

DataHacks2021 2021 - Team No Sleep

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Introduction

For this project, our team was provided a dataset that contained information about the word counts for **8265 words** across **8 religious texts**. We were tasked with cleaning the dataset and looking at different trends that may exist in the data. Using different Python libraries and statistical methods, we were able to observe some interesting trends in the data.

In [2]:

```
# imports
import pandas as pd
import numpy as np
import umap
import matplotlib.pyplot as plt
from sklearn.preprocessing import RobustScaler
import seaborn as sns
from sklearn.decomposition import PCA
import scipy.stats as ss
from sklearn.cluster import KMeans
```

In [3]:

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

Currently, the first column is the book and chapter all other columns represent words.

In [4]:

df

Out[4]:

	Unnamed: 0	foolishness	hath	wholesome	takest	feelings	anger	vaivaswata	ma
0	Buddhism_Ch1	0	0	0	0	0	0	0	
1	Buddhism_Ch2	0	0	0	0	0	0	0	
2	Buddhism_Ch3	0	0	0	0	0	0	0	
3	Buddhism_Ch4	0	0	0	0	0	0	0	
4	Buddhism_Ch5	0	0	0	0	0	0	0	
...	
585	BookOfWisdom_Ch15	0	2	0	0	0	0	0	
586	BookOfWisdom_Ch16	0	0	0	0	0	0	0	
587	BookOfWisdom_Ch17	0	0	0	0	0	0	0	
588	BookOfWisdom_Ch18	0	0	0	0	0	0	0	
589	BookOfWisdom_Ch19	0	0	0	0	0	0	0	

590 rows × 8267 columns

Since distribution of words in each chapter of a book might not represent that of the book as whole very well, we combine the word counts for each book across their chapters by taking the sum of word counts.

In [5]:

```
df.insert(0, 'book_', [book for book, _ in df[df.columns[0]].str.split('_', n=1)] )
```

In [6]:

```
books_df = df.groupby(['book_']).sum()
books = books_df.index
```

Top 20 words

In [7]:

```
def top_twenty_words (cleaned_df):  
    data = {}  
    easier_table = cleaned_df.transpose()  
    book_names = easier_table.columns  
  
    for book in book_names:  
        data[book] = easier_table[book].sort_values(ascending = False).head(20)  
  
    return data
```

In [8]:

```
books_top20=top_twenty_words(books_df)
```

In [9]:

```
books_top20
```

Out[9]:

```
{'BookOfEcclesiasticus': shall      508
  thy      330
  man      232
  thou     230
  god      193
  hath     189
  thee     170
  lord     152
  things   120
  upon     115
  wisdom    97
  heart     96
  good      95
  men       82
  fear      81
  soul      80
  one       77
  shalt     76
  give      71
  glory     71
Name: BookOfEcclesiasticus, dtype: int64,
'BookOfEcclesiastes': shall      89
  man       71
  hath      46
  god       46
  things    46
  thy       43
  time      42
  sun       36
  also      31
  vanity    29
  heart     27
  thou      26
  wisdom    26
  evil      24
  good      22
  better    22
  wise      22
  men       22
  labour    19
  one       19
Name: BookOfEcclesiastes, dtype: int64,
'BookOfProverb': shall      389
  man      176
  thy      165
  thou     93
  wicked   92
  lord     85
  wise     71
  hath     65
  heart    64
  thee     59
  way      56
  evil     54
  wisdom   53
```

mouth	51
words	47
son	47
soul	47
good	46
fool	46
things	45

Name: BookOfProverb, dtype: int64,

'BookOfWisdom': shall 120

things	89
thy	86
god	67
thou	61
man	38
wisdom	38
upon	37
made	35
hath	32
thee	30
men	30
lord	28
life	26
good	26
us	26
therefore	26
might	25
wicked	25
children	24

Name: BookOfWisdom, dtype: int64,

'Buddhism': right 128

feeling	85
one	75
stress	74
body	73
monk	72
mind	71
remains	63
cessation	62
called	62
mental	58
discerns	58
focused	56
way	55
consciousness	47
noble	46
property	43
qualities	42
concentration	40
form	39

Name: Buddhism, dtype: int64,

'TaoTeChing': tao 84

things	56
one	51
men	45
great	42
therefore	40
heaven	38

```

would          36
thus           33
people         32
without        32
know           31
sage           31
state          28
yet            28
way            24
like           24
s              23
may            23
place          21
Name: TaoTeChing, dtype: int64,
'Upanishad': one          100
self           79
mind           71
brahman        68
man            63
death          56
knowledge      51
know           50
must           46
nachiketas     43
said           41
senses         39
beyond         36
atman          33
knows          32
therefore      32
nature         32
god            31
heart          31
body           30
Name: Upanishad, dtype: int64,
'YogaSutra': spiritual    300
man            239
life           148
consciousness  122
power          112
one            108
mind           98
soul           94
things         88
self           81
powers         70
psychic        68
may            66
first          59
must           58
comes          57
divine         53
psychical      53
eternal        52
body           52
Name: YogaSutra, dtype: int64}

```

In [10]:

```
def top_twenty_words (cleaned_df):
    data = {}
    easier_table = cleaned_df.transpose()
    book_names = easier_table.columns

    fig, axs = plt.subplots(nrows=2, ncols=4, figsize=(70,25))

    column = 0
    row = 0

    for book in book_names:
        data[book] = easier_table[book].sort_values(ascending = False).head(20)

        x = data[book]
        x = np.array(list(x.items())).T
        axs[row,column].tick_params('x',labelsize=20, rotation = 90)
        axs[row,column].tick_params('y',labelsize=15, direction='in')
        axs[row,column].bar(list(x[0])[:-1],list(x[1])[:-1])
        axs[row,column].set_title('Top 20 words in '+book, size = 25)
        if column == 3:
            row = 1
            column = -1

        column+=1
    plt.savefig('8_plots.jpg')
```

