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word_cloud.py
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       #jmport nltk
#inltk.download("book")
from nltk.book import *
import os
from os import path
from wordcloud import WordCloud, STOPWORDS
       def check_word(string):
    alp = "abcdefghijklmnopqrstuvwxyz".upper()
              if len(string) < 2:</pre>
             for i in alp:
                   if i in string:
        def list2string(word_list):
             text =
              for i in word_list:
                   text += (i[0]+"#")*i[1]
             #print(text)
return text
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       def string2wordcloud(text, num):
    wordcloud = WordCloud(max_words=30, max_font_size=70, scale=10, margin=5, stopwords=['#', '#']).generate(text)
             wordcloud.to_file("./pic/wordcloud_text" + str(num) + ".png")
             # image = wordcloud.to_image()
# image.show()
             text2write = "No.\tWord\t\tFrequency\n\n"
             for i in range(len(text)):
    text2write += ("%02d" % (i+1))+"\t"+text[i][0]+"\t\t"+str(text[i][1])+"\n"
f = open(("./word_freq/word_freq_text"+str(num)+".txt"), "w+")
             f.write(text2write)
             f.close()
       def doWordCloud(words_from_book, num):
    words_fd = FreqDist(words_from_book)
             words = {}
for i in words_fd:
    #print(i, words
                  tmp = i.upper()
                   if check_word(tmp):
                        if tmp in words:
                             words[tmp] += words_fd[i]
             words[tmp] = words_fd[i]
text = sorted(sorted(words.items()), key=Lambda x:x[1]*-1)[:30]
             text2 = list2string(text)
             string2wordcloud(text2, num)
             writeFreq2File(text, num)
       def main():
             #generate text books's name
for i in range(1, 10):
                   doWordCloud(eval('text'+str(i)), i)
       main()
```