

B)

For Bitcoin the following issues were found:

- 1) Security Issues: included words like include words like hacking and cybersecurity
- 2) Regulatory Issues: words like regulations, regulation
- 3) China and bans: china, bans, Russia
- 4) Fraud: fraud (# of mention :44)

Issues	# of mentions	Lift value
Security issues	134	1.24463
Regulatory Issues	80	2.166989
Bans	278	1.69296

While Ethereum had the following issues:

- 1) Security Issues: include words like hacking, cybersecurity
- 2) Legal Issues: legal, legalize
- 3) ICO: ico

Issues	# of mentions	Lift value
Security issues	352	1.671855
Legal Issues	102	1.768502
ICO/funding	3544	2.342506

C)

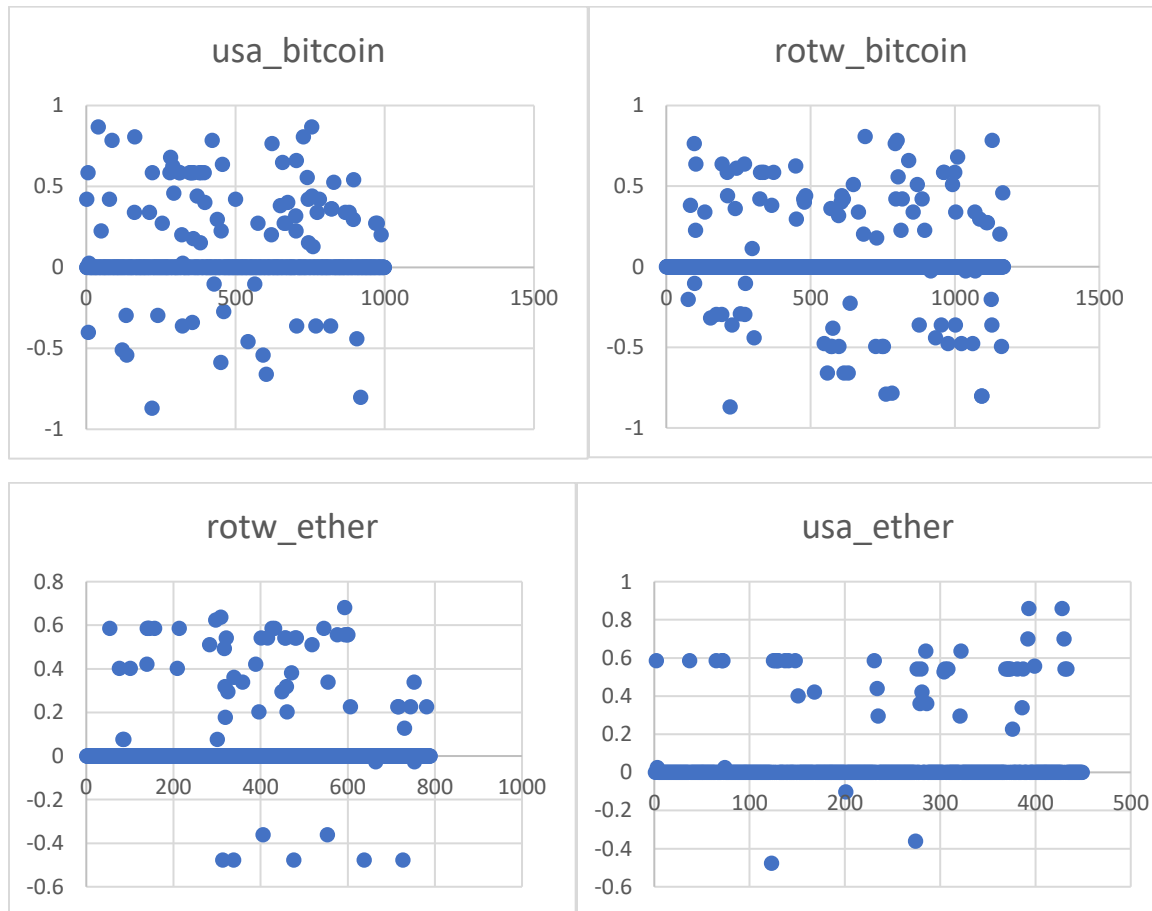
Issues	Sentiment
Security Issue (Bitcoin)	0
Regulatory Issue (Bitcoin)	-0.15988
Bans (Bitcoin)	-0.12203
Security issues (Ethereum)	0
Legal Issues (Ethereum)	0.123353
ICO/funding (Ethereum)	0.066921

D)

After performing location based analysis on sentiments for bitcoin and Ethereum. Following results were found:

The sentiment toward Ethereum in general was more positive than that of bitcoin. US showed a more positive sentiment distribution as compare to the rest of the world. The overall sentiment in both places being generally positive.

Sentiment regarding bitcoin was a bit more divided with the overall sentiment being slightly positive in both regions. USA edges out ROTW just by a bit.



