

HORNMORPHOA 2.6 Quick Reference

Michael Gasser
Indiana University, School of Informatics and Computing
gasser@indiana.edu
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Installation

- 1. Uncompress the file that you downloaded. This will yield a directory (folder) called HornMorphoA-2.6, which contains all of the files that you need to run HORNMORPHOA.
- 2. Go to the HornMorphoA-2.6 directory (folder), and enter the following, making sure that you are running some version of Python 3.

python setup.py install

Use

STARTING THE PROGRAM

Start up the Python interpreter, again making sure that you are running at least Python 3.0, and type the following to load the program.

import 13

FUNCTIONS

Options for each function are shown with their default values.

```
anal(language, word)
  Options: roman=False, root=True, gram=True, citation=True, raw=False,
  nbest=100 [Amharic only]
  Performs morphological analysis of the word. For ambiguous words returns the first nbest
  analyses. For Amharic only, analyses are ordered by their estimated frequency.
  >>> 13.anal('ti', 'ናብ')
  word: รก
  >>> 13.anal('ti', 'ፕፕሲ')
  ?word: ፔፕሲ
  >>> 13.anal('am', 'የጣያስፈልጋትስ')
  word: የማያስፈልጋትስ
  POS: verb, root: <fl g>, citation: አስፈለገ
   subject: 3, sing, masc
   object: 3, sing, fem
   grammar: imperfective, causative, relative, definite, negative
   conjunctive suffix: s
  >>> 13.anal('om', 'afeeramaniiru')
  word: afeeramaniiru
  POS: verb, root: <afeer>, citation: afeeramuu
   subject: 3, plur
   derivation: passive
   TAM: perfect
  >>> 13.anal('ti', 'ብዘጋፕመና')
  word: ብዘጋፕመና
  POS: verb, root: <gTm>, citation: አጋጠመ
   subject: 3, sing, masc
   object: 1, plur
   grammar: imperfective, reciprocal, transitive, relative
   preposition: bI
  >>> 13.anal('am', 'አይደለችም')
  word: አይደለችም
  POS: copula, root: <ne>
   subj: 3, sing, fem
   negative
  >>> 13.anal('ti', 'ዘየብለይ')
  word: ዘየብለይ
  POS: verb, root: <al e>, citation: አሎ
   subject: 3, sing, masc
   object: 1, sing
   grammar: present, relative, negative
  >>> 13.anal('om', 'dubbanne')
  word: dubbanne
  POS: verb, root: <dubbadh>, citation: dubbachuu
   TAM: past, negative
  POS: verb, root: <dubbadh>, citation: dubbachuu
```

```
subject: 1, plur
   TAM: past
  >>> 13.anal('am', 'lezemedocacnm', roman=True)
  word: lezemedocacnm
  POS: noun, stem: zemed
   possessor: 1, plur
   grammar: plural
   preposition: le, conjunctive suffix: m
  >>> l3.anal('am', 'ቢያስጨንቁአቸው', root=False, gram=False)
  word: ቢያስጨንቁአቸው
  POS: verb, citation: አስጨነቀ
  >>> 13.anal('am', 'ለዘመዶቻችንም', raw=True)
  [('zemed', [-acc, cnj='m', der=[-ass], -dis, +plr, pos='n',
  poss=[+expl, +p1, -p2, +plr], pp='le', rl=[-acc, +p], v=None])]
  >>> 13.anal('am', 'ይመጣሉ')
  word: ይመጣሉ
  POS: verb, root: <mT'>, citation: ☞ጣ
   subject: 3, plur
   grammar: imperfective, aux:alle
  POS: verb, root: <mTT>, citation: ~mmm
   subject: 3, plur
   grammar: imperfective, aux:alle
  POS: verb, root: <mT'>, citation: ተመጣ
   subject: 3, plur
   grammar: imperfective, aux:alle, passive
  >>> l3.anal('am', 'ይመጣሉ', nbest=1)
  word: ይመጣሉ
  POS: verb, root: <mT'>, citation: and
   subject: 3, plur
   grammar: imperfective, aux:alle
anal_file(language, input_file, output_file)
  Options: root=True, gram=True, citation=True, raw=False
  Runs anal on the words in a file.
  >>> 13.anal file('am', '13/languages/am/data/ag.txt',
      '13/languages/am/data/ag out.txt')
  Analyzing words in 13/languages/am/data/ag.txt
  Writing to 13/languages/am/data/ag_out.txt
seg(language, word) [Amharic and Oromo verbs and Oromo nouns only]
  Options: none
  Performs morphological segmentation on the word. Morphemes are separated by '-'; stems/roots
  appear within '{}'.
  >>> 13.seg('am', 'ሲያሞበረብሩን')
  ሲያሞበረብሩን: s(cnj1)-y(sb=3sm|3p)-{Cbrbr+a12e3e4 5}(imprf,trans)-u(sb=2p|3p)-
  n(ob=1p)
```

```
seg file(language, input file, output file)
  Options: none
  Runs seg on the words in a file and writes them to another file.
  >>> 13.seg_file('am', '13/languages/am/data/ag.txt',
       '13/languages/am/data/ag out.txt')
  Segmenting words in 13/languages/am/data/ag.txt
  Writing to 13/languages/am/data/ag_out.txt
phon(language, word) [Amharic only]
  Options: gram=True
  Converts an Amharic word written in Ge'ez characters to a romanized form that shows conso-
  nant gemination and the epenthetic vowel (represented by 'I'). If multiple pronunciations are
  possible, they are ordered by estimated frequency.
  >>> 13.phon('am', "ይመታሉ")
  yImetal u (132) yIm et al u (61)
  >>> 13.phon('am', "ይመታሉ", gram=True)
  -- yImetal u
  POS: verb, root: <mt'>
   subject: 3, plur
   grammar: imperfective, aux:alle
  -- yIm et al u
  POS: verb, root: <mt'>
   subject: 3, plur
   grammar: imperfective, aux:alle, passive
  >>> 13.phon('am', 'እንድብር')
  ?IndIbIr (0)
phon_file(language, input_file, output_file) [Amharic only]
  Options: gram=True, print ortho=False, word sep='\n', anal sep=' '
  Runs phon on the words in a file.
  >>> 13.phon file('am', '13/languages/am/data/ag.txt',
       '13/languages/am/data/ag phon.txt')
  Analyzing words in 13/languages/am/data/ag.txt
  Writing analysis to 13/languages/am/data/ag_phon.txt
  >>> 13.phon_file('am', '13/languages/am/data/ag.txt',
       print ortho=False, word sep=':')
  Analyzing words in 13/languages/am/data/ag.txt
  yIh:meShaf:yezarE:
  01:amet:gedema:bedenbu:mIrmera:alfo:tat_Imo:beweT_a:gizE:tal_aq_
  tal aq:cIg Ir:feTrob IN :neb er:.
exit()
  Options: none
  Exits HornMorpho, saving any analyses or generated forms in a file to be loaded next time you
  use the program. This will significantly speed up the performance of the program.
  >>> 13.exit()
```