

NLP Topic & Sentiment Analysis on the HK National Security Law

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Table of Contents

- 1.0 [Problem Identification Overview](#)**
- 2.0 [Generated Deliverables](#)**
- 3.0 [Data Pre-Processing Steps](#)**
 - 3.1 [Data Cleaning](#)**
 - 3.1.1 [News](#)**
 - 3.1.2 [Twitter](#)**
 - 3.2 [Exploratory Data Analysis & Pre-processing](#)**
 - 3.2.1 [News](#)**
 - 3.2.2 [Twitter](#)**
- 4.0 [Model Description](#)**
 - 4.1 [Pre-LDA](#)**
 - 4.2 [LDA Model](#)**
- 5.0 [Model Findings](#)**
 - 5.1 [News](#)**
 - 5.2 [Twitter](#)**
- 6.0 [Reading Between the Lines](#)**
- 7.0 [Next Steps](#)**

1.0 Problem Identification Overview

After the end of the First Opium War **in 1841**, the Qing Dynasty ceded Hong Kong ("HK") to the United Kingdom ("UK"). After World War 2 & still under British rule, **HK became a global financial center & its population developed a hybrid culture of maintaining their Chinese ethos while adopting British principles; notably Common Law.**

In 1984, the UK & China signed the Sino-British Joint Declaration whereby the UK agreed to cede HK back to China in 1997 as "one country, two systems" ("OcTs"). The mutually agreed OcTs outlined that from 1997 to 2047, HK would not participate in China's socialist system & HK's capitalist system, Common Law & way of life to remain unchanged. In 1997, the transfer was complete & HK was handed back to China under OcTs.

In 2020, the Congress of China unanimously passed the National Security Law ("NSL") which, for simplicity purposes, criminalizes secession, subversion of state power, terrorism & collusion with foreign entities in HK. This law was not enacted by the HK Legislative Council which in Article 23 of HK Basic Law is defined as the governing body allowed to enact such law. This **dichotomy in perceived legal right led to notable protests in HK ("HK Protests")**.

2.0 Generated Deliverables

This Natural Language Processing ("NLP") Data Science project uses the Data Science Method ("DSM") to identify variances in sentiment during the HK Protests using a hybrid of automatic & rules-based systems. The data source was obtained by scraping selected Chinese & International Newspapers & Twitter; the primary modules & tools for the DSM process are defined below:

- Bag of Words, BeautifulSoup, datetime, Emoji Dictionary, genism, matplotlib, NER, the nltk interface, os, Pandas, Regex, scikit-learn, seaborn, Spacy, statistics, Tokenization, twint, pickle, Word2Vec & WordCloud

The goal of the DSM is not to find or present an answer to an apparent geo-political situation but to pragmatically present the facts as they exist; the facts are created by humans resting in unstructured text in newspapers & Twitter; thus, the goal is to build:

- Sentiment Analysis & Topic Analysis

To reiterate, **the goal of this project is not to establish a position on who's right. The goal is to go through the DSM to see where certain groups stand & on what footing.**

Three (3) deliverables were generated:

1. The source code for the modeling developed to analyze the aforementioned problem ([link](#))
2. This document outlining the process
3. A PDF presentation with our findings ([link](#)) referenced

Data Pre-Processing Steps

3.1 Data Cleaning (Master):

1. The data is **broken down into two (2) main groups** defined below with explanations:
 - a. **News**, using *beautifulsoup4* ([link](#))
 - i. Thirty (30) News articles deliberating on the National Security Law & the respective protests
 - ii. The Articles consist of an equal split between China & HK Articles & International Articles [Appendix I](#)
 - iii. The ordering of the News Articles does not impact the findings & supported by no particular reason
 - iv. The data definitions & explanations are also found in [Appendix I](#)
 - b. **Twitter**, using *Twint* ([link](#))
 - i. 288,416 Tweets from Twitter were pulled from people submitting Tweets ("Tweeters")
 - ii. These cover a three (3) month period between 31 May to 29 Aug 2020
 1. The National Security Law was introduced on 30 June 2020
 - iii. They were pulled based on twelve (12) hashtags [Appendix II](#)
 1. For transparency purposes, these hashtags exclusively arise from HK & International Tweeters; Chinese social media's contribution is not present herein which will we aim to present in a fair manner
 2. The full dataset is found on the GitHub site under the data section ([link](#))

We will segment the final steps of Data Cleaning into their respective groups.

3.1.1 Data Cleaning (News):

1. No null values were presented
2. **Non-ascii Values** ([link](#)) **presented the only cleaning step** for the News; these presented themselves as "large apostrophes" (for lack of a better word) & thus, converted to normal English for NLP handling found in [Appendix III](#)
3. **No Duplicate** observations were presented
4. **Sentiment Intensity Analyzer ("SIA")** was then added found in [Appendix III](#)
 - a. The SIA is a text analysis method that detects polarity; e.g., a positive or negative opinion
 - b. The scores are composed of four (4) categories:
 - i. Compound (comp): computed by normalizing the other scores with a range of -1 to 1.
 - ii. Negative (neg): The allocation of negative to the Compound score; with a range of 0 to 1.
 - iii. Neutral (neu): The allocation of neutral to the Compound score; with a range of 0 to 1.
 - iv. Positive (pos): The allocation of positive to the Compound score; with a range of 0 to 1.
 - c. It's also known as opinion mining, deriving the opinion or attitude of the Tweeter. The probabilities will add up to 100%.
5. **Stop words** were then removed
 - a. Stop words are a set of commonly used words in a language that provide little value ([link](#))
6. **Stemming & lemmatization** were then done on the Articles & Titles. The **outputs were assigned to their own variables** to maintain the original Articles & Titles
7. **Term Frequency Inverse Document Frequency** ("TfidfVectorizer") a common algorithm to transform text into a meaningful representation of numbers which can be used to fit machine algorithms for prediction in the final step

3.1.2 Data Cleaning (Twitter):

1. Using a language variable obtained in scraping, the Twitter data came in **x51 languages with 67% in English & 24% in Unknown**. It was discovered that **Unknown are Tweets with only hashtags or a link**. In conjunction with **other languages (~9%)**, **Unknown** observations **were dropped** resulting in a **revised data frame of 194,087 observations** ([Appendix IV](#))
2. **-30k duplicates** were identified & then dropped **resulting in a data frame of 163,699 observations**
3. With the help of Regex, **Mentions of and to Other Users** in Tweets were then defined & dropped ([Appendix IV](#))
4. Regex was also used to **remove links** to websites within Tweets ([Appendix IV](#))
5. Emoji's are also found in Tweets. Using an Emoji dictionary ([link](#)), **Emoji's were converted to words** ([Appendix IV](#))
6. **Profanity** was converted to the word "**NEGATIVE**" so the SIA would work correctly ([Appendix IV](#))
7. The **SIA** was then added ([Appendix IV](#))
8. **Stop Words** were then removed from the Tweets
9. **Stemming & lemmatization** were then done & the outputs were **assigned to their own variables** to maintain the original Tweet
10. **TfidfVectorizer** was the final step

3.2 Exploratory Data Analysis (EDA) & Pre-processing:

The Exploratory data analysis (EDA) section is **aimed to summarize the main characteristics of a News Article or Tweet & identify what the data may be telling us.**

3.2.1 EDA & Pre-processing | News

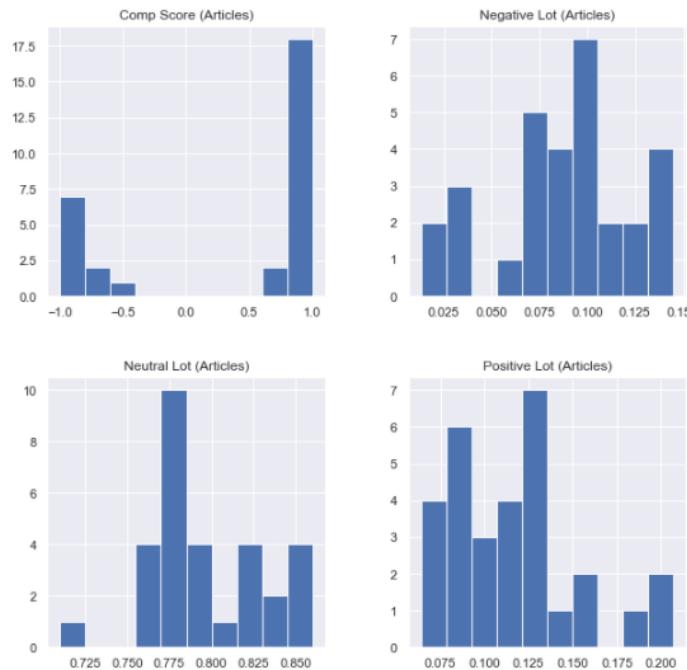
We split the analysis between the Titles & Articles; there was no split between Chinese & International news sources.

Titles | The sequential order of the process & their findings listed below:

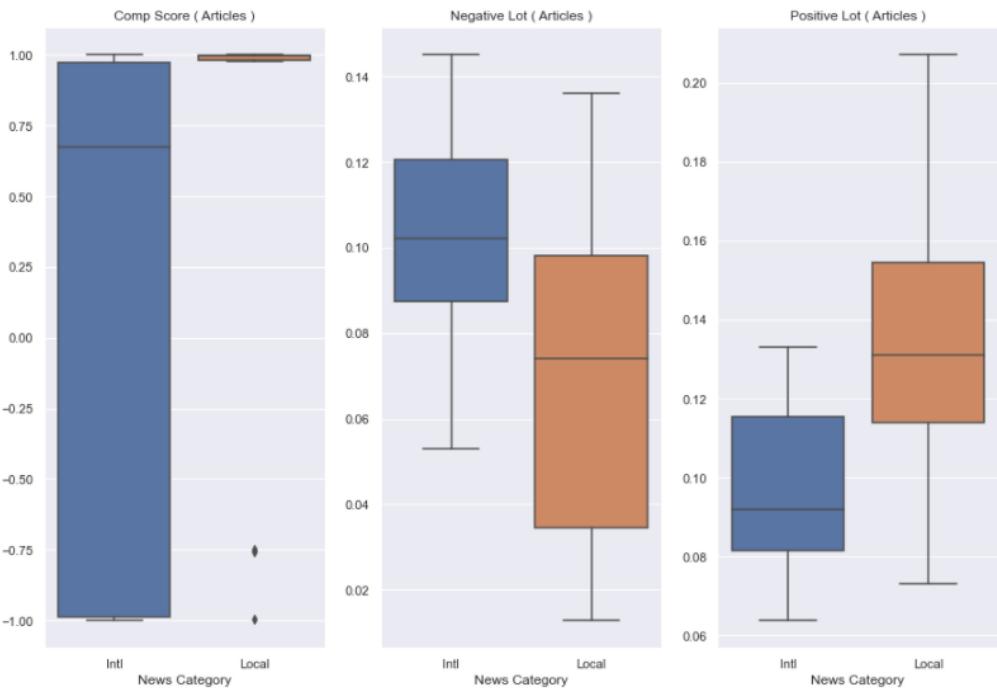
1. Distribution of the SIA scores via **Histograms**
 - a. Skewness observed to the Left on Comp Scores & Right on Negative & Positives Scores
2. Distribution of the SIA scores via **Box Plots**
 - a. **China** | The noticeable observation is the concentration of China's News Titles at Zero on the Negative category. The Compound score also showed outliers towards negative one (-1) while a predominate concentration towards one (1) on the Compound Score. **This suggests that Chinese News are predominately positive with some outliers.**
 - b. **International** | International News Titles were fairly concentrated in the middle with some outliers on the Positive side. **No objective takeaway was received from these results.**
3. The **Topic & Bottom five (5) Comp scores** via a **Bar Chart** were built
 - a. **Top 5:** These are titles suggesting **positivity** as they gravitate towards 1 on the Comp Score.
 - i. **Chinese news dominated** with a common thread that the NSL will **protect democracy & freedom in HK & lead to stability & prosperity**
 - b. **Bottom 5:** These are titles suggesting **negativity** as they gravitate towards -1 on the Comp Score.
 - i. **International news held the majority** with a common thread that the NSL is leading to anger, is a more definitive stance by China & HK's future looks volatile
 - ii. **Chinese News** was present with a common thread of the international news being misinformed & biased
4. Visual representation of the most frequently used Nouns & Adjective / Verbs via WordCloud's
 - a. No substantial takeaway was achieved with the WordCloud's
 - b. Interesting observations were safeguarding, democracy, protests, books freedom & imposed

The supporting charts & WordCloud's are not presented here as Titles had an average of 9.6 words; they can be found in [Appendix V](#).

Articles | The sequential order of the process remains the same albeit Articles contain 643 words on average; thus, we will include the EDA output here as well as [Appendix VI](#). We hope our findings can be easier to understand next to the charts & word clouds.



The **most distinct observation** on the **Distribution of the SIA on the Histograms is the polarity in the Comp Scores**. There does not seem to be a "middle ground" as the thirty (30) articles deviate to one side or the other; either one (1) or negative one (-1) being Positive or Negative respectively. Further to this, **the Positive side of the equation commands more than the Negative side**.



upper & lower quartile ranges deviate from near 1 to near -1. The key takeaway would be:

- Chinese News are primarily Positive, &
- International News are diverse

The Box Plots highlight a deeper understanding of how this polarity may be presenting itself.

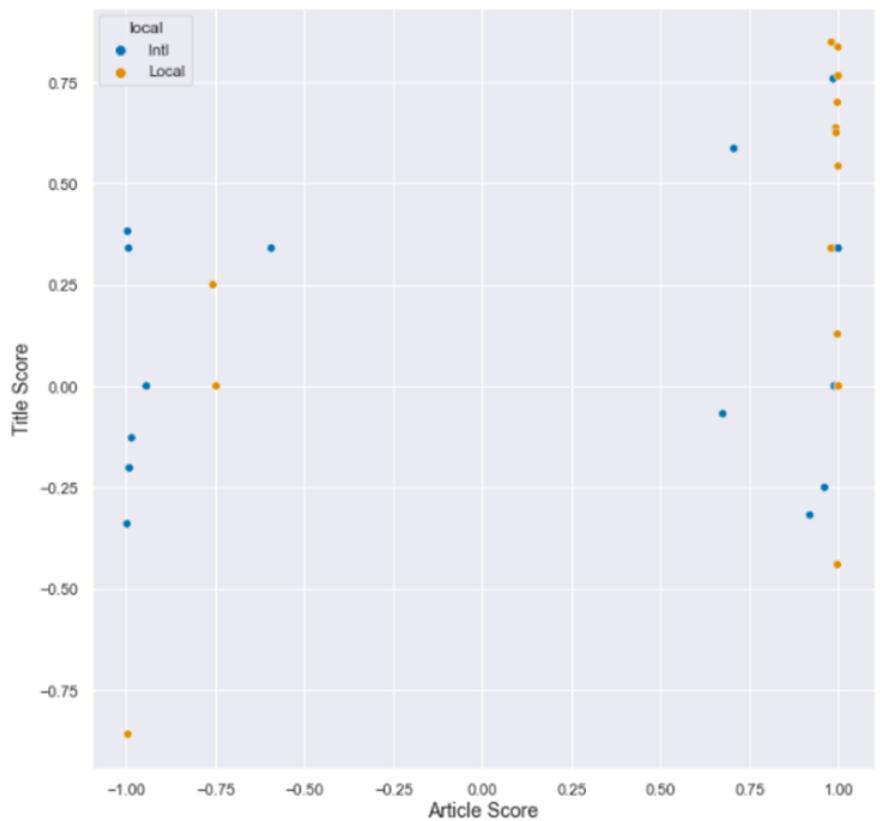
From right to left, **the Positive Lot appears to be supported by the Chinese New Articles**. It's Median (~0.13) is above the upper quartile range of their International counterparts.

The Negative Lot, meanwhile, **is more concentrated with the International Articles**. Its median (~0.11) lies above the upper quartile range of their China counterparts.

The Comp Score, which is a combination of them all, **shows a high concentration of China News in the Positive section (1) with some (x2) outliers in the Negative section below Zero**.

International News appears more diverse in Positive & Negative as it's

Comparing the Comp Scores between Articles & Titles



This observation inspired the construction of a Scatter Plot with Comp Scores of both the Articles & Titles on the x & Y-axis respectively.

The apparent **concentration of China News** for both on the **Positive sides (upper right)** is the **main takeaway**

While nearly half of the Negative International News Articles had a Positive or Neutral Title.

Nevertheless, **the break down is truly a ±50% on the Articles**. The last takeaway from this section would be that **while the China Articles control the Positive camp, it's not a domineering**.

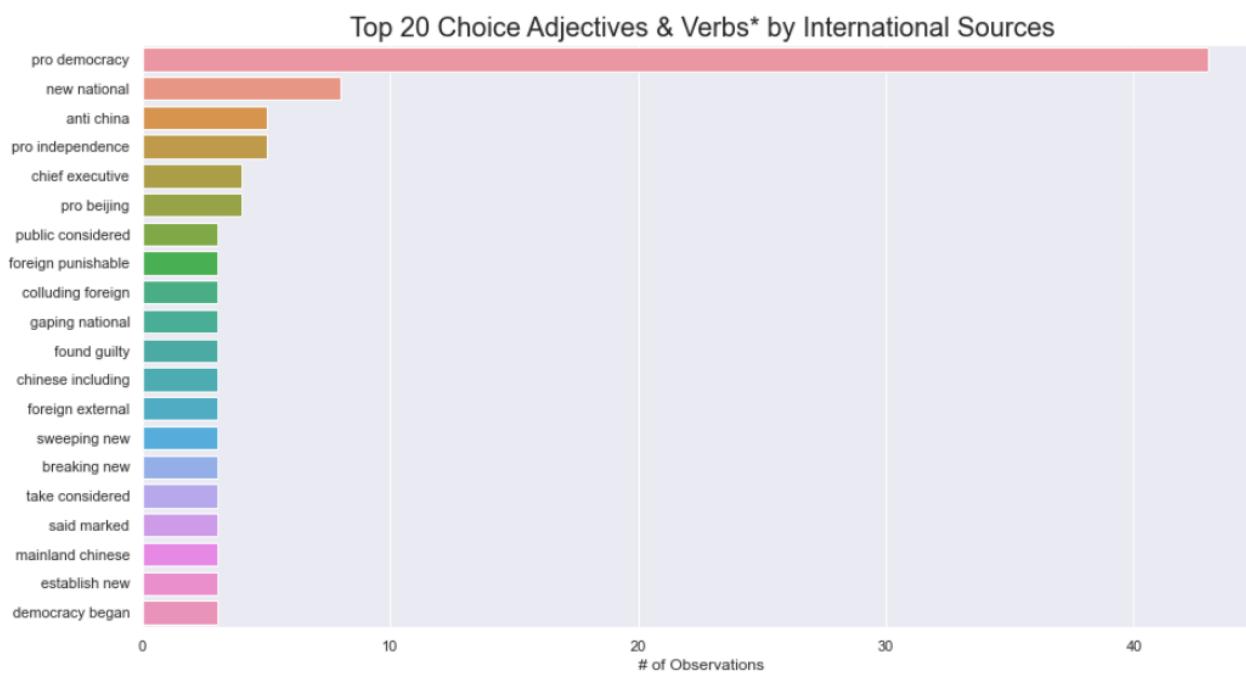
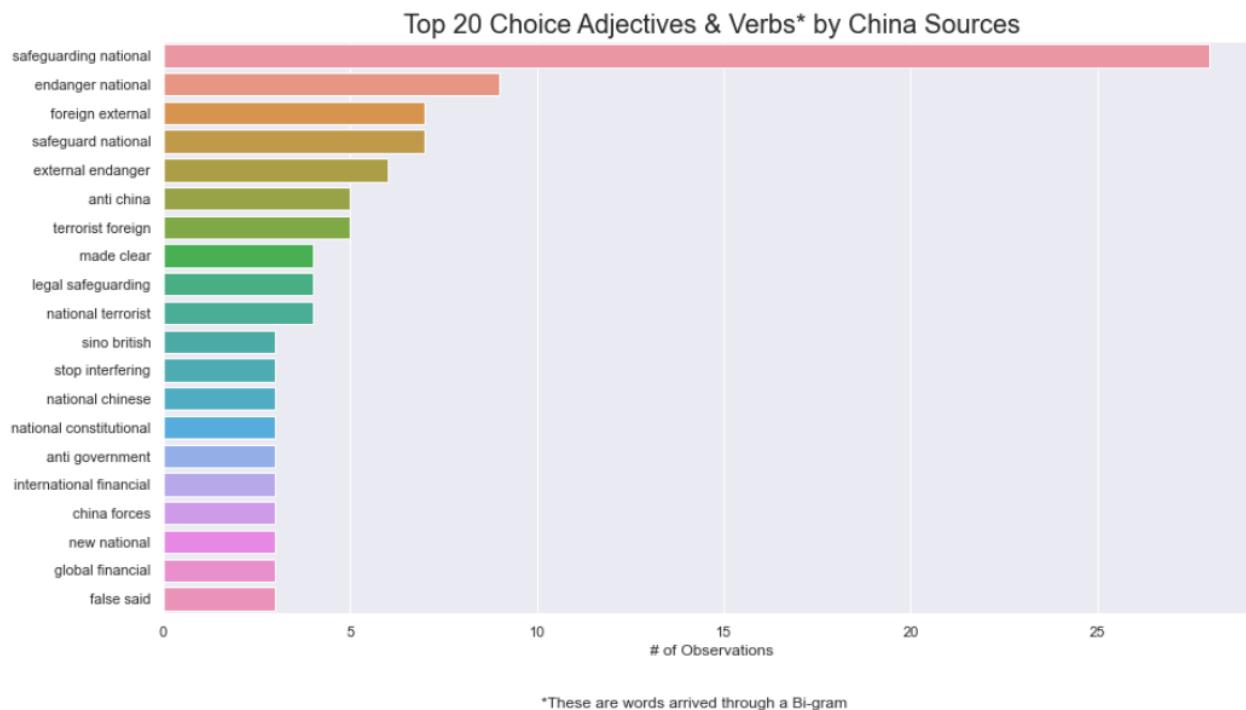
Conversely, **the International Articles control the Negative camp, it's also not domineering**.

20 | Articles above 50%
10 | Articles below -50%

The breakdown between groups +50%:
China | 60.0 percent
Intl | 40.0 percent

The breakdown between groups -50%:
China | 30.0 percent
Intl | 70.0 percent

Counting the number of frequently mentioned bi-gram words with adjectives & verbs for each category further highlights the respective categories message.



The final notes for News EDA are as below:

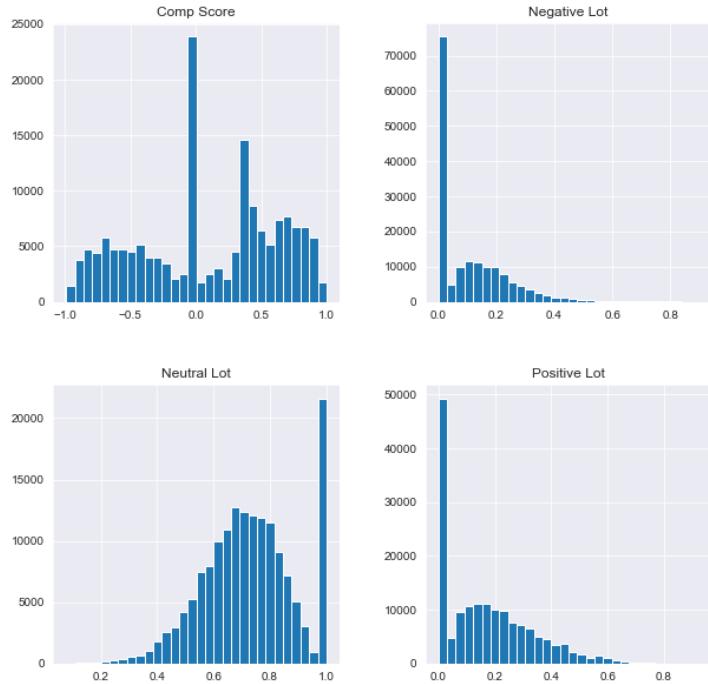
- **China Positive** | China & the Law's intent is to protect & support the freedom & prosperity of HK as a unified motherland
- **International Positive** | No clear indication for a positive position; to be confirmed in later stages
- **China Negative** | The West may be misinformed or not see the longer term as well as endangering HK by interfering
- **International Negative** | Concern over the freedom of the HK people, particularly the protestors

3.2.2 EDA & Pre-processing | Twitter

Twitter EDA is similar to the News albeit isn't broken into Title or Article groups as well as Chinese or International Tweets.

As mentioned, it is prudent to assume that the entirety of Tweets are not from within China & expected to be disgruntled with the NSL. The inclusion of only non-China based social media is not the desire but the consequence of not having known Chinese social media to scrape as well as the Chinese populous may not have a desire to express their political opinions on social media.

The supporting charts & visuals will also be included herein albeit they will all be found in [Appendix VII](#) for reference.



The first step of the EDA process was to investigate the **SIA on a Histogram** for each of its categories.

The Negative & Positive Lots both present skewness. The Neutral Low is seen on all as well.

