



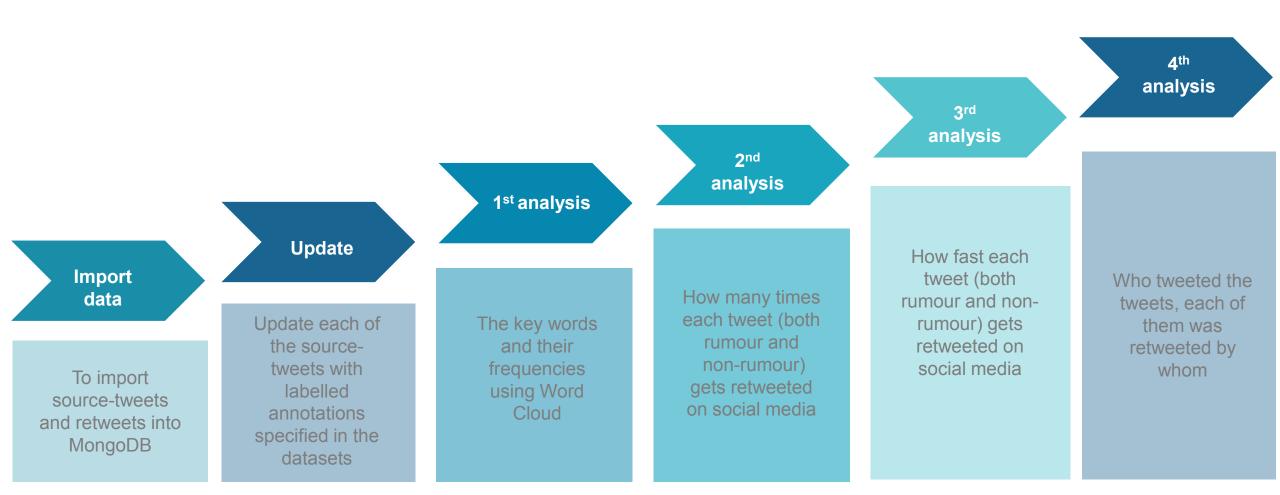






Rumour Spreading Analysis on Twitter

The project steps



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Where each tweet is tweeted by visualizing users' locations on the map using aforementioned tools or other visualization tools such as Google Maps API.

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5th ANALYSIS
EXTRA POINTS





import pymongo import json from pymongo import MongoClient

#Connect with Mongodb Atlas

client = pymongo.MongoClient("mongodb://wisitsak:wp11223344@cluster0-shard-00-00.99fit.mongodb.net:27017,cluster0-shard-00-01.99fit.mongodb.net:27017,cluster0shard-00-02.99fit.mongodb.net:27017/Bigdata?ssl=true&replicaSet=atlas-uuej29shard-0&authSource=admin&retryWrites=true&w=majority") db = client.sydneysiege

create Collection on

db.create collection('source-tweets') db.create collection('retweets')

collection = db. source-tweets collection2 = db. retweets collection3 = db. annotation



