

South Korea’s World Scout Jamboree: A Big Data Analysis

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Abstract- The ultimate goal of this paper is to provide an in-depth analysis of 25 articles of Google regarding South Korea’s World Scout Jamboree. Our research was conducted by the software package NetMiner. A point to note is that common nouns were the widely used ones in 25 articles of Google and that there occurred one word whose use is 674 tokens. A further point to note is that in the word cloud of 25 articles, the key noun *Jamboree* is the biggest. This in turn says that it is the most key and central word. With respect to the use of 16 topics, it is worthwhile noting that topic 13 was the most widely used, followed by topic 16, topic 1, and topic 9, in that order. When it comes to the use of key nouns, the noun *event* was the most occurred one, followed by the noun *scout*, the noun *Jamboree*, the noun *world*, and the noun *South Korea*, in descending order. This paper argues that the words *camp* and *event* are a pair and that the words *problem* and *food* are also a pair. This paper further argues that the words *UK*, *scout*, *contingent*, and *US* form a group called clique 46 and that this tells us about the scouts of the UK and the US that left the campsite.

Keywords: Jamboree, topic, token, word cloud, event, article,

1. Introduction

This paper aims to provide an in-depth analysis of 25 articles of Google written in July and August in 2023 regarding South Korea’s World Scout Jamboree. Our analysis was conducted by the software package NetMiner. First, we aim to contemplate the use of proper nouns and common nouns including their proportion and cumulative proportion. Second, we aim at going over the use of nouns including their proportion and cumulative proportion. Third, we aim to provide a word cloud that represents the major keywords of 25 articles of Google. We, by providing the word cloud, can capture major keywords that are important and central in 25 articles of Google. Fourth, we aim at providing 16 topics that were used in 25 articles and their keywords. Additionally, we investigate which topics were the frequently used ones in 25 articles of Google where 16 topics were used. Fifth, we probe into the use of 30 keywords that occurred in 25 articles of Google. By doing so, we can see which key nouns were the widely used

ones in 25 articles of Google. Sixth, we investigate word pairs that were mainly used in 25 articles of Google. The so-called word pairs indicate that two words are closely related to each other in 25 articles of Google. Seventh, we aim at looking into the so-called clique. It indicates that similar words form a group and one node can belong to several other groups. In this clique, every node must be completely linked. The clique refers to grouping similar words, but one word can also belong to several other groups. In this paper, we provide information on 120 cliques and show which words were grouped together. Finally, we provide the map of major cliques that constitute 25 articles of Google.

2. Results

2.1. Common nouns and proper nouns

The goal of this section is to go over the use of proper nouns and common nouns. Table 1 shows the use of proper and common nouns including their proportion and cumulative proportion:

Table 1 Proper nouns and common nouns

Value	Frequency	Proportion	Cumulative Proportion
Common Noun	935	0.681	0.681
Proper Noun	438	0.319	1
Total	1373	1	

It is interesting to observe that common nouns obtained 935 tokens, which account for 68.1% (0.681). It is worth mentioning that proper nouns obtained 438 tokens, which account for 31.9% (0.319). The overall use of proper nouns and common nouns are 1,373 tokens (935 tokens vs. 438 tokens). We can take that as confirming evidence that common nouns were the widely used ones in 25

articles of Google.

2.2. Use of nouns

This section is devoted to contemplating the use of nouns that appeared in 25 articles of Google including their proportion and cumulative proportion. Table 2 shows information on the use of nouns that appeared in 25 articles of Google:

Table 2 Use of nouns

Value	Frequency	Proportion	Cumulative Proportion
1.0	674	0.491	0.491
2.0	250	0.182	0.673
3.0	101	0.074	0.747
4.0	59	0.043	0.79
5.0	57	0.042	0.831
6.0	32	0.023	0.854
7.0	23	0.017	0.871
8.0	25	0.018	0.889
9.0	19	0.014	0.903
10.0	20	0.015	0.918
11.0	15	0.011	0.929
12.0	8	0.006	0.934
13.0	11	0.008	0.942
14.0	9	0.007	0.949
15.0	11	0.008	0.957
16.0	4	0.003	0.96
17.0	6	0.004	0.964
18.0	4	0.003	0.967
19.0	3	0.002	0.969
20.0	2	0.001	0.971
21.0	1	0.001	0.972

