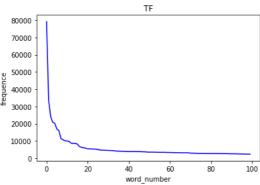
```
pip install jieba
      Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/public/simple/</a> Requirement already satisfied: jieba in /usr/local/lib/python3.9/dist-packages (0.42.1)
pip install ArticutAPI
import jieba
content=""
with open('hwl.txt','r') as f:
     for line in f:
         content+=line.replace("\t","").replace(" ","").replace("\n","")
with open("stop.txt",'r',encoding='utf8') as f:
    stops=f.read()
terms =[t for t in jieba.cut(content,cut_all=False) if t not in stops ]
def get_TF(words, topk=100):
     tf_dic={}
     for word in words:
        tf_dic[word]=tf_dic.get(word,0)+1
    return sorted(tf_dic.items(),key=lambda x :x[1],reverse=True)[:topk]
import jieba.analyse as analyse
top100=get_TF(terms)
\label{eq:topk-interpolation} TF\_IDF=jieba.\ analyse.\ extract\_tags\ (content,\quad topK=100,\quad with \texttt{Weight=True})
import matplotlib.pyplot as plt
import pandas as pd
count=[]
plt.xlabel('word_number')
plt.ylabel('frequence',)
plt.title('TF')
for i in range(100):
    count.append(top100[i][1])
plt.plot(range(100), count, color='b')
plt.show()
                                          TF
```



```
fre=[]
plt.xlabel('word_number')
plt.ylabel('weight',)
plt.title('TF_IDF')
for i in range(100):
    fre.append(TF_IDF[i][1])
plt.plot(range(100), fre, color='b')
plt.show()
```

```
TF_IDF
        0.200
        0.175
         0.150
cloud=[]
for i in terms:
    cloud.append(i)
cloud_fre=Counter(terms)
# for i in cloud_fre:
      print(i)
        0.000
pip install wordcloud
from \quad wordcloud \quad import \quad WordCloud, \quad STOPWORDS
from collections import Counter
wc = WordCloud(font_path='SimHei.ttf', max_words=32)
wc.generate_from_frequencies(cloud_fre)
plt.figure(figsize=(15,15))
plt.imshow(wc)
plt.axis("off")
plt.show()
```



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