

Lesson 3 大作业

作业内容

统计英语6级试题中所有单词的词频，并返回一个如下样式的字典

```
{'and':100,'abandon':5}
```

英语6级试题的文件路径 `./artical.txt`

Tip: 读取文件的方法

```
def get_artical(artical_path):
    with open(artical_path) as fr:
        data = fr.read()
    return data

get_artical('./artical.txt')
```

处理要求

- (a) '\n'是换行符 需要删除
- (b) 标点符号需要处理

```
[',', '.', '!', '?', ';', '\\', '\\', '/', '-', '(', ')']
```

- (c) 阿拉伯数字需要处理

```
['1', '2', '3', '4', '5', '6', '7', '8', '9', '0']
```

- (d) 注意大小写 一些单词由于在句首，首字母大写了。需要把所有的单词转成小写

```
'String'.lower()
```

- (e) 高分项

通过自己查找资料学习正则表达式，并在代码中使用(re模块)

可参考资料：<https://docs.python.org/3.7/library/re.html>

```
# 请根据处理要求下面区域完成代码的编写。
#def get_artical(artical_path):
#    with open(artical_path) as fr:
#        data = fr.read()
#    return data

# get_artical()为自定义函数，可用于读取指定位置的试题内容。
# get_artical('./artical.txt')

import re #正则表达式包
text=''
with open('./artical.txt') as f: #打开后的操作
    for word in f:
        text=text+word
text.lower() #全部小写
for i in [',', '.', '!', '?', ';', '\\', '\\', '/', '-', '(', ')', '1', '2', '3', '4', '5', '6', '7', '8', '9', '0']:
    text=text.replace(i, ' ') #替换成空格，要记得赋值回去
words=text.split() #空格分隔
count={}
for word in words:
```

```
result=re.findall(word,text) #列出所有的word
```

```
count[word]=len(result)
```

```
count
```

```
{'Passage': 4,
 'One': 4,
 'Questions': 4,
 'to': 108,
 'are': 47,
 'based': 5,
 'on': 175,
 'the': 229,
 'following': 4,
 'passage': 7,
 'Last': 1,
 'year': 2,
 'a': 1109,
 'child': 9,
 'was': 10,
 'born': 2,
 'at': 189,
 'hospital': 1,
 'in': 354,
 'UK': 1,
 'with': 21,
 'her': 35,
 'heart': 1,
 'outside': 2,
 'body': 3,
 'Few': 1,
 'babies': 1,
 'survive': 1,
 'this': 7,
 'rare': 1,
 'condition': 1,
 'and': 84,
 'those': 6,
 'who': 5,
 'do': 30,
 'must': 1,
 'endure': 1,
 'numerous': 1,
 'operations': 3,
 'likely': 2,
 'have': 14,
 'complex': 1,
 'needs': 1,
 'When': 1,
 'mother': 1,
 'interviewed': 1,
 'three': 1,
 'weeks': 1,
 'after': 1,
 'daughter': 1,
 's': 913,
 'birth': 1,
 'she': 7,
 'asked': 2,
 'if': 17,
 'prepared': 1,
 'for': 30,
```

'what': 8,
'might': 1,
'be': 74,
'daunting': 1,
'task': 1,
'caring': 1,
'She': 1,
'answered': 1,
'without': 2,
'hesitation': 1,
'that': 24,
'as': 85,
'far': 1,
'concerned': 1,
'would': 3,
'privilege': 3,
'Rarely': 1,
'has': 5,
'there': 6,
'been': 4,
'better': 4,
'example': 2,
'of': 85,
'power': 4,
'attitude': 14,
'one': 10,
'our': 23,
'most': 5,
'powerful': 2,
'psychological': 3,
'tools': 1,
'Our': 2,
'attitudes': 8,
'allow': 1,
'us': 39,
'turn': 3,
'mistakes': 1,
'into': 3,
'opportunities': 3,
'loss': 1,
'chance': 3,
'new': 10,
'beginnings': 1,
'An': 41,
'is': 119,
'settled': 1,
'way': 11,
'thinking': 1,
'feeling': 3,
'or': 98,
'behaving': 3,
'towards': 2,
'particular': 2,
'objects': 1,
'people': 5,
'events': 1,
'ideologies': 2,
'We': 5,
'use': 6,
'filter': 1,
'interpret': 1,
'react': 1,

'world': 6,
'around': 9,
'You': 1,
'weren': 1,
't': 1289,
'rather': 2,
'they': 11,
'all': 20,
'learned': 1,
'happens': 2,
'number': 1,
'ways': 4,
'The': 40,
'influences': 1,
'occur': 1,
'during': 2,
'early': 1,
'childhood': 1,
'include': 1,
'both': 2,
'happened': 1,
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'did': 2,
'said': 6,
'your': 8,
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'As': 3,
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'refined': 1,
'by': 7,
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'gender': 2,
'culture': 2,
'admire': 1,
'even': 3,
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'may': 10,
'not': 15,
'know': 2,
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'other': 6,
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'will': 13,
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'similar': 1,
'beliefs': 2,
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'why': 3,
'say': 6,
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'exercise': 1,
'but': 8,
'behave': 2,
'line': 4,
'their': 24,
'views': 1,
'because': 3,
'it': 97,
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'courage': 2,
'go': 11,
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'stating': 2,
'good': 3,
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'an': 207,
'start': 3,
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'Is': 1,
'anything': 1,
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'than': 3,
'It': 13,
'so': 33,
'right': 3,
'now': 3,
'latter': 1,
'case': 2,
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```

请点击[此处](#)查看本环境基本用法.

Please click [here](#) for more detailed instructions.