简易的文本编辑器

庄嘉恒











- 设计方案 ¬
- **)** 关键语法
- 8 运行效果
- 创新之处

功能简介

- (1) 导入英文文章
- (2) 将内容拆解为单词, 删去周围空白字符和标点, 转换为小写
- (3) 统计文章中出现全部英文单词的总 数量
 - (4)统计文章中每个英文单词的词频
- (5) 采用停用词表,绘制词频最高六个 单词的柱状图
 - (6) 将上述功能包装为GUI界面
 - (7) 查找替换功能
 - (8) 清空文本的删除功能
 - (9) 高亮显示用户指定文本
 - (10) 添加菜单栏
 - (11) 增加对话框和消息框
 - (12) 插入超链接

- (13) 高亮指定的单词
- (14) 生成词云图
- (15) 保存当前文本
- (16) 撤销和恢复操作
- (17) 统计操作时间功能
- (18) 文件导出功能
- (19) 将文件打包为小程序

#1-6为基础要求, 7-12为可选项, 13-19为补充项

```
len() split() lower()
replace() strip ()
get() dic[key]=value
items()
列表
len() sort()
txt=open(fd,"r").read()
time库
start=time.perf counter()
end=time.perf counter()
```

柱状图

bar(x,y,**kw)

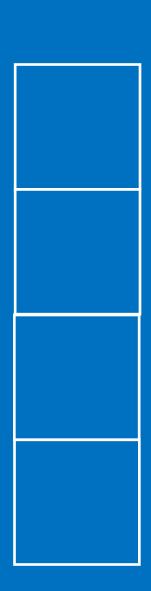
云图

wordcloud.WordCloud(font_path, max_words,width,background_color) w.generate(text) w.to_file()

re库

re.finditer(pattern,string,flags=0)
re.sub(pattern,repl,string,count=0)
match.start()
match.end()
match.group()

Text函数 textbox.insert() textbox.get() textbox.delete() textbox.tag add(tagname,ind1,ind2) textbox.tag config(tagname, **kw) textbox.tag bind(tagname, sequence, func,add=None) textbox.edit separator() textbox.edit undo() textbox.edit redo() 对话框函数 tkinter.simpledialog.askstring() tkinter.messagebox.showinfo() tkinter.filedialog.asksaveasfilename() tkinter.filedialog.askopenasfilename(



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页面设计篇

关键语法

词频统计篇

查找标记篇

创建窗口,标签,按钮

```
cipin=tk.Tk()
cipin.title("词频统计结果")
cipin.geometry("400x300")
textbox1 = tk.Text(cipin)
textbox1.place(x=0,y=0,width=400,height=300)
```

```
labelNum2=tk.Label(top,
text="词数统计: "+str(rlt),
justify=tk.RIGHT,
width=80)
```

labelNum2.place(x=10,y=575,width=125,height=20)

drawBtn=tk.Button(top,

text="绘制图形",

command=lambda:draw(text,stopwords))

drawBtn.place(x=230,y=10,width=60,height=30)

创建菜单

```
#filemenu2 创建主菜单和子菜单
```

```
c2
[strlong,wordlong,lambda:frequency(text),lambda:draw(text,stopwords),lambda:
drawcloud(text)]
i = 0
filemenu2 = tk.Menu(menubar,tearoff = 0)
for item in ['字符统计','词数统计','词频统计','绘柱状图','绘制云图']:
    filemenu2.add command(label = item, command = c2[i])
    filemenu2.add separator() #加分割线
    i = i + 1
#指定主菜单和子子菜单的级联关系
#将 menubar 的 menu 属性指定为 filemenu,即 filemenu 为 menubar 的下拉菜单
menubar.add_cascade(label = '文件编辑',menu = filemenu1)
menubar.add cascade(label = '统计功能',menu = filemenu2)
top['menu'] = menubar
```

