

**NAME**

anagrams.py – generates all single- and multi-word anagrams for the (combination of) word(s) given as argument(s).

**SYNOPSIS**

anagrams.py [*options*] [*word*<sub>1</sub> [ ... *word*<sub>*n*</sub>]]

**DESCRIPTION**

anagrams.py is a Python3 program that generates all words and *word-combinations* in a given language that form an anagram of the – existing or non-existing – word argument(s) *word*<sub>1</sub> [ ... *word*<sub>*n*</sub>]. The program acts case-insensitive. Accented characters are treated as equivalent to non-accented characters. Interpunction symbols such as dots, apostrophs and hyphens do not need to match in order to be part of an anagram.

anagrams.py offers the possibility to set various properties to manipulate and filter the results, such as:

- the language in which the anagrams are to be generated (default is Dutch);
- the minimum length of words in the generated anagrams;
- the maximum number of words per anagram;
- any characters to be excluded from the anagrams, both alphanumeric characters, accent marks and interpunction symbols;
- any existing or non-existing (sequence of) word(s) that must be part of the anagram;

In addition, the program can optionally be made to:

- permute the word order of all generated multi-word anagrams (default is only one word order);
- instead of returning anagrams, generate all the single ‘subset-words’, that have all their alphanumeric characters in common with the argument word(s).

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*

**OPTIONS**

anagrams.py takes the following options:

- a**      Use American-English language dictionary.
- b**      Use 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.

**-I 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 two (2). This option does however not restrict any of the words given with option **-I**.

**-q MAXQTY**

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

**-x CHARS**

Exclude words with any of these *CHARS*. This option does take character case, accent marks and interpunction literally, however doesn't restrict any of the words given with option **-I**.

**-I INCLWRDS**

Print anagram results including *INCLWRDS* only, being a (combination of) word(s), either existing or non-existing. This option does take character case, accent marks and interpunction literally, and overrides option **-S**. *INCLWRDS* is *not* restricted by options **-I** and **-x**. If *INCL WRDS* consists of two (2) or more words, the combination shall be enclosed by double quotes.

**-P** Permute word order per anagram if it contains two (2) or more words.

**-S** Instead of anagrams, print all single 'subset' words, that have all their alphanumeric characters in common with the given arguments word(s), with or without accent and/or interpunction marks. 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 should be installed. In order to be able to use (a) certain language option(s), the associated language file(s) as specified above should be installed on the system.

**BUGS**

No known bugs.

**AUTHOR**

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**REPORTING BUGS**

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