22.0	8	0.006	0.977
24.0	3	0.002	0.98
25.0	1	0.001	0.98
26.0	1	0.001	0.981
27.0	2	0.001	0.983
28.0	1	0.001	0.983
29.0	2	0.001	0.985
30.0	1	0.001	0.985
32.0	1	0.001	0.986
35.0	2	0.001	0.988
40.0	1	0.001	0.988
44.0	2	0.001	0.99
49.0	1	0.001	0.991
51.0	1	0.001	0.991
52.0	1	0.001	0.992
56.0	1	0.001	0.993
60.0	1	0.001	0.993
62.0	1	0.001	0.994
65.0	1	0.001	0.995
66.0	1	0.001	0.996
71.0	1	0.001	0.996
79.0	1	0.001	0.997
83.0	1	0.001	0.998
117.0	1	0.001	0.999
128.0	1	0.001	0.999
138.0	1	0.001	1
Total	1373	1	

It is worthwhile noting that one word obtained 674 tokens that account for 0.491 (the highest). It is also

appropriate to mention that two words obtained 250 tokens. It should be noted that their proportion

Table 3 Topic Info

	1st Keyword	2nd Keyword	3rd Keyword	4th Keyword	5th Keyword
Topic-1	government	jamboree	event	participant	committee
Topic-2	Korea	fiasco	World Scout Jamboree	event	Audit
Topic-3	site	ministry	country	minister	family
Topic-4	event	year	campsite	lack	Thea
Topic-5	event	person	August	issue	day
Topic-6	Jamboree	World	Scout	time	typhoon
Topic-7	jamboree	ceremony	concert	campsite	site
Topic-8	person	committee	facility	Seoul	participant
Topic-9	South Korea	campsite	Saemangeum	Seoul	participant
Topic-10	scout	Seoul	participant	Sunday	concert
Topic-11	event	heat	Saemangeum	person	scout
Topic-12	problem	participant	country	Sunday	part
Topic-13	scout	country	South Korea	Seoul	city
Topic-14	event	committee	country	US	participant
Topic-15	North	Jeolla	Province	Buan	scout
Topic-16	site	day	committee	heat	condition

It is vital that topic 2 includes the keywords *Korea*, *fiasco*, *World Scout*, *Jamboree*, *event*, and *Audit*. Most importantly, the second keyword is the word *fiasco*. What this word suggests is that in Saemangeum, extreme heat, a flooded campsite, unhygienic bathrooms, and moldy eggs were a fiasco. The main factor of the jamboree fiasco was the lack of any real control tower. The keywords *Jamboree*, *World Scout*, *time*, and *typhoon* consist of topic 6. It is noteworthy that the fifth keyword is the word *typhoon*. Young scouts and adult volunteers from 156 countries moved to 128 different accommodations in Seoul and seven other regions,

due to the approach of the typhoon. Luckily, the young scouts participated in various cultural experience programs prepared by universities. Quite interestingly, the keywords *South Korea*, *campsite*, *Saemangeum*, *Seoul*, and *participant* constitute topic 9. It is worth observing that topic 11 includes the keywords *event*, *heat*, *Saemangeum*, *person* and *scout*. In this topic, the second keyword *heat* indicates that this keyword seemsto be the second most central. It should be noted that the keywords *North*, *Jeolla*, *Province*, *Buan*, and *scout* are made up of topic 15. Now attention is paid to Table 4:

Table 4. Use of topics

	Use of topics
Topic-1	47
Topic-2	44
Topic-3	43
Topic-4	39
Topic-5	35
Topic-6	88
Topic-7	31
Topic-8	28
Topic-9	46
Topic-10	44
Topic-11	37
Topic-12	30
Topic-13	83
Topic-14	18
Topic-15	40
Topic-16	59

It is significant to note that topic 13 was used 83 times in 25 articles of Google (the highest). As observed in Table 3, the keywords *scout*, *country*, *South Korea*, *Seoul*, and *city* consist of topic 13. It is important to note that topic 16 was used 59 times (the second highest). As illustrated in Table 3, the keywords *site*, *day*, *committee*, *heat*, and *condition* constitute topic 16. Quite interestingly, topic 1 appeared 47 times (the third highest) in 25 articles of Google. As observed earlier, topic 1 includes the keywords *government*, *Jamboree*, *event*, *participant*, and *committee*. It must be said that topic 9 occurred 46 times (the fourth highest). As indicated in Table 3,

topic 9 includes the keywords *South Korea*, *campsite*, *Saemangeum*, *Seoul*, and *participant*. It is vital that topic 13 was the most widely used, followed by topic 16, topic 1, and topic 9, in that order. We thus conclude that the keywords *scout*, *country*, *South Korea*, *Seoul*, and *city* were the most widely used in 25 articles of Google.

