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#!/usr/bin/env python
# -*- coding: utf-8 -*-
"""
Parses CSV file from [http://mydatamaster.com/wp-content/files/streetsuffix.zip]
Provides a `SuffixTable` class to convert suffix strings, lower-cased, into the
full suffix.
"""
import csv
from collections import defaultdict
from pprint import pprint

CSVFILE = 'data/suffixes.csv'
ADDONS = {
   'expwy': 'expressway',
   'texas': 'texas',
   'i': 'interstate',
   'h': 'highway',
   'ih': 'interstate highway',
   'n': 'north',
   's': 'south',
   'e': 'east',
   'w': 'west',
   'ih35': 'interstate highway 35',
   'i35': 'interstate highway 35',
   'cr': 'county road',
   'fm': 'farm to market',
   'avene': 'avenue',
   'jr': 'junior'
}

def parse_suffixes_csv(filename):
   """ parses the CSV file and returns a one-to-many dictionary """
   suffixes = defaultdict(set)
   with open(filename, 'rb') as csvfile:
      csvfile.next()
      reader = csv.reader(csvfile, delimiter=',')
      for row in reader:
         suffix = row[0].lower().strip()
         aliases = [alias.lower() for alias in row[1:]]
         suffixes[suffix].update(aliases)
   for key in suffixes:
      suffixes[key] = list(suffixes[key])
   return dict(suffixes)

class SuffixTable(object):
   """ main class module, provides `has_suffix` and `convert` methods """
   def __init__(self):
      suffixes_dict = parse_suffixes_csv(CSVFILE)
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        self.suffixes = suffixes_dict.keys()
        self.suffix_table = {}
        for key in suffixes_dict:
            for abbreviation in suffixes_dict[key]:
                self.suffix_table[abbreviation] = key
        self.suffix_table = dict(self.suffix_table.items() + ADDONS.items())

    def has_suffix(self, suffix):
        """ returns if the suffix is present in the table """
        return suffix.lower() in self.suffix_table

    def convert(self, suffix):
        """ converts a suffix string into the full suffix """
        return self.suffix_table[suffix]

    def __str__(self):
        return pprint(self.suffix_table)

if __name__ == '__main__':
    st = SuffixTable()
    pprint(st.suffix_table)
```