

NAME

anagrams.py – finds all words and word-combinations in a given language that form an anagram of the (combination of) word(s) given as argument(s).

SYNOPSIS

anagrams.py [*options*] [*word*₀ [...*word*_n]]

DESCRIPTION

anagrams.py is a Python3 program that finds all words and *word-combinations* in a given language that form an anagram of the (combination of) word(s) – whether or not existing(!) – given as argument(s).

Following options can be set:

- language: only one at the time, default language is Dutch;
- minimum length of words in matching combination;
- maximum number of words in matching combination;
- characters to be excluded from match (in order to avoid dots, apostrophs etc.);
- a (quoted sequence of) word(s) that must be part of the matching combination (whether or not existing, length nor characters restricted);

or to have the program:

- permute the word order of all matching word combinations (default only 1 word order);
- instead of returning the anagrams, provide all the single ‘subset-words’.

The results are sent to standard output and can be piped to e.g. ‘less’ or other utilities and applications.

Perequisite is presence on the system of a word list in flat text format of at least one language.

In its present form, the program code references following language word lists:

- */usr/share/dict/dutch*
- */usr/share/dict/american-english*
- */usr/share/dict/british-english*
- */usr/share/hunspell/de_DE_frami.dic*
- */usr/share/dict/french*
- */usr/share/dict/spanish*
- */usr/share/dict/italian*

If wished and as per system configuration, above paths and language default may be changed or removed and references to other word lists may be added, by modifying the program code accordingly.

OPTIONS

anagrams.py takes the following options:

- a** Use American-English language dictionary.
- b** British-English language dictionary.
- d** Use Dutch language dictionary.
- f** Use French language dictionary.
- g** Use German language dictionary.
- h** Help (this output).
- i** Use Italian language dictionary.
- s** Use Spanish language dictionary.

-l *MINLENGTH*

Print anagram results with words of at least *MINLENGTH* only, being a positive integer representing the number of alphanumeric characters. If this option is not used, the minimum word length is 2.

-q *MAXQTY*

Print anagram results with maximally *MAXQTY* words only, being a positive integer.

-x *CHARS*

Exclude words with any of these *CHARS*.

-I *INCLWRDS*

Print anagram results including *INCLWRDS* only. This option overrides option **-S**. *INCLWRDS* is *not* restricted by options **-l** and **-x**. If *INCL WRDS* consists of more two or more words, these shall be enclosed by double quotes.

-P Permute word order per anagram if it contains 2 or more words.**-S** Instead of anagrams, print all character subset words, of which all characters are in the given arguments word(s) as well. This option is overridden by option **-I**.

Only one of the language options can be used at the same time. If no language option is given, Dutch is the default language. All other options can be combined, unless otherwise stated.

For example, the command:

```
./anagrams.py -a -l5 word combination
```

gives following result:

```
Acton Brown idiom
Acton brown idiom
canto Brown idiom
canto brown idiom
Brown Macon idiot
brown Macon idiot
Robin contd miaow
robin contd miaow
Rodin Twain combo
Rodin twain combo
baton crown idiom
```

COMPATIBILITY

Python3

BUGS

No known bugs.

AUTHOR

Written by Rob Toscani (rob_toscani@yahoo.com)

REPORTING BUGS

Please report any bugs to the author by e-mail or via <https://github.com/jazzfan2/text2troff/issues>