Natural Language Processing

Bible Vs Koran

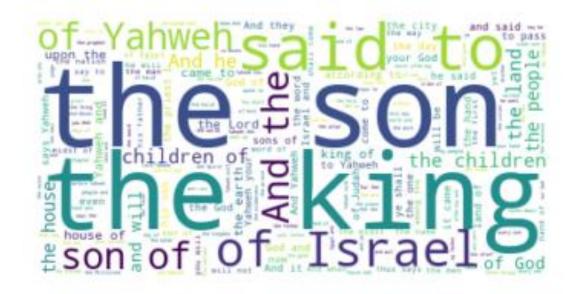
by Alex Dance

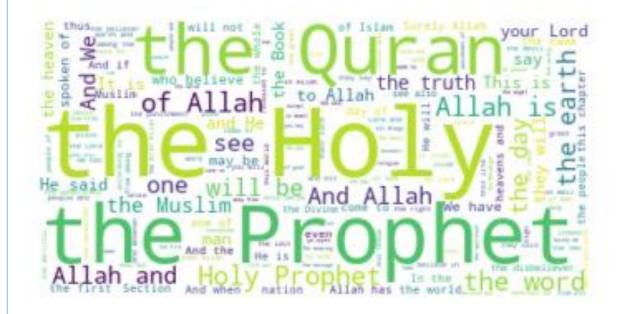
Background

Have completed the ability to compare multiple aspects of text analysis on large documents / text in tables or form web scraping.

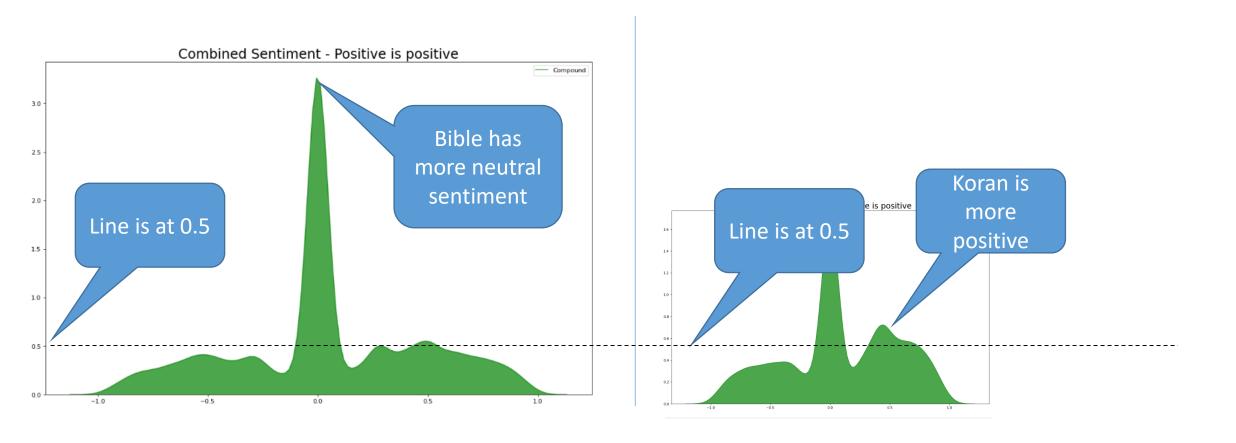
Why Bible Vs Koran: Am not particularly interested in religion or the benefits of a religion vs the other. This is purely statistical and use the tools. Seeing results on their own is partially interesting – but a comparison is more interesting. An alternative comparison could be something like Emily Bronte Vs JK Rowling.

WordCloud Bible



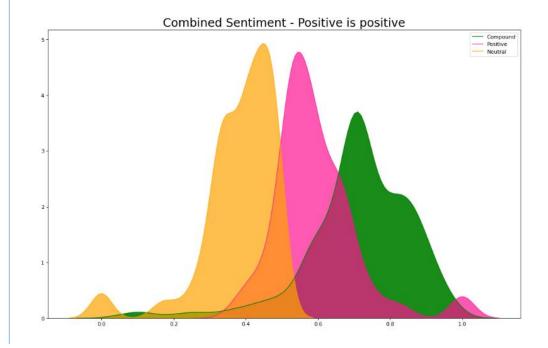


Sentiment Bible



Sentiment Bible

Combined Sentiment - Positive is positive Positive



Grouped Words and phrases Bible

the	son of	1286
the	children of	1274
the	house of	816
out	of the	730
the	land of	611

