

Pig Latin

Write a Python program named `piggie.py` that takes one or more file names as positional arguments and converts all the words in them into “Pig Latin” (see rules below). Write the output to a directory given with the flags `-o|--outdir` (default `out-yay`) using the same basename as the input file, e.g., `input/foo.txt` would be written to `out-yay/foo.txt`.

if a file argument names a non-existent file, print a warning to `STDERR` and skip that file. If the output directory does not exist, create it.

Pig Latin Rules

1. If the word begins with consonants, e.g., “k” or “ch”, move them to the end of the word and append “ay” so that “mouse” becomes “ouse-may” and “chair” becomes “air-chay.”
2. If the word begins with a vowel, simple append “-yay” to the end, so “apple” is “apple-yay.”

Expected Output

```
$ ./piggie.py
usage: piggie.py [-h] [-o str] FILE [FILE ...]
piggie.py: error: the following arguments are required: FILE
$ ./piggie.py -h
usage: piggie.py [-h] [-o str] FILE [FILE ...]

Convert to Pig Latin

positional arguments:
  FILE                Input file(s)

optional arguments:
  -h, --help            show this help message and exit
  -o str, --outdir str  Output directory (default: out-yay)
$ ./piggie.py inputs/nobody.txt -o out
1: nobody.txt
Done, wrote 1 file to "out".
$ cat out/nobody.txt
I'm-yay obody-Nay o-Whay are-yay ou-yay
Are-yay ou-yay -yay obody-Nay -yay oo-tay
en-Thai eres-thay a-yay air-pay of-yay us-yay
ont-Day ell-tay eyd-thay advertise-yay -yay ou-yay ow-knay
```

```

ow-Hay eary-dray -yay o-tay e-bay -yay omebody-Say
ow-Hay ublic-pay -yay ike-lay a-yay og-Fray -yay
o-Tay ell-tay one's-yay ame-nay -yay e-thay ivelong-lay une-Jay -yay
o-Tay an-yay admiring-yay og-Bay
$ ./piggie.py inputs/*.txt
  1: gettysburg.txt
  2: nobody.txt
  3: usdeclar.txt
Done, wrote 3 files to "out-yay".

```

Test Suite

A passing test suite look like this:

```

$ make test
pytest -v test.py
===== test session starts =====
platform darwin -- Python 3.6.8, pytest-4.2.0, py-1.7.0, pluggy-0.8.1 -- /anaconda3/bin/python
cachedir: .pytest_cache
rootdir: /Users/kyclark/work/worked_examples/2019_spring_finals/grad/piggie, inifile:
plugins: remotedata-0.3.1, openfiles-0.3.2, doctestplus-0.2.0, arraydiff-0.3
collected 6 items

test.py::test_usage PASSED [ 16%]
test.py::test_bad_input PASSED [ 33%]
test.py::test_nobody PASSED [ 50%]
test.py::test_gettysbury PASSED [ 66%]
test.py::test_decl PASSED [ 83%]
test.py::test_all PASSED [100%]

===== 6 passed in 0.48 seconds =====

```