In [11]:

```
top_twenty_words(books_df)
```

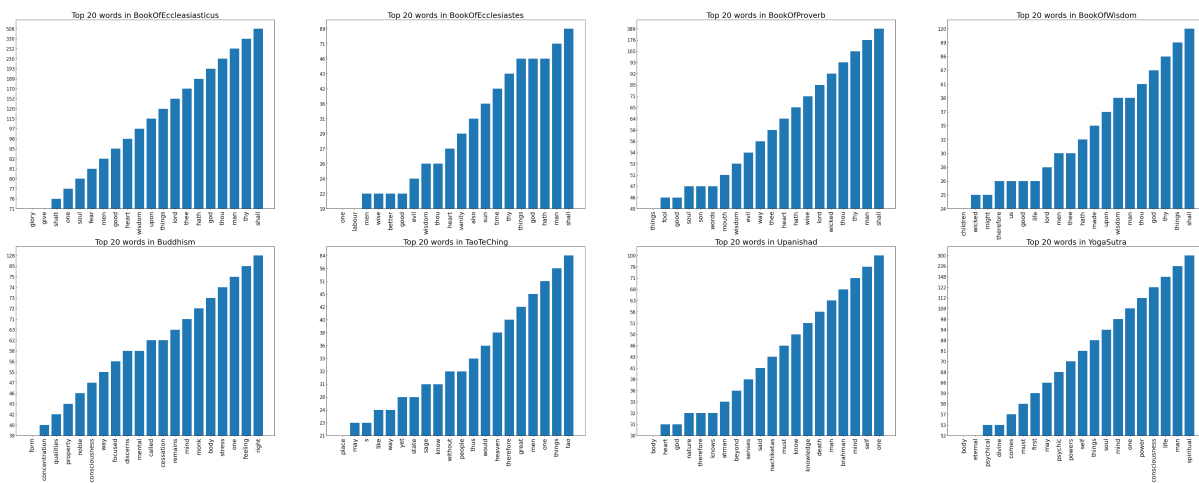


Figure 1: These visualizations display the top 20 most commonly used words in each of the books individually

In [12]:

```
top_20_across_books = books_df.sum(axis = 0).sort_values(ascending = False).head(20)
```

Index of `top_20_across_books` shows the top 20 words across all books

In [13]:

```
top_20_across_books.index
```

Out[13]:

```
Index(['shall', 'man', 'thy', 'one', 'things', 'thou', 'god', 'life',  
      'hath',  
      'spiritual', 'lord', 'mind', 'thee', 'heart', 'soul', 'wisdom',  
      'men',  
      'upon', 'good', 'way'],  
      dtype='object')
```

In [14]:

```
plt.figure(figsize=(10,10),dpi=100)
plt.xticks(size=8,rotation = 60)
plt.yticks(size=8, rotation = 60)
plt.bar(top_20_across_books.index,top_20_across_books.values)
plt.savefig('allbooksTop20.jpg')
```

