

Homework 9

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Alice Example

In this homework, I knit the example `alice.py` from
“https://github.com/amueller/word_cloud/tree/master/examples”
I made some changes since the original code kept give me error. I
changed the variable `d` to the absolute directory and delete the
first line of “`alice.txt`” file since I can’t read it in.

Code

```
#!/usr/bin/env python
from os import path
from PIL import Image
import numpy as np
import matplotlib.pyplot as plt
from wordcloud import WordCloud, STOPWORDS

d = "/Users/yueyaowang/Documents/VT/2017Fall/stat-package/Package_Homework/Package_Homework/Homework9/HW9_Wang_Yueyao.html"
# Read the whole text.
text = open(path.join(d, "alice.txt")).read()
# read the mask image
# taken from
# http://www.stencilry.org/stencils/movies/alice%20in%20wonderland/255fk.jpg
alice_mask = np.array(Image.open(path.join(d, "alice_mask.png")))

stopwords = set(STOPWORDS)
stopwords.add("said")

wc = WordCloud(background_color="white", max_words=2000, mask=alice_mask,
               stopwords=stopwords)
# generate word cloud
wc.generate(text)

# store to file
wc.to_file(path.join(d, "alice.png"))
```

WordCloud from Python Code

