

Africa: the Others and the Mirrors – Online Grassroots Opinion towards Africa

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Africa: the Others and the Mirrors

—Online Grassroots Opinion towards Africa

Xiaofen TANG, Zhengrong HU¹

In recent years, there are more and more public doubts and criticisms towards foreign policies in China, especially from online opinion. Thus, when foreign policies met domestic issues, there might come public relation nightmares of the government on social media, for examples, the “Donate Your Sister”(“捐你妹”) thing.

As we know, in July 2012, a heavy rain hit Beijing. Several days later, Beijing Municipal Bureau of Civil Affairs called for donations through Sina Weibo, the Chinese Twitter. But they got barely nothing but rages and criticism. Among the over seventy thousand responses, “Donate Your Sister” ranked the top 1 among all the retweets. “Your Sister”(“你妹”), a Chinese online catchphrase, means “Damn it”. Another dirty word, “Go to Hell”(“滚”) ranked the top 2.



Figure 1. “Donate Your Sister” Responses

Source: <http://weibo.com>

Why the social media users were so irrational?

One of the triggers was the online opinion towards China’s aids to other countries, especially towards Africa. Figure 2 shows one of the most popular tweets on Sina Weibo in July 2012, claiming Chinese government offered over 20 billion US\$ to Africa in the last seven months.

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一号勘九郎 : // @鄒麟 kunschan: 1、2012 年 1 月 18 日, 中国向非盟提供 6 亿美元无偿援助; 2、2012 年 2 月下旬, 中国援助朝鲜 6 亿美元; 3、6 月 7 日, 向上合成员国提供 100 亿美元贷款; 4、7 月 17 日, 向菲律宾提供 1.12 亿美元改造供水管道; 5、7 月 19 日, 援助非洲 200 亿美

@北京市民政局 : 具体捐赠方式也可通过 96156 首都慈善公益热线及首都慈善公益组织联合会网站进行查询。(网址为: www.shxtx.org.cn) 社会监督电话: 65395937、65395938 首都慈善公益热线: 96156 转发(74163) | 评论(65) 2012-7-24 16:56 来自微博 weibo.com

赞 | 转发 | 收藏 | 评论

Figure 2. A tweet listing the China's aids to foreign countries during Jan to July, 2012

Source: <http://weibo.com>

It is a typical populism argument that the government should pay more attention to domestic issues rather than foreign aid. And such an argument represents some netizens' attitude towards Chinese government's foreign aid policy. Some of them argued that since the Chinese government can offer a lot of money to Africa and other countries, it has the capacity to provide disaster relief without the donation from citizens.

Such criticism are so popular that the tweets which claim "Beijing Municipal Bureau of Civil Affairs calls for the public to donate for the flood, DONATE YOUR SISITER!" were retweeted again and again since then on, even there was no any calls for donation after that July.

1. Research Design

Why the aids to Africa become a most important trigger? What are the mechanisms behind the social media users' hostilities and rage?

We choose Sina Weibo (新浪微博), one of the most popular Chinese social media as a case. We define "China Africa (中国 非洲)" as search tags, and collect six months' tweets, from 1st March to 31th August, 2014. Finally we got more than nine hundred thousand pieces, and we use the software R to run text mining. We use both Term Frequency Analysis, Topic Modeling.

Since there are verified users (V users) and Non-verified users (Non-V users) in Sina Weibo, we collect the tweets posted by verified users (V users) and Non-verified users (Non-V users) separately.

Generally speaking, the majority of V users is organizations (including media organizations and public sectors), public intellectuals ("公知") and professionals (including journalists and lawyers). V users are usually considered as the elites and public opinion leaders in China.

Meanwhile, most of the social media users are Non-v users. They represent the voice of the grassroots.

We are trying to find:

- 1.1 What are the most popular topics on Sina Weibo when Non-V users mentioned both the terms “China” and “Africa”?
- 1.2 Which kind of biases and stereotypes causes Non-V users’ misperceptions and hostilities?
- 1.3 Which kind of sensations towards Africa and Africans from Non-V users?
- 1.4 Are there any differences between Non-V users and V users?

2. Data

2.1 Topics

By using the Topic Modeling Tools in R, fifty topics were extracted from the tweets posted by Non-V users (Appendix 1). The fifty topics were classified into 11 categories (Table 1).

Table 1. Topics Models (Non-V Users)

	Topic Categories	Amounts	Topic Model No.
1	Crimes	8	Topic 1, Topic 13, Topic 16, Topic 22, Topic 29, Topic 33, Topic 35, Topic 45
2	Sino-Africa Economic Exchanges	7	Topic 2, Topic 15, Topic 18, Topic 20, Topic 36, Topic 39, Topic 49
3	Diseases	6	Topic 4, Topic 5, Topic 21, Topic 24, Topic 32, Topic 50
4	Jokes & Soul Soother	5	Topic 7, Topic 17, Topic 26, Topic 42
5	Domestic Livelihood	5	Topic 11, Topic 27, Topic 28, Topic 41, Topic 46
6	Cultures	5	Topic 12, Topic 31, Topic 40, Topic 3, Topic 34
7	Species &	4	Topic 25, Topic 30, Topic 38, Topic 43
8	International Affairs	3	Topic 9, Topic 47, Topic 48
9	Others	3	Topic 6, Topic 19, Topic 44
10	Religion	2	Topic 8, Topic 37
11	Sports	2	Topic 14, Topic 23
	Total	50	

Note: Please find the Topic Models in detail at Appendix 1.

2.2 Stereotypes towards Africa

There are obvious biases and stereotypes towards Africa and African people from Non-V users. And such biases and stereotypes sometimes lead to misperceptions and even hostilities. Table 1 shows the Top 3 topics are crimes, Sino-Africa Economic Exchanges and diseases, which represent typical perception of Africa from Non-V users.

2.2.1 Crimes

Crimes related topic focuses on 2 aspects.

The first aspect focuses on the crimes committed by those Chinese who work and live in Africa. The main charges are towards the Chinese who poach elephants for their ivory (Table 2, Topic 35).

The second aspect focuses on the crime committed by the African who travel to China. Some users worried that the African in Guangzhou had threatened the city’s public security (Table 2, Topic 13).

Table 2. Topics of Crimes

	Topic 35	Topic 13
1	"\象牙 Ivory \","	"\非洲人 African \","
2	"\大象 Elephant \","	"\广州 Guangzhou \","
3	"\大陆 Mainland \","	"\犯罪 Crime \","
4	"\盗猎 Poach \","	"\非法 Illegally \","
5	"\转发 Retweet \","	"\中国人 Chinese \","
6	"\购买 Purchase \","	"\毒品 Drug \","
7	"\买卖 Business \","	"\日本 Japan \","
8	"\杀害 Kill \","	"\滞留 Retention \","
9	"\拒绝 Refuse \","	"\黑人 The Black \","
10	"\泪 Tear \","	"\警察 Policeman \","

2.2.2. Sino-Africa Economic Exchanges

Sino-Africa economic exchanges are very important topics. Among the topics, there are 2 main points: China's aid to Africa and the economic co-operation between China and Africa. Table 2 shows that there are 4 topics, among the 7 topics, are talking about the China's economic aid toward Africa.