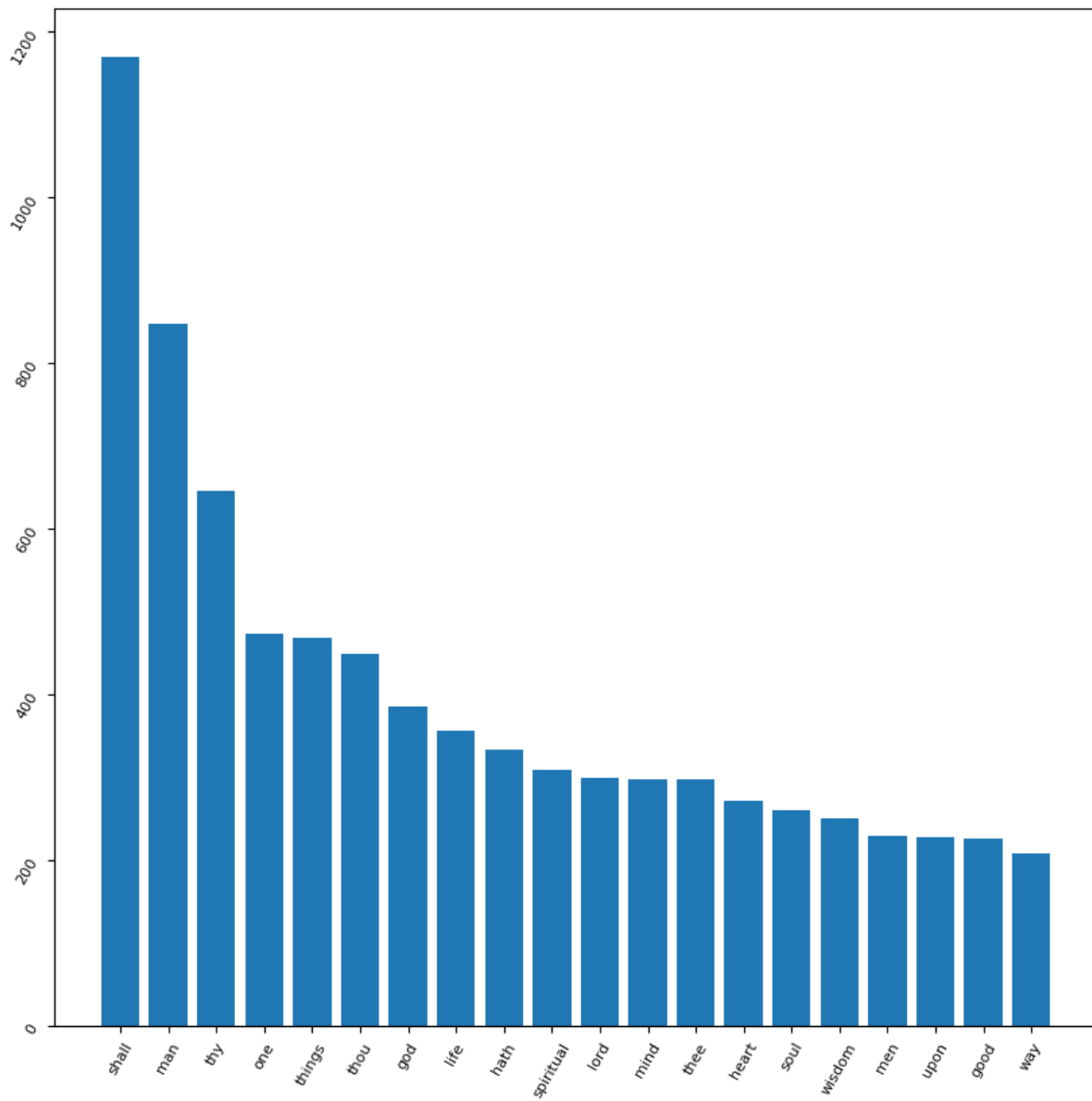


Figure 2: Top 20 words across all the books

Looking at Figure 1 and Figure 2, an interesting trend to notice is that from the texts that come from the Abrahamic religions (Book of Ecclesiasticus, Book of Ecclesiastes, Book of Proverb, Book Of Wisdom) all have the word “**shall**” as their most used word. This may indicate that these books are focused more on making commandments and advising the reader on what to do as the word “shall” expresses a certain type of desire. Looking at the texts from the Eastern religions, (Upanishad, YogaSutra, Buddhism, and TaoTeChing), a very commonly used word between these books are the words “one” and “man”/“body”. This may indicate that these texts are more interested in the idea of how a person and the world are connected as one entity as opposed to the idea that they are separate. This is true for the top three words in this figure, man and thy are the most prevalent in the four aforementioned books.

TF-IDF calculations for each word in each book.

TF-IDF is the product of the frequency of a word in a document relative to all words in the document and the frequency of word occurring across all documents. This entails how important a word is, in terms of frequency, in a document, scaled to all words in all documents. We further use this metric using Dimensionality Reduction algorithm UMAP to plot them and visually observe the distances of the books relative to each other.

In [15]:

```
books_df
```

Out[15]:

	foolishness	hath	wholesome	takest	feelings	anger	vaivaswata	matrix
book_								
BookOfEcclesiasticus	0	189	3	1	0	14	0	0
BookOfEcclesiastes	0	46	0	0	0	5	0	0
BookOfProverb	2	65	0	0	0	11	0	0
BookOfWisdom	0	32	0	0	0	1	0	0
Buddhism	0	0	0	0	19	0	0	0
TaoTeChing	0	0	0	0	0	1	0	0
Upanishad	0	0	0	0	0	3	1	0
YogaSutra	0	2	1	0	0	0	0	1

8 rows × 8266 columns

In [16]:

```
tf = pd.DataFrame({book: books_df.loc[book]/books_df.loc[book].sum() for book in books})
IDF = books_df.sum(axis=0)
IDF = IDF+1 #account for divsion by 0 error

IDF = len(books_df)/IDF

TF_IDF = pd.DataFrame({book: tf[book] * (1/IDF) for book in books}).transpose()

TF_IDF
```

Out[16]:

	foolishness	hath	wholesome	takest	feelings	anger	vaivaswa
BookOfEcclesiasticus	0.000000	0.533350	0.000126	0.000017	0.000000	0.004246	0.000000
BookOfEcclesiastes	0.000000	0.694645	0.000000	0.000000	0.000000	0.008114	0.000000
BookOfProverb	0.000097	0.352757	0.000000	0.000000	0.000000	0.006415	0.000000
BookOfWisdom	0.000000	0.266561	0.000000	0.000000	0.000000	0.000895	0.000000
Buddhism	0.000000	0.000000	0.000000	0.000000	0.007171	0.000000	0.000000
TaoTeChing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000977	0.000000
Upanishad	0.000000	0.000000	0.000000	0.000000	0.000000	0.002052	0.000000
YogaSutra	0.000000	0.006731	0.000050	0.000000	0.000000	0.000000	0.000000

8 rows × 8266 columns

UMAP Ananlysis

In [17]:

```
reducer = umap.UMAP()
# embedding = reducer.fit_transform(books_df)
embedding = reducer.fit_transform(TF_IDF)
```

```
/Users/ishaangupta/opt/anaconda3/lib/python3.7/site-packages/umap/umap
.py:1674: UserWarning: n_neighbors is larger than the dataset size; tr
uncating to X.shape[0] - 1
    "n_neighbors is larger than the dataset size; truncating to "
```

In [18]:

```
fig,ax = plt.subplots(figsize=(40,40))
# plt.figure(figsize=(50,50),dpi=40)
ax.scatter(
    embedding[:, 0],
    embedding[:, 1],c=np.arange(8), s= 250)
for i in np.arange(8):
    ax.annotate(books[i],(embedding[i, 0],embedding[i, 1]), fontsize =30, in_layout
= True)
plt.savefig('UMAP_for_all_books.jpg')
```



Figure 3(a): UMAP analysis shows that Buddhism and Taoism are very close to each other compared to other texts; Yoga Sutra and Upanishad also form a relatively close pair

In [28]:

```
reducer = umap.UMAP()
chapter_embedding = reducer.fit_transform(df[df.columns[2:]])
```

We also attempt to get UMAP for chapterwise word counts.