创建文本框, 滚动条

```
top=tk.Tk() #Toplevel
top.geometry("625x600")
top.resizable(False,False) #可以用 pack()布局滚动条的基础
top.title("简易的文本编辑器")
#创建文本框
textbox = tk.Text(top,undo=True,maxundo=20) #最大撤销次数
textbox.place(x=5,y=50,width=600,height=500)
```

```
ybar=tk.Scrollbar(top,orient=tk.VERTICAL)
ybar.config(command=textbox.yview)
textbox.config(yscrollcommand=ybar.set)
ybar.pack(side=tk.RIGHT,fill=tk.Y) #滚动条至于窗口右端,填
```

撤销恢复操作

```
textbox = tk.Text(top,undo=True,maxundo=20) #最大撤销次数
textbox.place(x=5,y=50,width=600,height=500)
#插入一个分隔符到存放操作记录的栈中,用于表示已经完成一次
textbox.edit_separator()
```

```
def key_callback(event): #定义键盘回调函数,绑定键盘操作
    textbox.edit_separator()#插入一个分隔符到存放到操作记录的
    示完成一次完整操作(每次撤销一个操作)

def undo_callback(): #撤回
    textbox.edit_undo()

def redo_callback(): #恢复
    textbox.edit_redo()
```

超链接操作

```
def click126(event):
    webbrowser.open("http://mail.126.com/")
def link126():
    textbox.insert("1.0","我使用 126 邮件服务器\n")
    textbox.tag add("link126","1.3","1.6")
    textbox.tag config("link126",foreground="blue",underline=True)
#定义鼠标移入移除事件的回调函数
def show hand cursor(event):
    textbox.config(cursor="arrow")
def show arrow cursor(event):
    textbox.config(cursor="xterm")
#链接效果163
textbox.tag bind("link163","<Enter>",show hand cursor)
textbox.tag bind("link163","<Button-1>",click163)
textbox.tag_bind("link163","<Leave>",show_arrow cursor)
```

创建消息框,对话框

tkinter.messagebox.showinfo("Hint", "Successfully generated!")

关键语法

```
fd=tkinter.filedialog.askopenfilename()

try:

txt=open(fd,"r").read()

except UnicodeDecodeError: #使其适用于不同编码类型的文本

txt=open(fd,"r",encoding="utf-8").read()
```

old = tkinter.simpledialog.askstring('Hint','Please enter the old word')

页面设计篇

关键语法

词频统计篇

查找标记篇

```
def getText(txt):
              #文本初步处理函数
   txt=txt.lower()
   for ch in '!"#$%()*+,-./:;<=>?@[\\]^_`{|}~\' - ' "" 0123456789':
       txt=txt.replace(ch,"")
    return txt
def frequency(text): #词频统计函数
    words=text.split()
    counts={}
    for word in words:
       counts[word]=counts.get(word,0)+1#如果这个单词在字典中
词的键对应的值加一,如果不在,则将这个单词的值初始化为1
    items=list(counts.items())
items.sort(key=lambda x:x[1],reverse=True)#按照值的大小倒序(从大)
    for i in range(len(items)):
        word,count=items[i]
        print("{0:<15}{1:>5}".format(word,count))
```

绘制词云

```
def drawcloud(text):

w=wordcloud.WordCloud(font_path="msyh.ttc",

max_words=20,

width=1000,height=700,
```

#生成词云的函数,可以设置的参数有背景色,宽度高度,最大次数 形的形状等

background_color="white")

w.generate(text)

w.to_file("wordcloud.jpg")

tkinter.messagebox.showinfo("Hint", "Successfully generated!")

