PARAMORFO1.1 QUICK REFERENCE

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June 17, 2014

Installation

1. Uncompress the file that you downloaded. This will yield a directory (folder) called ParaMorfo-1.1, which contains all of the files that you need to run PARAMORFO.

2. Go to the ParaMorfo-1.1 directory (folder), and enter the following, making sure that you are running Python 3.0, 3.1, 3.2, 3,3, or 3.4.

```
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 l3
```

FUNCTIONS

Options for each function are shown with their default values.

anal(*language*, *word*)

Options: raw=False

Performs morphological analysis of the word. With `raw=False`, prints out a verbose description of the analysis and returns nothing. With `raw=True`, returns a list of analyses, each a root, grammatical analysis pair.

```
>>> l3.anal('es', 'canciones')
palabra: canciones
raíz = <canción>
  pos = n
```

```
    número = plural


>>> l3.anal('es', 'cantaste')
palabra: cantaste
raíz = <cantar>
  tiempo/aspecto/modo = pretérito
  pos = v
  sujeto = 2 persona singular


>>> l3.anal('gn', 'hogakuéra')
ñe'ẽ: hogakuéra
ñe'ẽrapo = <<hóga>
  pos = n
  +plural
  posesivo = int


>>> l3.anal('gn', "nanemandu'áipa")
ñe'ẽ: nanemandu'áipa
ñe'ẽrapo = <mandu'a>
  modo = indicativo
  voz = simple
  +interrogativo
  sujeto = 2 persona singular
  pos = v
  aspecto temporal = -continuativo, -anterior, -remoto
  +negativo
  aspecto = -dubitativo


>>> l3.anal('gn', "nanemandu'áipa", raw=True)
[("mandu'a", [asp=[-dubit],caso=None,cat='che',+inter,mod='ind',+neg,
+neg1,-nte1,-nte2,oj=[-1,-2],pos='v',-rel,-rztrans,sj=[-1,+2,-
p],tasp=[-ant,-cont,-rem],-trans,voz='smp'], 100)]
```

anal_file(*language*, *input_file, output_file*)

<u>Options</u>: raw=False

Runs `anal` on the words in a file.

```
>>> l3.anal_file('es', 'l3/languages/es/data/es.txt',
    'l3/languages/es/data/es_out.txt')
Analyzing words in l3/languages/es/data/es.txt
Writing to l3/languages/es/data/es_out.txt
```

gen(*language*, *root/stem, [grammatical_features]*)

<u>Options</u>: None

Generates the surface form of a word given a root or stem and optional grammatical features. With no features specified, a default form is output. Features must be a string with a bracketed list of feature-value pairs separated by `'='`.

```
>>> l3.gen('es', 'cantar')
canta


>>> l3.gen('es', 'cantar', '[sj=[-2,-p],tam=[+ipf]]')
cantaba


>>> l3.gen('gn', 'guata')
oguata


>>> l3.gen('gn', 'guata', '[sj=[+1,+2,+p],+neg]')
ndajaguatái
```