In [34]:

```
book_map = {y:x for x,y in list(enumerate(books))}

book_map
```

Out[34]:

```
{'BookOfEcclesiasticus': 0,
 'BookOfEcclesiastes': 1,
 'BookOfProverb': 2,
 'BookOfWisdom': 3,
 'Buddhism': 4,
 'TaoTeChing': 5,
 'Upanishad': 6,
 'YogaSutra': 7}
```

In [54]:

```
fig,ax = plt.subplots(figsize=(40,40))
# plt.figure(figsize=(50,50),dpi=40)
ax.scatter(
    chapter_embedding[:, 0],
    chapter_embedding[:, 1],c= [book_map[x] for x in df[df.columns[0]]], s= 250)
for book in books:
    i = df[df[df.columns[0]] == book].index
    centroid = np.mean(chapter_embedding[ df[df[df.columns[0]] == book].index], axis = 0)
    ax.annotate(book,centroid, fontsize =30, in_layout = True)
plt.savefig('UMAP_for_all_books.jpg')
```

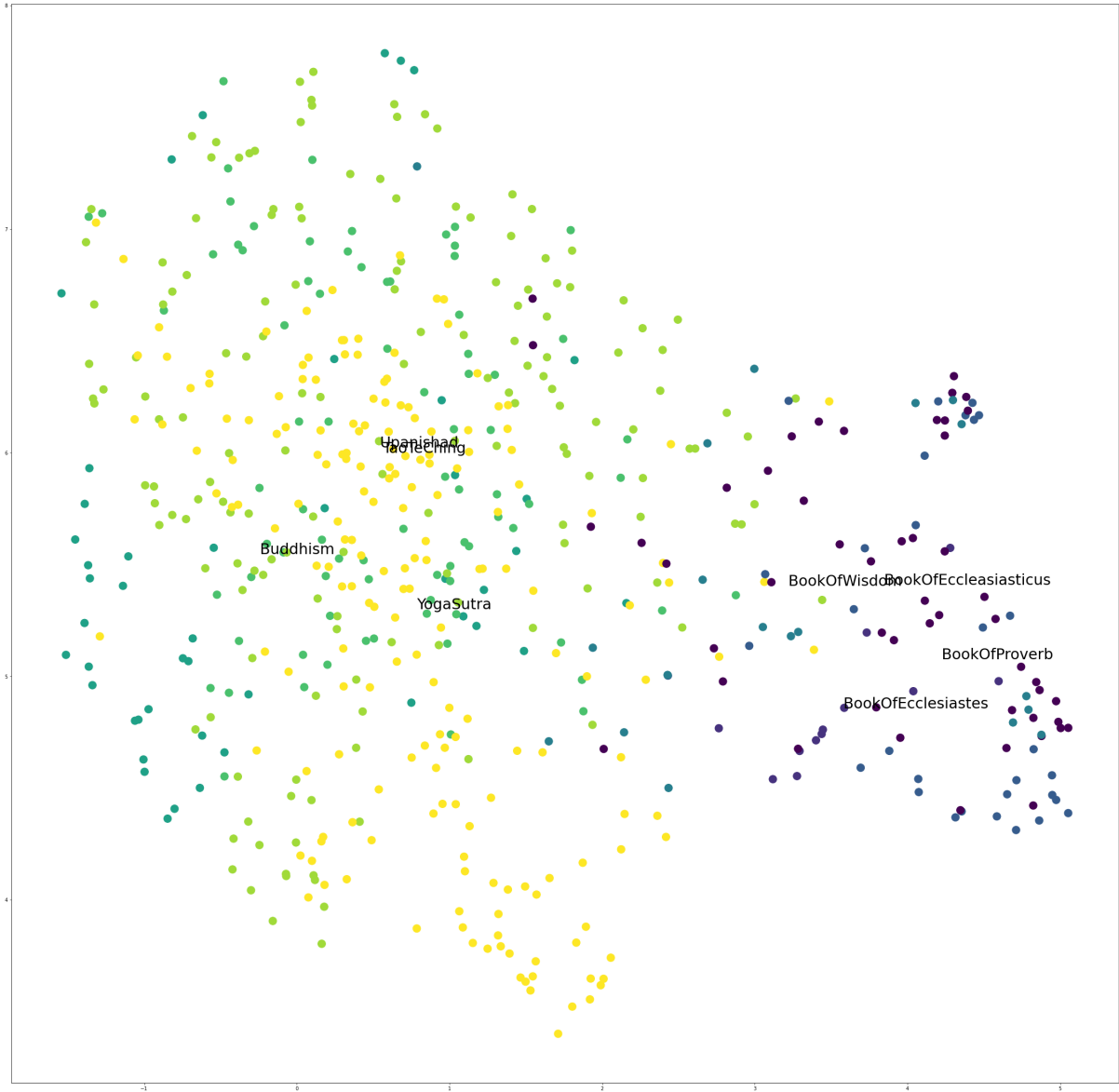



Figure 3(b): UMAP analysis of chapterwise word counts, each color showing a different book.

The data points seem to converge a lot for many books, indicating that chapters are not good sample points representing word count distribution for corresponding book, and so we will not refer to the chapterwise word counts in our analysis but instead use just the combined book-wise word counts.

A Closer Look at Buddhism and Taoism

In our UMAP analysis, Buddhism and Taoism form a distuingishably close pair. We shall use first k-means clustering, and then Hierarchical clustering to see exactly which two texts are the most similar and distinguishable from the rest of the texts. So we generate 7 clusters among the 8 texts, the ony cluster containing a pair would be highly similar and distinguishable.

Our hypothesis is that Buddhism and Taoism are similar enough to be that pair that appear in the same cluster.