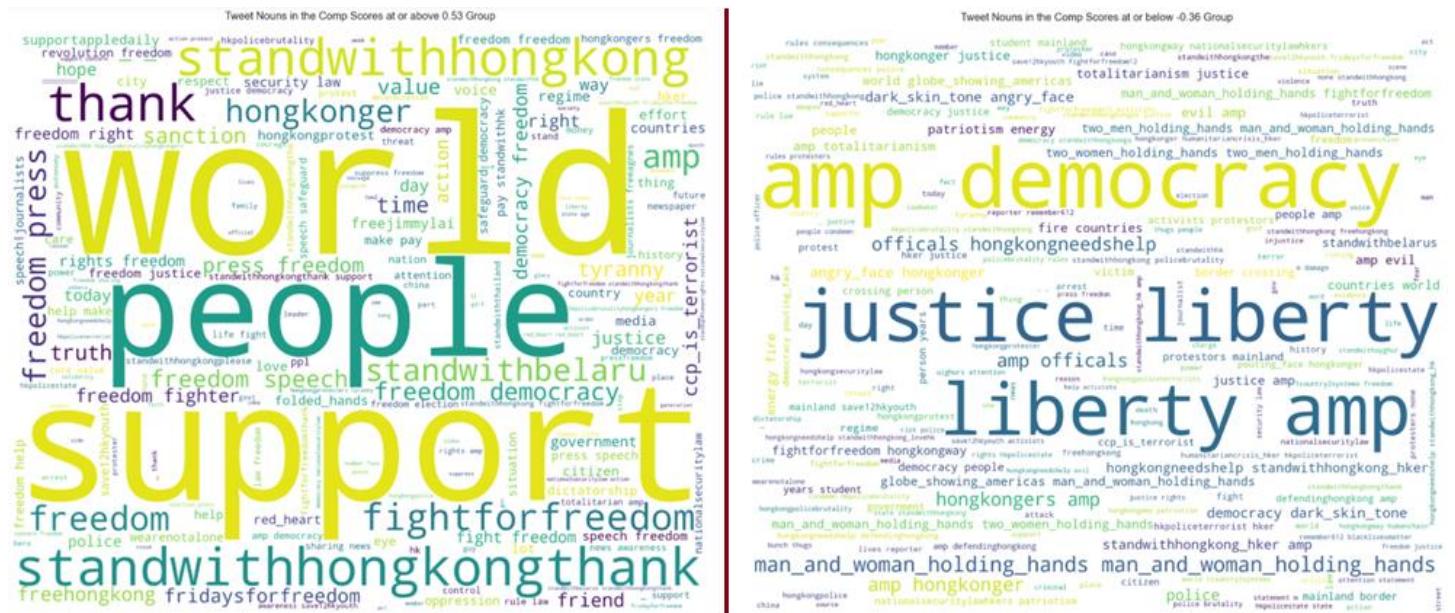
The notable observation is the **Comp Score** itself; it **appears Bimodal**. This **suggests** there to be a **grouping of Positive & Negative Tweets**. In other words, the Tweeters don't only convey negativity in their social media engagements. In fact, the number of Positive Tweets seem to outnumber the Negative ones.

Within the Bimodal nature of the Comp Score, we decided to investigate how to best split the Tweets into the two (2) categories; i.e., Positive & Negative.

Using Descriptive Statistics, we determined that **Tweets with a Comp Score at or above 0.539 to be Positive & Tweets at or below -0.361 to be Negative**.

count	163699.000000
mean	0.095108
std	0.534434
min	-0.990100
25%	-0.361200
50%	0.077200
75%	0.539900
max	0.998900
Name:	comp, dtype: float64

The WordCloud's present a fair introduction to the segments of the groups. World, support & standwithhongkong align to my expectations of being Positive. The odd observation is that democracy, liberty & justice fall into the Below -0.36 camp; i.e., Negative. Those come across as Positive words.



The further look into these groups can be seen on the Bigrams of the Top 30 Words for the following groups with their respective Appendix:

- Positive | Comp Score at or Above 0.53 | [Appendix](#)
- Negative | Comp Score at or Below -0.36 | [Appendix](#)

We decided to save them for the Appendix to save space. The key observations of Bigrams used for each are listed below:

- **Negative Summary:**

- Human Rights
- Evil CCP
- References to Freedom / Democracy
- Police Brutality
- Fighting
- Holdings Hands (🤝)

- **Positive Summary:**

- Thanks much / support
- Human Rights
- Free World
- Please standwithhongkong / support
- folded_hands (🙏)
- freedom press / democracy

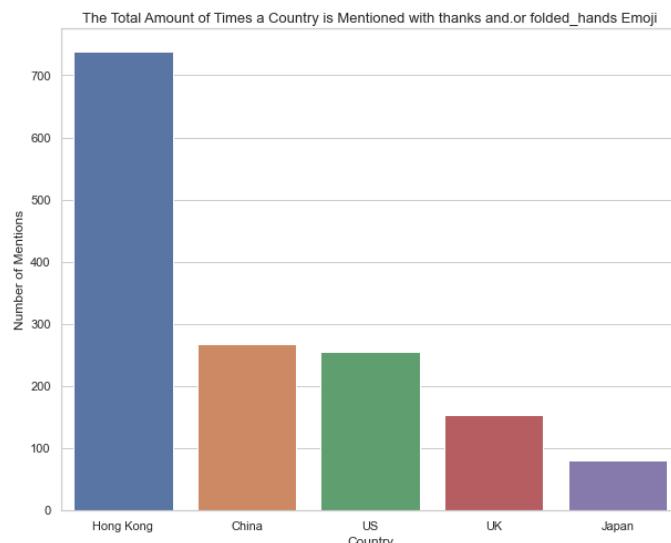
We also took a look at whether or not there are any notable **mentions to geopolitical entities associated with thanks & folded_hands** (🙏); inspired by an interest to help determine what the “Free World” is referring too.

Hong Kong is where we believe most of the Tweeters are from. The observation is that China comes in as second place.

We took a look at Tweets which used the word China (below) & determined there may be sarcasm but also mentions of the international community.

The next top countries were the US, the UK & Japan. This was ironic as the three (3) countries used to pull News from were the same; no planning or intention was associated with this outcome.

Mentions of the US was also looked at & it appears that this may be one country referred to as the Free World.



Examples of observations with both thanks & folded_hands for China are below.

Thank #StandWithHongKong !!! We sincerely hope free world stand firm Communist China's human rights abuses Hong Kong. Many thanks folded_hands light_skin_tone

Deeply touched heartfelt thanks done #HK folded_hands light_skin_tone folded_hands light_skin_tone folded_hands light_skin_tone Always grateful international support fighting evil #CCPChina regime. #StandWithHongKong

Thank much #StandWithHongKong . folded_hands Although don't know actually plans, still thanks UK helps. #newwestberlin #5De mandsNot1Less #BoycottChina

Examples of observations with both thanks & folded_hands for the US are below.

Heartfelt thanks standing solidarity Hongkongers folded_hands Pls consider implementation #MagnitskyAct sanction CCP & HK officials violate "1country2systems" & "high autonomy" promises Joint Declaration fire Let JUSTICE done UK #StandwithHongKong

_nozomi Thank much US UK,thanks always supportive us red_heart folded_hands light_skin_tone #StandWithHongKong

As hongkonger, cannot save home without help US. We believe democracy freedom important everywhere world. HKers appreciate please see help ~ please save US HK folded_hands light_skin_tone #freehongkong #thanksTrump #thankUS

The final notes for Twitter EDA are as below:

- **Positivity** | Thanks much / support, Free World, help & folded_hands (🙏)
- **Negativity** | Evil CCP, Police Brutality, Fighting & Holdings Hands (🤝)
- Mentioned in both | Human Rights & freedom press / democracy
- There appears to be a **Pro-China** or **Pro-HK split**
- Investigated links to **geopolitical entities** as well as potential sarcasm directed towards them
 - Positive mentions to the US while mentions towards China may be sarcastic

4.0 Model Description

The modelling approach for Twitter & News (both Titles & Articles) are ubiquitous; they both use Latent Dirichlet Allocation ("LDA") to classify text in the News & Tweets to particular topics.

4.1 Pre-LDA

Before they got to LDA, they went through another "cleaning" process; some of which is repetition albeit it was done for reassurance. The **pre-LDA process is outlined below** with examples for each:

- **Lemmatization**
 - The process of grouping together the inflected forms of a word so they can be analyzed as a single item identified by the word's lemma or its dictionary form
- **Stop Word Removal**
 - Stop words are a set of commonly used words in a language. English examples are "a", "the", "is", "are", "and" etc. They don't provide much to NLP & thus removed
- **Bag of Words**
 - A representation of text that describes the occurrence of words within a document. It's called "bag" as it disregards the order or structure of the sentence; the occurrence of the word is what matters
- **Bigrams & Trigrams**
 - Bigrams & Trigrams are sequences of two (2) or three (3) words respectively. It is more efficient to identify common occurrences of groups of words that appear together

```
# Title / Before Lemmatization
print(df_clus['title'][15][0:21])
```

Newly passed national

```
# Title / After Lemmatization
print(lemmatized[15][0:19])
```

```
# Before Stop Word Removal
print(df_clus['title'][4][0:47])
```

Teenage arrests, blank protest signs, and a key

```
# After Stop Word Removal
print(data_words[4][0:6])
```

['teenage', 'arrest', 'blank', 'protest', 'sign', 'key']

```
print (corpus[4][0:2])
```

(1, 9), (11, 5)

```
# below is a bigram & trigram
print(data_bigrams_trigrams[16][0:2])
```

['hong_kong', 'national_security_law']

```
# Below is the word
# assigned to the number
# in the bag of words
word = id2word[[4][:][0]]
print(word)
```

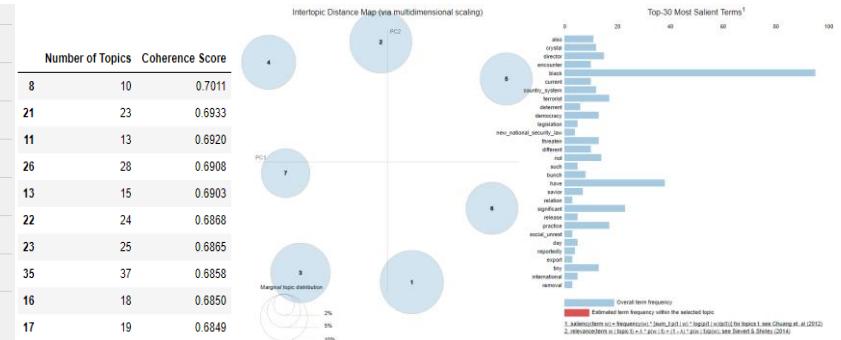
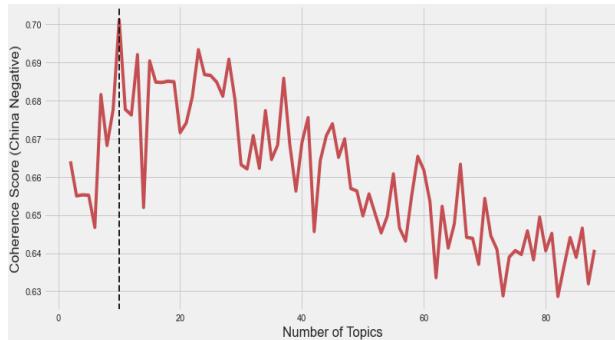
affect

4.2 LDA Model

Once completed, they were sent to LDA & subsequently the pyLDAvis which is an interactive topic model visualization tool. pyLDAvis helps users interpret the topics in a topic model that has been fit to a corpus of text data in a visual form.

LDA & pyLDAvis give an initial glimpse of how many topics there are & which words are assigned to them. **To determine the optimal number of topics** within the documents, a metric **Coherence Score is calculated** which measures the scores of a single topic by measuring the degree of semantic similarity between high scoring words in the topic. In other words, **a set of statements or facts that support each other are said to be coherent**.

Once the Coherence Score is resolute, the LDA & pyLDAvis process is done again & an investigation of each those topics was reviewed. This process is called "**Reading between the Lines**" ("**RBL**") & represents the **final step**.



5.0 Model Findings

Outlined below is the process & output of the models for both the News Articles & Tweets as described in the previous section. They will remain separate until the next section where they are brought together.

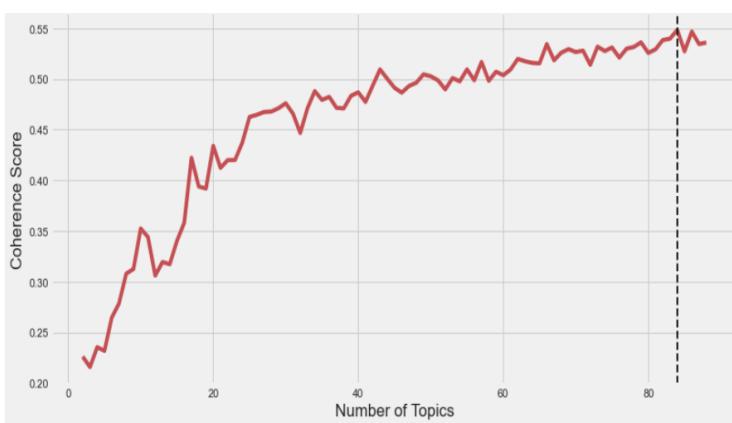
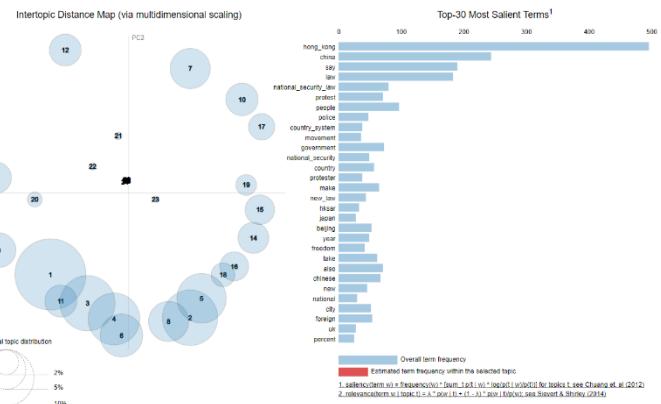
To reiterate, the **News Articles are equally distributed** between Chinese & International sources with the attempt to find a balance of opinions **while** it was prudent to assume that the **Twitter Tweets are likely to be unanimously International**.

5.1 Model Findings | News

The Coherence Score on the 30 News Articles presented eighty-four (84) Topics as the ideal breakdown outlined in [Appendix VIII](#); summary below:

- The sizes vary in size
- Distance between the center for many indicates some are distinct while 21+ hover in the center
- A notable amount of overlap is presented

Although removing the 21 topics given their proximity to the center & size is an option, another option was decided to better handle the LDA Modeling process on the News Articles.



Number of Topics	Coherence Score
82	0.5486
84	0.5469
81	0.5399
80	0.5385
77	0.5363
86	0.5361
85	0.5346
64	0.5346
71	0.5320
76	0.5317

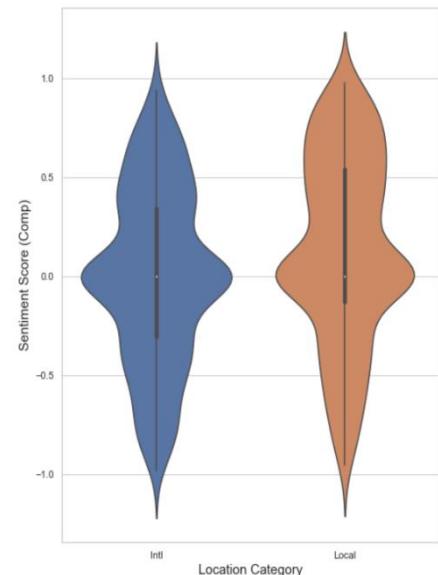
A decision to breakdown the articles into sentences & subsequently into the four (4) groups outlined in 3.2.1 EDA & Pre-processing News was done.

The rationale behind splitting into sentences was supported by how well the Twitter data frame was handled in LDA.

This resulted in ~24.6% of the sentences as having a Comp Score of Zero or deemed as Neutral. They were investigated but considering we would still have a total number of observations of 1,023 if they were dropped, we dropped them.

The result maintained a reasonably healthy balance between Chinese & International News. The process on each was then run which will be presented in subsequent sections to contain a healthier or more manageable number of Topics for in their Coherent Scores.

18.01% | Negative International
19.51% | Negative China
34.73% | Positive China
27.76% | Positive International



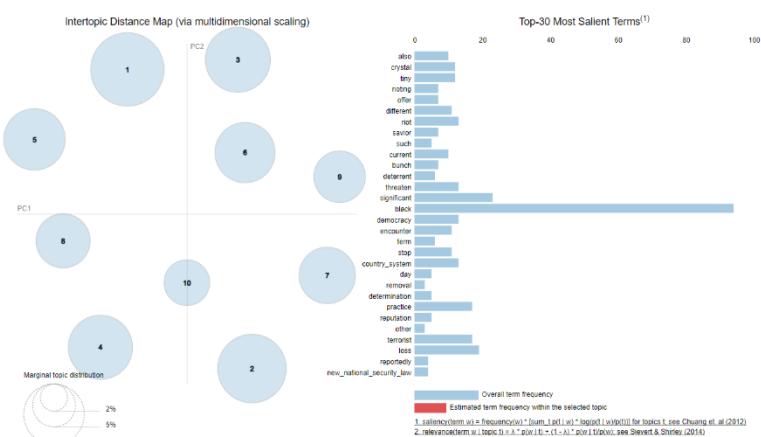
News RBL | China Negative

We will start with a counterintuitive section; the **News Articles deemed as negative from Chinese sources**. A more detailed breakdown of the below can be found in [Appendix VIII](#).

There were ten (10) topics which were reviewed individually.

The **summary is highlighted below:**

- 10: Discontent of protestors & their civil disobedience
- 9: BBC is misinformed
- 8: Discontent of the US for meddling in their affairs
- 7: Attempts to split HK & China's unity by foreigners
- 6: NSL is to punish those threatening National Security
- 5: NSL's intent is to heal HK from previous violence
- 4: The US should look at the law objectively
- 3: HK has become highly politicized and violent
- 2: The NSL intent is to target a small criminal group
- 1: Protestors criminal activity



Supporting sentences for each below. If you wish to view all, they are in the source code for this respective project. We trust you understand there are a lot of Topics within each Topic but we are making our best objective judgement for simplifying it in this report.

11 It was one of the most atrocious violent incidents during months of social unrest last year

46 The BBC got the facts wrong and spread this misinformation to the mainstream public," he said

34 Though the US has no right to meddle in the internal affairs of any country in the world, it has reportedly long been instigating violence brazenly in Hong Kong

52 While the UK believes it has right and responsibility to "ensure" Hong Kong's autonomy, with other Western countries having similar opinions, the new national security law proves that their moves and words are useless and meaningless, Cui said

8 \n\n\tIt should be noted that the newly-adopted legislation only targets a few actions and activities that seriously endanger national security, such as "Hong Kong's independence," "black-clad violence," and mobsters' "mutual destruction"

71 It is the National Security Law's core mission to heal these fatal injuries to Hong Kong

141 We urge the relevant parties to grasp the situation, view the legislation in an objective and impartial way, stop fact-distorting and slandering acts, and stop interfering in Hong Kong matters and China's internal affairs

69 Over the past few years, the city has suddenly become highly politicized and violent, caring not about its precious status as an international financial hub

77 It's targeted on a very small group of criminals who intend to endanger the national security

31 The world witnessed how valuable assets were burnt, police being assaulted every day and the national emblem and flag of China being insulted

News RBL | International Negative

The **News Articles deemed as negative from International sources**. A detailed breakdown of the below can be found in [Appendix VIII](#).

There were initially forty-seven (47) topics but those above 28 were small & near the center; not important. Topics with seven (7+) observations were shortlisted to result in ten (10) topics.

The **summary is highlighted below:**

- 13: Prosecution of those carrying on in exile
- 4: The NSL is vaguely worded
- 42: The NSL may be a human rights violation
- 34: Tactics of the protestors
- 1: More tactics of the protestors
- 29: Acknowledges China's position on the NSL
- 27: The NSL undermines the OcTs system
- 8: Possible suppression of journalists' free speech
- 18: NSL goes against common law & threatens HK's freedom
- 12: Outlining various potential arrangements for being sentenced to life in prison

Supporting sentences for each below.

23 Foreign nationals outside of Hong Kong face prosecution under the law (Article 38)

64 The vague wording of the law gives police vast discretion to arrest people

19 Human rights organisations have pointed out how the law seems to undermine protections previously offered to defendants

204 Protesters now call for demonstrators to hold up blank placards at marches

87 Molotov cocktails were used by some violent protesters

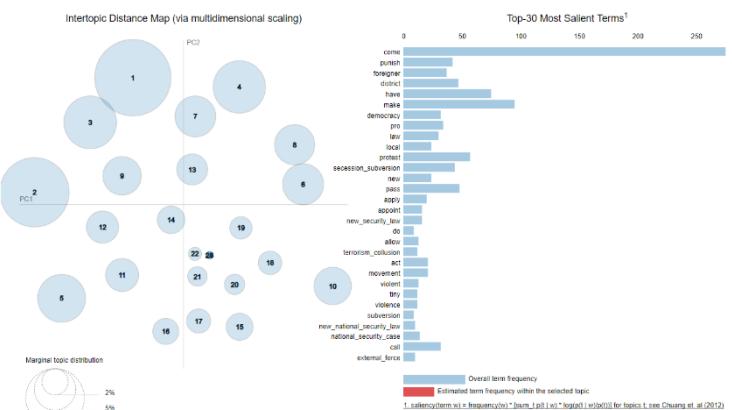
173 The law, announced by Beijing in May, will make criminal any act of secession, subversion of the central government, terrorism or collusion with foreign or external forces

99 Senator Payne said the eyes of the world were on Hong Kong, and that the legislation undermined the "one country, two systems" model adopted when the UK handed back control of the city to Beijing

123 "You can't have an international finance center without freedom of the speech and press," he said

91 Up until now, Hong Kong has boasted a proudly independent judiciary and a separate, common-law-based legal system – but that will also face unprecedented pressure under the new law

116 They could be tried behind closed doors and sentenced to life imprisonment



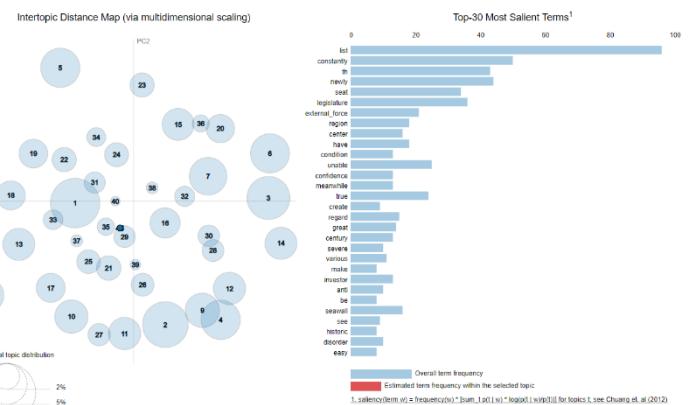
News RBL | China Positive

The **News Articles deemed as positive from Chinese sources**. A detailed breakdown of the below can be found in [Appendix VIII](#).

Forty-eight (48) topics identified. The Top 25% of the contributors were shortlisted resulting in twelve (12) topics. The **summary is highlighted below**:

- 38: West doesn't have a good human rights track record
- 24: The NSL will only apply to a small group of offenders
- 39: The NSL is about safeguarding national security
- 22: Rejoiceful mood on HK's return to China
- 46: The NSL has nothing to do with freedom of speech
- 48: The UK needs to stay out of China's affairs
- 44: China cites that Common Law allows for the NSL
- 42: Support from Carrie Lam for the NSL
- 45: HK has autonomy & enjoyed prosperity under OcTs
- 1, 47 & 43: *Do not present anything new*

Supporting sentences for each below.



150 National Security law is about restoring order and protecting the rights of the majority of people

260 \nIt must be pointed out that these countries are far from owning a good human rights record to boast and are certainly in no position to judge others on this fr
ont

318 It only targets an extremely small minority of offenders while the life and property as well as various legitimate basic rights and freedoms enjoyed by the overw
helming majority of citizens will be protected

108 The law on safeguarding national security in HKSAR was enacted to safeguard the 'one country, two systems', Liu noted, adding that the law is fundamental to end c
haos and restore order in Hong Kong

44 \n\n\nA flag-raising ceremony is held by the government of the Hong Kong Special Administrative Region to celebrate the 23rd anniversary of Hong Kong's return t
o the motherland at the Golden Bauhinia Square in Hong Kong, south China, July 1, 2020

45 (Xinhua/Li Gang)\n\n\tThe festive mood stood in sharp contrast to the scenes a year ago when large groups of rioters stormed the Legislative Council complex of t
he Hong Kong Special Administrative Region (HKSAR) and wreaked havoc inside

129 The four categories of crimes the law strikes have nothing to do with freedom of speech, assembly and association

174 I think the UK should have its own independent foreign policy rather than to dance to the tune of Americans,

131 Article 23 of the Basic Law stipulates that the Hong Kong Special Administrative Region "shall enact laws on its own" for the sake of national security

47 \n\n\n\tTURNING POINT\n\n\tAt a reception held Wednesday morning, Chief Executive of the HKSAR Carrie Lam stressed the significance of the anniversary and said the
new law would help restore stability in Hong Kong

57 \n\n\n\tHong Kong has enjoyed a high degree of autonomy and maintained its prosperity under "one country, two systems" since China resumed exercising sovereignty ov
er Hong Kong in 1997

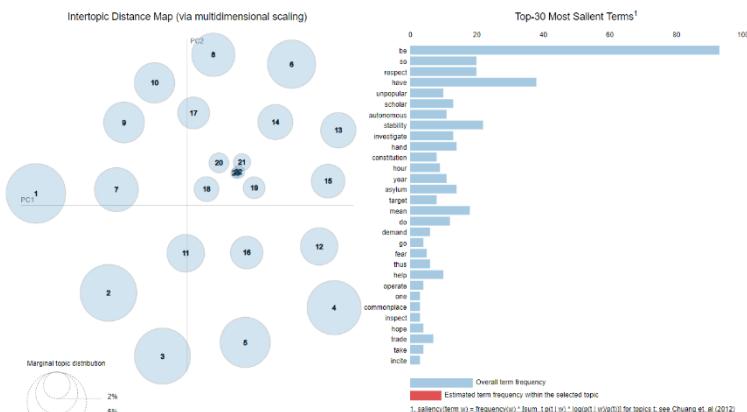
News RBL | International Positive

The **News Articles deemed as positive from International sources**. A detailed breakdown of the below can be found in [Appendix VIII](#).