2.5. Use of major nouns

In this section, we explore the use of central nouns that appeared in 25 articles. Table 5 shows the use of central nouns that mainly occurred in 25 articles:

Table 5 Use of central nouns

Number	Central noun	Frequency
1	event	124
2	scout	119
3	Jamboree	105
4	world	76
5	South Korea	73
6	site	61
7	country	59
8	participant	53
9	government	52
10	campsite	48
11	Seoul	48
12	Saemangeum	48
13	heat	44
14	person	43
15	committee	36
16	North	35
17	Korea	32
18	Jeolla	32
19	problem	30
20	year	29
21	day	28
22	typhoon	27
23	August	26
24	official	25
25	contingent	25
26	concert	23
27	area	23
28	US	23
29	week	22
30	safety	22

It is worth noting that the central word *event* occurred 124 times in 25 articles. The word *event* obtained the highest use (124 tokens). We take that as indicating that the noun *event* was the most widely used. It should be pointed out that the central word *scout* was used 119 times (the second highest). This counts as the second most significant. It would be unreasonable not to note that the central word *Jamboree* appeared 105 times (the third highest). Note that the central noun *world* was used 76 times (the fourth highest). Quite interestingly, the central word *South Korea* occurred 73 times (the fifth highest) in 25 articles of Google. This in turn suggests that *South Korea* is the fifth

most pivotal. It appears thus appropriate to assume that the noun *event* was the most occurred one, followed by the noun *scout*, the noun *Jamboree*, the noun *world*, and the noun *South Korea*, in descending order. Quite interestingly, the central noun *Saemangeum* was used 48 times in 25 articles. It would be unreasonable not to mention that the central noun *problem* occurred 30 times. We thus conclude that the central noun *event* was the most occurred one in 25 articles.

2.6. Word pairs

This section aims to provide word pairs representing 25 articles of Google. The so-called word pair

indicate a close relationship between two words that related pair:
occurred in 25 articles. Simply put, they refer to the

Table 6 Word pairs

Number	Source	Target
1	camp	event
2	typhoon	event
3	safety	event
4	world	Jamboree
5	problem	food
6	Friday	Seoul
7	Jamboree	site
8	Buan	South Korea
9	world scout	Jamboree
10	time	year
11	Jamboree	condition
12	event	world
13	wave	day
14	scout	contingent
15	host	site
16	management	problem
17	activity	campsite
18	scout	Jamboree
19	fiasco	Korea
20	US	participant

It is worthwhile noting that as illustrated in Table 6, the words *camp* and *event* are a pair, thus indicating that they are the related pair. As indicated in Table 6, the words *problem* and *food* are also a pair, hence counting as closely related. It is significant that the words *management* and *problem* become a pair, which in turn indicate that they have an interrelationship between them. It must be noted that the words *Buan* and *South Korea* also indicate a related word pair that mean a close relationship between them. It must be emphasized that the words *fiasco* and *Korea* are a word pair, which in turn imply that the word *fiasco* is a source and the

word *Korea* is a target. Finally, it is worth observing that the words *US* and *participant* have something to do with a *fiasco*, hence becoming a related pair.