In [19]:

```
from sklearn.cluster import KMeans
kmeans = KMeans(n_clusters=7, random_state=0).fit_predict(TF_IDF)
```

All we need is the 0th cluster (`first_cluster`) for our purpose and we further plot which texts appear in the 0th cluster (`first_cluster`)

In [20]:

```
first_cluster = kmeans==0
```

In [21]:

```
fig,ax = plt.subplots(figsize=(40,40))
# plt.figure(figsize=(50,50),dpi=40)
ax.scatter(
    embedding[:, 0],
    embedding[:, 1],c=first_cluster, s= 250)
for i in np.arange(8):
    ax.annotate(books[i],(embedding[i, 0],embedding[i, 1]), fontsize =30, in_layout
= True)
plt.savefig('UMAP_for_all_books.jpg')
```



Figure 4: Yellow dots indicate texts belonging to the first cluster, Purple dots indicate texts not belonging to the first cluster. So upon making 7 clusters using kmeans, Buddhism and Taoism texts come out to be the members of the first cluster, the only cluster containing a pair.

We also use Hierarchical clustering to more clearly visualize the closest pair from all the text based on TF-IDF metric, which will appear in the form of the pair that has the last split

In [22]:

```
from scipy.cluster.hierarchy import dendrogram, linkage
from matplotlib import pyplot as plt
X = TF_IDF
linked = linkage(X, 'single')

labelList = books
# labelList = range(8)
plt.figure(figsize=(10, 7))
dendrogram(linked,
            orientation='top',
            labels=labelList,
            distance_sort='descending',
            show_leaf_counts=True)
plt.tick_params('x', labelsize=15, rotation = 60)
plt.show()
```

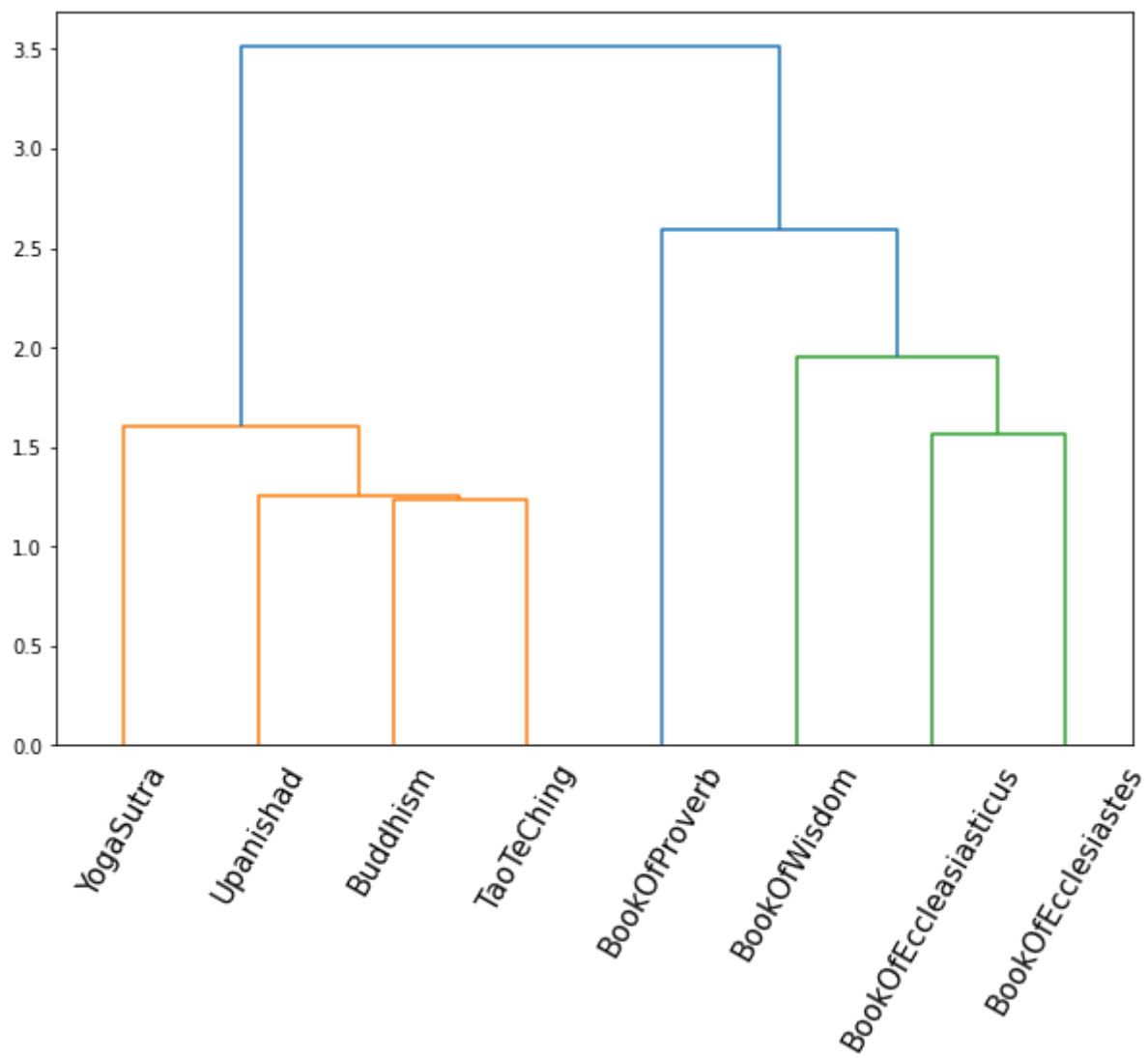


Figure 5: Hierarchical clustering of all the texts based on TF-IDF. Buddhism and Tao Te Ching form the pair that splits last, indicating the pair closest to each other

The first cluster appears to contain **Buddhism** and **Tao TeChing**, essentially leading us to conclude that Buddhism and Taoism have a very strong relationship based on this data, compared to the other texts. Our hypothesis proved to be correct, now we shall discuss the background behind this connection. Despite the fact that Buddhism and Taoism are similar enough in their texts to be clustered together, it cannot be said that these similar word usages can be applied to their practices because of the fundamental differences between the two religions. Hence, we use external source for examining practices and beliefs, and connect them to word usages.