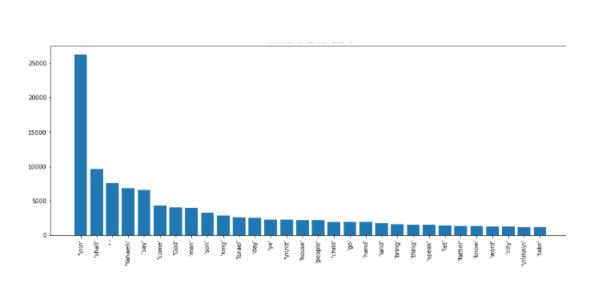
phrase	count	word_count
And it came to pass,	170	5
And it came to pass	157	5
it came to pass, when	135	5
out of the land of	100	5
And it shall come to	91	5
Yahweh, the God of Israel,	88	5

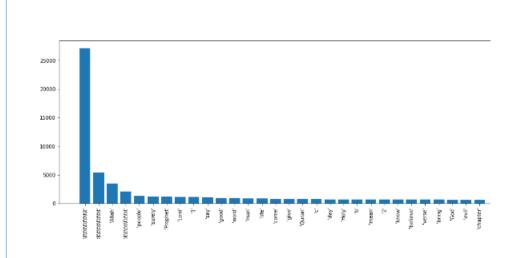
phrase	count	word_count
And it came to pass, when	115	6
the word of Yahweh came to	79	6
And Yahweh spoke to Moses, saying,	72	6
of Yahweh came to me, saying,	50	6
word of Yahweh came to me,	50	6

unt word_	count	phrase
40	40	did that which was evil in the sight of
34	34	in the book of the chronicles of the kings
34	34	written in the book of the chronicles of the
34	34	the book of the chronicles of the kings of

					phrase	count	word_count
the Holy Pro	•		of	Allah, the	Beneficent, the	117	5
of the Holy the heavens and the day of And Allah is		195		the na	me of Allah, the	116	5
		176 174	name	of Allah	, the Beneficent,	116	5
			Allah, the	Benefice	ent, the Merciful.	114	5
				In th	e name of Allah,	114	5
			the B	eneficen	t, the Merciful. 1	108	5
			phrase	count	word_count		
		name of Allah, the Benefi	cent, the	116	6		
		the name of Allah, the Be	neficent,	116	6		
		In the name of A	Allah, the	114	6		
		of Allah, the Beneficent, the	Merciful.	114	6		
		Allah, the Beneficent, the M	erciful. 1	108	6		
			phras	e coun	t word_count		
	In the r	name of Allah, the Beneficent,	the Merc	11	3 9	-	
	the nar	me of Allah, the Beneficent, th	ne Mercifu	10	8 9		
	of	the bounties of your Lord wil	l you deny	/? 2	9 9		
	tl	hen of the bounties of your Lo	ord will yo	u 2	9 9		
	Whi	ich then of the bounties of yo	ur Lord wi	ill 2	9 9		

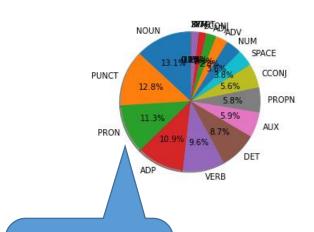
Main Plot Words (excluding stop words eg the) Bible Koran





Note: includes some spacing in document eg"/n" etc that can be ignored

Parts of Speech Bible

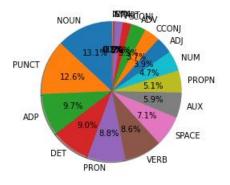


Bible has

higher % of

Pronouns

NOUN	130059
PUNCT	127074
PRON	112158
ADP	108429
VERB	95214
DET	86378
AUX	57964
PROPN	57775
CCONJ	55084
SPACE	38014
NUM	35795
ADV	27972
ADJ	22935
SCONJ	18139
PART	15660
INTJ	1920
X	161
SVM	24