页面设计篇

关键语法

词频统计篇

查找标记篇

```
标记单词
```

```
def wordlight(pos,speword,specolor):
    op='+'+str(len(speword))+'c'
    textbox.tag_add("highlight",pos,pos+op)
    textbox.tag config("highlight",background=specolor,foreground="black")
def searchword():
    start="1.0"
    speword = tkinter.simpledialog.askstring('Hint','Please enter the word')
    specolor = tkinter.simpledialog.askstring('Hint','Please enter the color')
    while True:
         pos=textbox.search(speword,start,stopindex=tk.END)
         if not pos: #返回起始位
             break
         #print("位置是:",getindex(textbox,pos))
         wordlight(pos, speword, specolor)
         start=pos+'+1c'
```

替换单词

```
def change(text):
    text=" "+text[:-1]+" "
    old = tkinter.simpledialog.askstring('Hint','Please enter the old
    new = tkinter.simpledialog.askstring('Hint', 'Please enter the new
    #text=re.sub("[\s]*"+old+"[^a-z]"," "+new+" ",text,re.I)
    old=" "+old+" ";new=" "+new+" "
    text=text.replace(old,new)#通过补空格的方式整体替换,最后
    text=text.strip()
    textbox.delete(1.0,tk.END)
    textbox.insert(tk.INSERT,text)
```

查找单词

```
def searchword0():
    speword = tkinter.simpledialog.askstring('Hint','Please enter i
    it=re.finditer("[\s]*"+speword+"[^a-z]",text,re.I)

for match in it: #得到迭代器里的东西需要循环
    i+=1
    a=match.start() #对 match 对象进行操作,获取 match 对象
b=match.end()
```

re.finditer("[\s]*"+speword+"[^a-z]",text,re.l)





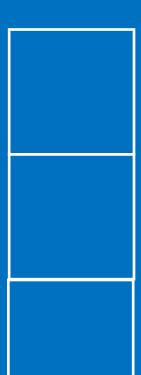
关键语法 -

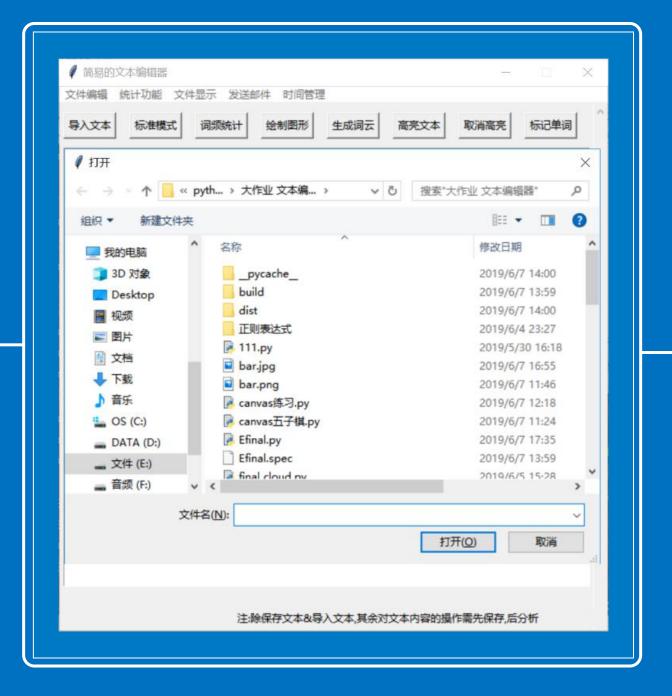


② 运行效果



创新之处





∅ 简易的文本编辑器

文件编辑 统计功能 文件显示 发送邮件 时间管理

导入文本 标准模式 词频统计 绘制图形 生成词云 高亮

The history of life on earth has been a history of interaction between living things and their surroundings. To a large extent, the physical form and the habits of the earth's vegetation and its animal life have been molded by the environment. Considering the whole span of earthly time, the opposite effect, in which life actually modifies its surroundings, has been relatively slight. Only in the present century has one species man acquired significant power to alter the nature of his world.