Table 2. Topics of Sino-Africa Economic Exchanges (Aid Topics)

	Topic 2	Topic 36
1	"\援非 Aid to Africa \","	"\李克强 Li Keqiang \","
2	"\亿美元 \$ 100 Million \","	"\总理 Premier \","
3	"\全球 Global \","	"\访问 Visit \","
4	"\矿产 Minerals \","	"\合作 Co-operation \","
5	"\高铁 High-speed Railway \","	"\中非 Sino-Africa \","
6	"\中心 Center \","	"\夫人 Wife \","
7	"\黑 vicious \","	"\援建 Aid \","
8	"\企业 Enterprise \","	"\出访 Visit \","
9	"\石油 Petroleum \","	"\体育馆 Stadium \","
10	"\美 USA \","	"\程虹 Cheng Hong \","
	Topic 39	Topic 49
1	"\感慨 Lament \","	"\援助 Aid \","
2	"\免费 Free \","	"\钱 Money \","
3	"\中国人 Chinese \","	"\人民 People \","
4	"\阿联酋 The United Arab Emirates \","	"\对外 Foreign \","
5	"\乌克兰 Ukraine \","	"\政府 Government \","
6	"\阅读 Reading \","	"\亿元 100 Million Yuan \","
7	"\欧洲 Europe \","	"\亚洲 Asia \","
8	"\钱 Money \","	"\欧洲 Europe \","
9	"\援助 Aid \","	"\增长 Increase \","
10	"\送 Offer \","	"\提供 Provide \","

2.2.3. Diseases

With the spreading of Ebola in Africa, the concerns about the virus became dominant in diseases topics.

Such concerns focus on two perspectives. The first one is the virus itself and its threats to public health (Table 3, Topic 4), the another one is the medical aid from other countries (including China) outside Africa (Table3, Topic 5).

Table 3. Topics of Disease

	Topic 4	Topic 5
1	"埃博拉 Ebola \",	"埃博拉 Ebola \",
2	"病毒 Virus \",	"疫情 Epidemic \",
3	"组织 Organization \",	"几内亚 Guinea \",
4	"高 High \",	"医生 Doctor \",
5	"死亡 Death \",	"医疗队 Medical Team \",
6	"死亡率 Death Ratio \",	"援非 Aid to Africa \",
7	"世卫 WHO \",	"专家 Experts \",
8	"症状 Symptom \",	"平安 Safty \",
9	"凶猛 Ferocity \",	"归来 Come back \",
1	"感染 Infection \",	"心 Heart \",

2.3 Sensations

Emoticons are very popular for social media users. Some studies have demonstrated that there are links between sensations and emoticons. Table 4 shows the top 10 emoticons.

Table 4. Top 10 Emoticons (Non-V Users)

No.	Emoticons	Frequency
1	[[泪]] / [[Tear]]	6000
2	[[心]] / [[Heart]]	4206
3	[[哈哈]] / [[Laugh at sth.]]	2522
4	[[拜拜]] / [[Bye]]	1287
5	[[怒]] / [[Angry]]	989
6	[[good]] / [[good]]	943
7	[[衰]] / [[Shit]]	893
8	[[话筒]] / [[MIC]]	885
9	[[嘻嘻]] / [[Hee Hee]]	868
10	[[偷笑]] / [[Titter]]	857

If we check the frequency of emoticons per months (Table 5, Figure 3), we will find that:

2.3.1 The frequency of the icon “ [[Tear]] ” ([[泪]]) and “ [[Heart]] ” ([[心]]) increased rapidly in August

The main reason is the spreading of Ebola from Africa. There are mainly two kinds of feelings towards the virus.

One of the feelings is represented by the icon “ [[Tear]] ” ([[泪]]). The icon means sympathy for those who are suffering from the virus and fear of the spreading of Ebola. Some tweets also mentioned SARS, a virus spread rapidly in 2003 in China.

The other feeling is represented by the icon “ [[Heart]] ” ([[心]]). This icon means love or good feelings, and is used very popular in the tweets mentioning the Chinese medical teams ready to head to Africa to fight with Ebola. Among these tweets, one picture was retweeted again and again. The picture shows a Chinese doctor kissing

goodbye with his wife at the airport in Beijing. After that, he will head to Africa to provide medical aids to those who are suffering from Ebola with his colleagues.

2.3.2 The dominant sensations during March and July is negative

If we look at the data during March and July, we will find the dominant sensations is negative. The most popular icons are the sad “ 😭 [Tear] ” (😭 [Tear]) and the irony 😏 [Laugh at sth.] (😏 [Laugh at sth.]) (Figure 4).

For example, the icon “ 😭 [Tear] ” (😭 [Tear]) usually is used in the tweets mentioning the illegal hunting of elephants, and the story of a mother Pangolin, who protected her baby till die. Both tweets criticize the cruelty of human beings.

Table 5. Top 10 Emoticons per month (Mar-Aug, 2014)

	[[Tear]]	[[Heart]]	[[Laugh at sth.]]	[[Bye]]	[[Angry]]	[[good]]	[[Shit]]	[[MC]]	[[Hee Hee]]	[[Titter]]
Mar	139	63	240	24	99	44	47	83	86	87
Apr	403	67	595	20	239	52	82	74	87	163
May	488	84	483	210	233	59	63	420	150	157
Jun	360	132	459	633	131	90	146	71	171	191
Jul	226	65	373	189	114	54	361	133	130	113
Aug	4384	3795	372	211	173	644	194	104	244	146

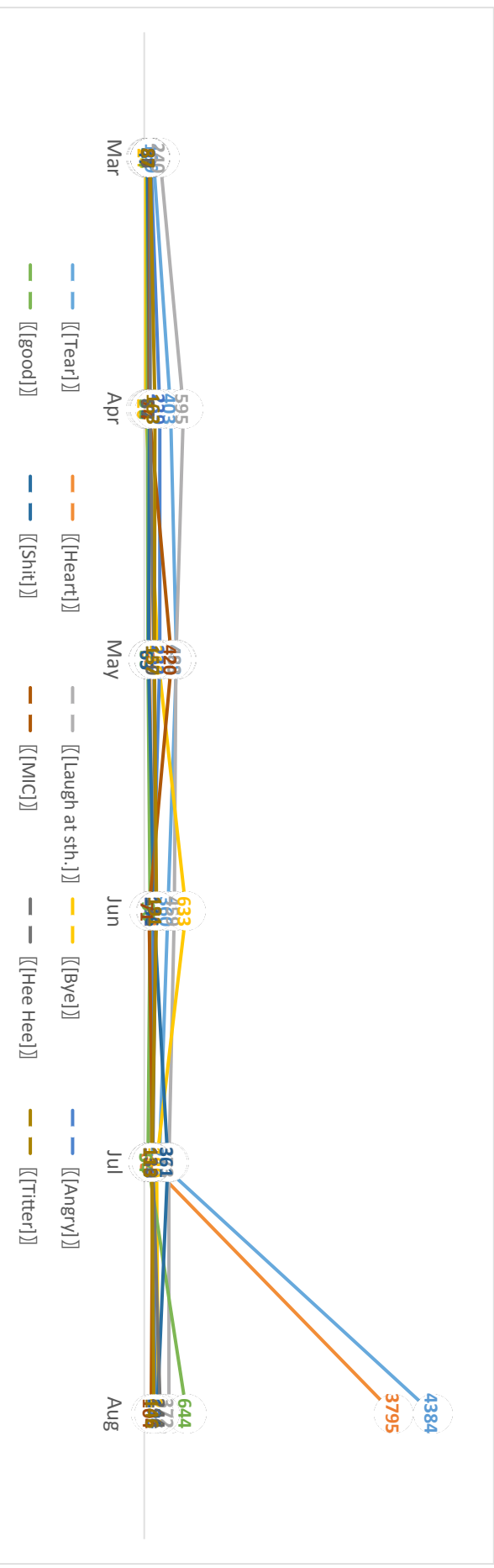


Figure 3. Top 10 Emoticons per month (Mar-Aug, 2014)