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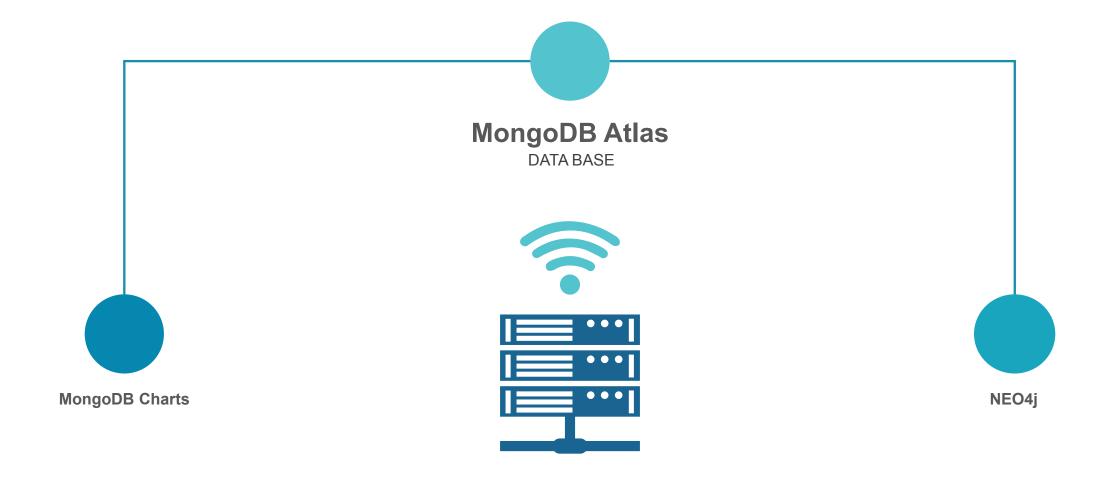
```
path = "*/source-tweets/*.json"
for filename in glob.glob(path, recursive=True):
  with open(filename) as f:
     file_data = json.load(f)
     collection.insert one(file data)
path2 = "*/retweets.json"
for filename in glob.glob(path2, recursive=True):
  with open(filename) as f:
     for line in f:
        file data = json.loads(line)
        collection2.insert one(file data)
```



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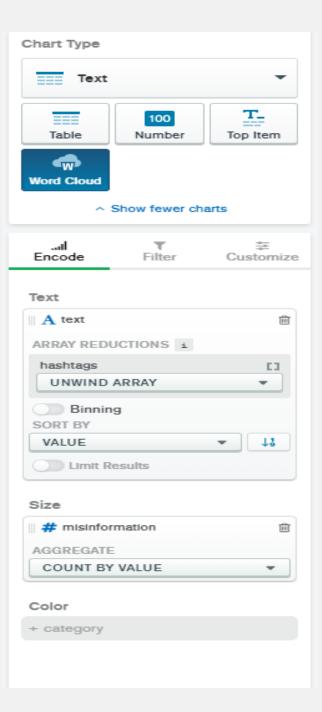
ANALYSIS



1st ANALYSIS

MongoDB Charts

The key words and their frequencies using Word Cloud

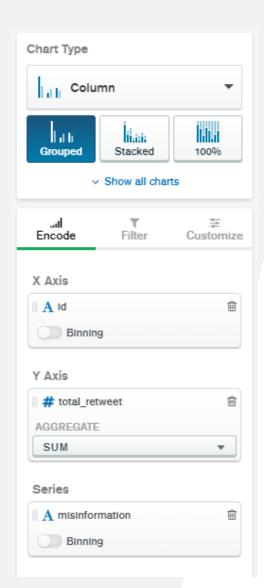


```
{
    "$lookup": {
        "from": "retweets",
        "localField": "id",
        "as": "retweeted_status.id",
        "as": "retweets"
    }
},
{
    "$project": {
        "id": 1,
        "text": 1,
        "city": 1,
        "misinformation": 1,
        "created_at": 1,
        "_id": 0,
        "total_retweet": {
        | "$size": "$retweets"
        | }
}
```

2nd ANALYSIS

MongoDB Charts

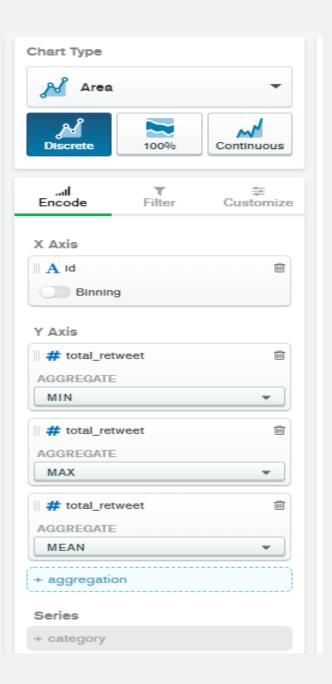
How many times each tweet (both rumour and non-rumour) gets retweeted on social media