X

During the past quarter century this power has not only become increasingly great but it has changed in character. The most alarming of all man's assaults upon the environment is the contamination of air, earth, rivers, and sea with dangerous and even let hal materials. This pollution is for the most part irrecoverable. In this now univers al contamination of the environment, chemicals are the sinister partners of radiation in changing the very nature of the world the very nature of its life. Chemicals spray ed on croplands or forests or gardens lie long in soil, entering into living organisms, passing from one to another in a chain of poisoning and death. Or they pass myster iously by underground streams until they emerge and combine into new forms that kill vegetation, sicken cattle, and work unknown harm on those who drink from once pure we las. "Man can hardly even recognize the devils of his own creation," as a scientist has said.

It took hundreds of millions of years to produce the life that now inhabits the earth . Given time not in years but in millennia life adjusts, and a balance has been reach ed. But in the modern world there is no time.

The rapidity of change follows the impetuous pace of man rather than the deliberate pace of nature. Radiation is now the unnatural creation of man's tampering with the atom. The chemicals are the synthetic5 creations of man's inventive mind, having no counterparts in nature.

To adjust to these chemicals would require not merely the years of a man's life but the life of generations. And even this, were it by some miracle possible, would be fu tile, for the new chemicals come from our laboratories in an endless stream; almost f ive hundred annually find their way into actual use in the United States alone. Among them are many that are used in man's war against nature. Since the mid 1940's over 200 basic chemicals have been created for use in killing insects, weeds, and other or ganisms described as "pests."

It is not my contention that chemical insecticides must never be used. I do contend that we have put poisonous and biologically potent chemicals indiscriminately into the hands of persons largely or wholly ignorant of their potentials for harm. We have subjected enormous numbers of people to contact with these poisons, without their consent and often without their knowledge. I contend, furthermore, that we have allowed the se chemicals to be used with little or no advance investigation of their effect on so

文件编辑 统计功能 文件显示 发送邮件 时间管理

导入文本 标准模式 词频统计 绘制图形 生成词云 高亮文本 取消高亮 标记单词

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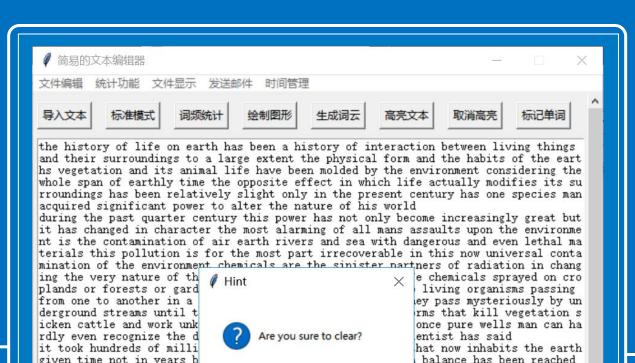
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it is not my contention that chemical insecticides must never be used i do contend the at we have put poisonous and biologically potent chemicals indiscriminately into the hands of persons largely or wholly ignorant of their potentials for harm we have subjected enormous numbers of people to contact with these poisons without their consent and often without their knowledge i contend furthermore that we have allowed these chemicals to be used with little or no advance investigation of their effect on soil water wildlife and man himself future generations are unlikely to forgive our lack of c



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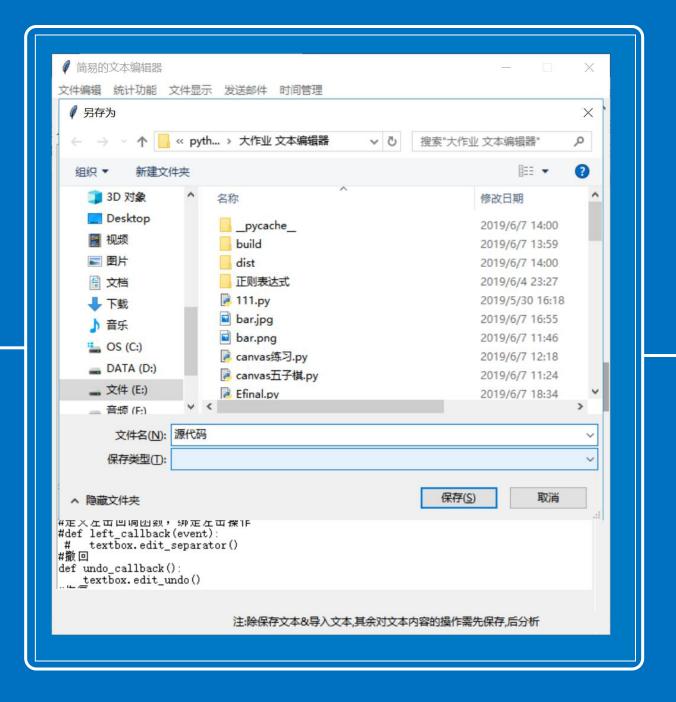
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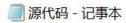
注:除保存文本&导入文本,其余对文本内容的操作需先保存,后分析