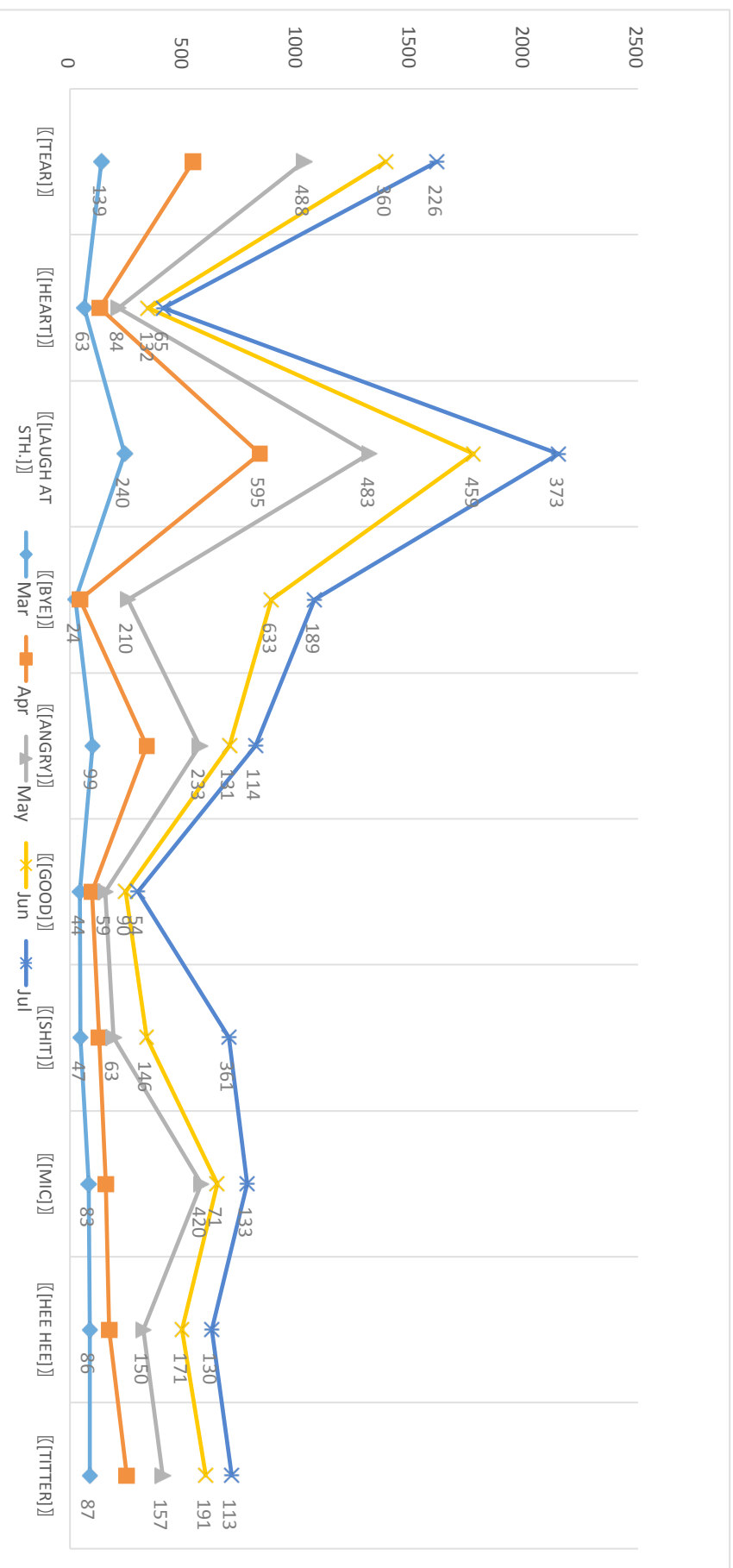


Figure 4. Top 10 Emoticons per month (Mar-July, 2014)

2.4 Differences between Non-V users and V users

Meanwhile, there are obvious differences between Non-V users and V users.

Firstly, V users focus on the Sino-Africa relationship issues, and Non-V users always focus on crimes and Jokes. Table 6 shows the most frequent issues from both V users and Non-V users.

Table 6. Top 10 issues from both V users and Non-V users (by Frequency)

	V users	Non-V users
1	李克强/ Li Keqiang	男人/ Men
2	埃博拉/ Ebola	象牙/ Ivory
3	美国/ USA	大象/ Elephant
4	经济/ Economy	美国/ USA
5	中国人/ Chinese	中国人/ Chinese
6	铁路/ Railway	埃博拉/ Ebola
7	中非/ Sino-Africa	印度/ India
8	投资/ Investment	欧洲/ Europe
9	项目/ Project	钱/ Money
10	病毒/ Virus	病毒/ Virus

For example, as to the V users, the most popular tweets are about the news of Chinese Premier Li Keqiang's trip to Africa. And the most popular issue among Non-V users is a joke talking about men's different standard of beauty in different cultures. Speaking of the Premier Li's trip to Africa, V users and Non-V users have different points on this topic (Table 7).

V users focus on the terms "co-operation", "Project", "Development" and "Enterprise", most of the tweets think the Li's trip to Africa will bring new economic co-operation and business opportunities between China and Africa.

Non-V users focus on the terms "co-operation", "Aid", "Stadium" and "Cheng Hong" (Premier Li's Wife). When they talk about the term "Stadium", they quote the famous saying from Juan Antonio Samaranch, the former International Olympic Committee Chief, "China built the best stadiums in Africa, not in China"("中国最好的体育馆在非洲").

Table 7. Different Point on Topic "Li Keqiang" between Verified and Non-V users

	V users	Non-V users
	Topic 41	Topic 36
1	"\李克强 Li Keqiang\","	"\李克强 Li Keqiang\","
2	"\总理 Premier\","	"\总理 Premier\","
3	"\合作 Co-operation\","	"\访问 Visit \","
4	"\国务院 the State Council of PRC.\","	"\合作 Co-operation\","
5	"\中非 Sino-Africa\","	"\中非 Sino-Africa\","
6	"\项目 Project\","	"\夫人 Wife \","
7	"\发展 Development\","	"\援建 Aid \","
8	"\访问 Visit \","	"\出访 Visit \","
9	"\企业 Enterprise \","	"\体育馆 Stadium\","
10	"\世界 Global\","	"\程虹 Cheng Hong \","

Secondly, Non-V users would like to use more emoticons than V users (Table 8). Totally speaking, the frequency of Non-V users are about 1.5 times more than V users.

Table 8. Emoticons Usage of Non-V Users and V Users

Emoticons	V users	Non-V users
Amounts	173	369
Total Frequency	3159	34961
% of Total Terms	0.00094	0.00138

3. Findings

As to the Sina Weibo Non-V users, there are two dimensions they view Africa: the others and the mirrors.

3.1 Africa as the Others

To most Sina Weibo Non-V users, Africa is a remote continent bringing both opportunities and threats.

3.1.1 Opportunities

Africa is viewed both as a rising market and a continent with abundant resources by the social media users. When they talked about the topics of Sino-Africa Co-operations, there are keywords such as “railway”, “high-speed rail”, “minerals” and “petroleum” (Table 9).

