

Creating a word cloud in a shape related to the theme of your project can make your visualization even more impressive.

PYTHON STEPS FOR GENERATING WORD CLOUD

STEP 1:

Import the following python libraries.

```
from wordcloud import WordCloud, STOPWORDS
from PIL import Image
import numpy as np
import urllib
import requests
import matplotlib.pyplot as plt
```

NOTE 1: If you get an error that states “No module named ‘wordcloud’ ”, run the following command in your terminal to install wordcloud.

```
python -m pip install wordcloud
```

NOTE 2: If you get an error regarding PIL, navigate to the following file:

```
./anaconda3/lib/python3.6/site-packages/PIL/Image.py
```

Open the Image.py file and change the code below

```
if PILLOW_VERSION != getattr(core, 'PILLOW_VERSION', None):
    raise ImportError("The _imaging extension was built for another "
        "version of Pillow or PIL:\n"
        "Core version: %s\n"
        "Pillow version: %s" %
        (getattr(core, 'PILLOW_VERSION', None),
        PILLOW_VERSION))
```

to the following

```
if core.PILLOW_VERSION != getattr(core, 'PILLOW_VERSION', None):
    raise ImportError("The _imaging extension was built for another "
        "version of Pillow or PIL:\n"
        "Core version: %s\n"
        "Pillow version: %s" %
        (getattr(core, 'PILLOW_VERSION', None),
        PILLOW_VERSION))
```

STEP 2:

Add the text that you want to use for your word cloud. I used the following words

related to homes.

```
words = 'access guest guest apartment area area bathroom bed bed bed bed bed  
bedroom block coffee coffee coffee coffee entrance entry francisco free garden  
guest home house kettle kettle kitchen kitchen kitchen kitchen kitchen kitchen  
living located microwave neighborhood new park parking place privacy private  
queen room san separate separate shared space space space street suite time  
welcome'
```

Step 3:

```
mask =  
np.array(Image.open(requests.get('http://www.clker.com/cliparts/O/i/x/Y/q/P/yellow-house-hi.png', stream=True).raw))
```

To get the custom shape for the word cloud, look for an image that you want to use as a mask. In this example, I used the following image as an

outline: <http://www.clker.com/cliparts/O/i/x/Y/q/P/yellow-house-hi.png>



Step 4:

This function takes in your text and your mask to generate a custom wordcloud.

Run the following line of code to call the `generate_wordcloud` function above.

```
generate_wordcloud(words, mask)
```

Your final code should look like this:

Have fun making custom word clouds! You can also adjust the color and size to your liking. Feel free to share with me the word clouds you end up creating!