2.7. Cliques

This section is devoted to contemplating cliques. Similar words form a group and this is called a clique. Note that one node can belong to several other groups. In the clique, every node must be completely linked. Notice that the clique refers to grouping similar words, but one word can also belong to several other groups. Table 7 shows 120 cliques that occurred in 25 articles of Google:

Table 7 Cliques

CLIQUES	MEMBERS
Clique1	event,Jamboree,Buan,Saemangeum, site
Clique2	event,Jamboree,Buan,South Korea
Clique3	event,Jamboree,Korea
Clique4	event,Jamboree,US,South Korea,scout
Clique5	event,Jamboree,condition,Saemangeum,site
Clique6	event,Jamboree,day
Clique7	event,Jamboree,management
Clique8	event,Jamboree,venue
Clique9	event,North,Buan,Saemangeum
Clique10	event,North,ministry
Clique11	event,Seoul,World,Saemangeum
Clique12	event,Seoul,World,day
Clique13	event,Seoul,World,scout
Clique14	event,Seoul,safety
Clique15	event,World,venue
Clique16	event,World,South Korea,scout
Clique17	event,World,site,Saemangeum
Clique18	event,budget,world
Clique19	event,camp,condition,site,jamboree
Clique20	event,camp,condition,site,Saemangeum
Clique21	event,camp,scout,jamboree
Clique22	event,country,site,Saemangeum
Clique23	event,country,site,host
Clique24	event,country,scout,US
Clique25	event,facility,Saemangeum

Clique26	event,facility,management
Clique27	event,fund,South Korea
Clique28	event,host,jamboree,South Korea
Clique29	event,host,jamboree,site
Clique30	event,jamboree,world,scout
Clique31	event,jamboree,day
Clique32	event,jamboree,management,problem
Clique33	event,jamboree,problem,site
Clique34	event,jamboree,venue
Clique35	event,jamboree,South Korea,scout
Clique36	event,safety,Korea
Clique37	event,safety,management
Clique38	event,weather,condition
Clique39	Friday,scout,Seoul
Clique40	Friday,scout,activity
Clique41	Friday,scout,Jamboree
Clique42	Jeolla,North,government
Clique43	Minister,South Korea,World
Clique44	Scout,Jamboree,US,contingent
Clique45	Scout,Jamboree,preparation
Clique46	UK,scout,contingent,US
Clique47	UK,scout,group
Clique48	UK,scout,week
Clique49	UK,part,US
Clique50	World Scout, Jamboree,Buan,Saemangeum
Clique51	World Scout, Jamboree,Buan,week
Clique52	World Scout, Jamboree,scout,week
Clique53	activity,campsite,Saemangeum

Clique54	activity,campsite,scout
Clique55	area,Saemangeum,Buan,campsite
Clique56	area,Saemangeum,land
Clique57	area,venue,land
Clique58	bid,World,South Korea
Clique59	campsite,Saemangeum,Jamboree,Buan
Clique60	campsite,Saemangeum,Jamboree,participant
Clique61	campsite,Saemangeum,World,participant
Clique62	campsite,Saemangeum,facility
Clique63	campsite,jamboree,participant
Clique64	campsite,jamboree,problem
Clique65	campsite,jamboree,scout
Clique66	campsite,problem,sanitation
Clique67	campsite,sanitation,facility
Clique68	campsite,scout,World
Clique69	campsite,scout,Jamboree
Clique70	ceremony,World,August
Clique71	challenge,participant,country
Clique72	challenge,participant,South Korea
Clique73	concern,camp,jamboree,scout
Clique74	concern,food,lack
Clique75	contingent,scout,US,Jamboree
Clique76	contingent,scout,jamboree
Clique77	August,World,Seoul
Clique78	August,World,South Korea
Clique79	experience,World,Seoul
Clique80	fiasco,Korea,Jamboree
Clique81	food,sanitation,problem

Clique82	food,sanitation,facility
Clique83	government,South Korea,jamboree, participant,support
Clique84	government,South Korea,official
Clique85	government,day,jamboree
Clique86	government,North,ministry
Clique87	group,scout,official
Clique88	group,scout,member
Clique89	heat,typhoon,wave
Clique90	heatwave,jamboree,day
Clique91	heatwave,jamboree,South Korea
Clique92	heatwave,jamboree,site
Clique93	hundred,Jamboree,participant
Clique94	lack,measure,safety
Clique95	member,US,scout
Clique96	official,South Korea,scout
Clique97	part,US,country
Clique98	part,US,Jamboree
Clique99	participant,South Korea,World
Clique100	participant,South Korea,Jamboree, US
Clique101	participant,Saemangeum,country
Clique102	participant,country,US
Clique103	participant,thousand,Jamboree
Clique104	person,country,site
Clique105	preparation,jamboree,year
Clique106	shower,facility,toilet
Clique107	temperature,country,host
Clique108	thousand,Jamboree,day