Table 9. Topics about Sino-Africa Co-operations (Non-V Users)

Topic 2	Topic 15
1 "\援非 Aid to Africa \","	"\铁路 Railway \","
2 "\亿美元 \$ 100 Million \","	"\东非 East Africa \","
3 "\全球 Global \","	"\建设 Build \","
4 "\矿产 Minerals \","	"\李克强 Li Keqiang \","
5 "\高铁 High-speed Rail \","	"\肯尼亚 Kenya \","
6 "\中心 Center \","	"\合作 Cooperation \","
7 "\黑 vicious \","	"\总统 President \","
8 "\企业 Enterprise \","	"\总理 Premier \","
9 "\石油 Petroleum \","	"\协议 Protocol \","
10 "\美 USA \","	"\非洲人 African \","

3.1.2 Threats

There are two kinds of threats discussed by the social media users.

Firstly, there are threats from the Africans travelling to China. Some of Non-V users claimed that those Africans living in Guangzhou had threatened the city’s public health. One of charges is the increasing spread of drug trade, which is supposed to have links with the increase of African populations in Guangzhou (Table 10, Topic 13).

Such online opinions are also very popular in other Chinese online communities. Figure 5 shows a post from bbs.tiexue.net(铁血社区) which amounts to 22021 clicks. The post claims that the problems caused by those Africans who live in Guangzhou, is threatening the security of China and its race.



论谁能真正消灭中国？

Figure 5. A post from bbs.tiexue.net

Secondly, there are threats from invasive alien animals and plants. Topic 30 (Table 10) show the worry about the invasion of *Achatina Flica*, which might cause food-borne diseases.

Table 10. Threats Discussed by Non-V Users

	Topic 13	Top30
1	"非洲人 African \","	"非洲大蜗牛 Achatina Flica \","
2	"广州 Guangzhou \","	"入侵 Invasion \","
3	"犯罪 Crime \","	"吃 Eat \","
4	"非法 Illegally \","	"传播 Spreading \","
5	"中国人 Chinese \","	"物种 Species \","
6	"毒品 Drug \","	"吃货 Foodie \","
7	"日本 Japan \","	"福州 Fuzhou \","
8	"滞留 Retention \","	"蜗牛 Snail \","
9	"黑人 The Black \","	"危害 Endanger \","
10	"警察 Policeman \","	"强 Powerful \","

3.2 Africa as the Mirrors

To some of Non-V users, when they talk about Africa, they actually want to talk about the domestic issues in China.

3.2.1 The Ugly Chinaman

Since Bo Yang claimed the ugly Chinaman in his famous book *The Ugly Chinaman and the Crisis of Chinese Culture*, the ugly Chinaman become a popular perspective for Chinese to judge themselves.

Among the most popular tweets, there are at least two kinds of Chinese image, one is the Chinese people involved in the illegal ivory trade, the other is the Chinese merchants involved in the infighting scandals(“窝里斗”) in Africa.

Firstly, the Chinese people involved in illegal ivory trade. Such charges are directed to the illegal hunting of elephants. One of the tweets also charged the links between illegal ivory trade and the terrorism.

Secondly, the Chinese merchants involved in the infighting scandals in Africa. One of the tweets says that a Chinese ambassador list various wrong doings of Chinese merchants in Africa. Besides the infighting scandals, those merchants break the local laws, which cause the hostilities towards Chinese from local people.

3.2.2 Poverty, Corruptions and Inequalities in China (Mainland)

To the Non-V users, China’s aids to Africa, remind them of the domestic poverty. They criticize the government’s foreign policy and claim the government should pay more attention to domestic issues.

Such tweets claiming “This is China, NOT Africa!” has developed as a slogan. Related with such a slogan, there are two dominant topics: public endowment service and public education service. Among both topics, the main points are directed to the absence of government support.

Figure 6 shows the kids from remote countryside, and the extremely poor conditions of their livelihood and educations.



Figure 6. A tweet demonstrating the extreme poverty in countryside

Meanwhile, the Non-V users contribute the domestic poverty to the corruptions and inequalities in China. A popular tweet complains that the Chinese government offers

money to other countries (such as USA, Africa and DPRK), to government officials, to kept woman(二奶), to the second generation of China's rich(富二代), but never to Chinese people.

3.3.3 Food safety issues in China (Mainland)

There are two pieces of popular tweets related with the food safety issues.

The first one is a joke. The joke tells a story: one day, a young lion was not sure if he had eaten a Chinese. His mother and he were very scare of the food safety, since it is said that Chinese people has eaten too much food additive. The Father lion told them to relax, because those Chinese who could travel to Africa had the privileges to consume the green food by special provision.

The second one criticizes the GMF (Genetically Modified Foods) policy in China, which claims that "American do not eat GMF, EU prohibit GMF, and even African would rather starve to death rather than eat GMF".

Appendix 1.

Topic Models 1 (Non-V users)

	Topic 1	Topic 2	Topic 3	Topic 4
1	"\中国人 Chinese \","	"\援非 Aid to Africa \","	"\音乐 Music \","	"\埃博拉 Ebola \","
2	"\官员 Officials \","	"\亿美元 \$ 100 Million \","	"\流行 Popular \","	"\病毒 Virus \","
3	"\解决 Resolve \","	"\全球 Global \","	"\美国 USA \","	"\组织 Organization \","
4	"\援助 Aid \","	"\矿产 Minerals \","	"\节目 Program \","	"\高 High \","
5	"\塞钱 Bribe \","	"\高铁 High-speed Rail \","	"\广场舞 Square Dance \","	"\死亡 Death \","
6	"\情况 Conditions \","	"\中心 Center \","	"\歌 Song \","	"\死亡率 Death Ratio \","
7	"\首都 Capital \","	"\黑 vicious \","	"\根源 Origin \","	"\世卫 WHO \","
8	"\津巴布韦 Zimbabwe \","	"\企业 Enterprise \","	"\歌手 Singer \","	"\症状 Symptom \","
9	"\经济 Economy \","	"\石油 Petroleum \","	"\排斥 Repel \","	"\凶猛 Ferocity \","
10	"\查 Investigate \","	"\美 USA \","	"\捐献 Donation \","	"\感染 Infection \","

	Topic 5	Topic 6	Topic 7	Topic 8
1	"\埃博拉 Ebola \","	"\ iPhone \","	"\穿山甲 Pangolin \","	"\美国 USA \","
2	"\疫情 Epidemic \","	"\购买 Purchase \","	"\躯体 Body \","	"\上帝 The God \","
3	"\几内亚 Guinea \","	"\三星 Samsung \","	"\中国人 Chinese \","	"\日本 Japan \","
4	"\医生 Doctor \","	"\消费者 Consumer \","	"\孩子 Kids \","	"\信 Believe in \","
5	"\医疗队 Medical Team \","	"\智能手机 Smart Phone \","	"\力 Power \","	"\基督教 Christian \","
6	"\援非 Aid to Africa \","	"\巴西 Brazil \","	"\生命 Life \","	"\宪法 Constitution \","
7	"\专家 Experts \","	"\苹果 Apple \","	"\当地人 Local \","	"\宗教 Religion \","
8	"\平安 Safty \","	"\调查 Investigation \","	"\感动 Move \","	"\形象 Image \","
9	"\归来 Come back \","	"\品牌 Brand \","	"\拉开 Pull \","	"\企业 Enterprise \","
10	"\心 Heart \","	"\越南 Vietnam \","	"\放弃 Give up \","	"\尊重 Respect \","