Twenty-three (23) topics were initially identified. Seventeen (17) topics were shortlisted with ten (10) or more observations.

The **summary is highlighted below:**

- 5: Usage of positive words
- 23: More usage of positive words
- 3: More usage of positive words
- 14: Positive mentions towards supporters
- 9: More positive mentions of the protestors
- 20: Less support for protestors seen in HK
- 15: China & Japan's diplomatic ties improving
- 11: Comradery amongst the Tweeters
- 4: Mentions of Beijing's position of safeguarding security
- 21: China's courts are effective; deemed as positive
- 1, 8, 12, 13, 10, 18 & 22: *Nothing decisive*



Supporting sentences for each below & on the next page.

218 "Beijing's promise to the world that Hong Kong will have a high degree of autonomy is proven to be a lie,"

81 LoadingWithin two hours of the law being announced, the Government revealed special local police and justice department prosecution units had already been formed to enforce the law

17 The legislation gives Beijing extensive powers it has never had before to shape life in the territory far beyond the legal system

206 Supporters say the law will help to restore order after a year of protest

236 It referred not so much to independence as to a sense of a newfound community, in which solidarity was not simply a strategy but became the dominant ideology of the movement

40 But the survey also indicated that public backing for street demonstrations had softened: Support for protests fell to 51 percent, down from 58 percent in a poll in March

153 In recent years, China's diplomatic ties with Japan have improved somewhat

185 He added on Twitter: "Stay strong, my friends

5 Beijing has said Hong Kong should respect and protect rights and liberties while safeguarding national security - but many still fear the loss of Hong Kong's freedoms with this law

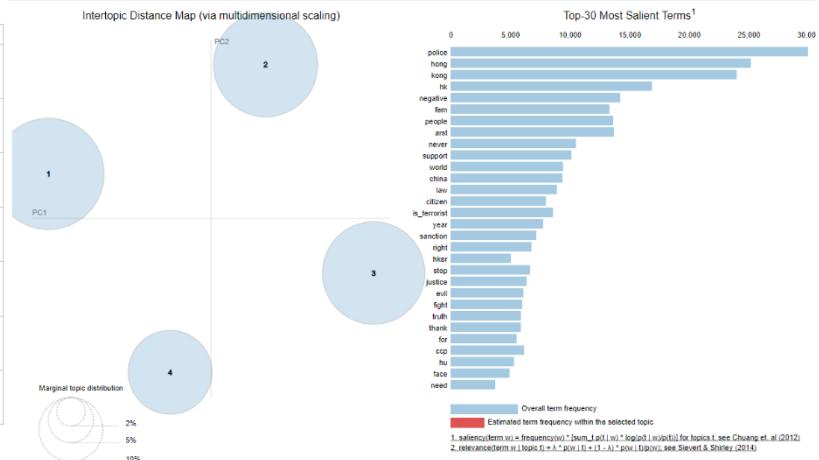
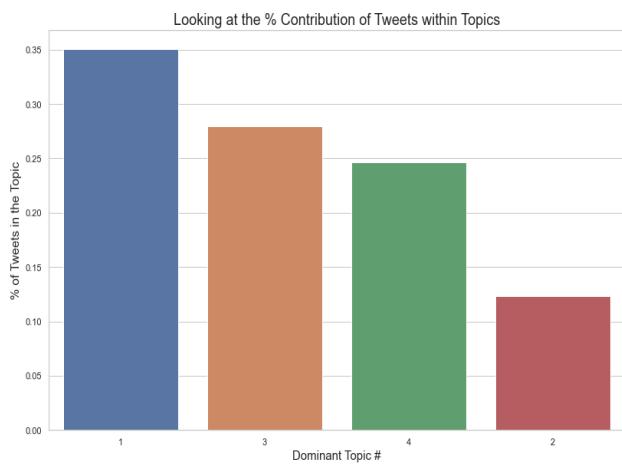
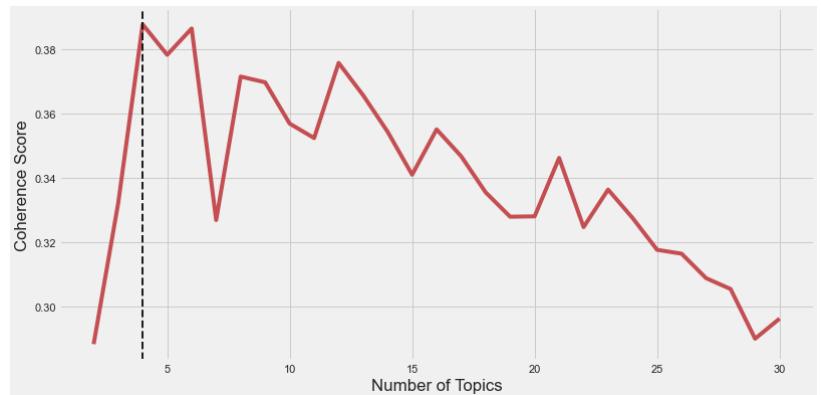
196 Chinese courts, which are controlled by the Communist Party, have a close to 100% conviction rate

5.2 Model Findings | Twitter

The Coherence Score on the 163,699 Tweets presented four (4) Topics; we will outline what was seen:

- The **sizes** look to be **reasonably similar**
- The **distance between the center** for all indicates they are **distinct**
- The **top words & trigrams to be the following for each topic** with supporting potential rational:
 1. police, arst, law & is_terrorist
 2. negative, people, never, world & China
 3. support, justice, evil, fight, truth & thank
 4. need, time, protest & puppet

The contribution for each topic ranged from ~15-35%.



The real meaning of what these top words convey does not present itself clearly until we dig deeper. **The RBL section** is just that, **we read the full sentences**; in this case, Tweets.

We could not read all the Tweets so we plotted it on a histogram by their contribution & took a section of the top & bottom of the contribution percentages. This works off a modius operandi that if the top & bottom contributors of the topic are aligned, then the middle will most likely will be aligned as well.

The RBL is truly a fraction of the total number of Tweets in each topic. Topic 1, for example, had 57,394 Tweets in its set while 80 Tweets were moved to RBL; thus 0.01% of the set.

Twitter RBL | Topic 1

A more detailed breakdown of the below can be found in [Appendix IX](#).

The **summary is highlighted below:**

- A notable amount of appreciation for support from the world for helping fight for freedom, democracy & human rights
- Mentions of the free world which may be classified as the UK, Australia, Taiwan & the USA with personal mentions towards:
 1. rep riggleman
 2. sec pompeo
 3. Aderholt
 4. rep gooden
 5. sen haley

81436 thank rep riggleman hong kong aspiring predatory fascistic s statement intent get away atrocities one stop anymore the socialimperialisticis waging war free world amp theus

104258 britian showing world fulfilling historical responsibility hong kong showing world fighting must safeguard democracy human rights
104768 thank senators while hong kong people greatly appreciate us providing refuge place earth truly free long exists aspiring nationalistic tyrannical cc p hk frontlineis to

81431 thank sen haley hong kong aspiring predatory fascistic s statement intent get away atrocities one stop anymore the socialimperialisticis waging war free world amp theus

30934 thanks sec pompeo the solidarity among freedomloving nations support hong kong heartening lets stay strong keep fighting triumph democracy comes

Twitter RBL | Topic 2

A more detailed breakdown of the below can be found in [Appendix IX](#).

The **summary is highlighted below:**

- A sense of comradery towards their fight
- Conveying an urge to not give up on their fight
- The usage of positivity to achieve the aforementioned goals:
 1. Candle
 2. musical_notes / sing hallelujah
 3. folded_hands
 4. Different configurations of people holding hands

```
8337 _kwai i really love song loudly_crying_face folded_hands hkers inexhaustible patriotism energy fire unite countries world globe_showing_americas one double_exc_lamation_mark may negative bless hk hkers folded_hands two_men_holding_hands man_and_woman_holding_hands two_men_holding_hands man_and_woman_holding_hands two_men_holdi_ng_hands man_and_woman_holding_hands two_women_holding_hands two_men_holding_hands man_and_woman_holding_hands two_men_holding_hands man_and_woman_holding_hands
```

```
64655 _musical_notes sing hallelujah lord sing hallelujah lord musical_notes
```

```
35663 _news _hker no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up |
```

```
65804 _spalding _hker no matter evil no matter brutal is giving up still fighting justice liberty amp democracy pls help
```

Twitter RBL | Topic 3

A more detailed breakdown of the below can be found in [Appendix IX](#).

The **summary is highlighted below:**

- Tweeters vocalize their negative opinion towards what they believe China's goal is; notably:
 1. Treat HK the way they believe China treats Tibet & Xinjiang (the Uighurs)
 2. Limitations towards freedom & Press Freedom
 3. The suppression of democracy
 4. Political suppression via arresting protestors
 5. Authoritarian rule & tyranny
- Belief that the HK police are puppets

92563 i spotted van parked outside chinese embassy portland place london afternoon communist china cruel humans tibetans uighurs hongkongers dog cruelty china matter
s too

29611 how police broke media office morning they destroying reputation freedom speech makes public lives white terror more people deserve sanctioned

35711 hong kongs rule law nonexistent the city totally seized authoritarian rule now govt everything silence democracy activists hk always asset globe us

26508 the enactment tool ccp supress freedom press hong kong it shows ccp afraid power press put white terror hk hk police puppet ccp _is_terrorist

Twitter RBL | Topic 4

A more detailed breakdown of the below can be found in [Appendix IX](#).

The **summary is highlighted below**:

- Confrontations with the police with notable mentions of
 1. People being arrested & sentenced
 2. Hurting police with a laser pointer
 3. Beatings at various locations
 4. Assaulting a police officer by kicking their back
 5. A lady carrying a US flag in a shopping mall
 6. Possession of kg ketamine
- Confrontations with legal authorities with charges of:
 1. Attempting to split the nation via posts on Facebook
 2. Banning of books
 3. Possession of a flick knife deemed to be an offensive weapon
 4. Gatherings banned with mentions of Tiananmen Square
 5. A judge sentenced an old teacher for assaulting a police officer
- Belief that China is working with the Triads to form a "Chinese secret police"
- The protestors belief that the media confuses their intentions
 1. They believe they aren't asking for violence; they are asking for justice & the protests are one way to vocalize this intent for making a change

862 a lady sentenced jail months assault police laser pen no laser pen found arrested popo submit another laser pen exhibit pro ccp negative judge still accept ev
idence _is_terrorist

6945 similar ccp lies tiananmen massacre hongkong government try fraudulent history incident police disappeared hours let gangsters attack protesters

42111 months ago riot police beaten passengers prince edward station arbitrarily it suspected passengers beaten death related cctv disclosed till nw

67433 this lady carried us flag shopping mall n dragged n arrested by many riot po_ice here obviously nation flags r

45534 illegal thing say also group students arrested charge attempting split yhe nation posting facebook post

69576 on contrary hkgov made books famous now more people going find ways read them like mainlnders used come hk read banned books

85428 a uni student possession pipe month sentence a girl related possession kg ketamine walk away with absolutely nothing

72368 oh liberate hk revolution time liberate hk revolution time

6.0 Reading Between the Lines

We will outline the key findings for both separately & then finish with an overall summary of the Sentiment & Topic Analysis for the HK NSL found in the thirty (30) News Articles & 163,699 Tweets.

News | The findings for each of the four (4) categories on the equally split News is below:

- **China Negative** | 10 Topics
 - The violence of protestors
 - Foreign interference in China & HK's internal affairs
 - A misunderstanding of the pure intent of the NSL by the West
 - China's firm belief that the NSL will lead to long term stability & prosperity in HK
 - *China believes the West perceives this as incorrect, ignoring or misunderstands the NSL's intent from their position*
- **International Negative** | 10 Topics
 - Their belief of the NSL's infringement on Common Law
 - Their credence towards the vagueness of the language used in the NSL
 - Their position on the NSL's potential ramifications
 - *They outline China's opinion as well*
 - The actions & tactics of police & protestors respectively
- **China Positive** | 11 Topics
 - The NSL is for safeguarding the majority of HK people
 - Although the West are making false accusations, Carrie Lam, HK business & 53 countries are in support of the NSL
 - The HK people are open to the NSL & celebrating it
- **International Positive** | 17 Topics
 - Dominated with mentions of China's opinion & words which may be classified as Positive
 - Support for the NSL from HK's legislator & Public
 - China's diplomatic ties with Japan have improved
 - Solidarity amongst protestors

We will **outline the four (4) sub-categories** all together **in a few sentences** for each:

- **China Positive**
 - China believes that the NSL will safeguard the majority of the people & bring long-term prosperity to HK as well. The HK govt & businesses support the NSL as well as the HK people who are celebrating it
- **China Negative**
 - The International community both misunderstands the purity of the NSL & are interfering in China's internal affairs
- **International Negative**
 - They believe the NSL infringes on Common Law, is written in a vague enough way to allow Beijing to manipulate the NSL in a way that represents their best interests while infringing on the freedom of the HK people
- **International Positive**
 - The International News mentions China's position & a great number of positive words are used; thus, they will come up as a positive sentence albeit are not interpreted as positive when reading. The objectively positive comments are mentions of the protestor's solidarity as well as mentions of the HK govt's support for the NSL

Finally, **a few sentences for the two (2) main categories**:

- **China News** believes the NSL will safeguard the majority of the people & bring long-term prosperity to HK; these are things the HK govt, HK businesses, & 53 countries support; as well as the HK people who are celebrating it. The West misunderstands China's intentions & wishes they stay out of China's internal affairs
- **International News** believes the NSL infringes on Common Law, is written in a vague enough way to allow Beijing to manipulate the NSL in a way that represents their best interests while infringing on the freedom of the HK people. Aside from mentioning China's position & the HK govt's support for the Law, there was not much positivity towards the NSL itself

Twitter | The 163,699 Tweets fell into four (4) categories listed below:

- Appreciation for the support coming from abroad
- Comradery towards their fight against the NSL & perceived ramifications of the it
- Distrust towards China & their perceived intentions for the NSL
- Dissatisfaction of how the police & the HK gov't are handling it

Finally, a few sentences to summarize the Tweets:

- Tweeters believe that China may one day use the NSL to treat HK in a way similar to Tibet, Xinjiang (the Uighurs) & the Tiananmen Massacre; which they don't speak positively about. To mitigate this perceived risk, they appreciate the support of the free world, which may be classified as the UK, Australia, Taiwan & the USA. The Tweeters believe they should band together in unity to overcome this perceived risk

The International News & Tweets Connection

As mentioned in the beginning of this report, the **Tweeters are expected to be almost exclusively from outside of China**. Their alignment with their categories & those seen with the International News was expected & outlined below:

- They **both mention the comradery of the protestors** in a positive manner
- Believe that **the NSL** infringes on Common Law & **will infringe on the freedom of the HK people**
- **Tweeters explicitly express distrust towards China** & their intentions of the NSL while the International **News alludes to this idea** by mentioning the vagueness in which it was written
- Tweeters mention the protestors engagement with police more than the International News

Reading Between the Lines for Both

The narrative which connects them all may be summarized below:

- China believes that the NSL will safeguard the people of HK & bring long-term prosperity to HK while conversely the International community, including the Tweeters, believe the NSL infringes on Common Law & will infringe on the freedom of the HK people
- China identifies the International position but believes they have a misunderstanding of the pure intent of the NSL. International News also mentions China's position albeit believe China incorporated vague wordage to possibly serve other intentions. The Tweeters believe that certain media groups misjudge their intentions & believe protests are their only way to achieve the society they wish for
- China believes that the International community should stay out of Chinese affairs & the Tweeters are thankful for the engagement / support from the International community
- China's position on police engagement is justified given the actions of the protestors. International News highlights the engagements while Tweeters convey a belief that the police are going above their call of duty

Please note, this Data Science project was completed in September 2021 but the data is from June - Aug 2020. Much may have changed but that would fall outside the scope of this project.

7.0 Next Steps

Throughout the process there were a number of things I either wanted to change or add. I will outline those below between Twitter, the News or both:

- **Twitter**
 - Translation. Google Translate sent a notable amount of errors. Given time constraints we had to limit the data frame to English.
- **News**
 - There were some inclusions of text not applicable to the News including references to another article & formatting text such as "/n" or "/t". I do not believe the latter presents an issue on Sentiment scores but removing these would benefit the professional nature. References that are not applicable to the News may but don't contribute enough to throw the process offline.
- **Both**
 - The Count Vectorizer data was not used herein. Thus, re-examining the data frames with attention to them may help.

Appendix I

	file_name	date	source	country	local	title		article	word_count
0	bbc_1	2020-06-30	BBC	UK	Intl	Hong Kong security law: What is it and is it w...	China has passed a wide-ranging new security l...	15490	
1	bbc_2	2020-07-01	BBC	UK	Intl	Hong Kong's new security law: Why it scares pe...	China has introduced a new national security l...	6021	
2	nytimes_3	2020-06-28	NY Times	US	Intl	What China's New National Security Law Means f...	Chinese lawmakers have approved a national sec...	4028	
3	forbes_4	2020-07-01	Forbes	US	Intl	Hong Kong Makes First Arrests Under Beijing's ...	Share to FacebookShare to TwitterShare to Link...	4408	
4	insider_5	2020-08-02	Insider	US	Intl	Teenage arrests, blank protest signs, and a ke...	Thursday, July 30, marked one month since Chin...	6326	
5	abc_6	2020-07-01	ABC News	US	Intl	What's in Hong Kong's new national security la...	The full details of the controversial national...	2420	
6	cnn_7	2020-07-03	CNN	US	Intl	Hong Kong's security law could have a chilling...	London (CNN Business)Hong Kong insists its vib...	5683	
7	nypost_8	2020-07-01	NY Post	US	Intl	Hong Kong police arrest over 300 in first prot...	Hong Kong police arrested more than 300 people...	1712	
8	nippon_9	2020-08-14	Nippon	Japan	Intl	Hong Kong's Security Law: How Should Japan Res...	Growing Private and Governmental Support for H...	6367	
9	bbc_10	2020-06-30	BBC	UK	Intl	Hong Kong security law: Anger as China's Xi si...	The UK, EU and Nato have expressed concern and...	11881	
10	bbc_11	2020-06-30	BBC	UK	Intl	Hong Kong security law: Minutes after new law...	On Tuesday morning, the news started to break ...	4712	
11	bbc_12	2020-07-08	BBC	UK	Intl	Hong Kong security law: Beijing security offic...	A new national security office has been offici...	3238	
12	bbc_13	2020-07-05	BBC	UK	Intl	Hong Kong security law: Pro-democracy books pu...	Books by pro-democracy figures have been remov...	4325	
13	bbc_14	2020-06-30	BBC	UK	Intl	Hong Kong security law: Life sentences for bre...	People in Hong Kong could face life in jail fo...	6500	
14	theDiplomat_15	2020-07-01	the Diplomat	US	Intl	Hong Kong Through Water and Fire	Credit: AP Photo/Kin CheungAdvertisementIt has...	9868	
	file_name	date	source	country	local	title		article	word_count
15	peoples_daily_1	2020-07-03	People's Daily	China	Local	Newly passed national security law a seawall s...	The Law of the People's Republic of China on S...	3486	
16	peoples_daily_2	2020-07-02	People's Daily	China	Local	Hong Kong national security law helps ensure I...	On June 30, the Standing Committee of the 13th...	8028	
17	peoples_daily_3	2020-07-02	People's Daily	China	Local	Law and order dawns in Hong Kong as new law ta...	-- The festive mood across Hong Kong on the 23...	9627	
18	peoples_daily_4	2020-07-02	People's Daily	China	Local	National Security Law paves the way for more p...	Hong Kong, the popular Asian city, returned to...	9498	
19	peoples_daily_5	2020-07-02	People's Daily	China	Local	HKSAR national security law to put HK back on ...	Zhang Xiaoming, deputy director of the Hong Ko...	6744	
20	globaltimes_6	2021-04-19	Global Times	China	Local	Biased tone, misinformation 'major mistakes' b...	Victor Gao (center), chair professor of Soocho...	16593	
21	globaltimes_7	2020-07-06	Global Times	China	Local	London's measures meaningless, 'bluff rather t...	A Huawei store stands next to a Globe Telecom ...	2960	
22	globaltimes_8	2020-06-30	Global Times	China	Local	National Security Law to protect HK democracy...	Hong Kong citizens on Tuesday gather to suppor...	3711	
23	min_foreign_aff_9	2020-07-20	Ministry of Foreign Affairs	China	Local	Ambassador Liu Xiaoming Gives Exclusive Live I...	On 19 July 2020, H.E. Ambassador Liu Xiaoming ...	5324	
24	min_foreign_aff_10	2020-07-01	Ministry of Foreign Affairs	China	Local	Foreign Ministry Spokesperson Zhao Lijian's Re...	In recent years, the US government has placed ...	18122	
25	xinhua_11	2020-05-16	Xinhua	China	Local	IPCC's report comprehensive, objective, fact-b...	Video PlayerClose\n\n\nCarrie Lam, chief exe...	806	
26	xinhua_12	2020-07-01	Xinhua	China	Local	China adopts law on safeguarding national secur...	Video PlayerClose\n\n\nLi Zhanshu, chairman...	4315	
27	theStandard_13	2020-08-26	the Standard	China	Local	State media says Hong Kong has a toxic 'Apple'	State media People's Daily today published an ...	3079	
28	china_daily_14	2020-06-20	China Daily	China	Local	Wide support for proposed national security law	Residents sign to support the national securit...	4294	
29	hkgovt_15	2020-06-30	Hong Kong Gov't	Hong Kong	Local	CE welcomes passage of The Law of the People's...	In response to the passage of The Law of the P...	6143	

([back](#))

Appendix I

Column	Description
0	file_name File name (csv) which can be found in the data section of GitHub
1	date UTC time when the News was reported.
2	source The News source of the article.
3	country Where it News was reported; i.e. the country of the News source.
4	local The differentiator between Chinese & International news
5	title The Title of the News source.
6	article The body of the News.
7	word_count The total number of words before regex.