NOUN	64092
PUNCT	61513
ADP	47530
DET	44066
PRON	42881
VERB	42263
SPACE	34616
AUX	28721
PROPN	25124
NUM	22926
ADJ	18917
CCONJ	17928
ADV	16927
SCONJ	9762
PART	8566
SYM	2578
X	800
INTJ	344

Sentences and Length Bible

Bible is about twice as long

Koran

sentence_length
word_count
word_density
punctuation_count
title_word_count
uppercase_word_count

count 31383.000000 31383.000000 31383.000000 31383.000000 31383.000000 mean 136.731288 26.166651 4.934312 5.05879 3.173024 0.332122 std 103.256286 19.040236 0.547576 4.81070 3.279108 0.749297 min 4.000000 1.000000 2.000000 1.00000 0.000000 0.000000 25% 76.000000 14.000000 4.650000 3.00000 1.000000 0.000000 50% 113.000000 22.000000 4.945455 4.00000 2.000000 0.000000 75% 170.000000 33.000000 5.236842 6.00000 4.000000 12.000000 max 3438.000000 455.000000 47.095890 505.00000 307.000000 12.000000		sentence_length	word_count	word_density	punctuation_count	title_word_count	uppercase_word_count
std 103.256286 19.040236 0.547576 4.81070 3.279108 0.749297 min 4.000000 1.000000 2.000000 1.00000 0.000000 0.000000 25% 76.000000 14.000000 4.650000 3.00000 1.000000 0.000000 50% 113.000000 22.000000 4.945455 4.00000 2.000000 0.000000 75% 170.000000 33.000000 5.236842 6.00000 4.000000 0.000000	count	31383.000000	31383.000000	31383.000000	31383.00000	31383.000000	31383.000000
min 4.000000 1.000000 2.000000 1.00000 0.000000 0.000000 25% 76.000000 14.000000 4.650000 3.00000 1.000000 0.000000 50% 113.000000 22.000000 4.945455 4.00000 2.000000 0.000000 75% 170.000000 33.000000 5.236842 6.00000 4.000000 0.000000	mean	136.731288	26.166651	4.934312	5.05879	3.173024	0.332122
25% 76.000000 14.000000 4.650000 3.00000 1.000000 0.000000 50% 113.000000 22.000000 4.945455 4.00000 2.000000 0.000000 75% 170.000000 33.000000 5.236842 6.00000 4.000000 0.000000	std	103.256286	19.040236	0.547576	4.81070	3.279108	0.749297
50% 113.000000 22.000000 4.945455 4.00000 2.000000 0.000000 75% 170.000000 33.000000 5.236842 6.00000 4.000000 0.000000	min	4.000000	1.000000	2.000000	1.00000	0.000000	0.000000
75 % 170.000000 33.000000 5.236842 6.00000 4.000000 0.0000000	25%	76.000000	14.000000	4.650000	3.00000	1.000000	0.000000
	50%	113.000000	22.000000	4.945455	4.00000	2.000000	0.000000
max 3438.000000 455.000000 47.095890 505.00000 307.000000 12.000000	75%	170.000000	33.000000	5.236842	6.00000	4.000000	0.000000
	max	3438.000000	455.000000	47.095890	505.00000	307.000000	12.000000

sentence_length
word_count
word_density
punctuation_count
title_word_count
uppercase_word_count

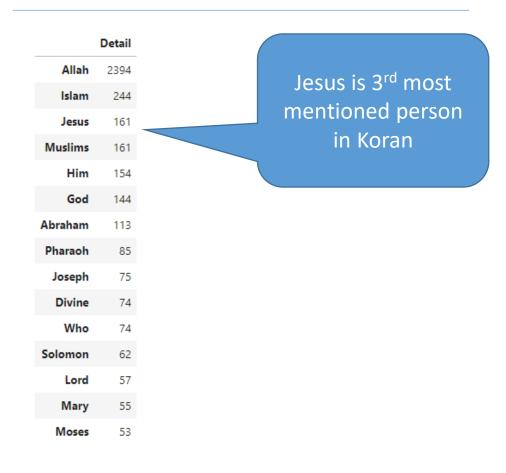
Koran has longer sentences

	sentence_length	w a_count	word_density	punctuation_count	title_word_count	uppercase_word_count
count	17269.000000	17269.000000	17269.000000	17269.000000	17269.000000	17269.000000
mean	156.276854	22.412936	6.285101	4.542301	2.633389	0.202502
std	212.242314	21.727390	1.619516	16.860872	2.346220	0.751373
min	1.000000	1.000000	0.500000	1.000000	0.000000	0.000000
25%	76.000000	12.000000	5.647059	2.000000	1.000000	0.000000
50%	125.000000	19.000000	6.250000	3.000000	2.000000	0.000000
75%	194.000000	28.000000	6.840000	5.000000	3.000000	0.000000
max	11812.000000	1123.000000	34.715385	972.000000	97.000000	11.000000