	Topic 9	Topic 10	Topic 11	Topic 12
1	"\毛泽东 Mao Zedong \","	"\产品 Product \","	"\吃 Eat \","	"\女生 Girl \","
2	"\印度 India \","	"\本事 Talents \","	"\女性 Female \","	"\路线 Route \","
3	"\美国 USA \","	"\考察 Investigate \","	"\弟弟 Younger Brother \","	"\alevel \","
4	"\朋友 Friend \","	"\ Facebook \","	"\美国 USA \","	"\西方 The West \","
5	"\压力 Pressure \","	"\石油 Petroleum \","	"\钱 Money \","	"\批评 Criticize \","
6	"\开 Hold \","	"\手机 Mobile \","	"\割礼 Circumcision \","	"\兴起 Rise \","
7	"\印度人 Indian \","	"\韩国 Korea \","	"\大爱 Great Love \","	"\成吉思汗 Genghis Khan \","
8	"\选手 Candidate \","	"\队伍 Team \","	"\官员 Official \","	"\历史 History \","
9	"\利比里亚 Liberia \","	"\送 Send \","	"\航空 Air \","	"\王国 Kingdom \","
10	"\钱 Money \","	"\储备 Reserves \","	"\二奶 Kept woman \","	"\世界 Global \","

	Topic 13	Topic 14	Topic 15	Topic 16
1	"\非洲人 African \","	"\世界杯 The World Cup \","	"\铁路 Railway \","	"\毒品 Drugs \","
2	"\广州 Guangzhou \","	"\西班牙 Spain \","	"\东非 East Africa \","	"\晒 Bask \","
3	"\犯罪 Crime \","	"\夺冠 Win \","	"\建设 Build \","	"\新型 New Type \","
4	"\非法 Illegally \","	"\足球 Football \","	"\李克强 Li Keqiang \","	"\茶叶 Tea \","
5	"\中国人 Chinese \","	"\日本 Japan \","	"\肯尼亚 Kenya \","	"\效果 Effect \","
6	"\毒品 Drug \","	"\热门 Favorite \","	"\合作 Cooperation \","	"\吃 Eat \","
7	"\日本 Japan \","	"\球队 Team \","	"\总统 President \","	"\产 Produce \","
8	"\滞留 Retention \","	"\喀麦隆 Cameroon \","	"\总理 Premier \","	"\毒 Poison \","
9	"\黑人 The Black \","	"\德国 Germany \","	"\协议 Protocol \","	"\狮子 Lion \","
10	"\警察 Policeman \","	"\荷兰 Netherlands \","	"\非洲人 African \","	"\生 Raw \","

	Topic 17	Topic 18	Topic 19	Topic 20
1	"\卖 Sell \","	"\全球 Global \","	"\欧洲 Europe \","	"\中国人 Chinese \","
2	"\世界 Global \","	"\亿美元 US\$ 100 Million \","	"\马航 MAS \","	"\非洲人 African \","
3	"\德国人 German \","	"\开发 Develop \","	"\海上 over the sea \","	"\李克强 Li Keqiang \","
4	"\兄弟 Brother \","	"\海军 Navy \","	"\环境 Environment \","	"\增长 Increase \","
5	"\设计 Design \","	"\市场 Market \","	"\乌克兰 Ukraine \","	"\垃圾 Garbage \","
6	"\美国人 American \","	"\协议 Protocol \","	"\部长 Minister \","	"\世界 Global \","
7	"\日本 Japan \","	"\中国人 Chinese \","	"\城 City \","	"\垃圾 Garbage \","
8	"\开发 Develop \","	"\世界 Global \","	"\失联 Disappear \","	"\高铁 High-speed Rail \","
9	"\贴 Paste \","	"\基础 Base \","	"\马来西亚 Malaysia \","	"\经济 Economy \","
10	"\日本人 Japanese \","	"\项目 Project \","	"\大陆 Mainland \","	"\铁路 Railway \","

	Topic 21	Topic 22	Topic 23	Topic 24
1	"\美国 USA \","	"\象牙 Ivory \","	"\马里 Mali \","	"\埃博拉 Ebola \","
2	"\奥巴马 Obama \","	"\大象 Elephant \","	"\世界杯 the World cup \","	"\病毒 Virus \","
3	"\埃博拉 Ebola \","	"\购买 purchase \","	"\中国队 China Team \","	"\感染 Infect \","
4	"\投资 Invest \","	"\印度 India \","	"\强 Powerful \","	"\疫情 Epidemic \","
5	"\领导人 Leader \","	"\狮子 Lion \","	"\球队 Team \","	"\西非 West Africa \","
6	"\建议 Suggestion \","	"\非法 Illegal \","	"\足球 Football \","	"\医生 Doctor \","
7	"\中医 Chinese medicine \","	"\制品 Production \","	"\球员 Player \","	"\隔离 Quarantine \","
8	"\亿美元 US\$100 Million \","	"\民主 Democracy \","	"\比赛 Match \","	"\工作 work \","
9	"\钱 Money \","	"\人口 Population \","	"\欧洲 Europe \","	"\接触 Contact \","
10	"\合作 Co-operation \","	"\平均 Average \","	"\男足 Man's Football \","	"\死亡 Death \","

	Topic 25	Topic 26	Topic 27	Topic 28
1	"\大使 Ambassador \","	"\男人 Men \","	"\泪 Tear \","	"\农村 Rural Area \","
2	"\精灵 Eidolon \","	"\美国 USA \","	"\这不是 This is not \","	"\消费 Consume \","
3	"\植物 Plant \","	"\印度 India \","	"\社会 Society \","	"\老人 The Old \","
4	"\飞 Fly \","	"\英国 England \","	"\世界 Global \","	"\钱 Money \","
5	"\坦桑尼亚 Tanzania \","	"\美 Beauty \","	"\遗忘 Forget \","	"\难 Be difficult to \","
6	"\地中海 the Mediterranean \","	"\法国 France \","	"\难民 Refugee \","	"\回 come Back \","
7	"\音 Sound \","	"\宽 Wide \","	"\资源 resource \","	"\回家 come home \","
8	"\虫 Insects \","	"\眼睛 Eye \","	"\缺 Lack \","	"\放 place \","
9	"\得名 (be) named \","	"\皮肤 Skin \","	"\ GDP \","	"\食 food \","
10	"\长 Length \","	"\标准 standard \","	"\福利 Welfare \","	"\分 Share \","

	Topic 29	Topic 30	Topic 31	Topic 32
1	"\中国人 Chinese \","	"\非洲大蜗牛 Achatina Flica \","	"\女孩 Girl \","	"\埃博拉 Ebola \","
2	"\文明 Civilization \","	"\入侵 Invasion \","	"\嫁 Marry \","	"\病毒 Virus \","
3	"\亚洲 Asia \","	"\吃 Eat \","	"\孩子 Kids \","	"\基因 Gene \","
4	"\全世界 Global \","	"\传播 Spreading \","	"\抢 Rob \","	"\专家 Expert \","
5	"\杀 Kill \","	"\物种 Species \","	"\文化 Culture \","	"\能力 Ability \","
6	"\欧美 Europe and America \","	"\吃货 Foodie \","	"\飞 Fly \","	"\疫情 Epidemic \","
7	"\风险 Risk \","	"\福州 Fuzhou \","	"\欧洲 Europe \","	"\援助 Aid \","
8	"\生命 Life \","	"\蜗牛 Snail \","	"\毛里求斯 Mauritius \","	"\检测 Detect \","
9	"\保障 Insurance \","	"\危害 Endanger \","	"\索马里 Somalia \","	"\研发 Research and Develop \","
10	"\原则 Principle \","	"\强 Powerful \","	"\中华 China \","	"\物资 Material \","