Clique109	thousand,Jamboree,scout
Clique110	time,jamboree,site,condition
Clique111	time,jamboree,South Korea
Clique112	time,jamboree,year
Clique113	time,World,South Korea
Clique114	time,World,site
Clique115	time,World,year
Clique116	wave,World,day
Clique117	week,World,scout,Seoul
Clique118	week,World,scout,South Korea
Clique119	week,Buan,South Korea
Clique120	year,management,jamboree

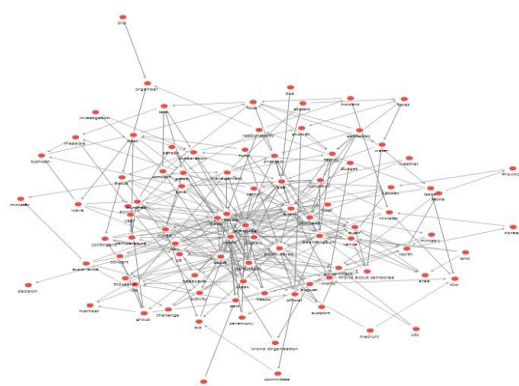
As exemplified in Table 8, there are 120 cliques and they occurred in 25 articles of Google. It is interesting to consider clique 1. The words *event*, *jamboree*, *Buan*, *Saemangeum*, and *site* form a group called clique 1. Clique 1 tells us about an event called *Jamboree* and its place. Put differently, the 5 related words form a group. It is important to mention that the words *event*, *jamboree*, *management*, and *problem* constitute clique 32. This clique refers to the problems of the so-called *Jamboree* management during the event. The words *UK*, *scout*, *contingent*, and *US* form a group called clique 46 and this tells us about the scouts of the UK and the US that left the campsite. It is important to

note that the words *concern*, *food*, and *lack* also form a group called clique 74 and that this clique indicates the problem of food. Finally, it is noteworthy that clique 87 forms a group that includes the words *group*, *scout*, and *official*. To sum up, 120 cliques form 120 groups and each group includes the related words through which we can see what each clique indicates.

2.8. The map of cliques

This section provides the map of cliques that occurred in 25 articles of Google. Note that we eliminated many nodes and included the important part of cliques for the reason of space:

Figure 2 Map of cliques



As exemplified in Figure 2, the words *investigation*, *typhoon*, *person*, etc. are linked to the word *heat*. These words form a clique in which many nodes come inside and go outside. More importantly, the words *responsibility*, *management*, *time*, *lack*, etc. are linked to the word *safety*, thus forming a group. This clique seems to tell us about the responsibility of the camp management. It is significant that the words *management*, *concern*, *Jamboree*, etc. are linked to the word *camp*, hence forming a clique. This clique indicates that the scouts of Jamboree worried about the management of the camp. It should be noted that the words *Buan*, *host*, *official*, *South Korea*, etc. are linked to the word *Saemangeum*. These words form a group and consist of a clique. This clique indicates that South Korea is the host country and the venue for the world scout Jamboree is Saemangeum, Buan, South Korea. For the map of big data and similar words, see Kang (2022a, 2022b, 2022c, 2022d, 2023a, 2023b).

3. Conclusion

To sum up, we have provided an in-depth analysis of 25 articles of Google regarding South Korea's World Scout Jamboree. In section 2.1. and 2.2, we have argued that common nouns were the widely used ones in 25 articles of Google and that there occurred one word whose use is 674 tokens. In section 2.3, we have further argued that in the word cloud of 25 articles, the key noun *Jamboree* is the biggest. This in turn says that it is the most key and central word. In section 2.4, we have maintained that topic 13 was the most widely used, followed by topic 16, topic 1, and topic 9, in that order. In section 2.5, we have contended that the noun *event* was the most

occurred one, followed by the noun *scout*, the noun *Jamboree*, the noun *world*, and the noun *South Korea*, in descending order. In section 2.6, we have shown that the words *camp* and *event* are a pair and that the words *problem* and *food* are also a pair. That is to say, we have provided interrelated words that occurred in 25 articles. In section 2.7, we have contended that the words *UK*, *scout*, *contingent*, and *US* form a group called clique 46 and that this tells us about the scouts of the UK and the US that left the campsite. In section 2.8, we have provided the map of cliques that occurred in 25 articles of Google.

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