#### E) Insights:

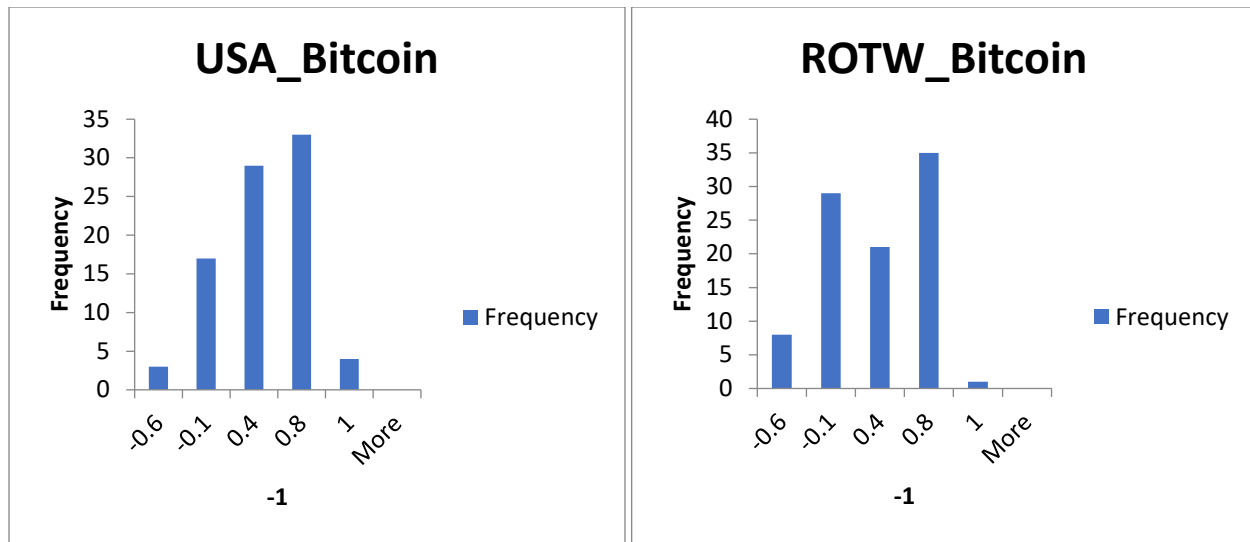
##### Bitcoin:

As seen from the lift analysis on the issues of bitcoin, we can say that bitcoin suffers majorly from regulatory issues. (Lift: 2.17) and the overall sentiment is negative. There's a lot of confusion with respect to understanding the regulations. Digging into some of the tweets the tweets are mainly concerned with complexity of the regulations and a lack of understanding of the same.

The regulations are also seen in conjunction with China in the sense how China would pass regulations on Bitcoin. Speaking of China, another issue facing bitcoin is China's stance on the same. The ban imposed by China as well as Russia seem to be having a negative impact in people's mind according to the sentiment analysis. On exploring a few tweets I found there are a few tweets shrugging of the effect of the bans on bitcoin.

As far as security is concerned, the overall sentiment is neutral. There are a few concerns with respect to hacking. But the overall sentiment remains neutral towards the matter.

As far as the sentiment of bitcoin is compared in USA with the rest of the world:



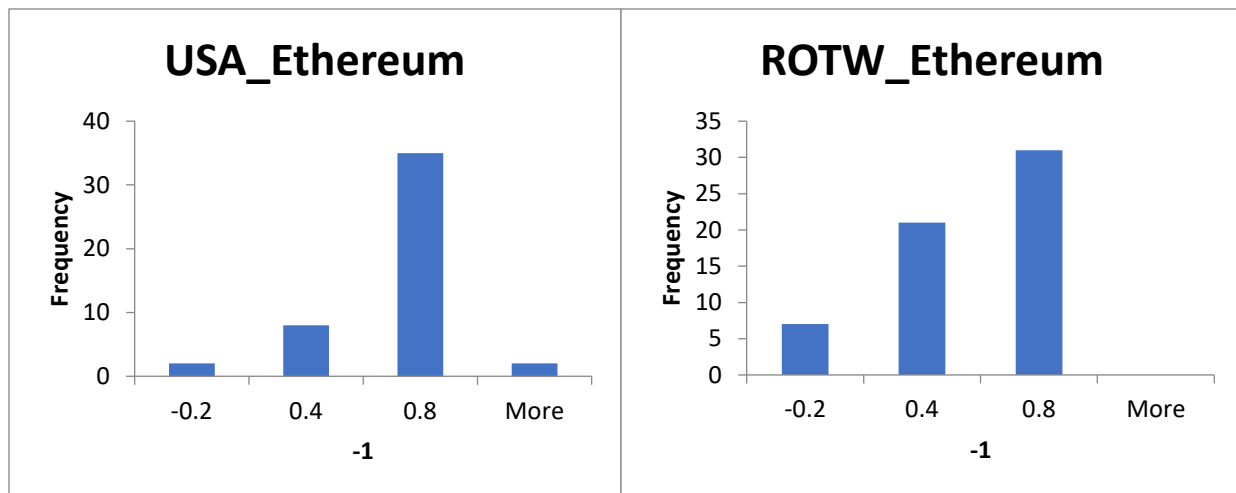
USA sees a bit better positivity as compared to the ROTW. There's more negativity in ROTW as compared to USA (caveat: there's more data is imbalanced more rotw data as compared to usa)

Ethereum:

The 3 major issues concerning Ethereum are Security issues, Legal issues and ICO/funding issues. The security issues concerning Ethereum deal mainly with cybersecurity.

Legal issues concern legalization of ether in Ukraine. The overall sentiment is therefore positive. It also concerns with legal auditing with respect to ICO.

Comparing the attitudes of ethereum in usa with rest of the world:



There's a lot more positivity towards ethereum in ROTW as compared to that of bitcoin. Although compared to usa, the sentiments are more or less similar with both showing positive sentiments.