([back](#))

Appendix II

	hash	created_at	username	tweet	language	replies_count	retweets_count	likes_count	reply_to	hashtags
7	#FightForHongKong	2020-08-23	cipopolitik	China will never stop. #HongKongProtest #Figh...	en	0	0	0	□	['hongkongprotest', 'fightforhongkong', 'prayf...
8003	#HongKongProtest	2020-06-04	paulisally	Hong Kong Police is MURDERER!!!!!! 총총 경찰은 살인범...	ja	0	0	1	□	['policebrutality', 'hongkongpolice', 'hongkon...
8503	#PrayForHongkong	2020-06-30	cartwheelwombat	Please pray for Hong Kong. You can follow him...	en	1	2	2	□	['prayforhongkong', 'standwithhongkong', 'hong...
9025	#WeAreNotAlone	2020-07-04	whats_a_gurg	There's not much more satisfying than seeing o...	en	0	0	0	□	['wearenotalone', 'questioneverysthing']
9307	#nochinaextradition	2020-05-31	techno_tech4u	'Remove China Apps' crosses 1 million download...	en	0	0	0	□	['china', 'chinaapp', 'antichina', 'nochinaext...
24003	#standwithhongkong	2020-08-17	minsuga1993309	Please #StandWithHongKong!	en	0	0	1	□	['standwithhongkong']
175007	#hkprotests	2020-08-24	juniushogodie	It's also the 1st time MTR closed its station ...	en	0	7	17	□	['hkprotests']
180023	#freehongkong	2020-08-27	pppongo	@StateDept @SecPompeo Thank you U.S so much fo...	en	0	0	0	□	['screen_name': 'StateDept', 'name': 'Departm...', 'standup4humanrights', 'standwithhongkong', ...]
260001	#hkpolicebrutality	2020-06-16	akaribug	They keep telling us to trust a liar while tur...	en	0	1	0	□	['hkpolicebrutality', 'xinjiang', 'standwithho...
280017	#hkpolicestate	2020-06-14	ylye33	A 17 years old girl was attacked by the #HKpol...	en	0	0	3	□	['hkpolice', '612protest', 'hkpolicebrutality']
288002	#hkpolicererrorism	2020-06-08	leung18188868	@foxxthepopoo @koshi2008 They are not police. ...	en	0	1	0	□	['screen_name': 'foxxthepopoo', 'name': 'ianfh...', 'hkpolicebrutality', 'hkpolicererrorism', 'hk...
284002	#HKpolicererrorist	2020-07-25	bethenewyorkers	@PENamerica Journalists are always the target ...	en	0	2	2	□	['screen_name': 'PENamerica', 'name': 'PEN Am...', 'hkpolicererrorist', 'nationalsecuritylaw']

Column	Description
0	hash
1	created_at
2	username
3	tweet
4	language
5	replies_count
6	retweets_count
7	likes_count
8	reply_to
9	hashtags

([back](#))

Appendix III

[-- Non-ascii & Unclean Values | Conversion --]

```
df_news_title.title[27]
'State media says Hong Kong has a toxic 'Apple'

df_news_title['title'] = df_news_title['title'].str.replace(r'"', '\\"')
df_news_title['title'] = df_news_title['title'].str.replace(r'\'', '\"')

df_news_title.title[27]
"State media says Hong Kong has a toxic 'Apple'"
```

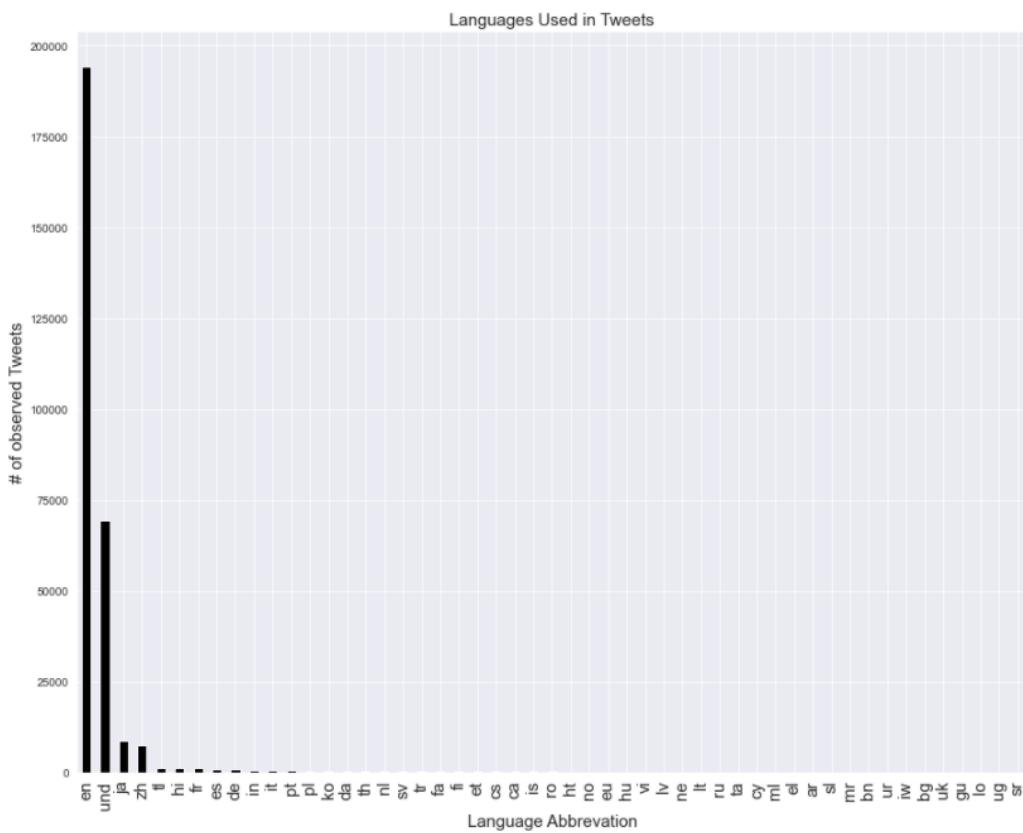
[-- Sentiment Intensity Analyzer, News Title's & Article's | Statistics --]

	comp_title	neg_title	neu_title	pos_title
count	30.000000	30.000000	30.000000	30.000000
mean	0.204997	0.093133	0.688767	0.218067
std	0.428156	0.145032	0.150645	0.157375
min	-0.859100	0.000000	0.432000	0.000000
25%	-0.051450	0.000000	0.593500	0.125750
50%	0.295000	0.000000	0.675000	0.197000
75%	0.575000	0.198000	0.784000	0.317500
max	0.848100	0.568000	1.000000	0.535000

	comp_article	neg_article	neu_article	pos_article
count	30.000000	30.000000	30.000000	30.000000
mean	0.338153	0.087933	0.795733	0.116567
std	0.897364	0.035946	0.034230	0.036774
min	-0.997900	0.013000	0.710000	0.064000
25%	-0.754575	0.068500	0.772500	0.089000
50%	0.979150	0.093500	0.785500	0.115500
75%	0.996675	0.110000	0.822750	0.132500
max	0.999600	0.145000	0.860000	0.207000

([back](#))

Appendix IV



```

hash           12      en    194087
created_at     91      und   69375
username       45111    ja    8715
tweet          221205    zh    7327
language        51      tl    1254
replies_count   217     hi    1207
retweets_count  881     fr    1046
likes_count     1110    es    908
reply_to        27555    de    892
hashtags        77715    in    507
dtype: int64

Name: language, dtype: int64
Name: language, dtype: float64

```

```

df_tweets_w_dup[df_tweets_w_dup['language'].str.contains('und')]['tweet']

9      https://t.co/8lgfzmGtav #lukashenko #Tikhan...
17     #FreeAgness #FightForFreedom #StandWithHongKon...
18     #Hongkongers #hongkong #beijing #china #HongK...
20     #boycottchina #hongkong #freehk #boycottmulan ...
21     https://t.co/B5KWeYZE6t #boycottchina #hongko...
...
288397  #HKPoliceState #HKPoliceBrutality #HKTotallita...
288402  @IndyWorld #HKPoliceState #HKPoliceTerrorism
288406  #香港警察 #港警是施虐者 #hkpolicebrutality #HKPoliceTerr...
288408  @SpokespersonCHN #ICantBreathe #Icannotbreathe...
288415  #HongKongProtest #StandwithHK #HKPoliceTerrori...
Name: tweet, Length: 69375, dtype: object

```

([back](#))

[-- Mentions to other Users, Removal--]

df[['hash', 'created_at', 'tweet']].head(1)			
hash	created_at	tweet	
0 #FightForHongKong	2020-08-28	@benedictrogers @NOW4humanity Thanks for speak...	
df['tweet'] = df['tweet'].str.replace("@[A-Za-z0-9]+", "")			
df[['hash', 'created_at', 'tweet']].head(1)			
hash	created_at	tweet	
0 #FightForHongKong	2020-08-28	Thanks for speaking up for us #fridaysforfre...	

[-- Links to Website, Removal --]

```
df['tweet'][9]
'Joshua Wong: 'Forms of resistance need to be fluid and flexible' #FightForHongKong #HongKongProtest https://t.co/COPnczKp4'

df['tweet'] = df['tweet'].str.replace(r'http\S+', '')

df['tweet'][9]
'Joshua Wong: 'Forms of resistance need to be fluid and flexible' #FightForHongKong #HongKongProtest '
```

[-- Emoji, Conversion --]

```
df.tweet[12]
'Heartbreaking...😢 we have to do whatever we can do to #FightForHongKong #StandWithHongKong'

df['tweet'] = df.tweet.apply(lambda x: convert_emojis_to_word(x))

df.tweet[12]
'Heartbreaking... loudly_crying_face we have to do whatever we can do to #FightForHongKong #StandWithHongKong'
```

[-- Profanity, Handling --]

```
df.tweet[58]
' CORRUPT AS NEGATIVE - [ ] #PL #PremierLeague #PremierLeagueIsCorrupt #NUFC #NUFCTakeover #Hongkongprotest #Uighurs #budfoo
tball #BudweiserUK #Nike #nikefootball #CarlsbergUK #AveryDennison #OfficialPanini #CocaCola_GB #CocaCola #barclaysuknews
#BarclaysFooty #EA #EASPORTS #TAGHeuer '
```

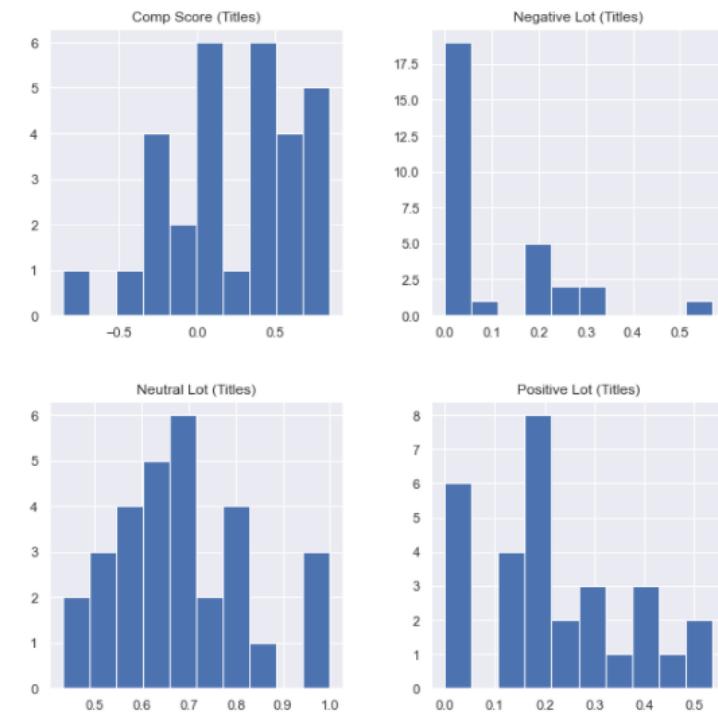
[-- Sentiment Intensity Analyzer, Twitter | Statistics --]

	comp	neg	neu	pos
count	163699.000000	163699.000000	163699.000000	163699.000000
mean	0.094896	0.102728	0.728009	0.169262
std	0.534622	0.124993	0.164952	0.161322
min	-0.990100	0.000000	0.078000	0.000000
25%	-0.361200	0.000000	0.616000	0.000000
50%	0.077200	0.065000	0.725000	0.144000
75%	0.539900	0.179000	0.835000	0.270000
max	0.998900	0.897000	1.000000	0.922000

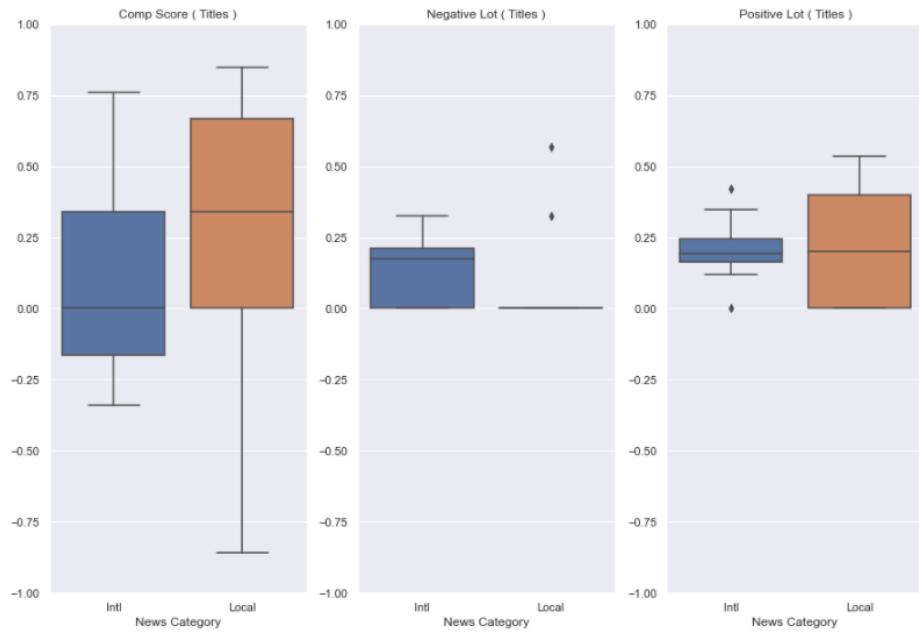
([back](#))

Appendix V

[Sentiment Intensity Analyzer Histogram, Titles]

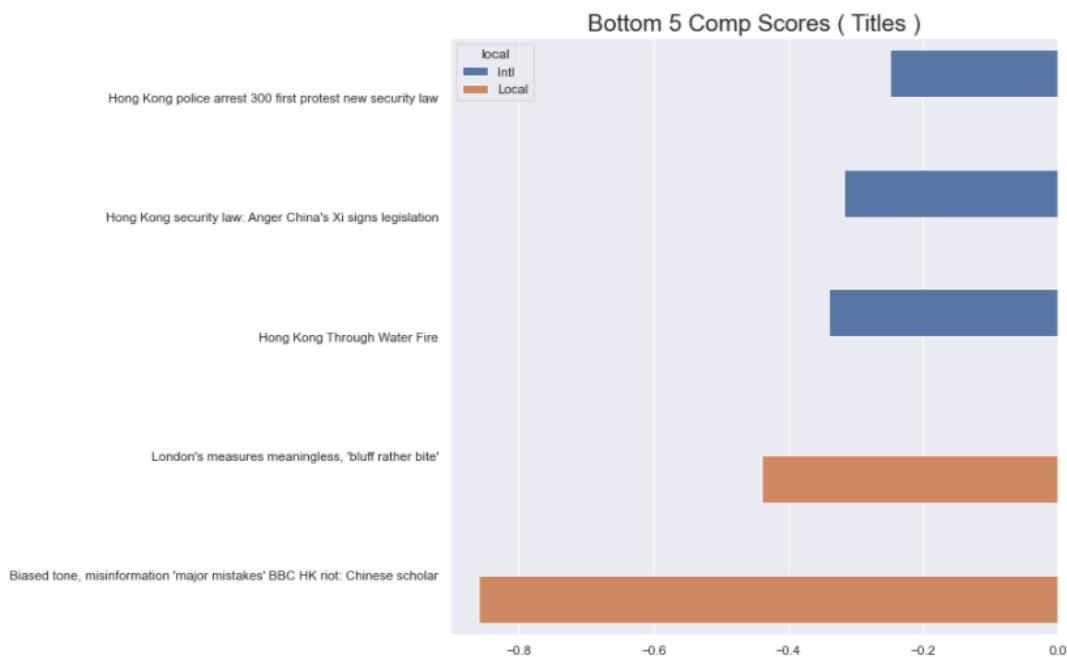
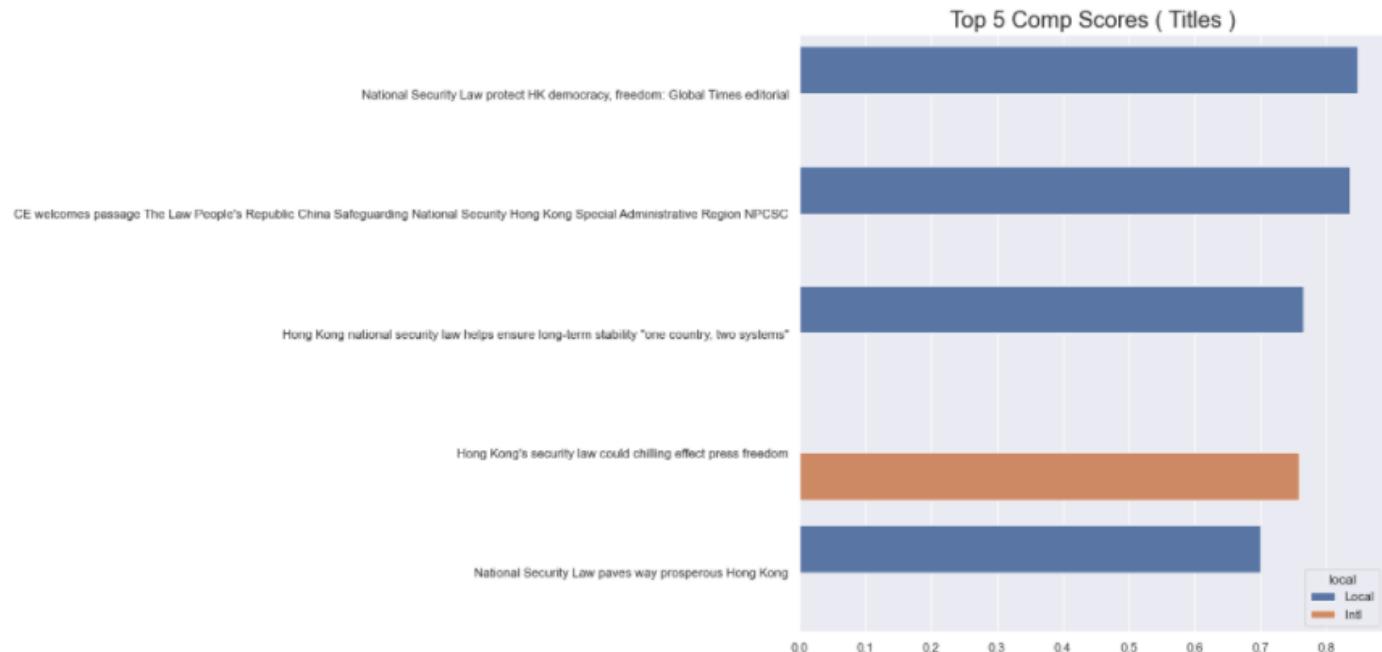


[Sentiment Intensity Analyzer Box Plot, Titles]



([back](#))

[Sentiment Intensity Analyzer Bar Charts, Titles]



([back](#))

[Word Clouds, Titles]

Nouns in the Titles



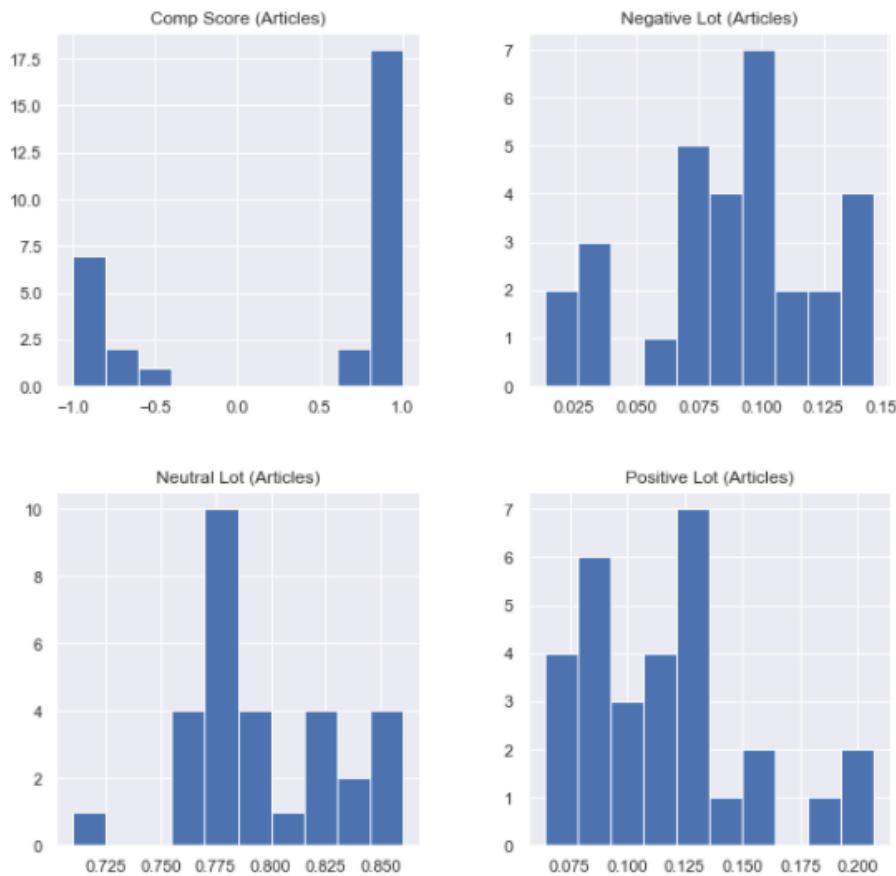
Adjectives & Verbs in the Titles



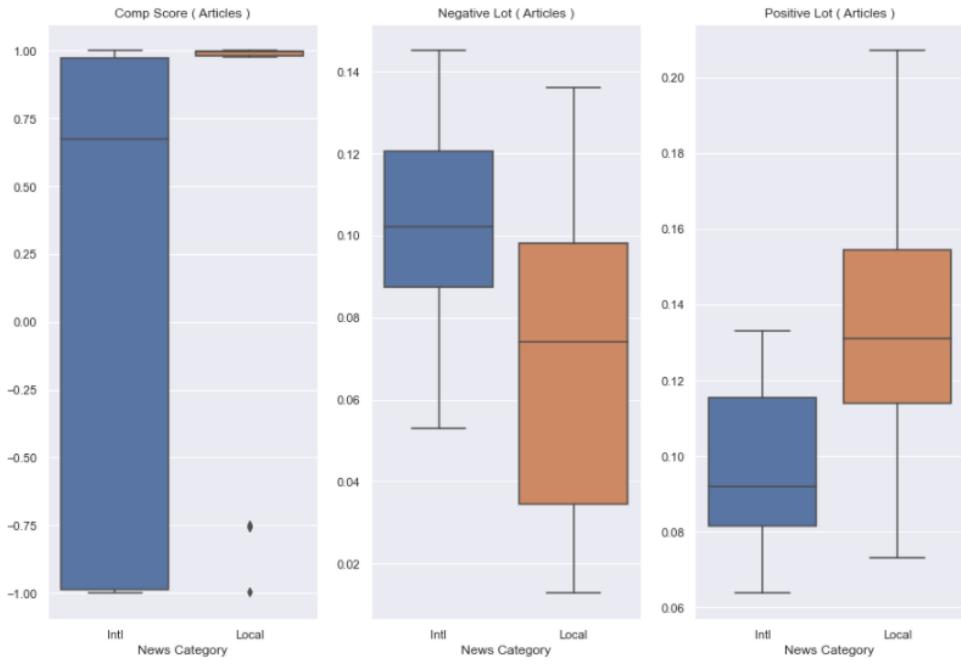
([back](#))

Appendix VI

[Sentiment Intensity Analyzer Histogram, Articles]



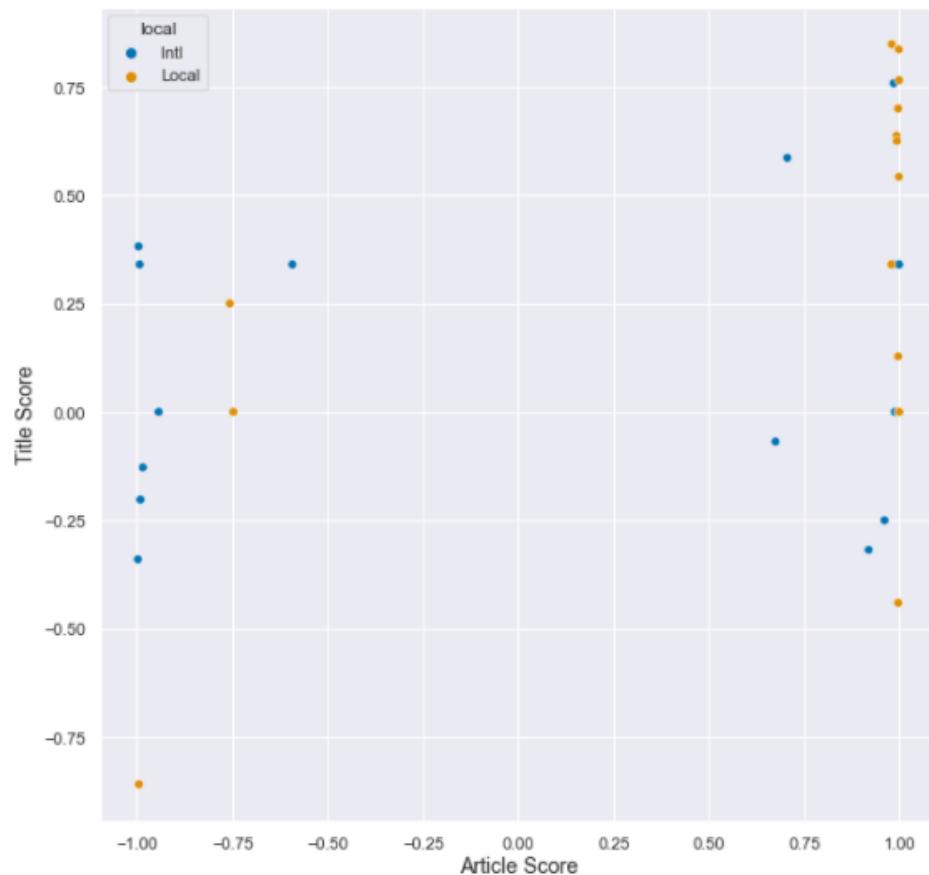
[Sentiment Intensity Analyzer Box Plot, Articles]



([back](#))

[Sentiment Intensity Analyzer Scatter Plot, Articles]

Comparing the Comp Scores between Articles & Titles



[Sentiment Intensity Analyzer Breakdown, Articles]

20 | Articles above 50%
10 | Articles below -50%

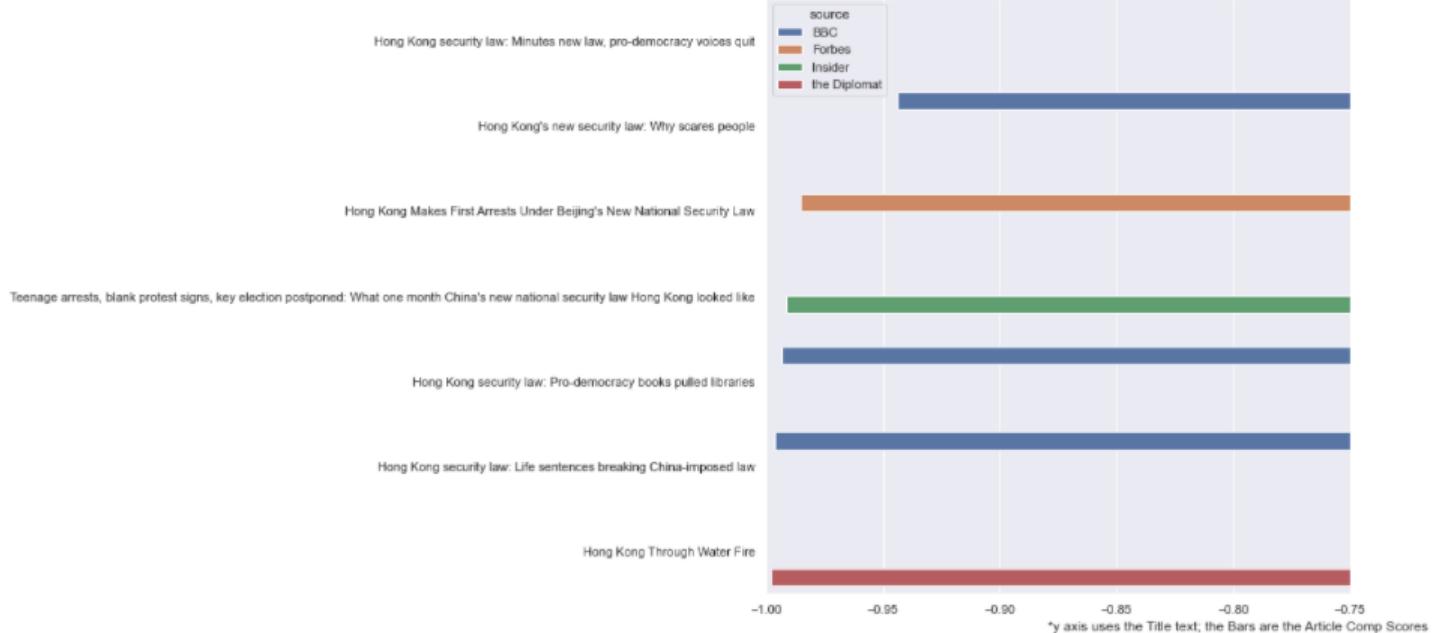
The breakdown between groups +50%:
China | 60.0 percent
Intl | 40.0 percent