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文件(E) 编辑(E) 格式(O) 查看(V) 帮助(H)

-*- coding: utf-8 -*-

Created on Thu May 30 14:04:49 2019

@author: zjh

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运行效果

import tkinter as tk
import tkinter.messagebox
import tkinter.simpledialog
import tkinter.filedialog
import numpy as np
import matplotlib.pyplot as plt
import re
import webbrowser
import time
import wordcloud
from PIL import Image,ImageTk

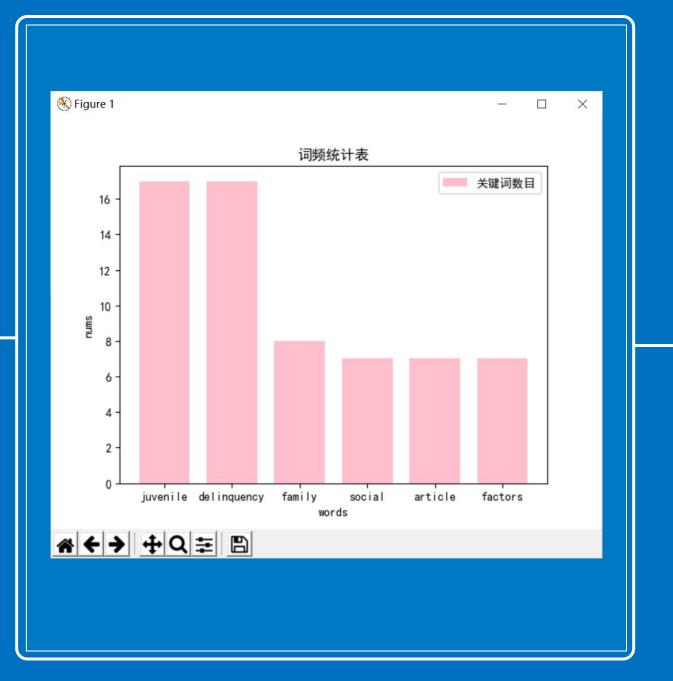
def originaltext():
 global text #让此处的text被其他地方调用

