \mapsto a
  \setminus subi \mapsto i
  \mathbf{x} \mapsto \mathbf{x}
\begin{tabular}{ll} \beg
  \begin{tabular}{ll} \beg
  \llaphash{zzz} ⊢#zzz
  \llapstar{zzz} →*zzz
  \glcmdb{zzz} \mapsto \zzz{}
  \glue{glmeta}{zzz} \mapsto zzz
\begin{tabular}{ll} \beg
\slash \subalpha{zzz} \mapsto \alpha zzz
\protect{zzz} \mapsto \protect{zzz}
\dots
```