The breakdown between groups -50%:
China | 30.0 percent
Intl | 70.0 percent

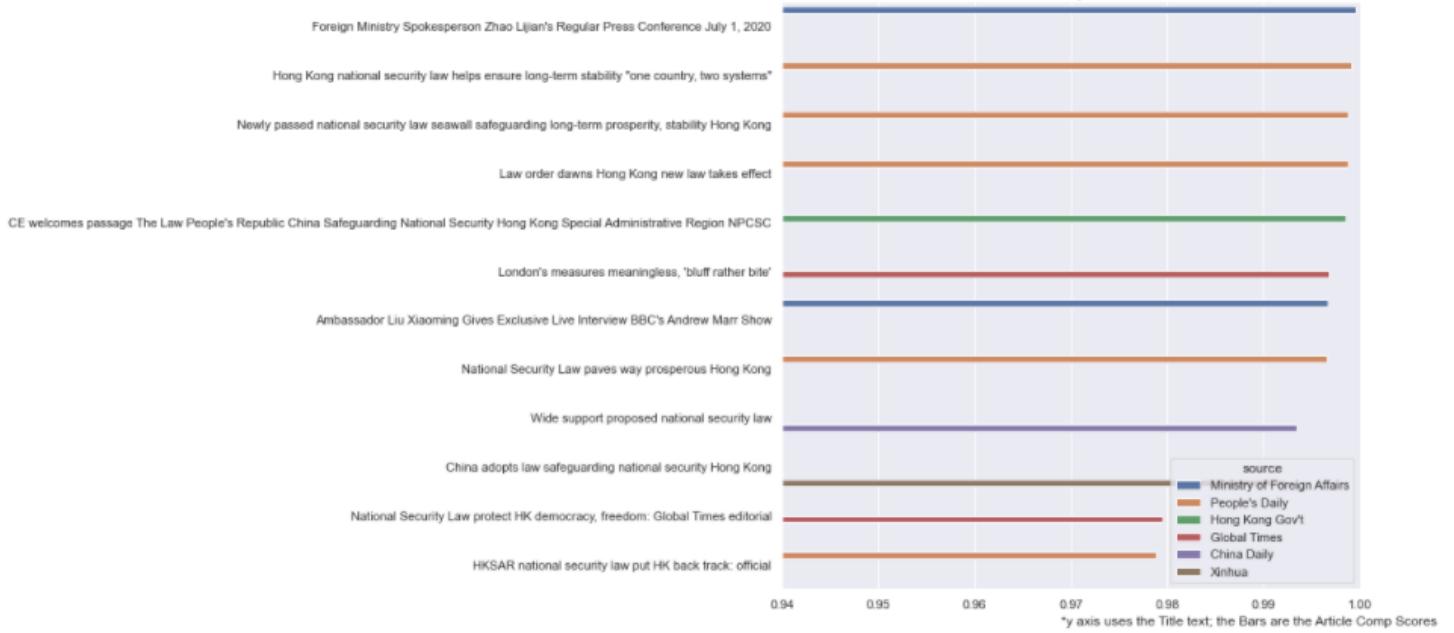
([back](#))

[Sentiment Intensity Analyzer Bar Charts, Articles]

Negative Articles by Int'l Sources



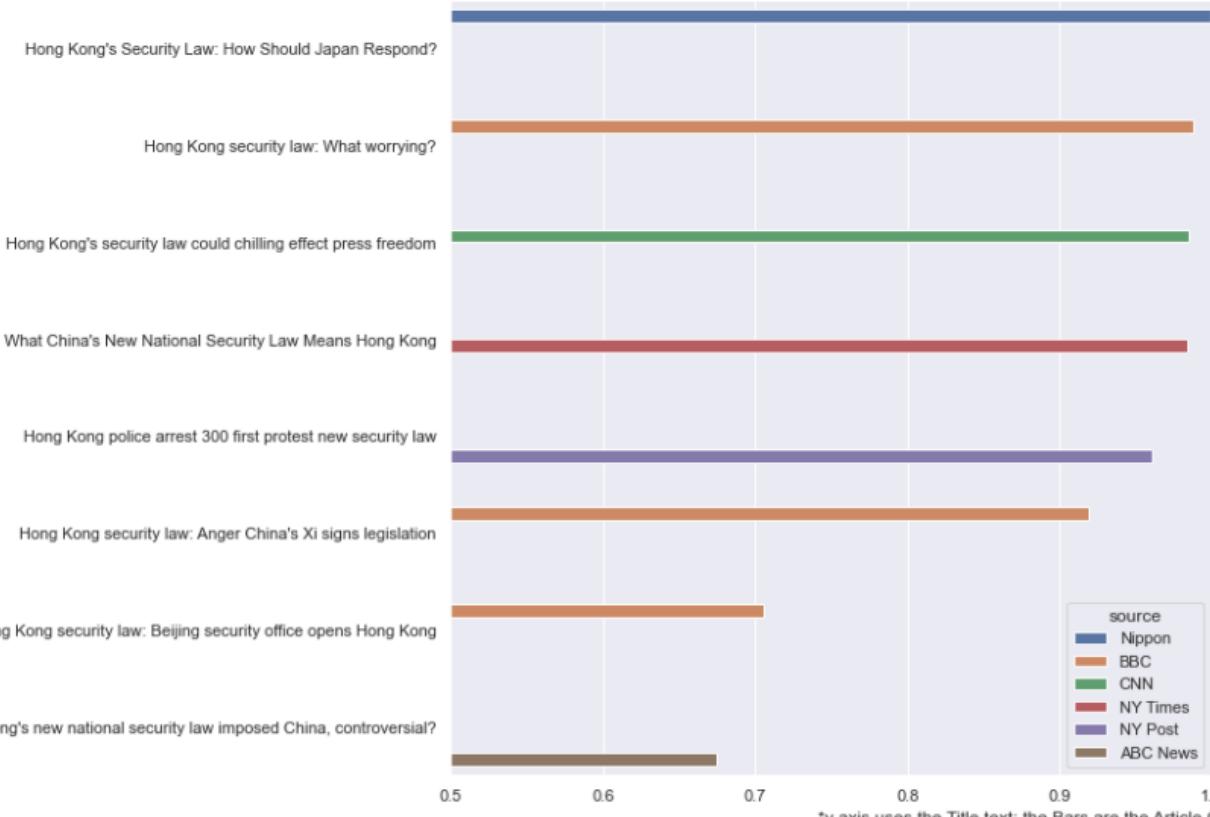
Positive Articles by China Sources



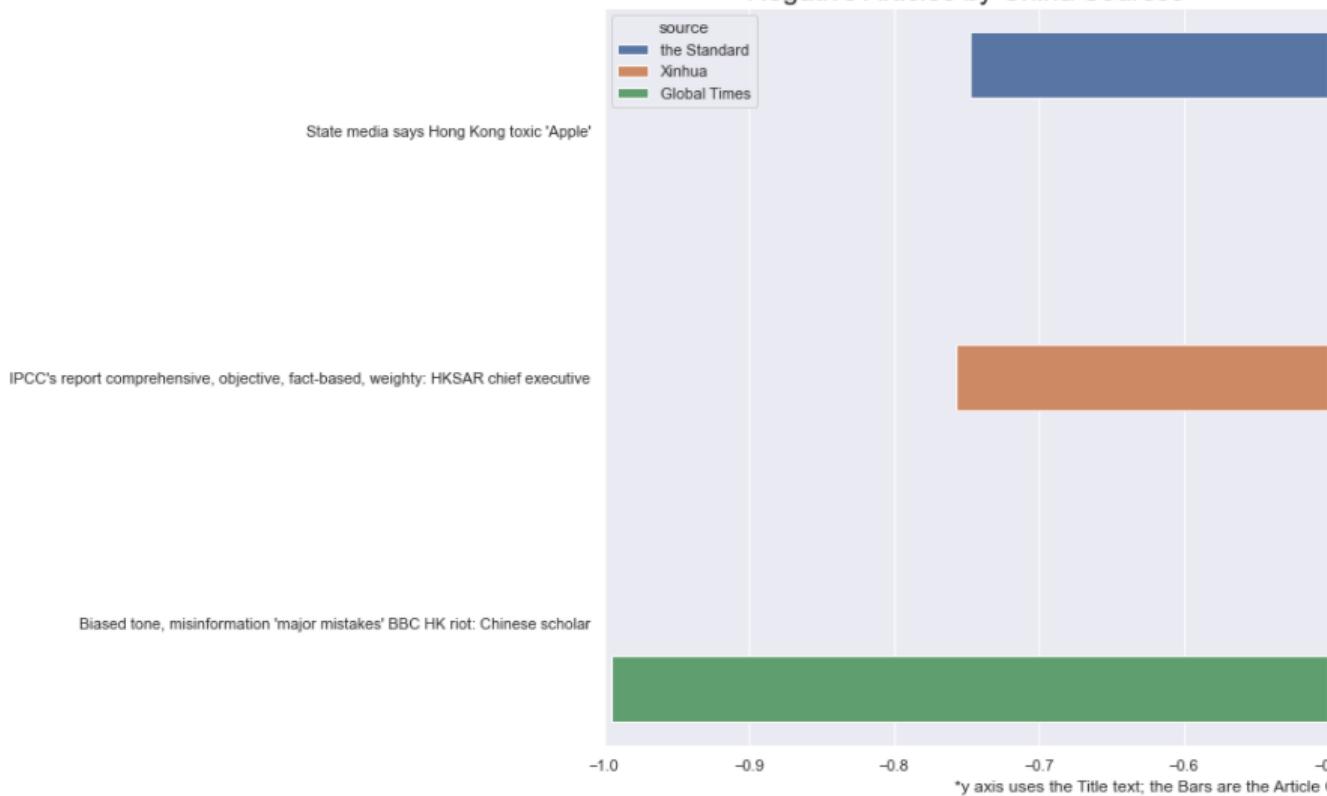
([back](#))

[Sentiment Intensity Analyzer Bar Charts, Articles]

Positive Articles by Int'l Sources



Negative Articles by China Sources



[\(back\)](#)

NLP Topic & Sentiment Analysis on the HK National Security Law, by Rand Sobczak Jr.

[Word Clouds, International Articles]

Adjectives & Verbs in the International Articles



Nouns in the International Articles

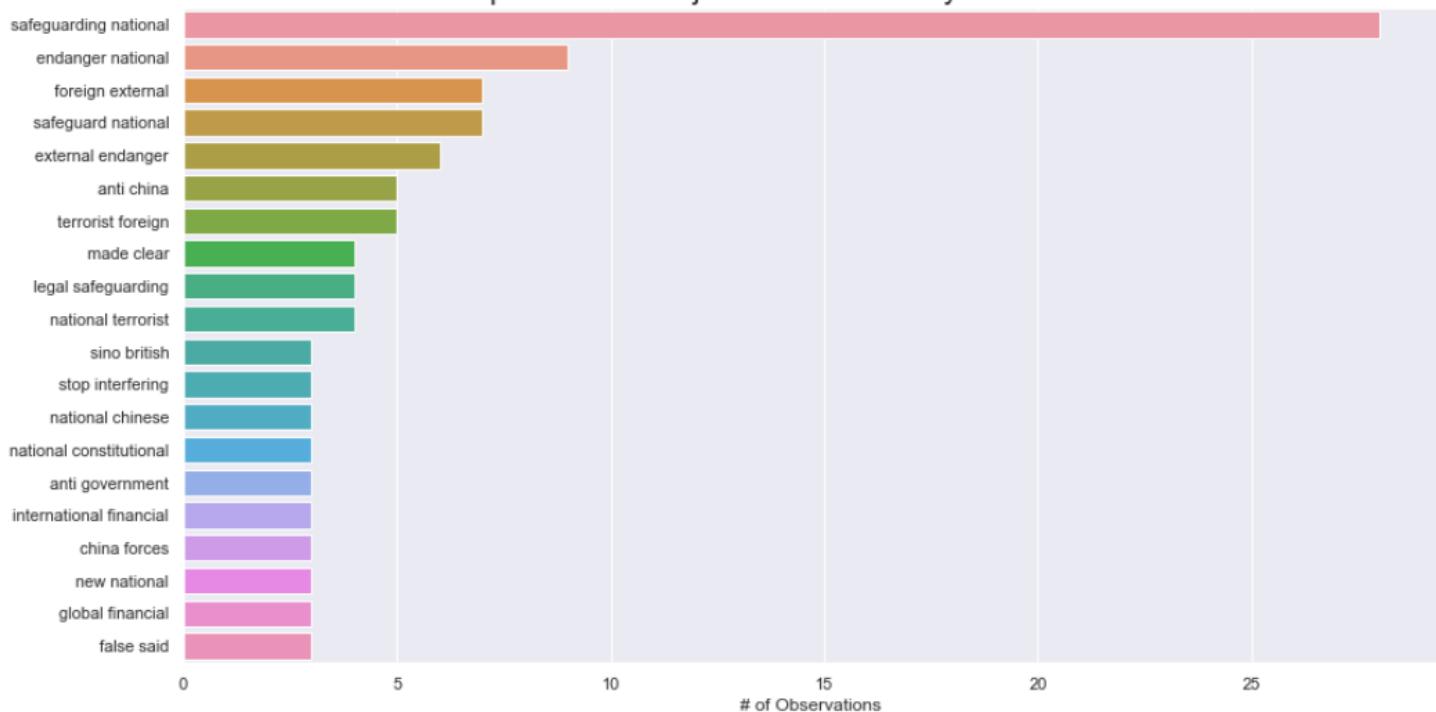


([back](#))

NLP Topic & Sentiment Analysis on the HK National Security Law, by Rand Sobczak Jr.

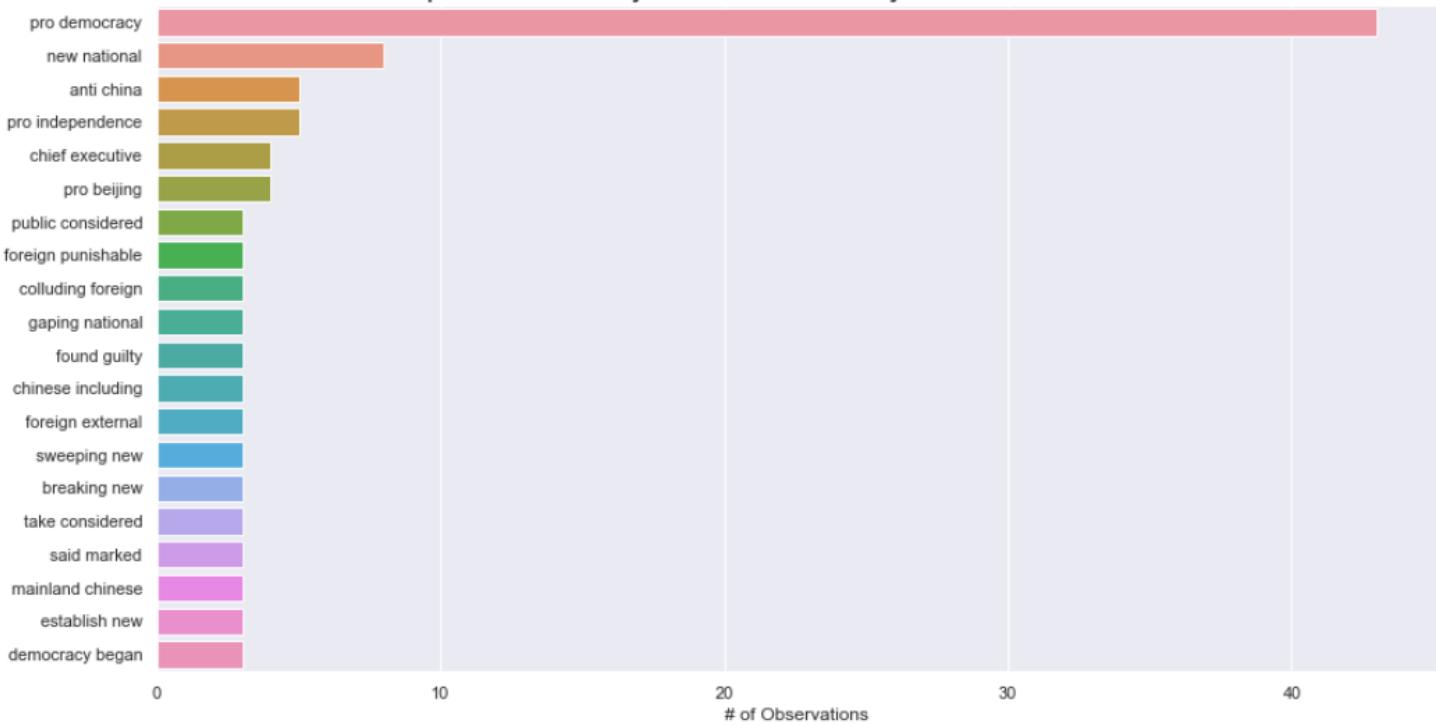
[Choice Words, Articles]

Top 20 Choice Adjectives & Verbs* by China Sources



*These are words arrived through a Bi-gram

Top 20 Choice Adjectives & Verbs* by International Sources

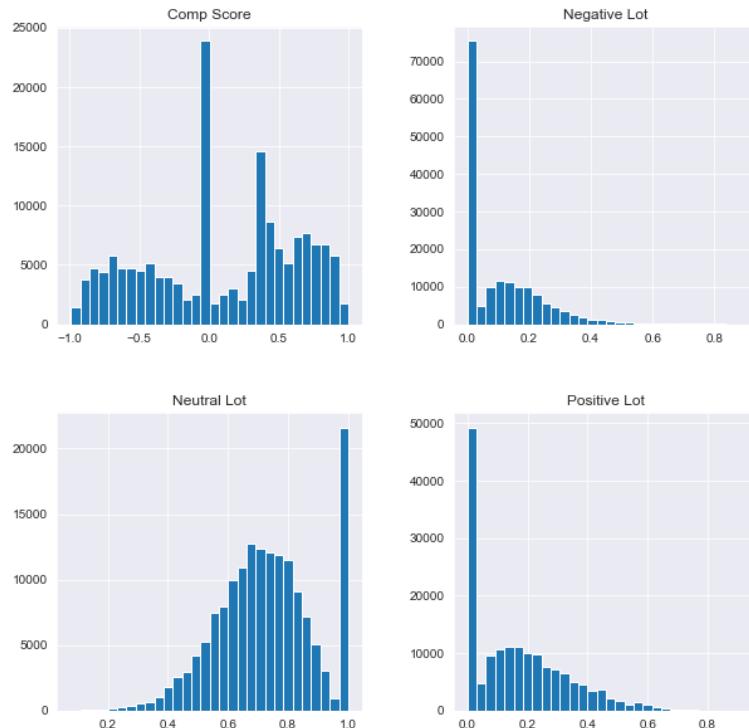


*These are words arrived through a Bi-gram

([back](#))

Appendix VII

[Sentiment Intensity Analyzer Histogram, Tweets]

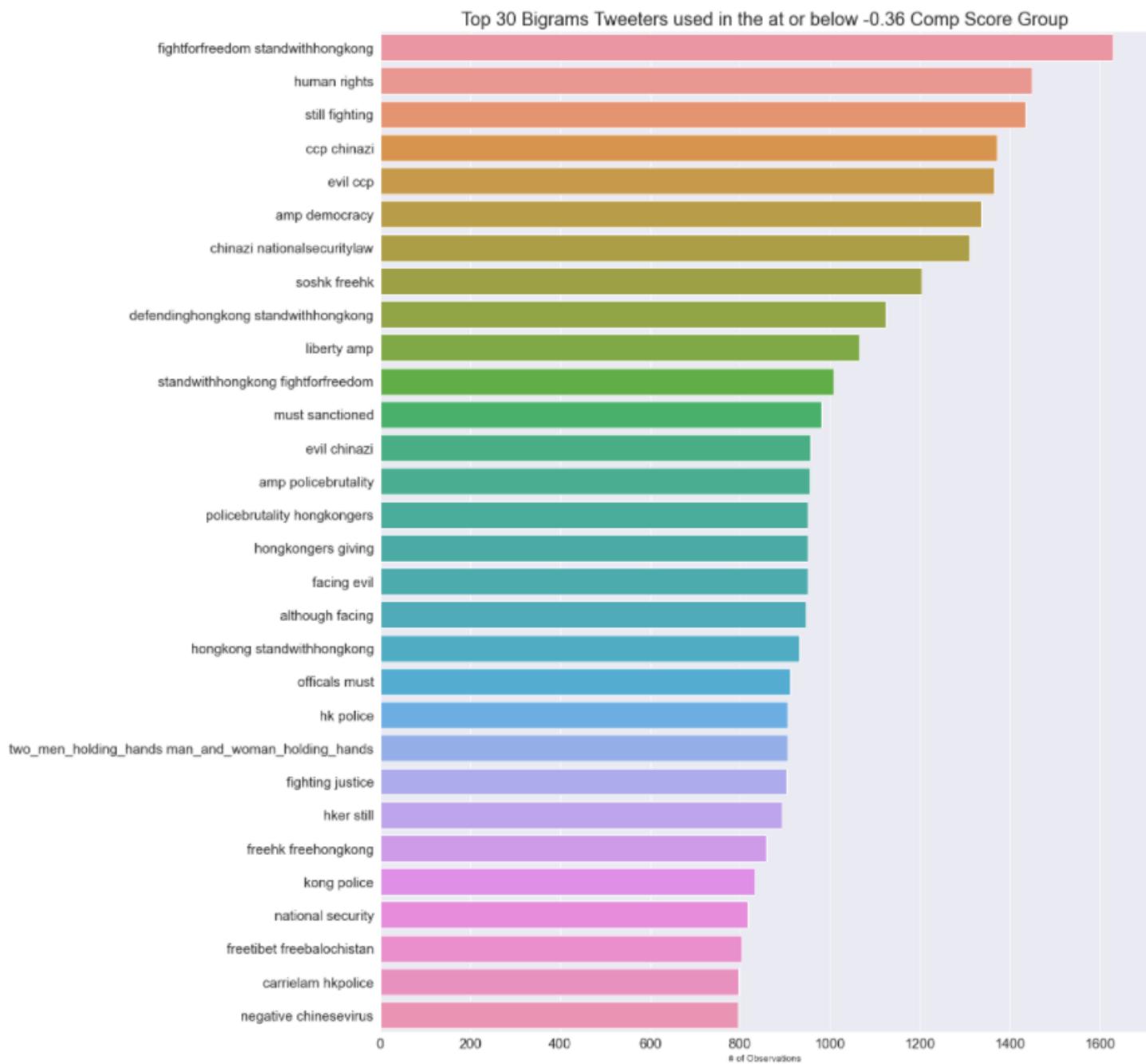


[Word Clouds, Tweets at or Below a -0.36 Comp Score]



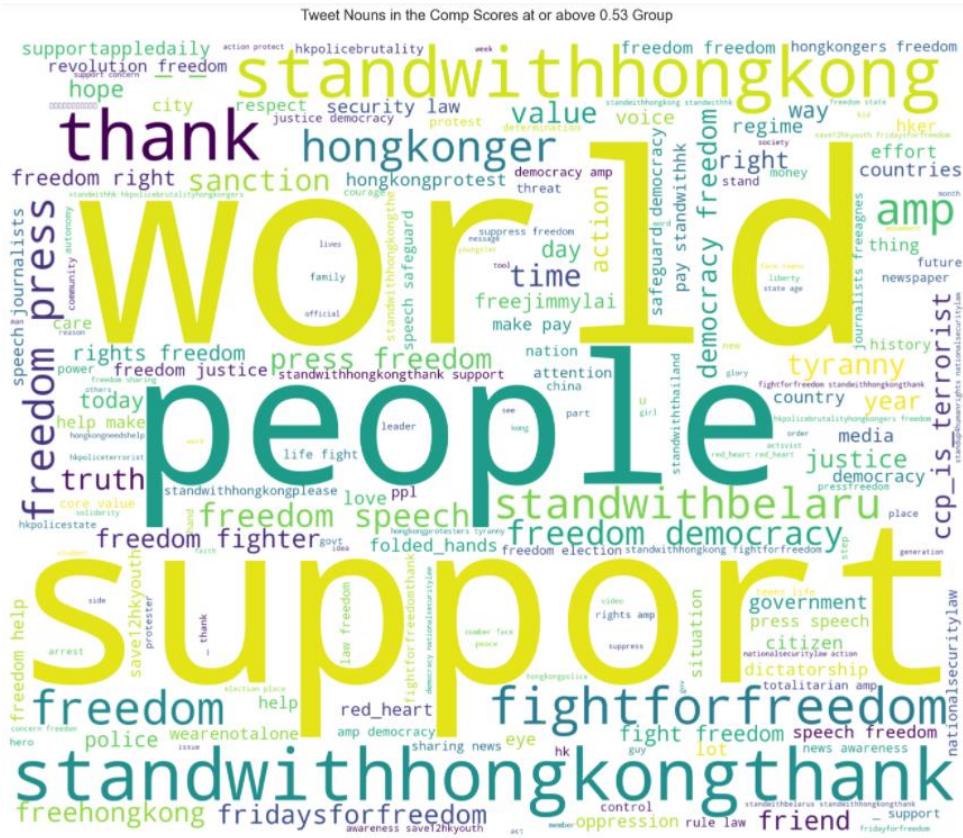
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[Choice Words, Tweets at or Below a -0.36 Comp Score]