Background on relationship between Buddhism and Taoism

Buddhists believe in reincarnation, focusing to eliminate mental suffering. Buddhists believe that life is suffering. [4] Because of this, it makes sense that the Buddhism text has "right" as its most frequent word (Figure 1) because according to the Buddhists, living life according to certain "right" actions will help prevent suffering and lead to Nirvana

Taoism believe in the present, rather than post-death. They also make it their goal to gain balance in life. Taoist look at life positively and can be improved by following Tao/Way of Nature. [5] "Tao" being the most common word for the TaoTeChing text makes sense as well because the idea behind Taoism is following the Tao to find harmony.

Buddhism & Taoism Similarities:

Buddhism & Taoism are both considered very peaceful religion. They focus on mediation for the sake of peace of mind & enlightenment.

Furthermore, although their idea of self improvement differs due to more focus on the afterlife in Buddhism than the present in Taoism. there is a common goal underlying the differences in their approach - they both focus on the idea of self-improvement. [6] TaoTeChing (Taoism): "presented a way of life intended to restore harmony and tranquility"

Hierarchical Clustering analysis

Evolution of these texts can be visualized in terms of a dendrogram which uses our word count data to find distances between the texts. We shall particularly focus on the texts `BookOfEcclesiastes` , `BookOfProverb` and `BookOfWisdom` , since they are a part of The Old Testament.

In [23]:

```
from scipy.cluster.hierarchy import dendrogram, linkage
from matplotlib import pyplot as plt
X = books_df
linked = linkage(X, 'single')

labelList = books
# labelList = range(8)
plt.figure(figsize=(10, 7))
dendrogram(linked,
            orientation='top',
            labels=labelList,
            distance_sort='descending',
            show_leaf_counts=True)
plt.tick_params('x', labelsize=15, rotation = 60)
plt.show()
```

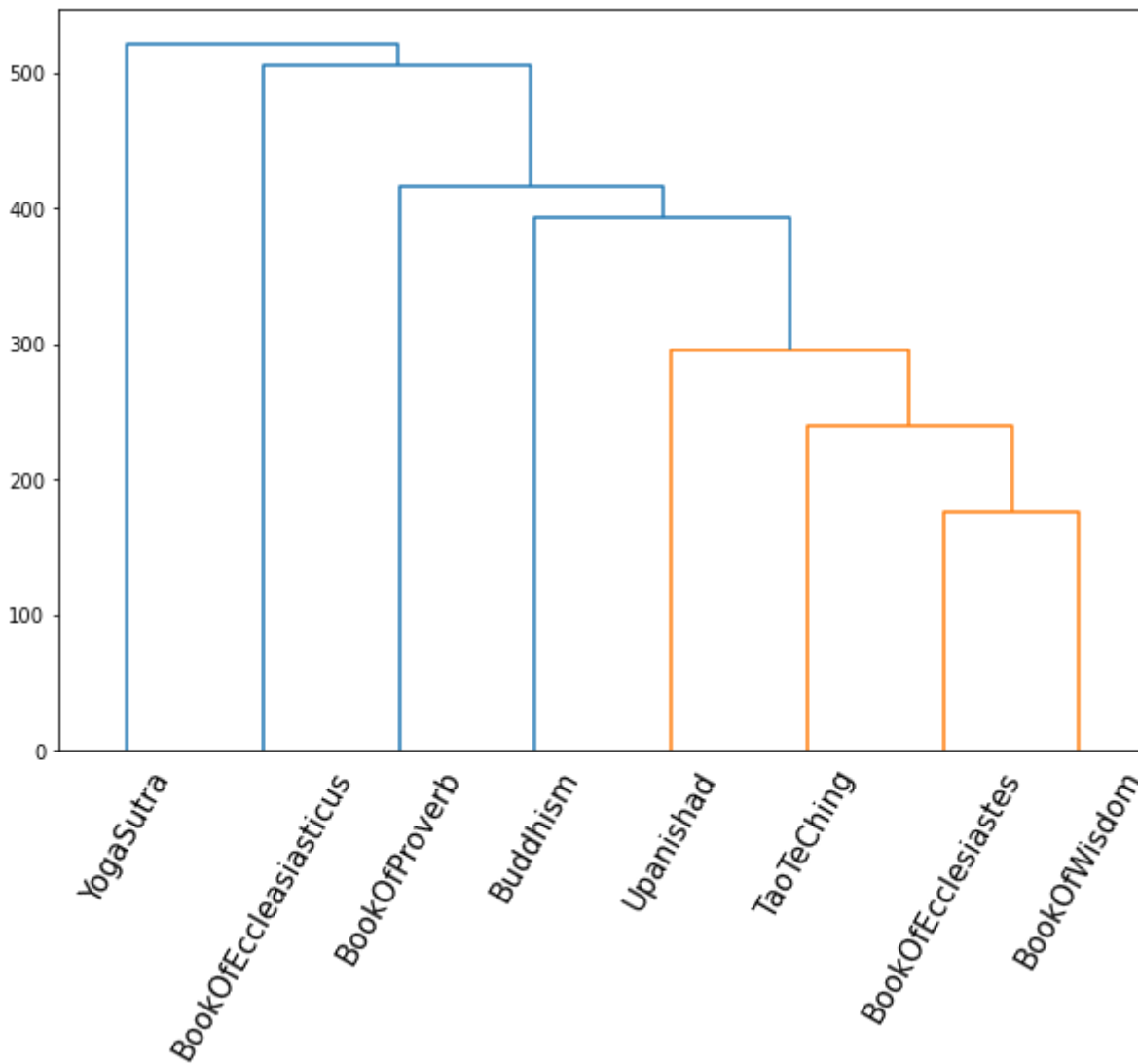


Figure 6: The dendrogram for word counts for all the texts.