	Topic 33	Topic 34	Topic 35	Topic 36
1	"\中国人 Chinese \","	"\永春白鹤拳 The Yongchun White Crane Fist \","	"\象牙 Ivory \","	"\李克强 Li Keqiang \","
2	"\抢 Rob \","	"\美国 USA \","	"\大象 Elephant \","	"\总理 Premier \","
3	"\强大 Powerful \","	"\泰国 Thailand \","	"\大陆 Mainland \","	"\访问 Visit \","
4	"\回国 Back Home \","	"\印度 India \","	"\盗猎 Poach \","	"\合作 Co-operation \","
5	"\黑人 Black People \","	"\马来西亚 Malaysia \","	"\转发 Retweet \","	"\中非 Sino-Africa \","
6	"\杀 Kill \","	"\回到 Come Back \","	"\购买 Purchase \","	"\夫人 Wife \","
7	"\华工 Chinese Labor \","	"\闯荡 Make a living away from home \","	"\买卖 Business \","	"\援建 Aid \","
8	"\美国人 American \","	"\风情 Local Ethnic Flavor \","	"\杀害 Kill \","	"\出访 Visit \","
9	"\杀死 Kill \","	"\系列 Series \","	"\拒绝 Refuse \","	"\体育馆 Stadium \","
10	"\工厂 Factory \","	"\描述 Description \","	"\泪 Tear \","	"\程虹 Cheng Hong \","

	Topic 37	Topic 38	Topic 39	Topic 40
1	"\法师 Master \","	"\美国 USA \","	"\感慨 Lament \","	"\美国 USA \","
2	"\佛教 Buddhism \","	"\欧洲 Europe \","	"\免费 Free \","	"\历史 History \","
3	"\报告 Report \","	"\世界 Global \","	"\中国人 Chinese \","	"\西方 the West \","
4	"\参访 Visit \","	"\中国人 Chinese \","	"\阿联酋 The United Arab Emirates \","	"\成吉思汗 Genghis Khan \","
5	"\交流 Exchange \","	"\吃 Eat \","	"\乌克兰 Ukraine \","	"\世界 Global \","
6	"\世界 Global \","	"\毛里求斯 Mauritius \","	"\阅读 Reading \","	"\世界杯 the World cup \","
7	"\文化 Culture \","	"\大陆 Mainland \","	"\欧洲 Europe \","	"\英国 England \","
8	"\美国 USA \","	"\狮 Lion \","	"\钱 Money \","	"\殖民 Colonize \","
9	"\发展 Develop \","	"\冈比亚 Gambia \","	"\援助 Aid \","	"\毛里求斯 Mauritius \","
10	"\欧洲 Europe \","	"\面积 Area \","	"\送 Offer \","	"\英 England \","

	Topic 41	Topic 42	Topic 43	Topic 44
1	"\孩子 Kids \","	"\学生 Student \","	"\大陆 Mainland \","	"\广州 Guangzhou \","
2	"\学生 Student \","	"\美国 USA \","	"\哈哈 ha ha ha \","	"\非洲人 African \","
3	"\小学 Elementary School \","	"\短缺 Shortage \","	"\马达加斯加 Madagascar \","	"\亚洲 Asia \","
4	"\背 Carry \","	"\食物 Food \","	"\南非 South Africa \","	"\黑人街 the Black Street \","
5	"\经济 Economy \","	"\日本 Japan \","	"\拜拜 Bye-bye \","	"\哈哈 ha ha ha \","
6	"\老师 Teacher \","	"\欧洲 European \","	"\死 Death \","	"\右 right \","
7	"\项目 project \","	"\国际 International \","	"\恩 Well \","	"\时间 Time \","
8	"\教育 Education \","	"\老师 Teacher \","	"\草泥马 Fuck \","	"\商人 Merchant \","
9	"\部长 Minister \","	"\大陆 Mainland \","	"\塞浦路斯 Cyprus \","	"\喝酒 Drink \","
10	"\贵 Expensive \","	"\学校 School \","	"\斯里兰卡 Sri Lanka \","	"\聊天 Chat \","

	Topic 45	Topic 46	Topic 47	Topic 48
1	"\穿山甲 Pangolin \","	"\转基因 GMF \","	"\美国 USA \","	"\经济 Economy \","
2	"\中华 China \","	"\严禁 Prohibit \","	"\欧洲 Europe \","	"\民主 Democracy \","
3	"\保护 Protect \","	"\食品 Food \","	"\世界 the World \","	"\加纳 Ghana \","
4	"\提升 Promote \","	"\禁止 Forbid \","	"\大陆 Continent \","	"\上海 Shanghai \","
5	"\现状 Status quo \","	"\美国 USA \","	"\亚洲 Asia \","	"\杜波依斯 Du Bois \","
6	"\香港 Hong Kong \","	"\农业部 Ministry of Agriculture \","	"\南苏丹 South Sudan \","	"\孩子 Kids \","
7	"\等级 Rank \","	"\市场 Market \","	"\日本 Japan \","	"\谣言 Rumor \","

8	"\"市场 Market \","	"\"官员 Official \","	"\"中国人 Chines \","	"\"模式 Model \","
9	"\"胜利 Victory \","	"\"吃 Eat \","	"\"坦桑尼亚 Tanzania \","	"\"自由 Freedom \","
10	"\"全球 Global \","	"\"穿山甲 Pangolin \","	"\"面积 Area \","	"\"转基因 GMF \","

	Topic 49	Topic 50
1	"\"援助 Aid \","	"\"病毒 Virus \","
2	"\"钱 Money \","	"\"埃博拉 Ebola \","
3	"\"人民 People \","	"\"卫计委 NHFPC ² \","
4	"\"对外 Foreign \","	"\"生产 Produce \","
5	"\"政府 Government \","	"\"基因 Gene \","
6	"\"亿元 100 Million Yuan \","	"\"美国 USA \","
7	"\"亚洲 Asia \","	"\"跪 Kneel down \","
8	"\"欧洲 Europe \","	"\"屌 Dick \","
9	"\"增长 Increase \","	"\"治疗 Treat \","
10	"\"提供 Provide \","	"\"司长 Director \","

Software: R Core Team (2014). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria.
URL <http://www.R-project.org/>.

² NHFPC: National Health and Family Planning Commission (NHFPC) of the People's Republic of China.