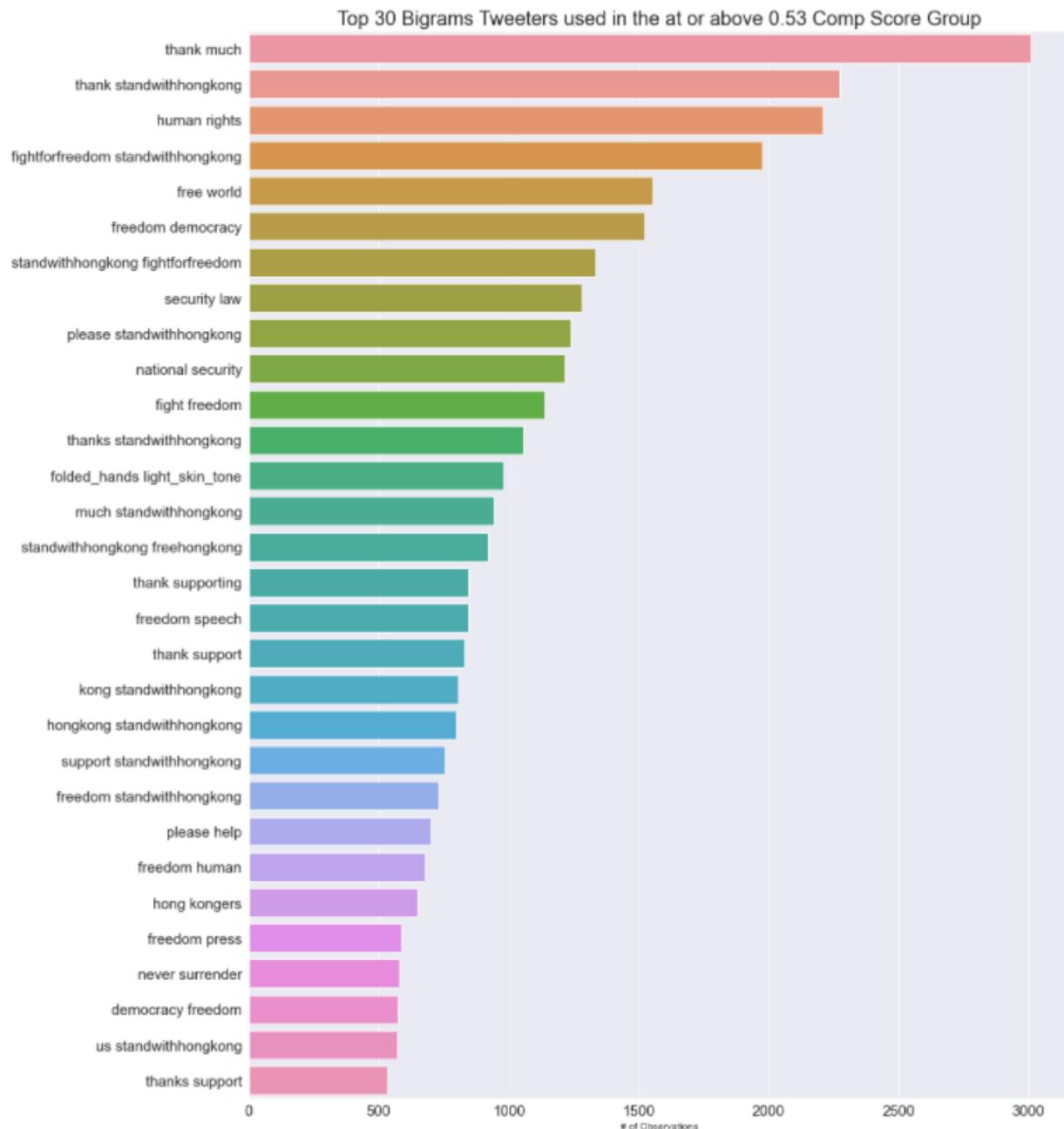
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[Choice Words, Tweets at or Above a 0.53 Comp Score]



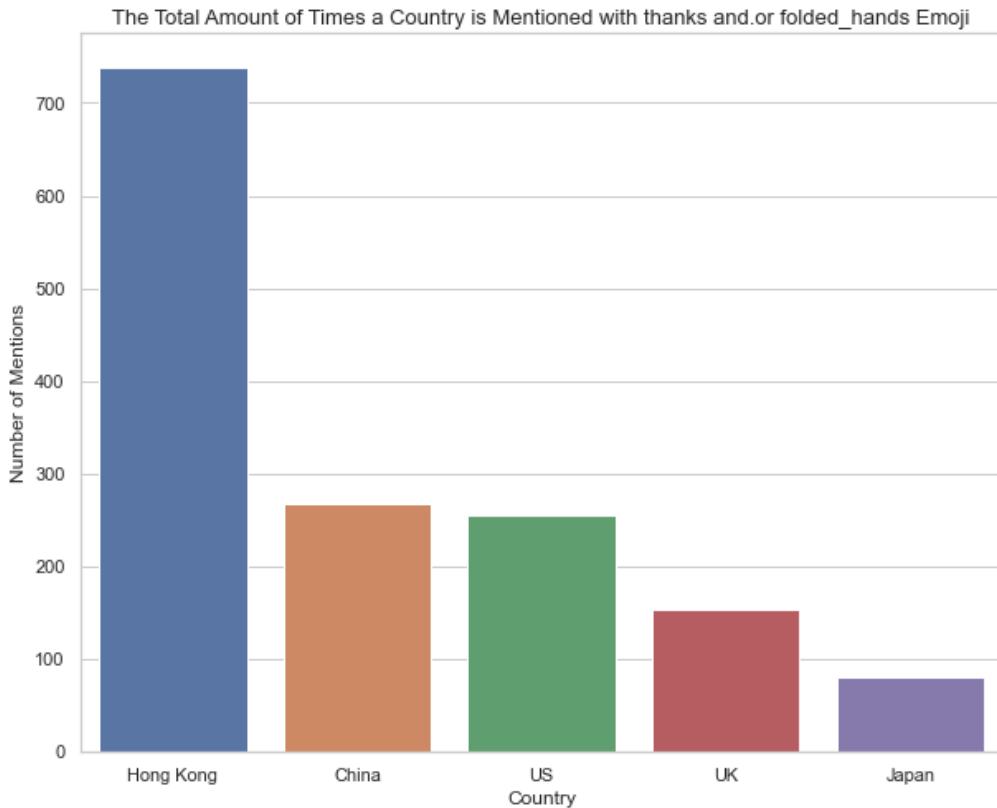
([back](#))

[Choice Words, Tweets at or Above a 0.53 Comp Score]



([back](#))

[Bar Chart, Tweets with use of the folded_hands Emoji]



[Tweets with use of the folded_hands Emoji & Mentions of China or USA]

Examples of observations with both thanks & folded_hands for China are below.

Thank #StandWithHongKong !!! We sincerely hope free world stand firm Communist China's human rights abuses Hong Kong. Many thanks folded_hands light_skin_tone

Deeply touched heartfelt thanks done #HK folded_hands light_skin_tone folded_hands light_skin_tone folded_hands light_skin_tone Always grateful international support fighting evil #CCPChina regime. #StandWithHongKong

Thank much #StandWithHongKong . folded_hands Although don't know actually plans, still thanks UK helps. #newwestberlin #5De mandsNot1Less #BoycottChina

Examples of observations with both thanks & folded_hands for the US are below.

Heartfelt thanks standing solidarity Hongkongers folded_hands Pls consider implementation #MagnitskyAct sanction CCP & HK officials violate "1country2systems" & "high autonomy" promises Joint Declaration fire Let JUSTICE done UK #StandwithHongKong

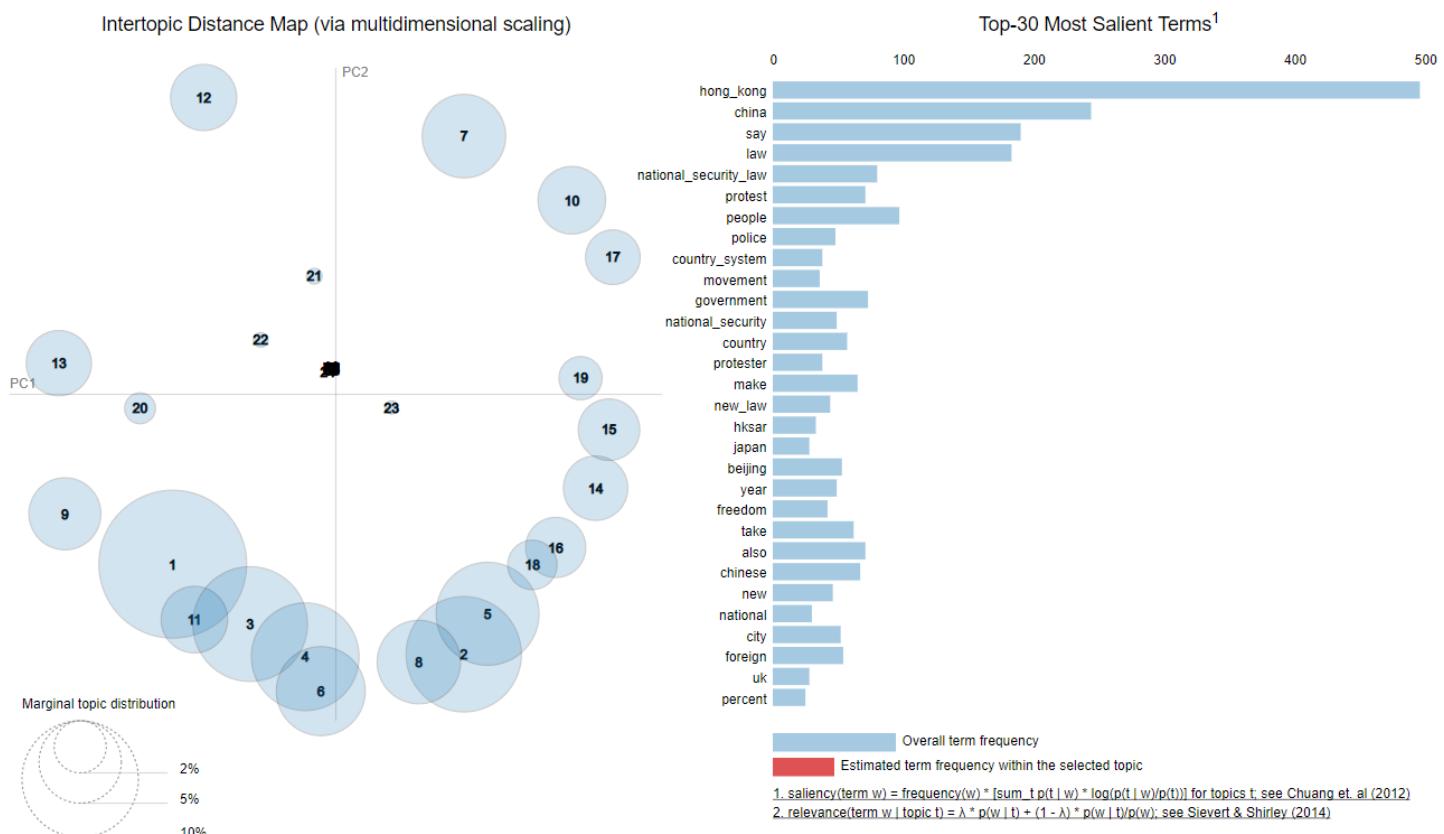
_nozomi Thank much US UK,thanks always supportive us red_heart folded_hands light_skin_tone #StandWithHongKong

As hongkonger, cannot save home without help US. We believe democracy freedom important everywhere world. HKers appreciate please see help ~ please save US HK folded_hands light_skin_tone #freehongkong #thanksTrump #thankUS

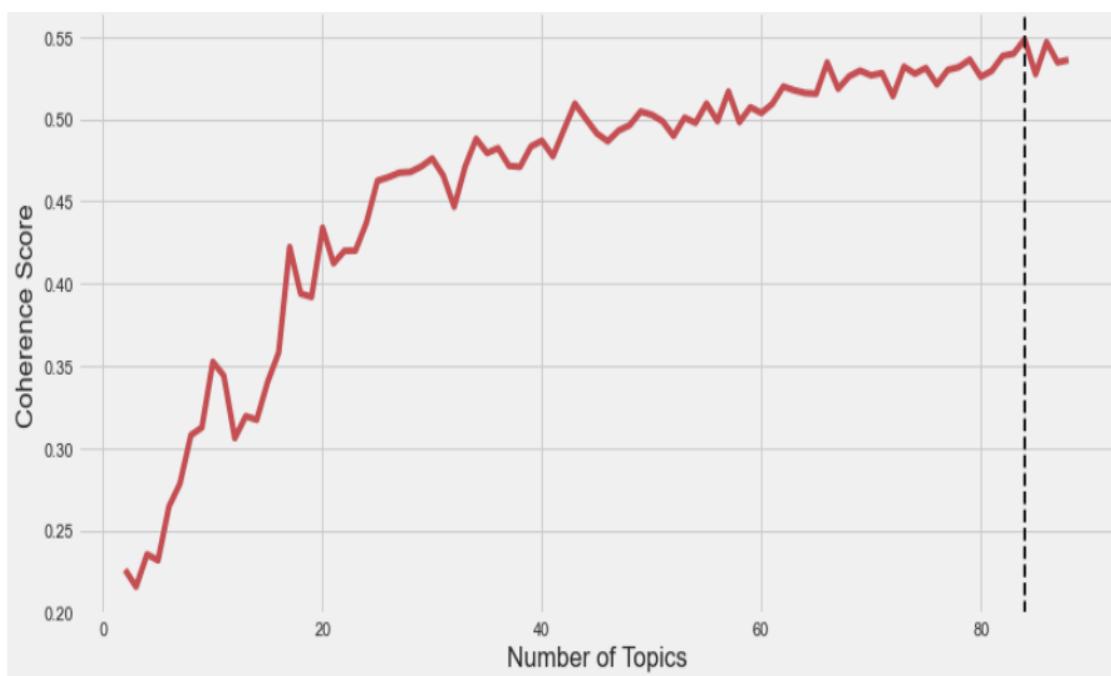
([back](#))

Appendix VIII

[pyLDAvis, News Articles]

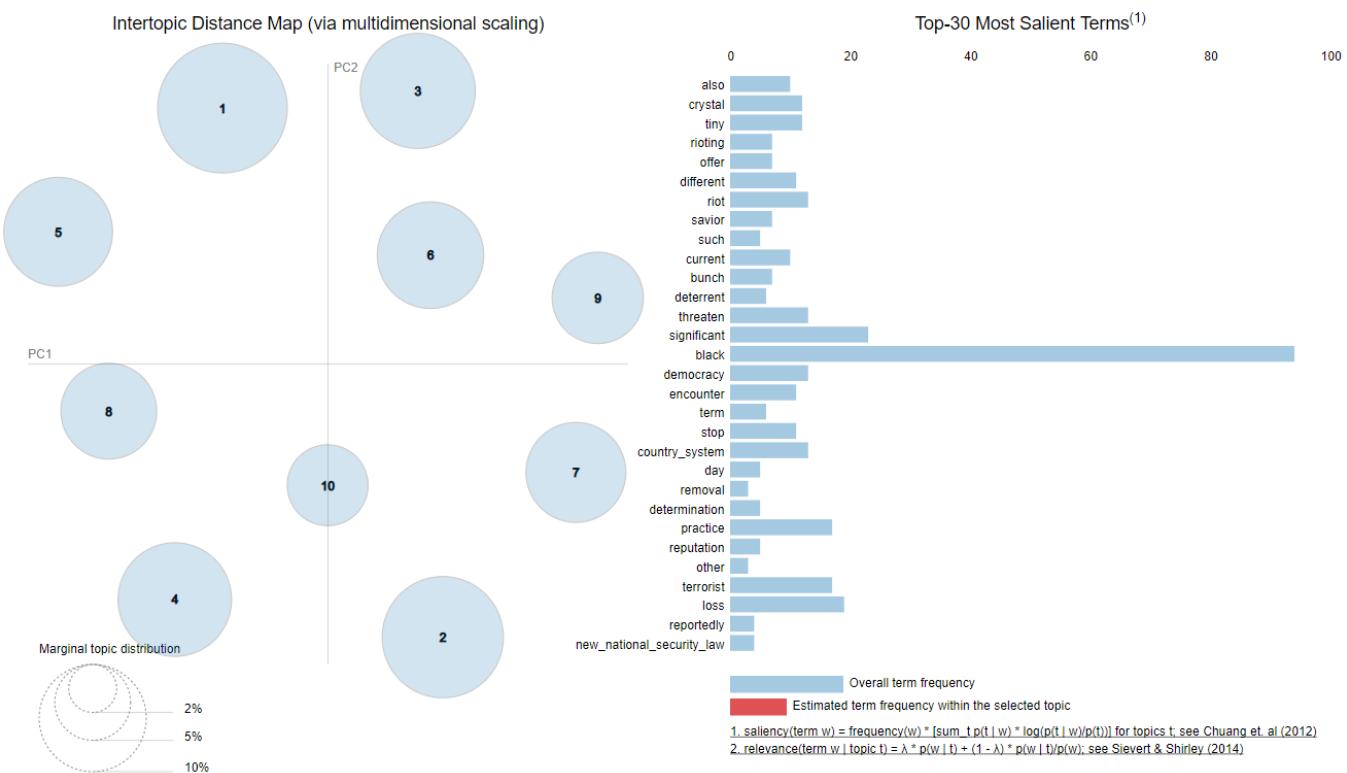


[Coherence Score, News Articles]

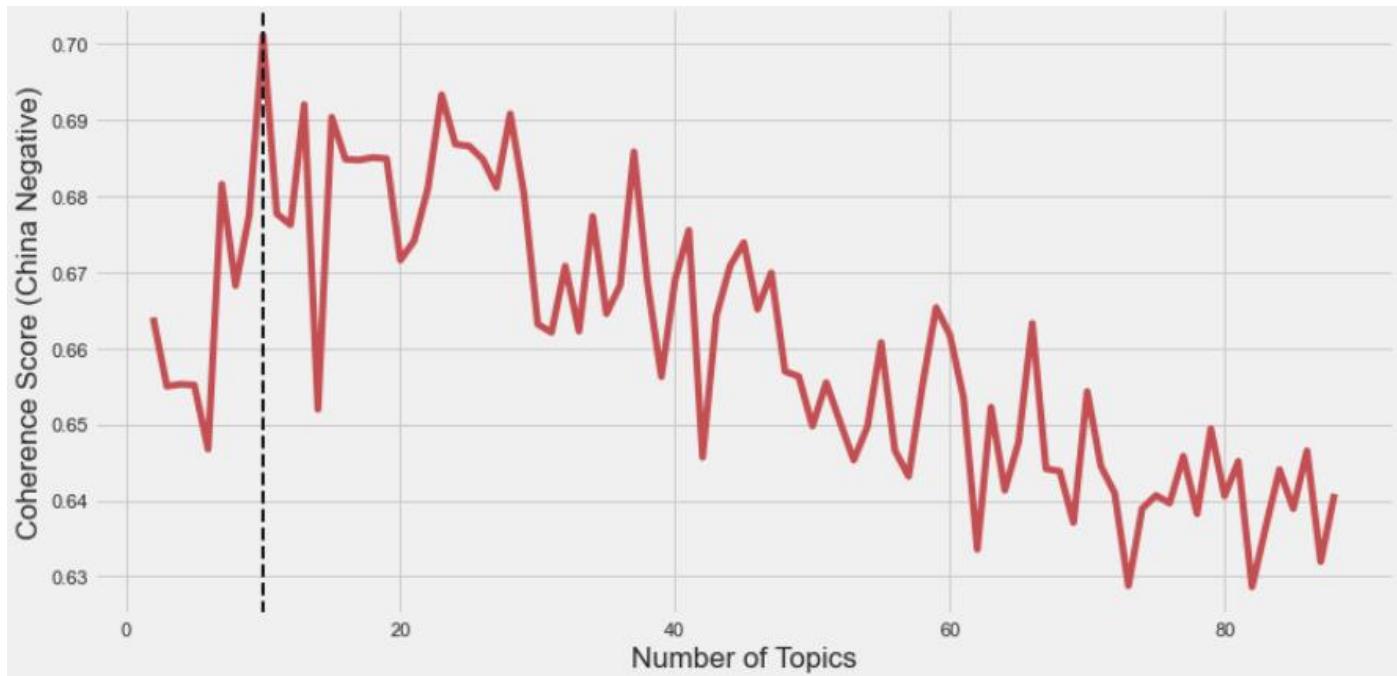


([back](#))

[pyLDAvis, News Articles, China Negative]

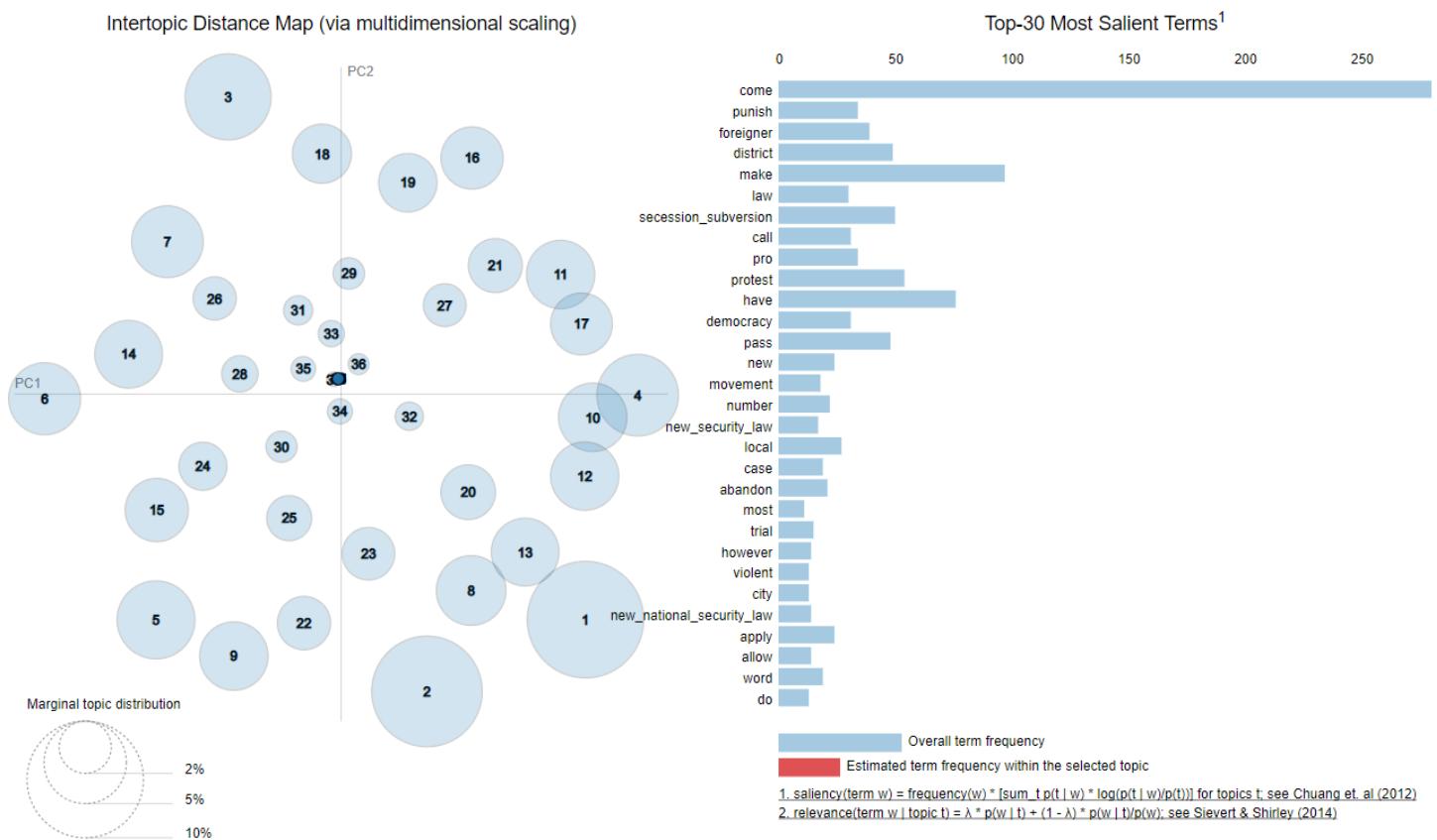


[Coherence Score, News Articles, China Negative]