Main People Bible

Detail Yahweh 2593 David 1110 571 God 519 Jesus Aaron 276 268 Saul 267 Jacob O Yahweh 250 Moses 223 Solomon 218 Judah 201 Paul 180 Thus 172 Joseph 167 Babylon 161 John 149 Joshua 145 Peter 135

Yahweh is the most mentioned person in the bible

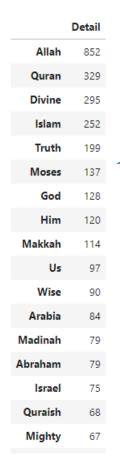


Places

Bible

	Detail
Israel	2523
Yahweh	2323
Jerusalem	661
Egypt	608
Judah	519
God	459
Moses	415
Behold	211
Jordan	194
Christ	153
Saul	142
Babylon	123
Moab	121
Pharaoh	119
Assyria	113
Samaria	110
Abraham	103
Ephraim	93
Jacob	91
Benjamin	91

Koran



Categorisation is not perfect

Location Bible

	Detail
Syria	72
Philistines	65
Israel	27
Damascus	21
Assyria	8
Haran	5
Philadelphia	3
Samaria	3
Sidon	1
Gehenna	1

	Detai
Syria	17
Us	4
North Africa	2
Praiseworthy	2
Constantine	
Damascus	
Israel	

Facilities Bible

	Detail
Hittite	30
Amorite	23
Canaanite	22
Perizzite	15
Netophathite	8
Girgashite	7
Gittite	6
Shunammite	5
Ahohite	5
Carmelite	5
Agagite	5
Cushite	5
Hushathite	5
Jezreelite	5
W!a-	

	Detail
Madinah	26
Garden	12
Israelite	5
Gardens	4
Best Judge	1
Israelites	1
White	1

Orgs

Bible

	Detail
Lord	547
Yahweh	320
Son	159
Lord Yahweh	145
Spirit	113
PhilistinesS	93
Holy Spirit	86
Levites	86
Come	79
God	72
Gentiles	65
Lord Jesus Christ	62
Pharisees	62
Father	50
Philistines	48
Lord Jesus	47
Jerusalem	46
Sabbath	43

	Detail
Holy Prophet	445
Prophet	418
Muslims	235
Lord	218
Book	217
Beneficent	179
Muslim	173
Merciful	159
Quran	134
THE	112
Makkah	108
Fire	90
Holy Quran	88
Holy	86
Hour	56

Types

Bible

GPE	18545
PERSON	16793
ORGANIZATION	4349
FACILITY	243
GSP	206
LOCATION	43

PERSON	6285
ORGANIZATION	5179
GPE	4827
FACILITY	50
LOCATION	33
GSP	28

Some Misspelled words (by current standards) Bible Koran

'oznites', 'kengkreia', '", 'admah', '52this', 'perverseness', 'asahel', 'jezrahiah', 'maaz', '67then', '35see', 'hodaviah', '7for', '54he', 'jeshaiah', 'theudas'ginath', 'lampstands', 'vaniah', 'haft', 'intimidations', 'quaestiones', 'birsha', 'jether', '62the', 'baladan', 'harhur', 'zophar', 'iturea',

regene', 'hady', 'saq', 'yukhlifu', 'rejecters', 'ishmaelites', 'hawazin', 'inviter', 'dighth', 'showjou', 'gression', 'charac', 'ihram', 'fited', 'shment', 'nize', '22w', 'thamma', 'suraqa', 'lishing', 'ference', '59m', 'fection', 'disburses', 'cance',

Thanks

Alex Dance



Copy of This Presentation and code

https://github.com/alexdance2468/

Plus other data science projects completed

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