ex6

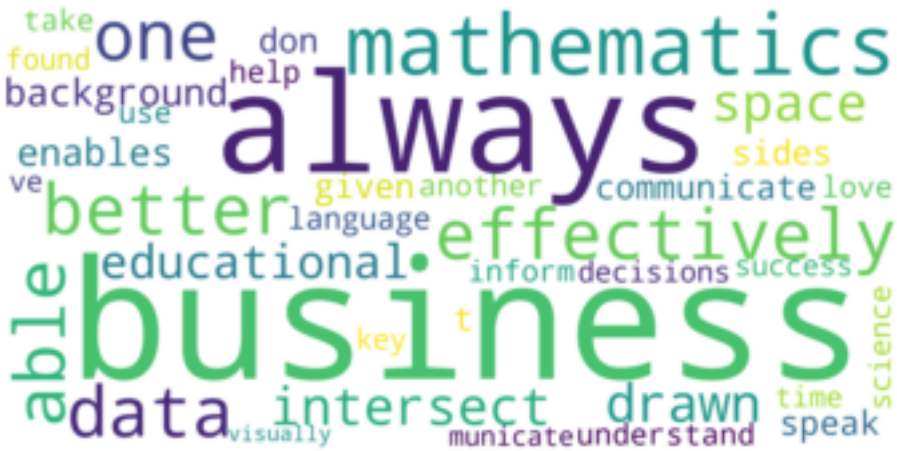
March 24, 2023

[4]:
```
from wordcloud import WordCloud
import matplotlib.pyplot as plt
from PIL import Image

file = open ('text_file.txt', 'r')
text = file.readlines()[0]
print (text)
```

```
I have always been drawn to the space where mathematics and business intersect.
My educational background is mathematics and business, which enables me to
communicate effectively with both sides-given that they don't always speak the
same language-and help them better understand one another. I love being able to
take the science of data and use it to inform better business decisions. Over
time, I've found that one key to success is being able to com- municate
effectively visually with data.
```

[13]:
```
word_cloud = WordCloud(background_color='white', width=2000, height=1000,).
 ↪generate(text)

plt.imshow(word_cloud, interpolation='bilinear')
plt.axis('off')
```

[13]:
```
(-0.5, 1999.5, 999.5, -0.5)
```



[14]:
```
import numpy as np
x, y = np.ogrid[:1000, :1000]

mask = (x - 500) ** 2 + (y - 500) ** 2 > 400 ** 2
mask = 255 * mask.astype(int)

wordcloud = WordCloud(background_color="white",width=1920, height=1080,␣
 ↪mask=mask).generate(text)

plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
```

[14]:
```
(-0.5, 999.5, 999.5, -0.5)
```