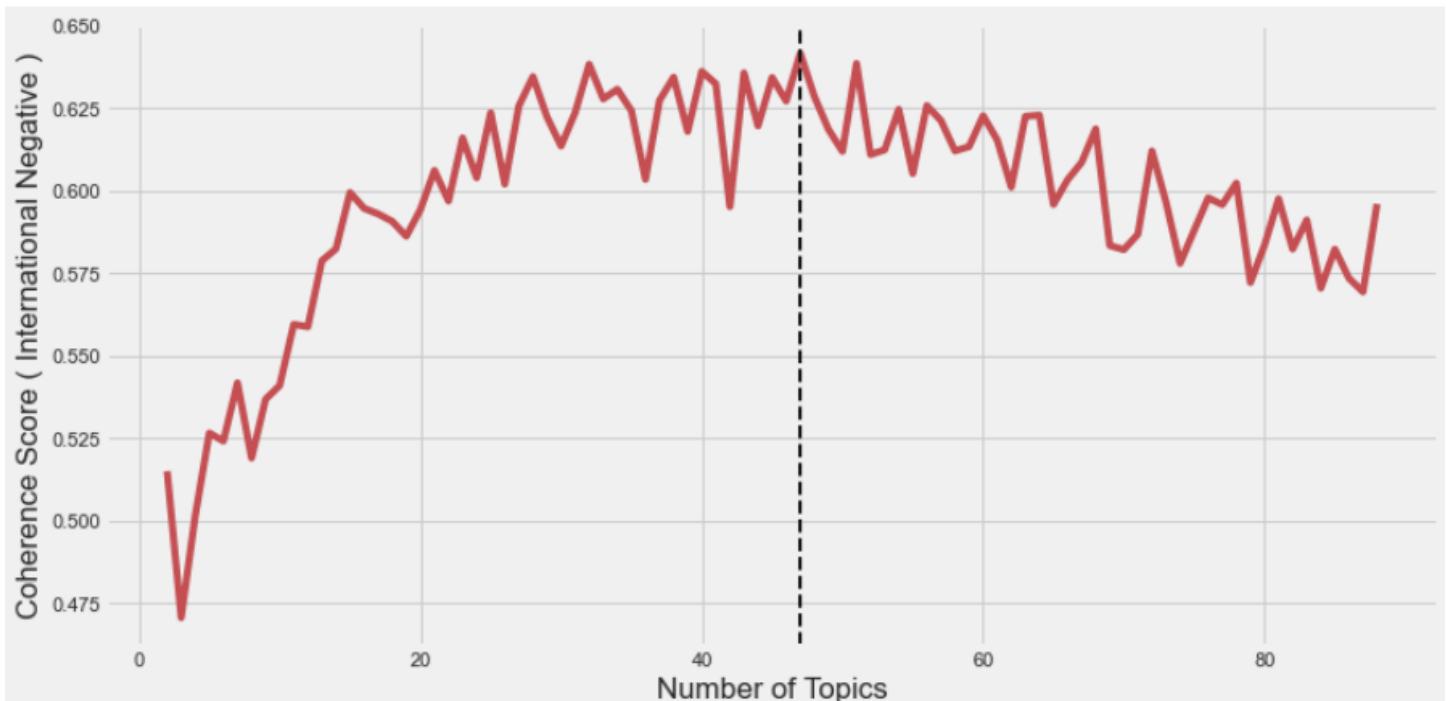


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[pyLDAvis, News Articles, International Negative Initial]

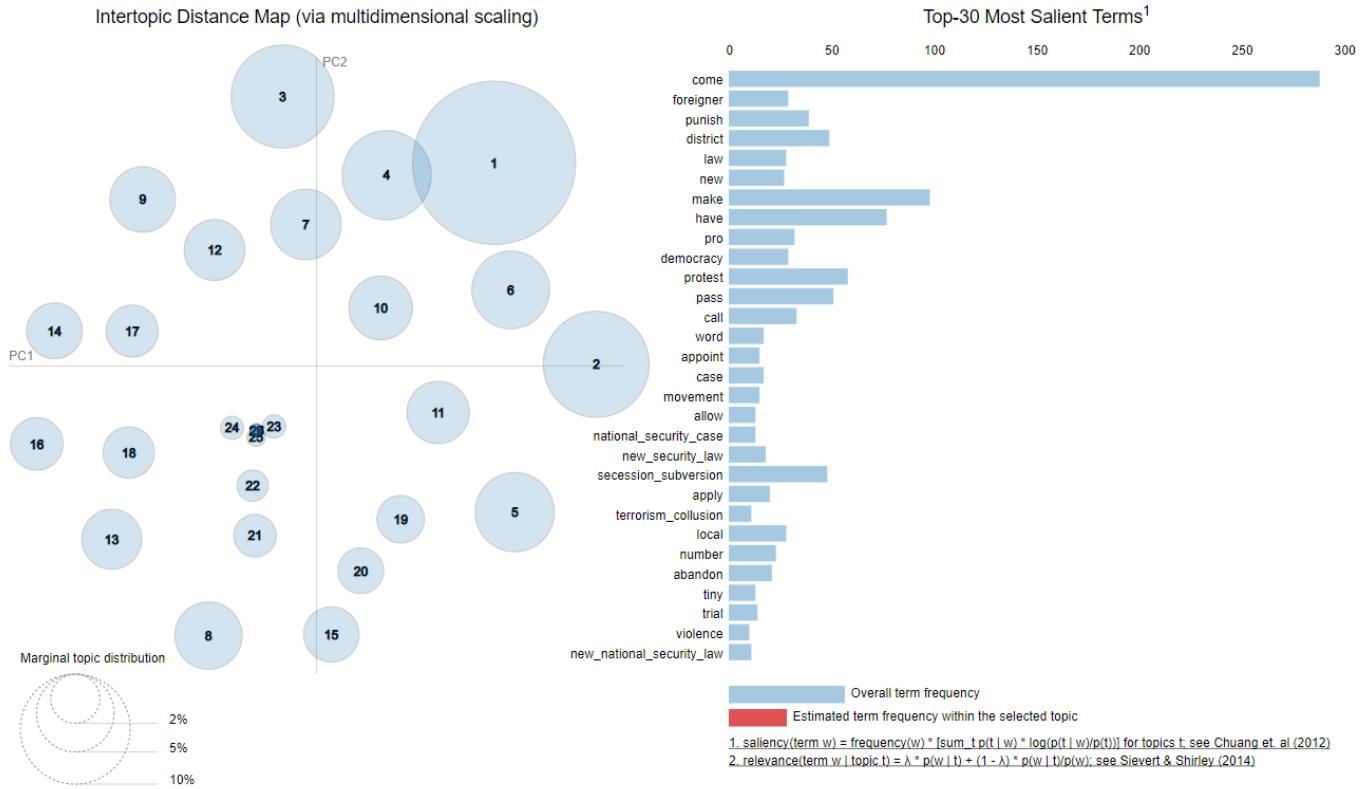


[Coherence Score, News Articles, International Negative]

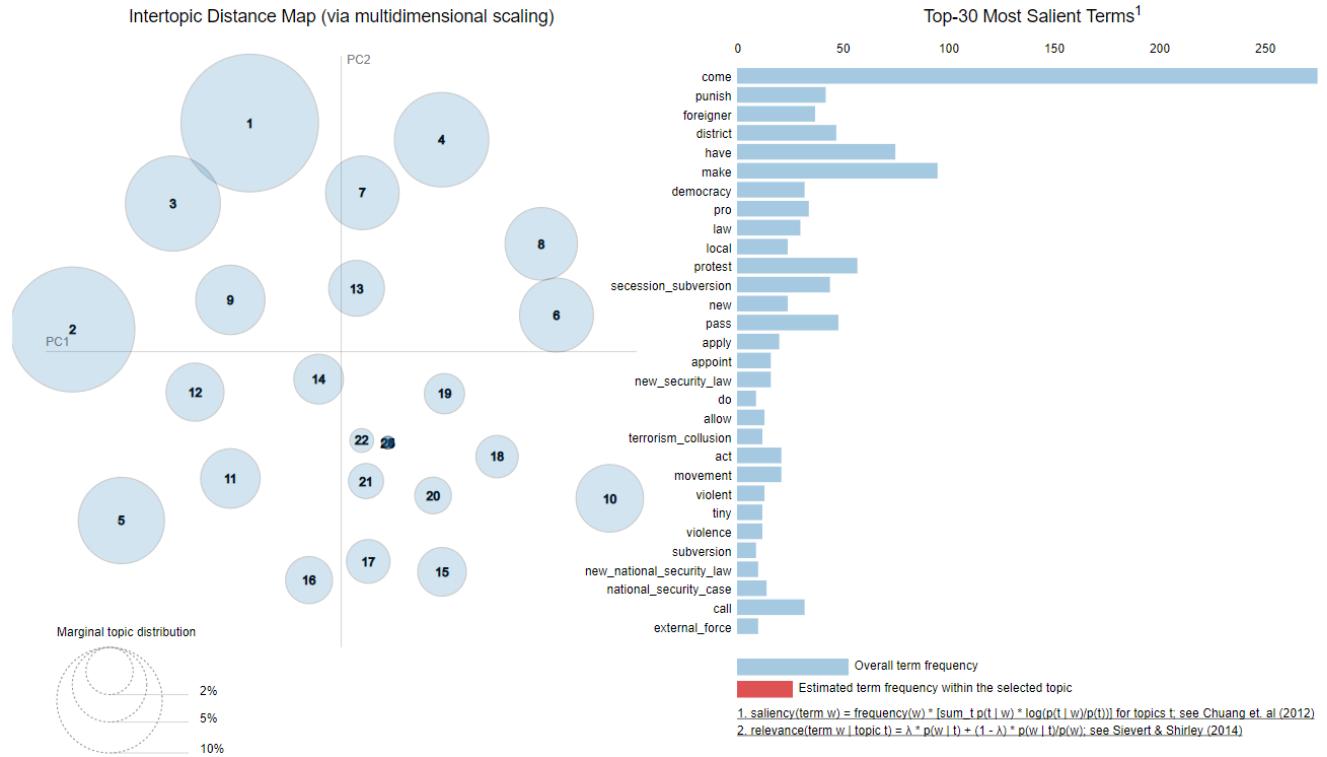


([back](#))

[pyLDAvis, News Articles, International Negative cut to 28]

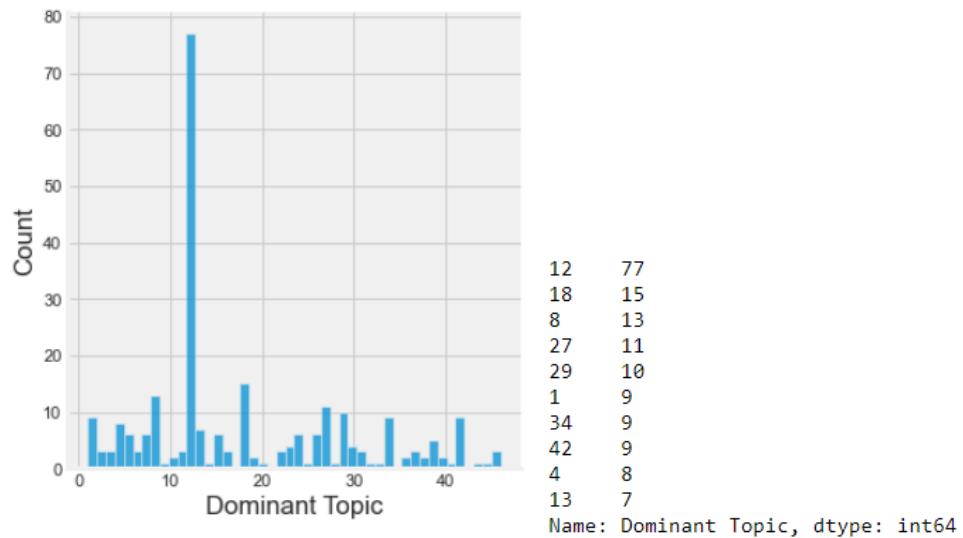


[pyLDAvis, News Articles, International Negative cut to 20]



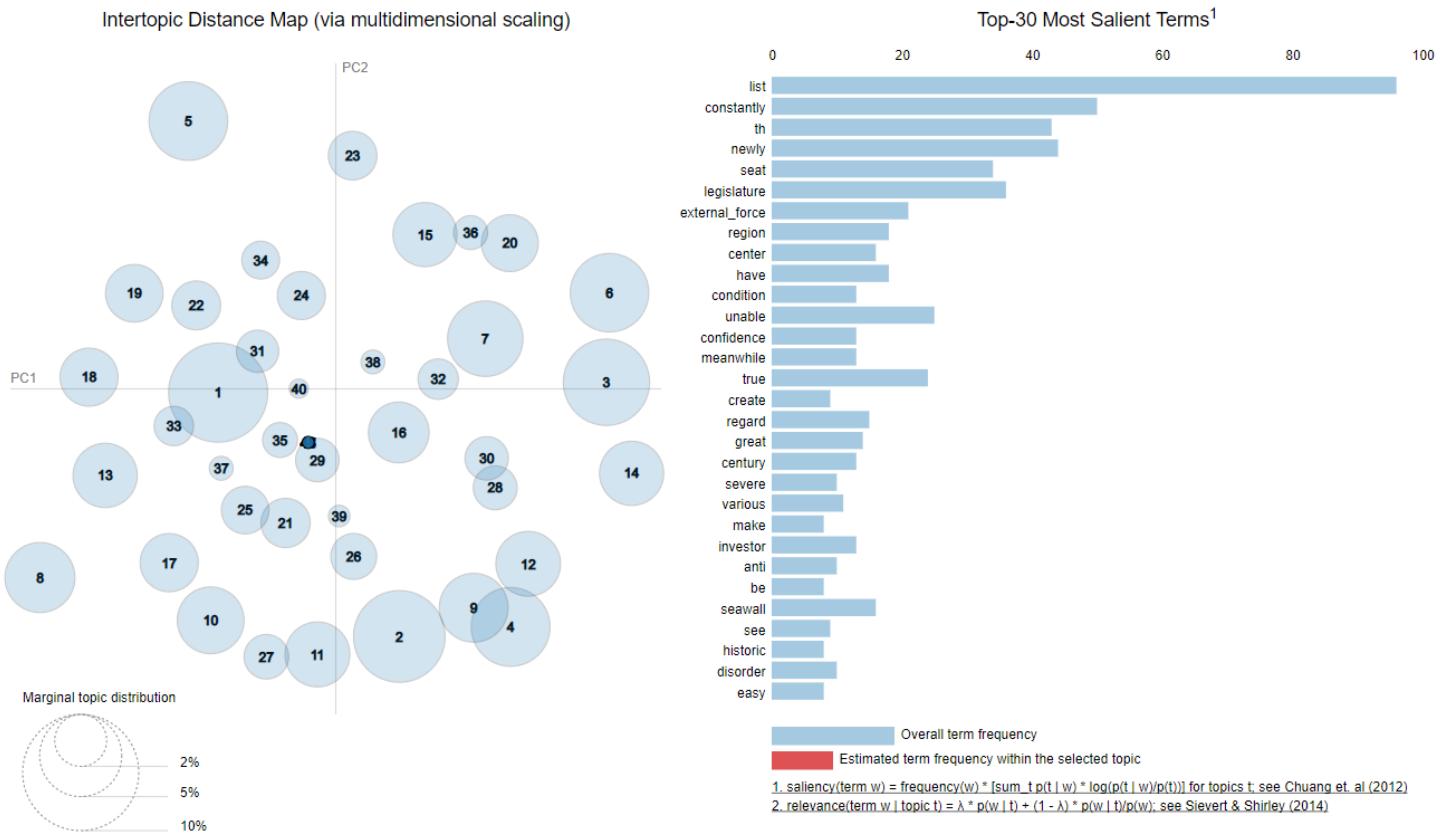
([back](#))

[Number of Observations in Each Topic, International Negative]

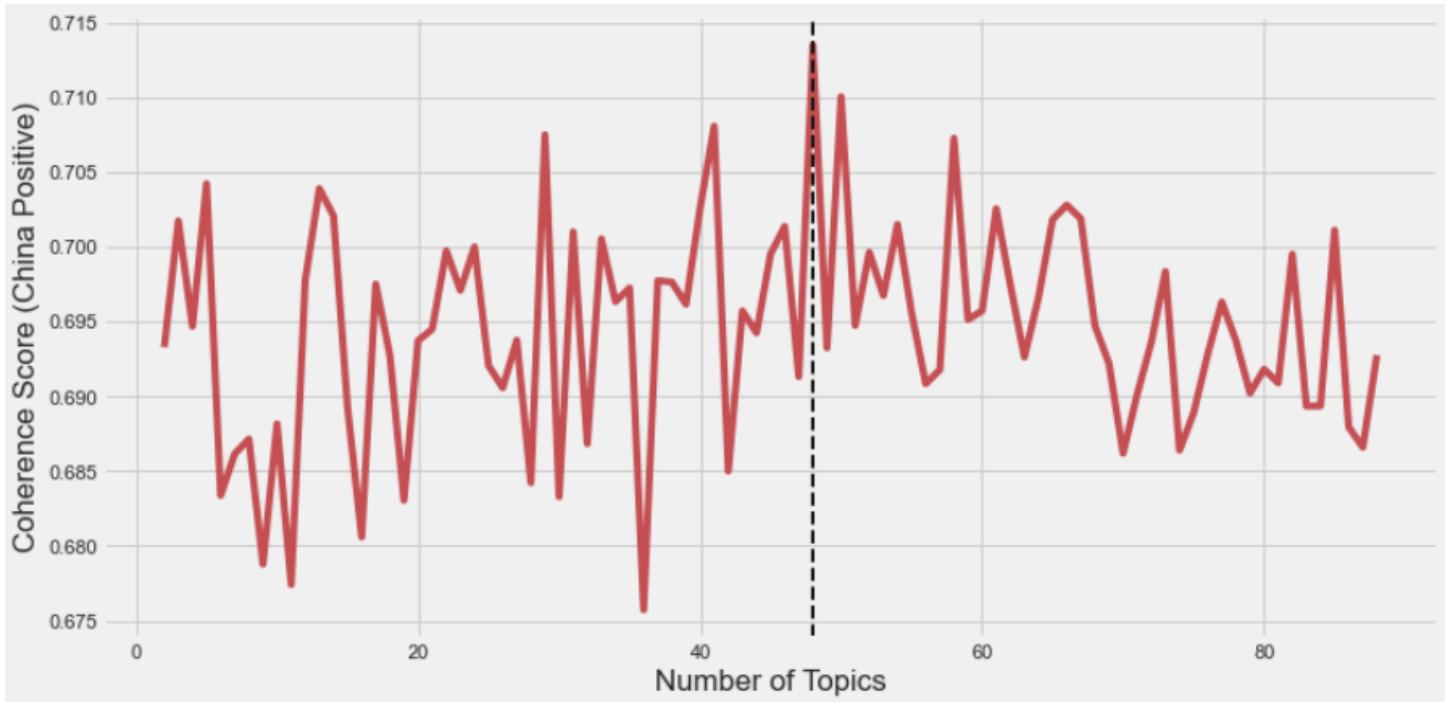


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[pyLDAvis, News Articles, China Positive]

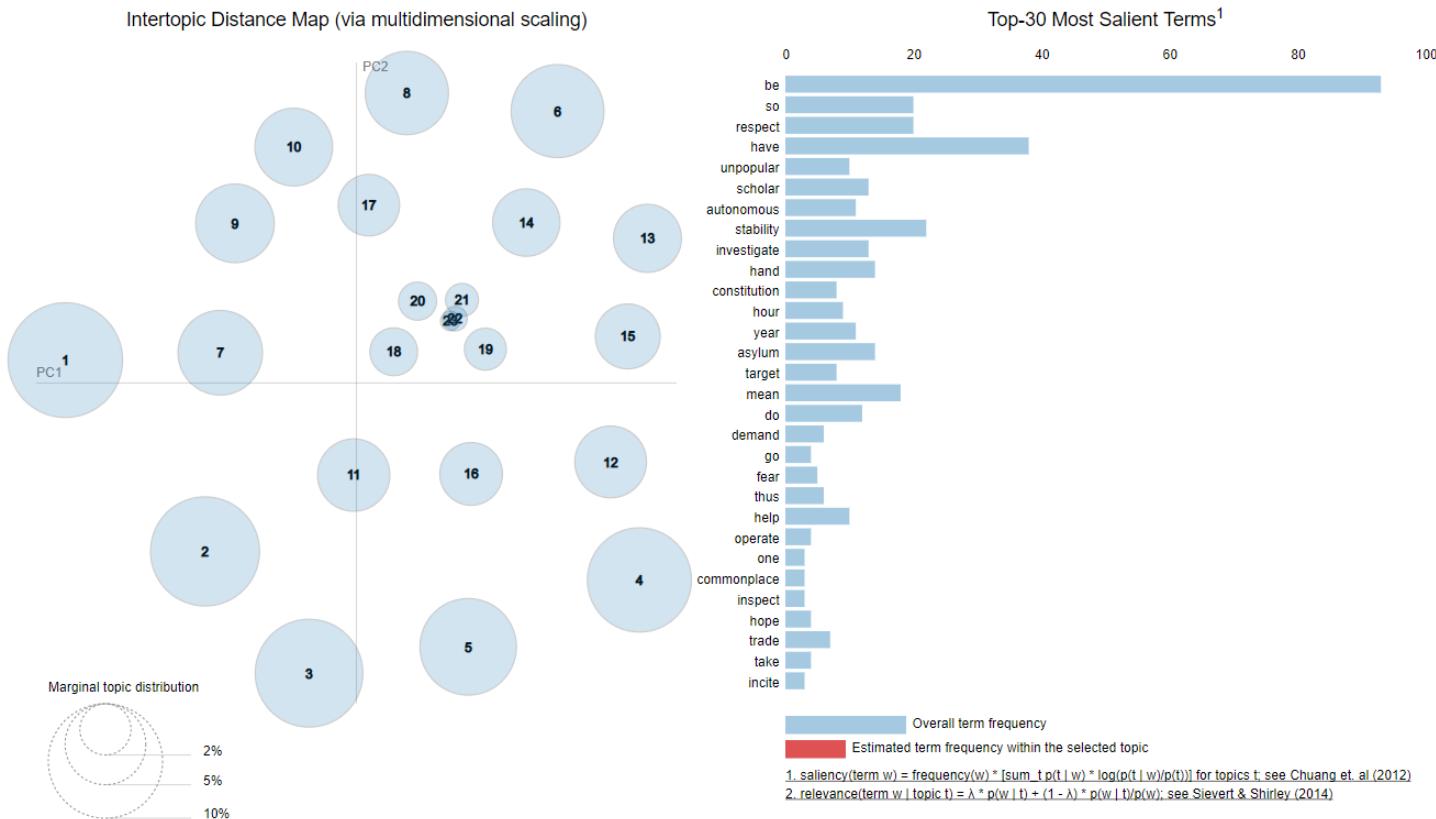


[Coherence Score, News Articles, China Positive]

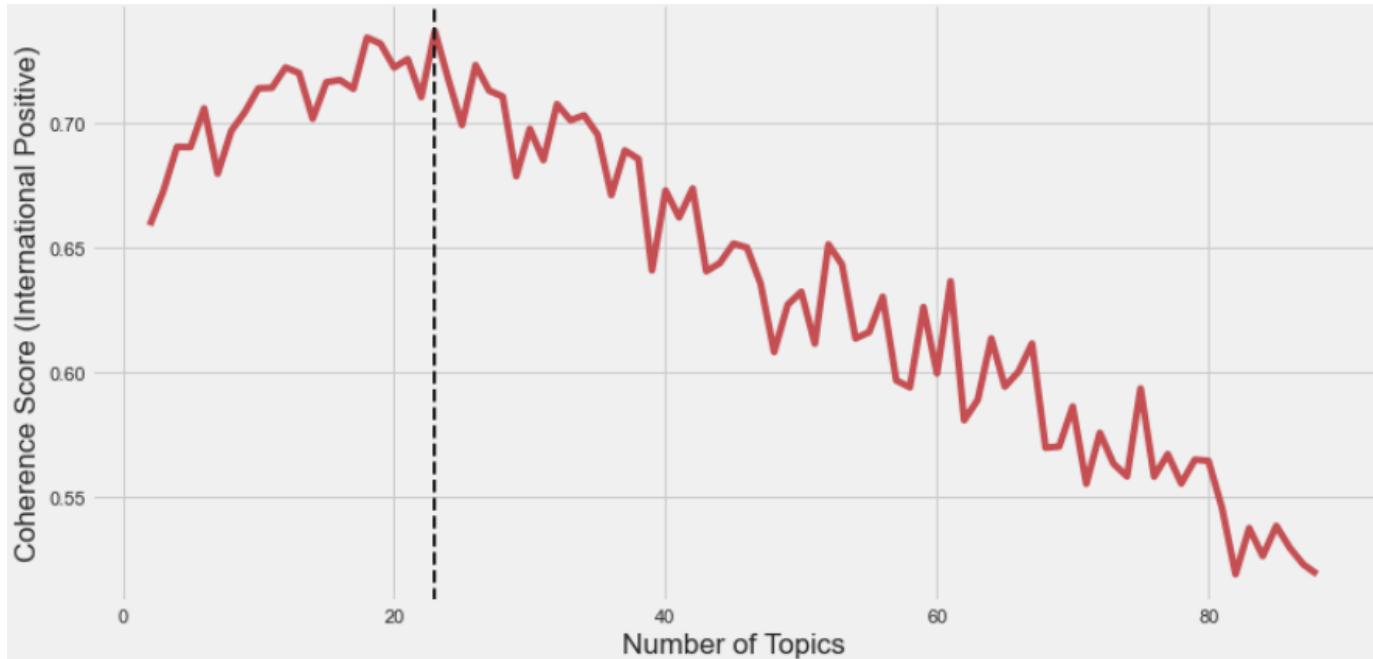


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[pyLDAvis, News Articles, International Positive]