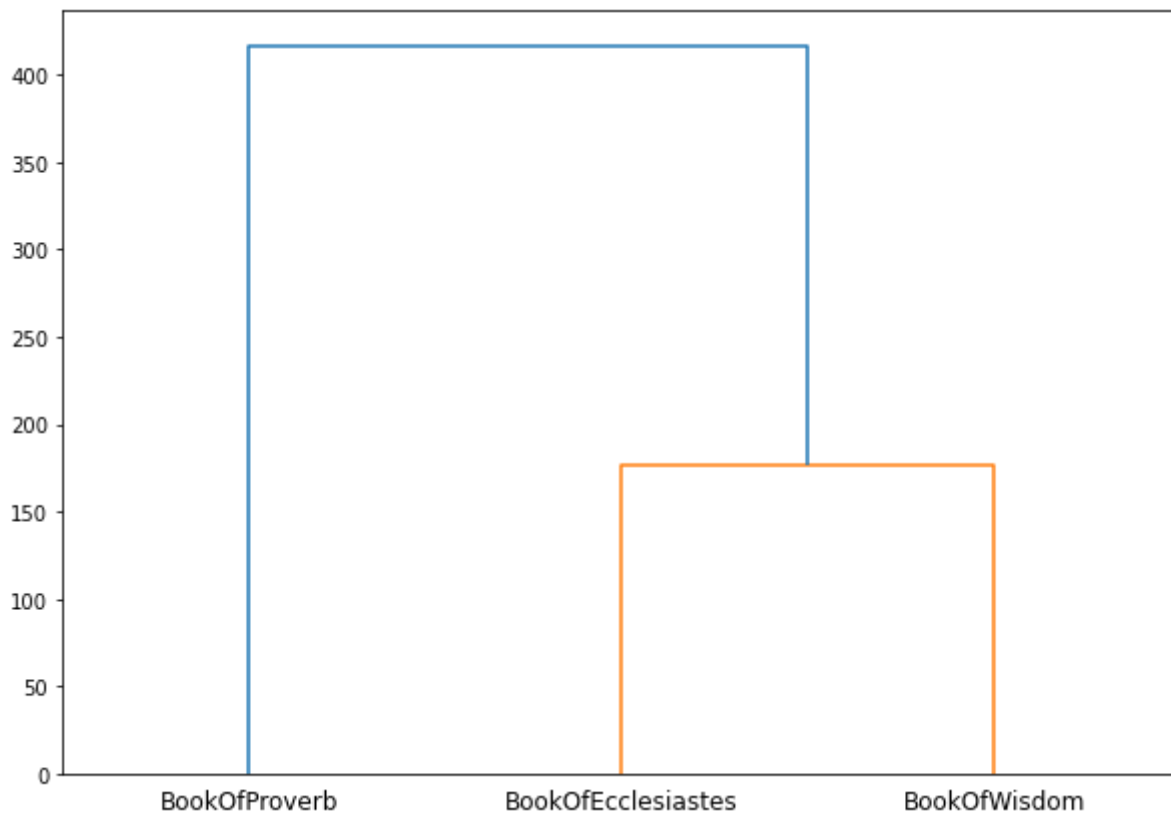
In the dendrogram for all the texts, based on word counts (Figure 5), we observe Book of Proverb diverges much earlier (in terms of number of splits) compared to Book of Ecclesiastes and Book of Wisdom. This observation can be interpreted as the Book of Proverb being very different from Book of Ecclesiastes and Book of Wisdom. Since they are all part of The Old Testament, we could infer that the main reason behind Book of Proverb being in a distant cluster is chronological influence. We used external sources to confirm this deduction and much to our delight, while Book of Proverb 700 BCE[1], the other two texts evolved much later - Book of wisdom 1st century BCE[2], and Book of Ecclesiastes 3rd century BCE[3]

Similarly referring back to Figure 5 showing the dendrogram generated by TF-IDF metric, we can see that the Book of Wisdom, Book of Ecclesiastes, and the Book of Proverbs are clustered together when we split into 2 clusters, which makes sense because they are all part of the Old Testament in the Bible. However, we can see that the Book of Proverb is in a separate cluster from the Book of Wisdom and Ecclesiastes when split into 3 clusters most probably because it was written much earlier than the other two books.

In [24]:

```
from scipy.cluster.hierarchy import dendrogram, linkage
from matplotlib import pyplot as plt
X = books_df.iloc[1:4,:]
linked = linkage(X, 'single')

labelList = books[1:4]
# labelList = range(1,4)
plt.figure(figsize=(10, 7))
plt.tick_params('x', labelsize=25, rotation = 60)
dendrogram(linked,
            orientation='top',
            labels=labelList,
            distance_sort='descending',
            show_leaf_counts=True)
plt.show()
```



Running hierarchical clustering for just the 3 books gives exactly similar results.

