Text Preprocessing

```
# Import the libraries
import pandas as pd
import numpy as np
import matplotlib
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
from wordcloud import WordCloud, STOPWORDS,ImageColorGenerator
from PIL import Image, ImageFilter, ImageStat
import nltk, re, string, collections
from nltk.tokenize.regexp import RegexpTokenizer
from nltk.stem.porter import PorterStemmer
from nltk.stem.wordnet import WordNetLemmatizer
from nltk.corpus.stopwords import stopwords, words
from sklearn.feature_extraction.text import CountVectorizer, TfidfVectorizer
from sklearn.decomposition.truncated_svd import TruncatedSVD
from sklearn.preprocessing import Normalizer, MaxAbsScaler
from sklearn.pipeline import Pipeline
from sklearn.manifold.t_sdne import TSNE
%matplotlib inline
plt.rcParams['figure.dpi'] = 150
```

```
df = pd.read_csv('Transcripts.csv')
```

```
df.shape
```

```
(4, 2)
```

```
df.head()
```

	text	interval
0	We have gone our hands away, a world dim in the glory and the dream. We have gone beyond the West Wind, beyond the East Wind, and sunset and evening star, and one clear call for us all. And the West Wind moves like a traveler's footsteps, and the East Wind like a voice calling in the night. Dust to dust, and ashes to ashes, we hunt the West Wind and we find it not. It blows where it chooses, and we know not whence it comes or whither it goes. We have gone in search of a country that is fairer than all other lands. We have sought for a City which is set on a hill, that cannot be hidden. We search for a City with walls and towers, with streets and squares, and gates and temples. But we seek it with weariness in our souls. Is it not there, or there, or there, the City of our desire, the City of the Great King? We have heard of it in our youth; we have heard of it in our age. It is the City of our ancient dreams, but is it not also the City of our present and future? Is it not ever-lasting as the hills? Is it not built of hope and of the stuff that endures? Yes, though we do not see its towers and its walls and its gates, we know that they are there. We know that we have not been deceived in our quest. We know that we shall at last come to our City and our King. This we know, for we have heard the City's music in our souls. We have felt the City's spell upon our souls. We have felt the City's beauty and we have felt the City's strength. We have felt the City's love. We have felt the City's peace. We have felt the City's joy. We have felt the City's glory. We have felt the City's eternal youth. For we have heard the music of the City, and music is the spell of the City, and music is the City. We have felt the City's spell upon our souls. We have felt the City's beauty and we have felt the City's strength. We have felt the City's love. We have felt the City's peace. We have felt the City's joy. We have felt the City's glory. We have felt the City's eternal youth. For we have heard the music of the City, and music is the spell of the City, and music is the City.	2017-10-04
1	Behold, Spring is the Daughter of Winter. Spring is a goddess of things so small, that I scarcely dare to speak of them lest I should be overheard by the great. Spring is the goddess of the little green leaf, of the little bird's nest, of the little lamb, of the little child. Spring is the goddess of the little things that are in danger because they are little, of the little things that are in danger because they are few, of the little things that are in danger because they are good. Spring is the goddess of the little things that are in danger because they are young. Spring is the goddess of the little things that are in danger because they are gentle. Spring is the goddess of the little things that are in danger because they are innocent. Spring is the goddess of the little things that are in danger because they are helpless. Spring is the goddess of the little things that are in danger because they are loving. Spring is the goddess of the little things that are in danger because they are trusting. Spring is the goddess of the little things that are in danger because they are beautiful. Spring is the goddess of the little things that are in danger because they are joyous. Spring is the goddess of the little things that are in danger because they are merry. Spring is the goddess of the little things that are in danger because they are laughing. Spring is the goddess of the little things that are in danger because they are dancing. Spring is the goddess of the little things that are in danger because they are singing. Spring is the goddess of the little things that are in danger because they are dancing and singing. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying and dreaming. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying and dreaming of the Great Spring. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying and dreaming of the Great Spring and of the Great Summer. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying and dreaming of the Great Spring and of the Great Summer and of the Great Autumn. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying and dreaming of the Great Spring and of the Great Summer and of the Great Autumn and of the Great Winter. Spring is the goddess of the little things that are in danger because they are dancing and singing and laughing and loving and living and dying and dreaming of the Great Spring and of the Great Summer and of the Great Autumn and of the Great Winter and of the Great Eternity

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Gulliver's Travels

Gulliver's Travels

Gulliver's Travels

[illegible]

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[illegible]

[illegible]

Cooked and submitted by Dennis Lam 2021

WordCloud

```
CREATE TABLE IF NOT EXISTS "WordCloud" (
"id" INTEGER PRIMARY KEY,
"inputtext" TEXT,
"processed" TEXT,
"cleaned" TEXT,
"mostcommon" TEXT,
"lang" TEXT,
"sentiment" TEXT,
"wordcount" INTEGER,
"nouns" TEXT,
"reallyimportant" TEXT,
"created_at" DATETIME DEFAULT (datetime('now','localtime'))
);
INSERT INTO "WordCloud" (id,inputtext,processed,cleaned,mostcommon,lang,sentiment,wordcount,nouns,reallyimportant,created_at) VALUES(1,'I'm Dennis Lam. Hello World.','Dennis Lam Hello World.','Dennis Lam Hello World.','{"dennis":1,"lam":1,"hello":1,"world":1}','en','{"score":0,"comparative":0,"calculation":[],"tokens":["dennis","lam","hello","world"],"words":["hello","world"],"positive":["hello","world"],"negative":[]}',4,'[]','[]','2021-12-17 00:00:00');
```

Save as Textfile

```
CREATE TABLE IF NOT EXISTS "Textfile" (
"id" INTEGER PRIMARY KEY,
"textfile" BLOB,
"created_at" DATETIME DEFAULT (datetime('now','localtime'))
);
INSERT INTO "Textfile" (id,textfile,created_at) VALUES(1,NULL,'2021-12-17 00:00:00');
```

Cooked and submitted by Dennis Lam 2021