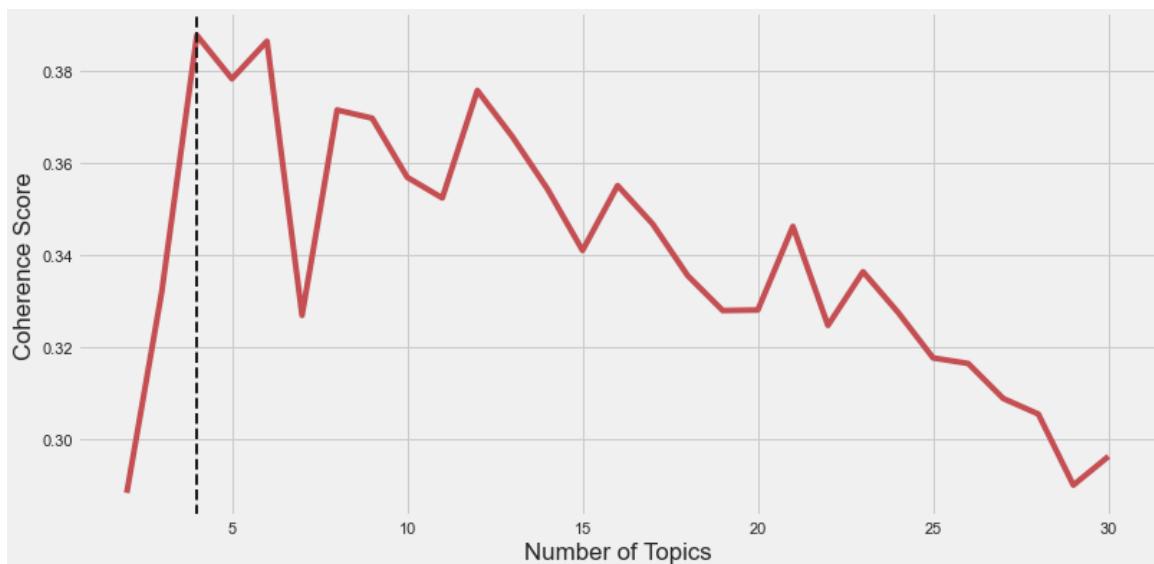
[Coherence Score, News Articles, International Positive]



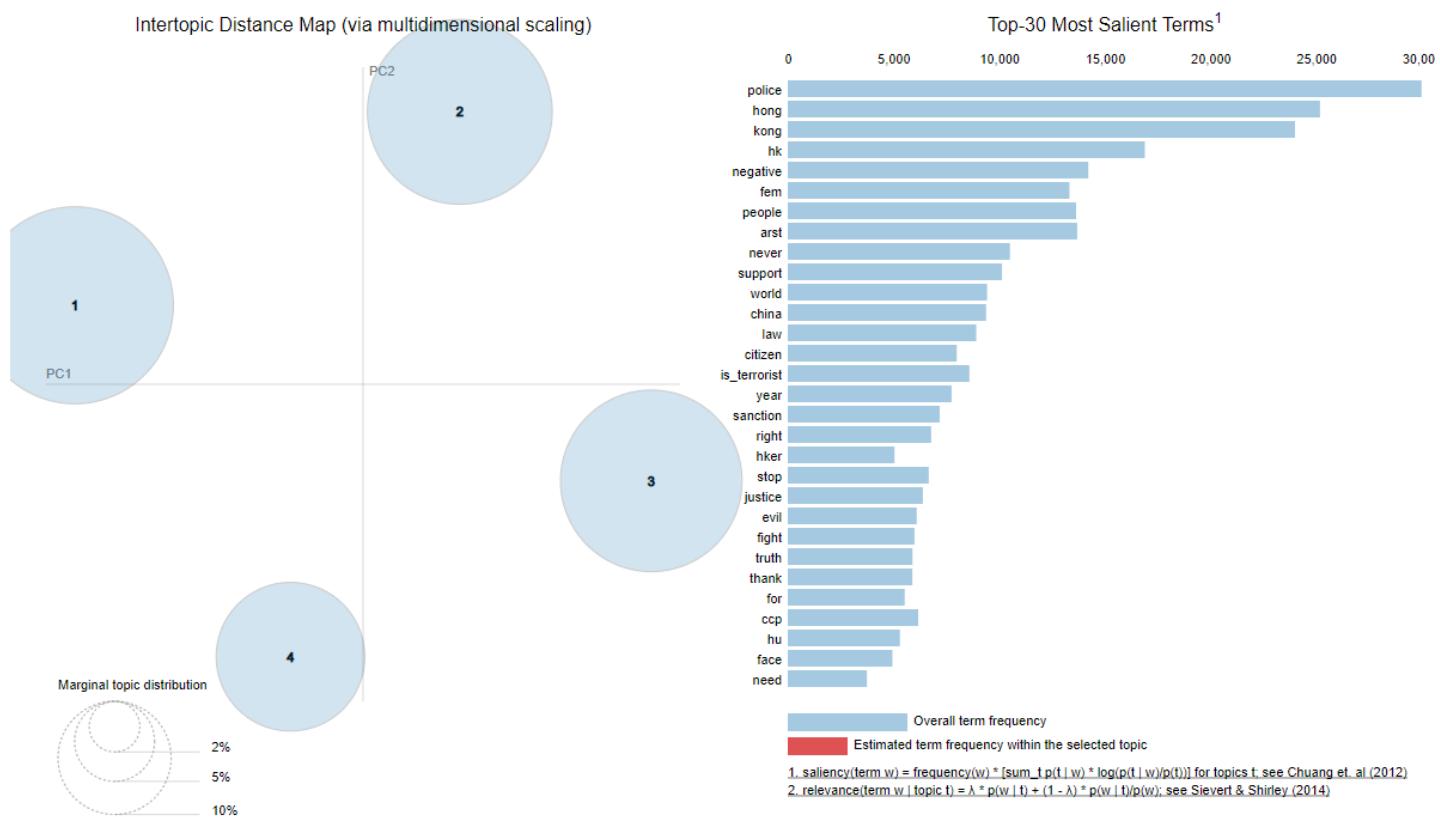
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Appendix IX

[Coherence Score, Tweets]



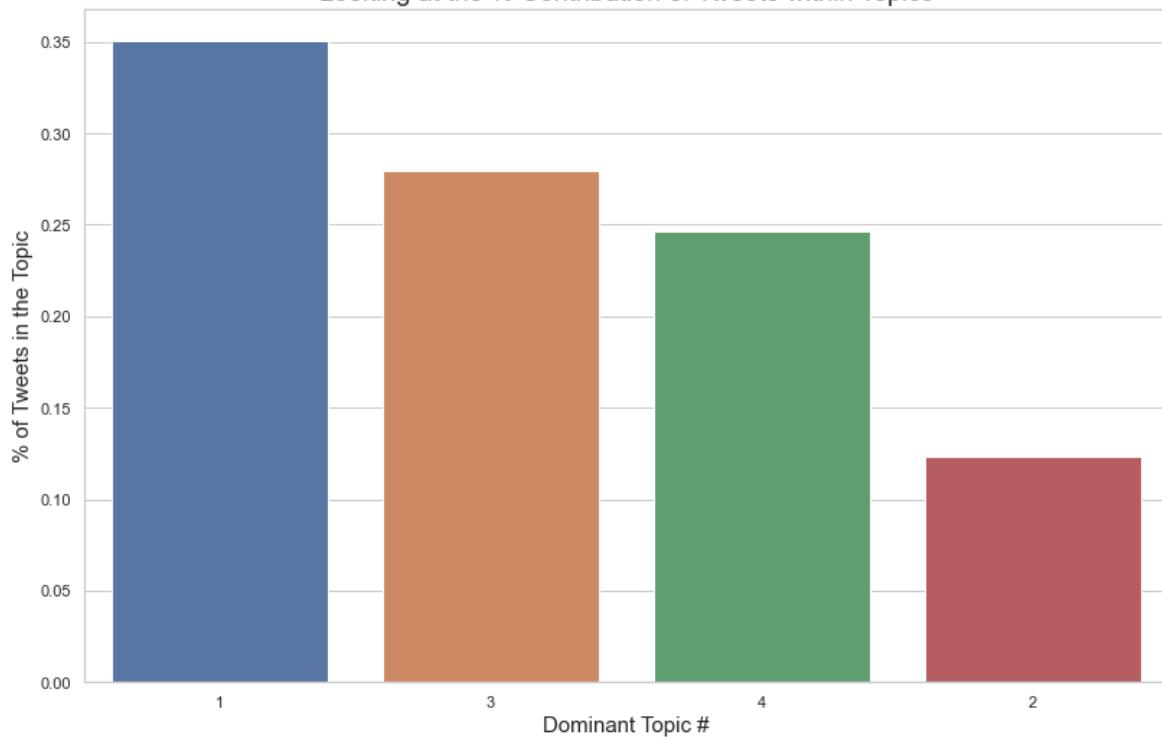
[pyLDAvis, Tweets]



([back](#))

[Coherence Score Contribution, Tweets]

Looking at the % Contribution of Tweets within Topics



(back)

[Topic 1, Tweets]

4520 thank sir supporting hongkongers defending freedom humanrights hong kong defending core value free world please
5078 thank continuous great effort thank ben joining speak hong kong we stand together freedom
5116 thank ipac support support democracy freedom we really appreciate continued strong support continue fight now we see strength unity enormous
5176 thank standing hong kong because continuous support antichina alliance stronger ever lets keep working freedom democracy hong kong together
8871 thanks persistent effort fight freedom brave young man thank sir standing hong kong too grazie signore
12654 thank your support means lot us hongkongers suffering limited freedom we sincerely hope free world work together stop chinas oppression many thanks
13981 _aderholt _ thank sir supporting cause defending freedom defending core value free world please continue hope would
15149 thanks liberatehongkong follow you telling world injustice anywhere threat justice everywhere free hong kong together support global vs amp
15836 _with_hk _hk _wonghki thank folded_hands everyone realize freedom free we stand together fight autonomy freedom
18382 _ballester thank support i hope move let people barcelona know situation hq lets fight freedom human rights together flexed_biceps light_skin_tone please stay
safe
20829 _news please keep supporting freedom hong kong thank you freedom free we need fight safeguard
24284 _aderholt thank sir supporting hongkongers defending freedom humanrights hong kong defending core value free world please continue hope would
25179 thank supporting hk fire hongkonger give up we keep fighting totalitarianism please keep spreading hk situation japanese we need support
25279 thank president tsai speaking hope stand united fight freedom democracy folded_hands thumbs_up red_heart
30752 thanks ttdog follow you telling world hong kongerinjustice anywhere threat justice everywherehuman rights advocatean eggdog lover together support global vs
amp
30934 thanks sec pompeo the solidarity among freedomloving nations support hong kong heartening lets stay strong keep fighting triumph democracy comes
31176 thanks ka hing follow you telling world fight freedom stand hong kong together support global vs amp
32829 thank american we touched under launched little now cautious now sincerely appreciate great brave move done us support human rights issues
40814 _with_hk _wonghki never give fight freedom flexed_biceps thanks support flexed_biceps in hk like human voice support hope world
42882 thanks dobbi elf face_with_medical_mask follow you telling world dobbi free elf thought_balloon one dreamers we fight democracy amp human rights speaking_he
d yellow_heart stand hong kong oncoming_fist light_skin_tone fight freedom together support global vs
52645 ive urgent appeal we need support continue standing hong kong campaign donate support great cause _watch
60080 we stand fight freedom democracy we never surrender we never defeated we we front free world we hongkongers
60973 oh its touching heartfelt heartfelt thanks red_heart yellow_heart green_heart blue_heart purple_heart ribbon we never give fight freedom flexed_biceps fle
xed_biceps flexed_biceps
60974 oh its touching heartfelt heartfelt thanks red_heart yellow_heart green_heart blue_heart purple_heart ribbon we never give fight freedom flexed_biceps fle
xed_biceps flexed_biceps
60975 oh its touching heartfelt thanks french fellows red_heart yellow_heart green_heart blue_heart purple_heart ribbon we never give fight freedom flexed_bicep
s flexed_biceps flexed_biceps
61463 _with_hk _angioi _hk as hongkongers touching see ppl around world voicing support hong kong fight against tyranny thanks
63823 thank speaking hong kong senator kitching injustice anywhere threat justice everywhere free world lock arm speak human rights hong kong
63860 thank australia defending freedom human rights hong kong defending core value free world hongkongers urge free world
70293 thanks standing hong kongit would tough battle hongkongers never surrender yet international support crucial us too
71777 thank eu telling hongkongers alone fight defending freedom humanrights hong kong defending core value free world please
72119 thank all free nations need stand together fight democray democray human right freedom suppressed ccp everywhere
75485 thank senator housakos speaking hk we never surrender fight please continue the world needs united fight
76840 thanks continuous support sir but hong kong loses freedom democracy us please take action support freedom fighters stop chinas aggression bastion free world
81431 thank sen haley hong kong aspiring predatory fascistic s statement intent get away atrocities one stop anymore the socialimperialisticis waging war free world
amp theus
81436 thank rep riggleman hong kong aspiring predatory fascistic s statement intent get away atrocities one stop anymore the socialimperialisticis waging war free w
ord amp theus
82390 _news _watch world lets stand behind brave fighting tyranny freedom justice democracy stop fight freedom
82673 thank rep gooden hong kong aspiring predatory fascistic s statement intent get away atrocities one stop anymore the socialimperialisticis waging war free wor
d amp theus
87768 _watch thank senator we come back keep fight freedom plz let world connect together protect world future
88165 _watch _with_hk _us from heart thanks support help we want live fear thanks speak us i love red_heart red_heart red_heart red_heart red_heart red_heart sunflow
er sunflower sunflower rainbow rainbow rainbow folded_hands folded_hands folded_hands folded_hands folded_hands _is_terrorist
92488 red_heart red_heart red_heart taiwan freedom human rights democracy the free world proud taiwan
99093 _with_hk _liesin_ppl thank brother fight lot need support world we need fight believe values
102183 its time tell free world embrace liberty amp democracy universal values injustice anywhere oppression freedom amp autonomy hong kong way
tolerable
104258 britian showing world fulfilling historical responsibility hong kong showing world fighting must safeguard democracy human rights
104768 thank senators while hong kong people greatly appreciate us providing refuge place earth truly free long exists aspiring predatory nationalistic tyrannical cc
p hk frontlinies to

(back)

[Topic 2, Tweets]

3766 i pray everyday safe return i wish someone could help them folded_hands folded_hands crying_face crying_face crying_face loudly_crying_face loudly_crying_face broken_heart broken_heart broken_heart _is_terrorist
6269 _hker help kids pls no matter evil no matter brutal still fighting justice liberty amp democracy pouting_face giving up
7469 who serve evil who betray people hsbc bear results _is_terrorist
8337 _kwai i really love song loudly_crying_face folded_hands hkers inexhaustible patriotism energy fire unite countries world globe_showing_americas one double_exc
lamation_mark may negative bless hk hkers folded_hands two_men_holding_hands man_and_woman_holding_hands two_men_holding_hands man_and_woman_holding_hands two_men_holding_hands
man_and_woman_holding_hands two_women_holding_hands two_men_holding_hands man_and_woman_holding_hands two_men_holding_hands man_and_woman_holding_hands
8840 _hker_alfieri no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
10685 _hker_hk no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
11706 _craymer_hker no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
12561 _hk_craymer no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
13242 _sit_hker no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
33272 _news_good news need more usa british need sanction people evil
35663 _news_hker no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
37261 pope blind chi na hk negative show justice evil acts
37626 _hk_hker no matter evil are brutal is wont give up still fighting justice liberty amp democracy help pls
52494 what happened night never forgotten people behind never forgiven
55540 _hker_china_talk no matter evil are no matter brutal is giving up still fighting justice liberty amp democracy join us
58624 _adonis_hker no matter evil no matter brutal still fighting justice liberty amp democracy flexed_biceps dark_skin_tone angry_face giving up
61627 _hker_polumbo no matter evil are no matter brutal is giving up still fighting justice liberty amp democracy join us
61697 _hk_hker no matter evil are no matter brutal is giving up still fighting justice liberty amp democracy join us
64655 musical_notes sing hallelujah lord sing hallelujah lord musical_notes
65804 _spalding_hker no matter evil no matter brutal is giving up still fighting justice liberty amp democracy pls help
79586 _hk_hk no matter evil no matter brutal is giving up still fighting justice liberty amp democracy pls help
80839 help help help help help _is_terrorist
93297 never forget never forgetnever forget never forget never forget never forget never forget never forget never forget
93592 govh also trustworthy opportunity na sana like could benefit potential exodus hkg
95378 good song sharing thumbs_up light_skin_tone facing enemy cooperate other
113932 candle
candle
123431 all freedomlovers around world would abominate cruelty barbaric acts ccp
131400 folded_hands light_skin_tone please true folded_hands light_skin_tone please true folded_hands light_skin_tone please true folded_hands light_skin_tone please
true
132369 lmaoo joke i remember happy nba back nba association clause contracts forcing everyone stand anthem not a single nba player took a knee during the anthem
132426 what nobodys free everybody free
132427 sad watermelon noises and sad hkers noises too _____
132433 threat democracy world globe_showing_europeafrica _is_terrorist
142748 hong kong people street national security law clearly ccp broken joint declaration
145736 press freedom but condition police good friends thugs allow
146455 hong kong great threat now please stand us strike freedom
146811 this brave hearts taught pla lesson never forget
149150 leung ling kit the first man suicided hong kong antiextradition movement conveying strong will lives light eyes tyrants heavy nation lets death pain remain hea
rt carry on
157937 already enough rapists murderers
Name: Tweets, dtype: object

(back)

[Topic 3, Tweets]

328 us condemns prodemocratic media tycoon jimmy lai asks china restore hong kongs rule law indiablooms first portal digital news management jimmy lai
2137 hong kong police definitely rubbish totally control hold weapon hong kong longer safe city hong kong country seeking freedom
12062 hk gov shows china style rule law is law weapon suppress prodemocracy camp law protect citizens equality law joke no justice hong kong anymore
21203 it end it obviously political prosecution ccp adopting strong strategies silence opposition voices undermine hong kongs democracy amp rule law tool ccp arrest
prodemocracy people please
25833 _hk ccp uses suppress press freedom hong kong hk police puppet political tool ccp only dictatorial regime would afraid press freedom it shows clearly ccp regime_is_terrorist
25910 it ccps show order put white terror hongkongers hk police puppet political tool ccp only dictatorial regime would afraid press freedom it shows clearly ccp regime_is_terrorist
26419 prodemocrats hong kong deeply concerned press freedom afte jimmy lai arrested monday colluding foreign powers offense new controversial chinese security law via
26508 the enactment tool ccp supress freedom press hong kong it shows ccp afraid power press put white terror hk hk police puppet ccp _is_terrorist
27746 _hk after effective unlawful evil national security law hong kong freedom press freedom speech freedom election terminated hong kong longer suitable place live
please
29611 how police broke media office morning they destroying reputation freedom speech makes public lives white terror more people deserve sanctioned
35711 hong kongs rule law nonexistent the city totally seized authoritarian rule now govt everything silence democracy activists hk always asset globe us
41785 from arrest student activists yesterday dq prodemocracy candidates today hong kong suffering fullon political suppression prosecution china hong kong govt the
world must implement sanctions authoritarians now
42632 from arrest student activists yesterday dq prodemocracy candidates today hong kong suffering fullon political suppression prosecution china hong kong govt the
world must implement sanctions authoritarians now
42638 from arrest student activists yesterday dq prodemocracy candidates today hong kong suffering fullon political suppression prosecution china hong kong govt the
world must implement sanctions authoritarians now
42819 china care rule law autonomy hk they shows us clearly accept dissent so china turned hong kong dictatorship pls continue we urge world hold ccp accountable
44095 from arrest student activists yesterday dq prodemocracy candidates today hong kong suffering fullon political suppression prosecution china hong kong govt the
world must implement sanctions authoritarians now
44099 from arrest student activists yesterday dq prodemocracy candidates today hong kong suffering fullon political suppression prosecution china hong kong govt the
world must implement sanctions authoritarians now
44221 from arrest student activists yesterday dq prodemocracy candidates today hong kong suffering fullon political suppression prosecution china hong kong govt the
world must implement sanctions authoritarians now
44637 the national security law totally brings threats freedom speech hong kong hong kong longer hong kong anymore she like province china
45288 i believe law regulation revised clearly like people violated chinas national security law extradited as long everyone understand ns law means china deprive others freedom
63186 the free world recognize ambition this authoritarian regime respect international order amp honor commitment ccp incapable become democratic regime what happens
5 hong kong waken world
63188 the free world recognize ambition this authoritarian regime respect international order amp honor commitment ccp incapable become democratic regime what happens
5 hong kong waken world
64677 the situation hk worrying sweeping powers granted citys police threatening personal safety local residents there hope us would continue enforce sanctioning regime
ime china
78669 china accept hong kong hong kong want us china city lack open mind narrow ego this act covidvirus make everyone world hate china
81269 china passes controversial hong kong national security law a national security law imposed hong kong process nobody hong kong control over
81961 today pass law without affected knowing even contents inside article next day pass decision void international agreements treaties they simply treat lives matte
r but
83887 ccp compelling national security law forcefully turns international business centre ant random china city unwise uniqueness hk gone democracy
84403 the new laws take direct aim political dissident rather national security threats restricting freedom speech political expression hong kong

Name: Tweets, dtype: object

([back](#))

[Topic 4, Tweets]

180 victim criminal on august arrested related yuen long attack protest tuen mun july including prodemocracy legislators journalist
566 roger fisher wrote getting yes amp said separate people problem focus interests positions cant build online forums that we start brainstorming likely shared op
posing interest conflict
567 _thaler roger fisher wrote getting yes amp said separate people problem focus interests positions cant build online forums that we start brainstorming likely s
hared opposing interest conflict
591 trying hard avoid officially locking city the idea carrie law refuses give style twisted ideas words just like responded antielab
822 protester burned flag regime prodemocracy protests becomes second person see sentence upped jail time
862 a lady sentenced jail months assault police laser pen no laser pen found arrested popo submit another laser pen exhibit pro ccp negative judge still accept ev
idence _is_terrorist
1870 yrsold pakistani plead guilty assaulting occasioning actual bodily harm assaulting probeijing man dec mong kok he detained days sentenced months probation or
der conditions
2444 great news stop chinese propaganda and im coming see top fans emotionally vulnerable spamming nmsl comment below lol
4296 i sure probeijing sent create facts calvin in worst case may create evidence riot him this familiar with
6945 similar ccp lies tiananmen massacre hongkong government try fraudulent history incident police disappeared hours let gangsters attack protesters
7539 they lie us know theyre lying know theyre lying keep lying us keep pretending believe them elena gorokhova a mountain crumps
9612 when think worst thing ever happen beginning as matter fact plan hk since _is_terrorist sources
17903 when cant get real record make up like case woman convicted hurting police w laser pointer laser pointer ever found police showed court similar laser pointer h
e brought
25232 _hk media first target activists second one ongoing now used working also arrested w whatever made reason
31979 aged passing crossroad charged excise wearing mask wht obviously aged mask why charged even insulted street sanction hkpolic
39167 index_pointing_up index_pointing_up index_pointing_up she children too when asked family r uk passport holders lan refused answer to protect family will uk p
rotect dictators family will uk allow mugabes family hold uk passports
42111 months ago riot police beaten passengers prince edward station arbitrarily it suspected passengers beaten death related cctv disclosed till now
44860 the chinese secret police arrest everyone want our safety threatened we need care worse situation _is_terrorist
45534 illegal thing say also group students arrested charge attempting split yhe nation posting facebook post
53562 time refresh memory we still remember collude triad clearlythey totally sided tyranny suppress thusthey innocent thoughts
58536 many government secretaries families living uk aus magnisky act must need put sanction let families enjoy live ccp governance
61089 thats keep recording important proccp thugs pretend anything blame they familiarity abuse trust kind people
63390 a yrsold clerk plead guilty assaulting police officer for kicking officer back nov causeway bay sentenced hrs community service source media hk
64009 the first time ever primary election held weekend amp have banned kinds protest amp voting protest were left now please view hk
66150 dead no evidence witness judge said community service orders may applicable here still judge chose imprisonment no guilty proven
67288 the difference media hk west hk call peaceful protestors rioters west call rioters peaceful protestors
67433 this lady carried us flag shopping mall n dragged n arrested by many riot po_ice here obviously nation flags r
69397 the party people one sounds like religious testimony ccp tries replace religion itself a concept always failed babylon moscow
69576 on contrary hkgov made books famous now more people going find ways read them like mainlders used come hk read banned books
69829 vetting necessary kick ccp supporters hk gov officials hk police away british they deserve live british
71786 an yrsold plead guilty possession offensive weapon a flick knife nov chai wan sentenced months probation order source youarenotalonehk_live
72368 oh liberate hk revolution time liberate hk revolution time liberate hk revolution time liberate hk revolution time liberate hk revolu
tion time
77551 a man arrested becoz hv flags bag insane next time foreigner walk street police may arrest himher foreigner hv different nationality hidden head
85428 a uni student possession pipe month sentence a girl related possession kg ketamine walk away with absolutely nothing
86700 a yrsold gaffer plead guilty possession offensive weapon public places intent commit arson oct tseung kwan o sentenced yrs imprisonment
86767 an yrsold plead guilty assaulting police officer nov tseung kwan o sentenced months probation order probation officers guidance source youarenotalonehk_liv
e
90270 arrested youth lynched police can charged assaulting police not guilty magistrate said polices unreliable witness
92830 we also claim say along ladakh we needs understand publishing providing fake news info media create confusion succeed
99033 have seen police could rush station indiscriminately attack people shown difference terrorist attack what ridiculous faced consequences
99376 the people not asking violence asking justice these protests one ways use voices make change made difference before everything power make sure happens again
99710 when dare mention they know could likely cause death have stopped yet no have faced consequences that no thats todays
100588 judge i would like ask u seriously injured n medical report prove popo get hurt u treat turth _is_terrorists
102137 judge said cause testimonies polices found reliable inconsistent the judge sentenced yearold teacher assaulting police

(back)

(back)