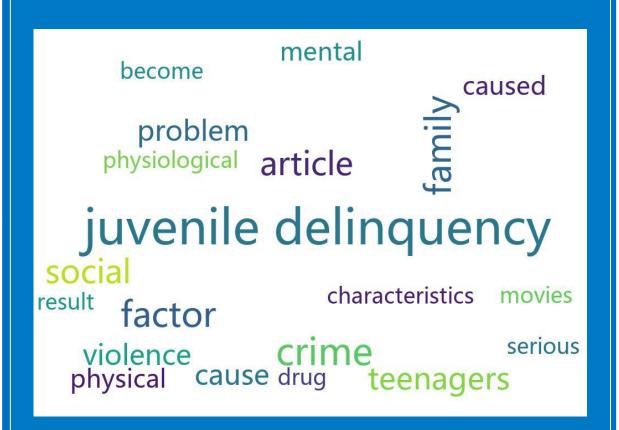
源代码

2019/6/7 19:29

文件

简易的文本编辑器 diary one i am very lucky to be admitted to the class of louis although it is a optio nal course i am expecting highly of it i hope that i can get something useful about b ec through this course what is more laying a foundation for my further study on bec t hat is why i choose it the first lesson 词频统计结果 od activating every one of us he let us to our pour english i think this is important n english well vocabulary and words are of 34 must have bravery to speak out in publicenglish 32 he various people that include your clasyou 28 nds and the foreigners i have studied en was 27 es in communicating with the other persoand 26 shame to say this louis is a enthusiast my mself it was very unforgettable for us this 23 23 introduce ourselves i saw someone stand not jealous of them because they had the brathat 21 intending to stand up to ask questions 18 hand back may be i must have a look at mcan 18 ns why i afraid why i not stand why i ndhave wer the questions i finally know life is business 17 16 rtunities the opportunities will miss yo at i get from the first class i know evewill 16 s which are laid in front of him i am the 14 business english so i put my heart into think 14 e many friends in the class but i rememb class 13 ve first i will never forget this saying must 13 tion and my time into it every one wilbut 13 13 ass i found time is swift it could prove we 12 he first lesson is always unforgettable which 12 iting for you i like challenge so i lik wour e tomorrow is also new day for me the day after tomorrow is also new as for me every day is new day for me because i always remember one thing let bygones be bygones thi s is my first business english lesson i like it diary two i think i have a good night today i saw louis again this evening because it was time for business english class i dare to say you can see a smile in his face everyday i can guess if somebody is in a bad mood he will get better when he sees louis according to the thirteen week study i have found louis is a vigorous man he is full of enthusiasm and have a lot of energie s which seem that they are not used out tonight louis gave out some paper which was c ut to pieces these pieces came from a business letter louis had disorder these piece 字符统计: 9248 词数统计: 1813 注:除保存文本&导入文本,其余对文本内容的操作需先保存,后分析





● 简易的文本编辑器一 ○ ※文件编辑 统计功能 文件显示 发送邮件 时间管理

导入文本 标准模式 词频统计 绘制图形 生成词云 高亮文本 取消高亮 标记单词

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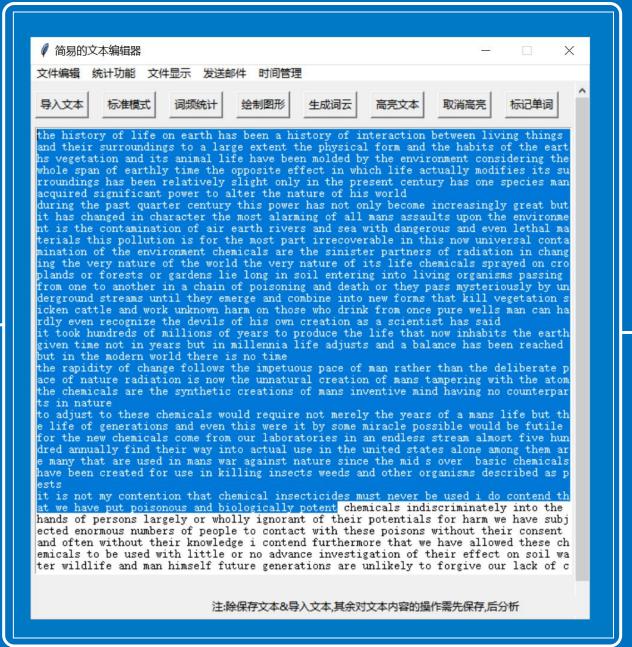
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it is not my contention that chemical insecticides must never be used i do contend the at we have put poisonous and biologically potent chemicals indiscriminately into the hands of persons largely or wholly ignorant of their potentials for harm we have subjected enormous numbers of people to contact with these poisons without their consent and often without their knowledge i contend furthermore that we have allowed these chemicals to be used with little or no advance investigation of their effect on soil watter wildlife and man himself future generations are unlikely to forgive our lack of c