Appendix 2

Topic Models 2(V users)

	Topic 1	Topic 2	Topic 3	Topic 4
1	"\中国人 Chinese\","	"\野性 Wildness\","	"\中国人 Chinese\","	"\美国 USA\","
2	"\西方 the West\","	"\美国 USA\","	"\文明 Civilization\","	"\难民 Refugee\","
3	"\民主 Democracy\","	"\毛里求斯 Mauritius\","	"\抢 Rob\","	"\利益 Interest\","
4	"\世界 Global\","	"\世界 the World\","	"\杀 Kill\","	"\政治 Politics\","
5	"\美国 USA\","	"\体验 Experience\","	"\黑人 the Black\","	"\英国 England\","
6	"\狮子 Lion\","	"\生 Raw\","	"\回国\","	"\爱 Love\","
7	"\生活 Life\","	"\旅游 Tour\","	"\越南 Vietnam\","	"\发展 Develop\","
8	"\工资 Salary\","	"\全球 the Global\","	"\公益 commonweal\","	"\移民 Immigrate\","
9	"\印度 India\","	"\异域 Foreign Lands\","	"\欧美 Europe-America\","	"\原因 Reason\","
10	"\制度 institution\","	"\原始 Primitive\","	"\强大 Powerful\","	"\经济 Economy\","

	Topic 5	Topic 6	Topic 7	Topic 8
1	"\世界 Global\","	"\埃博拉 Ebola\","	"\狮 Lion\","	"\印度 India\","
2	"\美国 USA\","	"\死亡 Death\","	"\中国人 Chinese\","	"\展\","
3	"\香港 Hong Kong\","	"\感染 Infection\","	"\世界 the World\","	"\刚果 Congo\","
4	"\全球 Global\","	"\利比里亚 Liberia\","	"\绿色 Green\","	"\国际 International \","
5	"\活动 Activity\","	"\塞拉利昂 Sierra Leone \","	"\扛 Hold\","	"\飞 Fly\","
6	"\接受 Accept\","	"\奥巴马 Obama\","	"\妈妈 Mother\","	"\兄弟 Brother\","
7	"\经济体 Economy\","	"\西非 West Africa\","	"\打猎 Hunt\","	"\英国 England\","
8	"\高度 Very much\","	"\病毒 Virus\","	"\怕 Fear\","	"\市场 Market\","
9	"\外媒 Foreign Media\","	"\医疗队 Medical Team \","	"\住 Live\","	"\政府 Government\","
10	"\保护 Protect\","	"\几内亚 Guinea\","	"\未成年 Underage\","	"\布 Cloth\","

	Topic 9	Topic 10	Topic 11	Topic 12
1	"\智能手机 Smart Phone\","	"\学生 Student\","	"\增长 Growth\","	"\丝绸之路 Silk Road\","
2	"\消费者 Consumer\","	"\企业 Enterprise\","	"\经济 Economy\","	"\孩子 Kids\","
3	"\购买 Purchase\","	"\形象 Image\","	"\能力 Ability\","	"\企业 Enterprise\","
4	"\全球 Global\","	"\调查 investigate\","	"\目标 Target\","	"\贸易 Trade\","
5	"\巴西 Brazil\","	"\南非 South Africa\","	"\高速 High Speed \","	"\古代 Ancient\","
6	"\印度 India\","	"\看法 View\","	"\世界 the World\","	"\欧洲 Europe\","
7	"\品牌 Brand\","	"\食物 Food\","	"\时间 Time\","	"\亚洲 Asia\","
8	"\调查 Investigation\","	"\产品 Product\","	"\长 Grow\","	"\合作 Co-operation\","
9	"\手机 Mobile\","	"\高 High\","	"\高 High\","	"\肯尼亚 Kenya\","
10	"\统计 statistics\","	"\短缺 Shortage\","	"\峰 Summit\","	"\石油 Petroleum \","

	Topic 13	Topic 14	Topic 15	Topic 16
1	"\中非 Sino-Africa\","	"\欧洲 Europe\","	"\市场 Market\","	"\印度 India\","
2	"\合作 Cooperate\","	"\面积 Area\","	"\网友 Netizen\","	"\发展 Develop\","
3	"\投资 Invest\","	"\大陆 Mainland\","	"\生命 Life\","	"\美国 USA\","
4	"\工程 Project \","	"\自然 Nature\","	"\身体 Body\","	"\电影 Film\","
5	"\发展 Develop\","	"\世界 the World\","	"\难 be difficult to\","	"\世界 Global\","
6	"\实施 Implement\","	"\文化 Culture\","	"\故事 Story\","	"\泰国 Thailand\","
7	"\贸易 Trade\","	"\地中海 the Mediterranean\","	"\花 Flower\","	"\马来西亚 Malaysia\","
8	"\演讲 Speech\","	"\优雅 Grace\","	"\超越 Surpass\","	"\系列 Series\","
9	"\关系 Relationship\","	"\拍 Take (a picture) \","	"\永 Forever\","	"\俄罗斯 Russia\","

10	"亿美元 US\$ 100 Million\","	"风光 Scene\","	"关系 Relationship\","	"地域 Area\","
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	Topic 17	Topic 18	Topic 19	Topic 20
1	"疫情 Epidemic\","	"男人 Man\","	"习近平 Xi Jinping\","	"中国人 Chinese\","
2	"医生 Doctor\","	"美国 USA\","	"国际 International\","	"官员 Officials\","
3	"医疗队 Medical Team\","	"日本 Japan\","	"经济 Economy\","	"解决 Resolve\","
4	"援非 Aid to Africa\","	"法国 France\","	"投资 Invest\","	"钱 Money\","
5	"几内亚 Guinea\","	"美 Beauty\","	"纳米比亚 Namibian\","	"国内 Domestic \","
6	"埃博拉 Ebola\","	"标准 Standard\","	"资源 Resource\","	"阿尔及利亚 Algeria \","
7	"专家 Expert\","	"美女 Beauty \","	"日本 Japan\","	"情况 Condition\","
8	"医疗 Therapy \","	"眼睛 Eye\","	"能源 Energy resources \","	"合作 Cooperate\","
9	"北京 Beijing\","	"宽 Wide\","	"美国 USA\","	"媒体 Media\","
10	"机场 Airport\","	"个性 Character\","	"社会 Society\","	"航线 Air Route\","

	Topic 21	Topic 22	Topic 23	Topic 24
1	"津巴布韦 Zimbabwe\","	"尼日利亚 Nigeria\","	"小伙 Young Man\","	"非洲人 African\","
2	"支持 Support\","	"机场 Airport\","	"回 Come Back\","	"广州 Guangzhou\","
3	"住 Live\","	"城市 City\","	"吃 Eat\","	"黑人 the Black \","
4	"总统 President\","	"部长 Minister\","	"网友 Netizen\","	"犯罪 Criminal\","
5	"孩子 Children\","	"抵达 Arrive\","	"民族 Nation\","	"非法 Illegal\","
6	"文化 Culture\","	"结束 End\","	"传播 propagate \","	"媒体 Media\","
7	"中国人 Chinese\","	"铁路 Railway\","	"物种 Species\","	"超过 Surpass\","
8	"美国 USA\","	"访问 Visit\","	"价格 Price\","	"美国 USA\","
9	"研讨会 Workshop\","	"晚 Late\","	"市场 Market\","	"日本 Japan\","
10	"首都 Capital\","	"亿美元 US\$ 100 Million\","	"动物 Animal\","	"总统 President\","

	Topic 25	Topic 26	Topic 27	Topic 28
1	"埃博拉 Ebola\","	"开发 Develop\","	"象牙 Ivory\","	"海军 Navy\","
2	"病毒 Virus\","	"项目 Project\","	"大象 Elephant\","	"南非 South Africa\","
3	"组织 Organization\","	"协议 Protocol\","	"大陆 Mainland\","	"编队 Formation\","
4	"高 High\","	"全球 the Global\","	"象 Elephant\","	"护航 Escort\","
5	"死亡 Death\","	"市场 Market\","	"购买 Purchase\","	"访问 Visit\","
6	"治疗 Treat\","	"亿美元 US\$ 100 Million \","	"数量 Quantity\","	"开普敦 Cape Town\","
7	"病例 Case of Illness\","	"日本 Japan\","	"下降 Fall\","	"交流 Exchange\","
8	"预防 Prevent\","	"规模 Scale\","	"趋势 Trend\","	"证明 Prove\","
9	"感染 Infect\","	"达成 Reach (agreement)\","	"动物 Animal\","	"北京 Beijing\","
10	"尚 Still\","	"基础 Base\","	"地球 the Earth\","	"港 Port\","