In [25]:

```

metric = books_df

top = 20
words = metric.columns
proverb_values = np.array(metric.iloc[2])/metric.iloc[2].sum()
ecc_values = np.array(metric.iloc[1])/metric.iloc[1].sum()
wisdom_values = np.array(metric.iloc[3])

# Highly used in Proverb than Ecc
# sorted(enumerate(list(proverb_values - ecc_values)),key= lambda x: x[1])
top_100_ecc_less = sorted(enumerate(list(proverb_values - ecc_values)),key= lambda
x: x[1], reverse=True)[:100]
top_100_wisdom_less = sorted(enumerate(list(proverb_values - wisdom_values)),key= l
ambda x: x[1], reverse=True)[:100]

print("Top 10 words less frequent in Ecclesiastes than Proverbs ",'\n',[words[x[0]]
for x in top_100_ecc_less[:10]])
print()
print("Top 10 words less frequent in Wisdom than Proverbs",'\n',[words[x[0]] for x
in top_100_wisdom_less[:10]])
print()

proverbs_more = set([words[x[0]] for x in top_100_ecc_less]).intersection(set([word
s[x[0]] for x in top_100_wisdom_less]))

print("Words less frequent in both Ecclesiastes and Wisdom than Proverbs",'\n',prov
erbs_more)
print()

print()

top_10_ecc_more = sorted(enumerate(list( ecc_values - proverb_values )),key= lambda
x: x[1], reverse=True)[:10]
top_10_wisdom_more = sorted(enumerate(list( wisdom_values - proverb_values )),key=
lambda x: x[1], reverse=True)[:10]

print("Top 10 words more frequent in Proverbs than Ecclesiastes",'\n',[words[x[0]]
for x in top_10_ecc_more[:10]])
print()
print("Top 10 words more frequent in Wisdom than Proverbs",'\n',[words[x[0]] for x
in top_10_wisdom_more[:10]])
print()

proverbs_less = set([words[x[0]] for x in sorted(enumerate(list(ecc_values - prover
b_values)),key= lambda x: x[1], reverse=True)[:100]]).intersection(set([words[x[0]]
for x in sorted(enumerate(list(wisdom_values - proverb_values)),key= lambda x: x[1
], reverse=True)[:100]))

print("Words more frequent in both Ecclesiastes and Wisdom than Proverbs",'\n',prov
erbs_less)

```

Top 10 words less frequent in Ecclesiastes than Proverbs

```
['shall', 'lord', 'wicked', 'way', 'thy', 'thee', 'mouth', 'son', 'lips', 'instruction']
```

Top 10 words less frequent in Wisdom than Proverbs

```
['shalt', 'woman', 'keepeth', 'rich', 'lying', 'paths', 'open', 'steps', 'seeketh', 'slothful']
```

Words less frequent in both Ecclesiastes and Wisdom than Proverbs

```
{'seeketh', 'saith', 'prudent', 'trusteth', 'lamp', 'ruin', 'open', 'hate', 'slothful', 'forsake', 'paths', 'followeth', 'woman', 'keepeth', 'rod', 'rich', 'stranger', 'lying', 'shalt', 'neighbour', 'uttereth', 'quarrels', 'hateth', 'sluggard', 'ones', 'steps'}
```

Top 10 words more frequent in Proverbs than Ecclesiastes

```
['time', 'god', 'sun', 'things', 'vanity', 'also', 'hath', 'labour', 'better', 'know']
```

Top 10 words more frequent in Wisdom than Proverbs

```
['shall', 'things', 'thy', 'god', 'thou', 'wisdom', 'man', 'upon', 'made', 'hath']
```

Words more frequent in both Ecclesiastes and Wisdom than Proverbs

```
{'end', 'also', 'time', 'power', 'therefore', 'living', 'hath', 'man', 'viz', 'earth', 'know', 'given', 'made', 'neither', 'things', 'beasts', 'men', 'spirit', 'one', 'world', 'great', 'together', 'nothing', 'works', 'god', 'come', 'found', 'good', 'wisdom', 'came', 'might'}
```

Furthermore, referring to Figure 2, we notice some words with negative connotations - like 'wicked' and 'evil' - have significantly decreased in frequency in both Book of Wisdom and Ecclesiastes than the older Book of Proverbs. In fact, when we look at words that appear in both Top 100 words less frequent in Ecclesiastes than Proverbs and Top 100 words less frequent in Wisdom than Proverbs (output above), we see negative words like 'hate', 'lying', 'slothful', 'quarrels', and also 'rich' (because it shows materialism), while in words that appear in both Top 100 words less frequent in Ecclesiastes than Proverbs and Top 100 words less frequent in Wisdom than Proverbs (output above), we see more positive words like 'wisdom', 'good', 'great', 'god', 'know', and 'living'.

Besides, words less frequent in both Ecclesiastes and Wisdom than Proverbs are often '-eth' ending words - 'trusteth', 'keepeth', 'saith', 'hateth', 'seeketh', 'followeth', 'uttereth' - which might have become anachronic after 3rd century, which is when the later books Ecclesiastes and Wisdom evolved. Whereas, none of the words more frequent in both Ecclesiastes and Wisdom than Proverbs end with '-eth'. This further bolsters chronological changes being the main reason driving the differences from Book of Proverbs.

Conclusion:

After the analysis performed on the data set above, the results show that the wording between the books of Proverbs, Ecclesiastes, and Wisdom has changed as the Book of Proverbs was in a different cluster than the Books of Ecclesiastes and Wisdom. Since the three books come from The Old Testament, difference in beliefs and culture is probably not as impactful in this scenario. This is most likely due to a chronological influence as the Book of Proverb was written much earlier than the other two books. And then we confirmed this deduction through external sources. In regards to the similarities between Buddhism and Taoism, the UMAP and dendrogram based on TF-IDF calculations shows that both religions are highly similar to one another based on their word usages. However, using the context of the religions, this similarity cannot be extended into the practices of these religions as the religions are too fundamentally different from one another.

Sources:

1. <https://www.britannica.com/topic/The-Proverbs> (<https://www.britannica.com/topic/The-Proverbs>)
2. <https://www.britannica.com/topic/Ecclesiastes-Old-Testament>
(<https://www.britannica.com/topic/Ecclesiastes-Old-Testament>)
3. <https://www.britannica.com/topic/Wisdom-of-Solomon> (<https://www.britannica.com/topic/Wisdom-of-Solomon>)
4. <https://taoism.net/tao/> (<https://taoism.net/tao/>)
5. <http://www.pbs.org/edens/thailand/buddhism.htm> (<http://www.pbs.org/edens/thailand/buddhism.htm>)
6. [https://www.diffen.com/difference/Buddhism vs Taoism](https://www.diffen.com/difference/Buddhism_vs_Taoism)
(<https://www.diffen.com/difference/Buddhism vs Taoism>)