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文件编辑 统计功能 文件显示 发送邮件 时间管理

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文件编辑 统计功能 文件显示 发送邮件 时间管理

导入文本

标准模式

词频统计

绘制图形

生成词云

高亮文4

取消高亮

标记单词

the history of life on earth has been a history of interaction between living things and their surroundings to a large extent the physical form and the habits of the eart hs vegetation and its animal life have been molded by the environment considering the whole span of earthly time the opposite effect in which life actually modifies its su rroundings has been relatively slight only in the present century has one species man acquired significant power to alter the nature of his world

during the past quarter century this power has not only become increasingly great but it has changed in character the most alarming of all mans assaults upon the environment is the contamination of air earth rivers and sea with dangerous and even lethal materials this pollution is for the most part irrecoverable in this now universal contamination of the environment physics are the sinister partners of radiation in changing the very nature of the world the very nature of its life physics sprayed on croplands or forests or gardens lie long in soil entering into living organisms passing from one to another in a chain of poisoning and death or they pass mysteriously by underground streams until they emerge and combine into new forms that kill vegetation sicken cattle and work unknown harm on those who drink from once pure wells man can hardly even recognize the devils of his own creation as a scientist has said

it took hundreds of millions of years to produce the life that now inhabits the earth given time not in years but in millennia life adjusts and a balance has been reached but in the modern world there is no time

the rapidity of change follows the impetuous pace of man rather than the deliberate p ace of nature radiation is now the unnatural creation of mans tampering with the atom the physics are the synthetic creations of mans inventive mind having no counterparts in nature

to adjust to these physics would require not merely the years of a mans life but the life of generations and even this were it by some miracle possible would be futile for the new physics come from our laboratories in an endless stream almost five hundred annually find their way into actual use in the united states alone among them are man y that are used in mans war against nature since the mid s over basic physics have been created for use in killing insects weeds and other organisms described as pests it is not my contention that chemical insecticides must never be used i do contend that we have put poisonous and biologically potent physics indiscriminately into the hands of persons largely or wholly ignorant of their potentials for harm we have subjected enormous numbers of people to contact with these poisons without their consent and often without their knowledge i contend furthermore that we have allowed these physics to be used with little or no advance investigation of their effect on soil water wildlife and man himself future generations are unlikely to forgive our lack of concern for the integrity of the natural world that supports all lif

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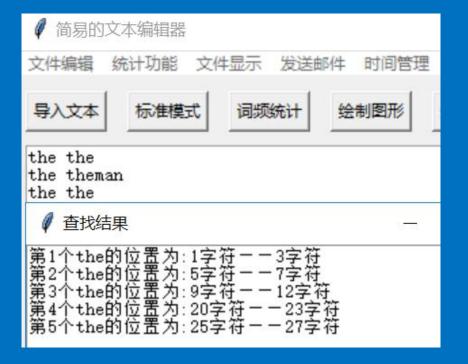
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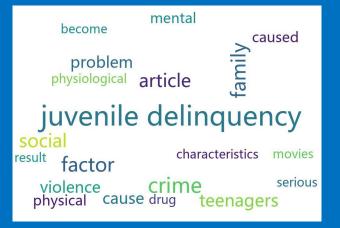


- **关键语法**
- 8 运行效果
- **创新之处**

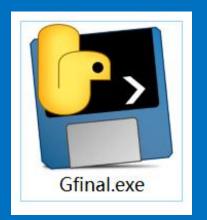


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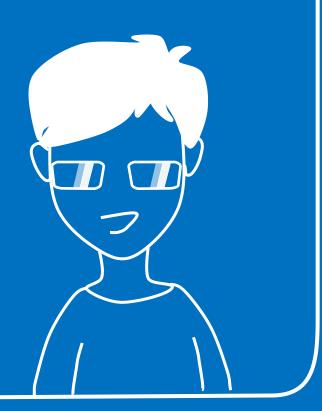




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谢谢大家!





庄嘉恒