	Topic 29	Topic 30	Topic 31	Topic 32
1	"塞舌尔 Seychelles\","	"亚洲 Asia\","	"世界杯 the World Cup\","	"铁路 Railway\","
2	"志愿者 Volunteer\","	"南非 South Africa\","	"西班牙 Spain\","	"埃塞俄比亚 Ethiopia\","
3	"计划 Plan\","	"非洲人 African\","	"足球 Football\","	"中心 Center\","
4	"项目 Project\","	"世界 the World\","	"球队 Team\","	"航空 Air\","
5	"服务 Service\","	"出口 Export\","	"喀麦隆 Cameroon \","	"非盟 the African Union \","
6	"海外 Overseal\","	"市场 Market\","	"访问 Visit\","	"研发 Research and develop\","

7	"\青年 Youth\","	"\广州 Guangzhou\","	"\实力 Ability\","	"\中方 Chinese Side\","
8	"\志愿 Volunteer\","	"\超过 Surpass\","	"\巴西 Brazil\","	"\高铁 Highspeed Rail\","
9	"\条件 Condition\","	"\黑人 the Black People\","	"\日本 Japan\","	"\装备 Equipment\","
10	"\广州 Guangzhou\","	"\单 Bill\","	"\荷兰 Netherlands\","	"\发展 Develop\","

	Topic 33	Topic 34	Topic 35	Topic 36
1	"\美国 USA\","	"\欧洲 Europe\","	"\晒 Basket\","	"\钱 Money\","
2	"\投资 Invest\","	"\环境 Environment\","	"\新型 New Type\","	"\农村 Rural Area\","
3	"\奥巴马 Obama\","	"\酒店 Hotel\","	"\产 produce\","	"\消费 Consume\","
4	"\亿美元 US\$ 100 Million\","	"\世界 the World\","	"\吃 Eat\","	"\欧洲 Europe\","
5	"\美 USA\","	"\国际 International\","	"\生 Raw\","	"\外国 Foreign\","
6	"\领导人 Leader\","	"\地图 Map\","	"\毒 Poison\","	"\赞 Praise\","
7	"\峰会 Summit Meeting\","	"\组织 Organization\","	"\新鲜 Fresh\","	"\大学 University\","
8	"\项目 Project\","	"\合作 Cooperate\","	"\阿拉伯 Arab\","	"\教育 Education\","
9	"\建议 Suggestion\","	"\移民 Immigration\","	"\提醒 Remind\","	"\投资 Invest\","
10	"\计划 Plan\","	"\沙漠 Desert\","	"\难 Difficult\","	"\孩子 Kids\","

	Topic 37	Topic 38	Topic 39	Topic 40
1	"\大使 Ambassador\","	"\增长 Growth\","	"\援助 Aid\","	"\访问 Visit\","
2	"\坦桑尼亚 Tanzania \","	"\合作 Cooperate\","	"\人口 Population\","	"\出访 Visit\","
3	"\项目 Project\","	"\经济 Economy\","	"\全球 the Global\","	"\非盟 the Africa Union\","
4	"\企业 Enterprise\","	"\网络 Net\","	"\比例 Ratio\","	"\埃塞俄比亚 Ethiopia \","
5	"\部长 Minister\","	"\发展 Develop\","	"\贫困 Poverty\","	"\总部 Headquarter\","
6	"\政府 Government\","	"\铁路 Railway\","	"\报告 Report\","	"\尼日利亚 Nigeria\","
7	"\中国人 Chinese\","	"\尼日利亚 Nigeria\","	"\对外 Foreign\","	"\肯尼亚 Kenya\","
8	"\保护 Protect\","	"\基础 Base\","	"\发展 Develop\","	"\安哥拉 Angola \","
9	"\国际 International\","	"\高铁 High Speed Rail\","	"\亿元 100 Million Yuan\","	"\访 Visit\","
10	"\寻找 seek\","	"\世界 the World \","	"\撒哈拉 Sahara\","	"\中非 Sino-Africa\","

	Topic 41	Topic 42	Topic 43	Topic 44
1	"\李克强 Li Keqiang\","	"\埃博拉 Ebola\","	"\马里 Mali\","	"\航空 Air\","
2	"\总理 Premier\","	"\疫情 Epidemic\","	"\世界杯 the World Cup\","	"\飞机 Airplane\","
3	"\合作 Co-operation\","	"\香港 Hong Kong\","	"\中国队 China Team \","	"\俄罗斯 Russia\","
4	"\国务院 the State Council of PRC.\","	"\西非 West Africa\","	"\亚洲 Asia\","	"\航班 Flight\","
5	"\中非 Sino-Africa\","	"\女子 Female\","	"\强 Powerful\","	"\东南亚 Southeast Asia\","
6	"\项目 Project\","	"\民众 Populace\","	"\球队 Team\","	"\中华 China\","
7	"\发展 Development\","	"\病毒 Virus\","	"\球 Ball\","	"\尼日利亚 Nigeria\","
8	"\访问 Visit \","	"\媒体 Media\","	"\阿尔及利亚 Algeria \","	"\安全 Safe\","
9	"\企业 Enterprise \","	"\病 Illness\","	"\深圳 Shenzhen\","	"\差 Bad\","
10	"\世界 Global\","	"\感染 Infect\","	"\韩国 Korea\","	"\境外 Oversea\","

	Topic 45	Topic 46	Topic 47	Topic 48
1	"\转基因 GMF \","	"\世界 the World\","	"\市场 Market\","	"\历史 History\","
2	"\美国 USA\","	"\柬埔寨 Cambodia\","	"\非洲开发银行 African Development Bank\","	"\亚洲 Asia\","
3	"\动物 Animal\","	"\日本 Japan\","	"\政策 Policy\","	"\市场 Market\","
4	"\食品 Food\","	"\云南 Yunnan\","	"\城市 City\","	"\国际 International\","

5	"\市场 Market\","	"\南极 the South Pole\","	"\银行 Bank\","	"\投资 Invest\","
6	"\人类 Human\","	"\不丹 Bhutan \","	"\亿美元\ One Hundred Million\","	"\中东 Mideast\","
7	"\吃 Eat\","	"\冰岛 Iceland\","	"\幸福 Happiness\","	"\文化 Culture\","
8	"\禁止 Forbid\","	"\敦煌 Dunhuang\","	"\融资 Financing\","	"\经济 Economy\","
9	"\留学生 international Student \","	"\布拉格 Prague\","	"\卡 Card\","	"\欧洲 Europe\","
10	"\支持 Support\","	"\捷克 Czech \","	"\中国人民 Chinese\","	"\发展 Develop\","

	Topic 49	Topic 50
1	"\铁路 Railway\","	"\埃博拉 Ebola\","
2	"\建设 Build\","	"\病毒 Virus\","
3	"\东非 East Africa\","	"\专家 Expert\","
4	"\肯尼亚 Kenya\","	"\援助 Aid\","
5	"\技术 Technology\","	"\疫情 Epidemic\","
6	"\总统 President\","	"\提供 Provide\","
7	"\合作 Cooperate\","	"\铁路 Railway\","
8	"\装备 Equipment\","	"\美国 USA\","
9	"\内罗毕 Nairob \","	"\能力 Ability\","
10	"\青年 Youth\","	"\研发 Research and Develop\","

Software: R Core Team (2014). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria.
URL <http://www.R-project.org/>.