3rd ANALYSIS

MongoDB Charts

How fast each tweet (both rumour and nonrumour) gets retweeted on social media

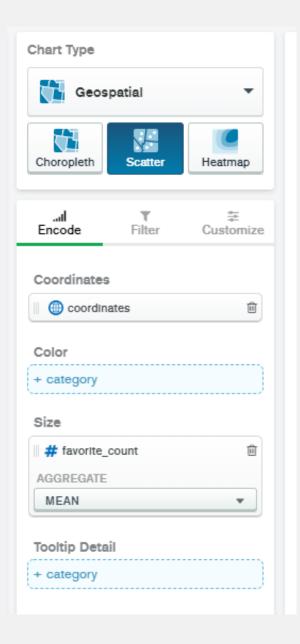


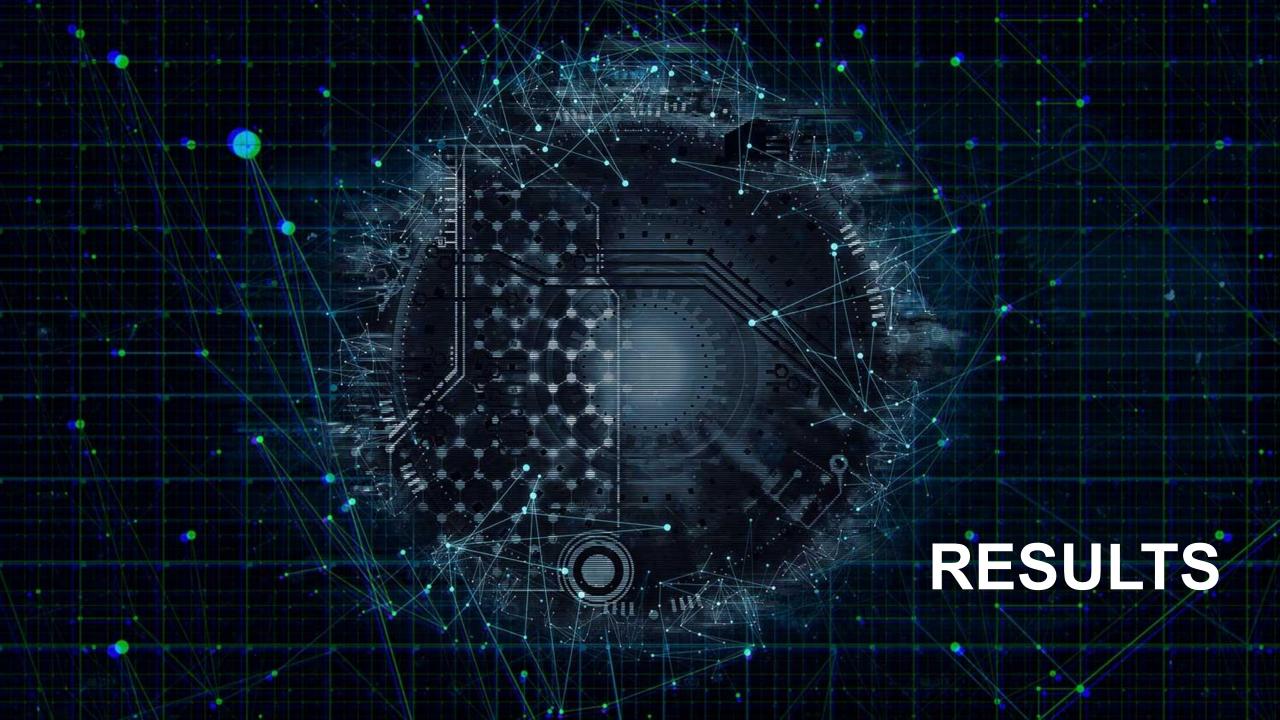
4th ANALYSIS

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Who tweeted the tweets, each of them was retweeted by whom by converting json objects

5th ANALYSIS MongoDB Charts





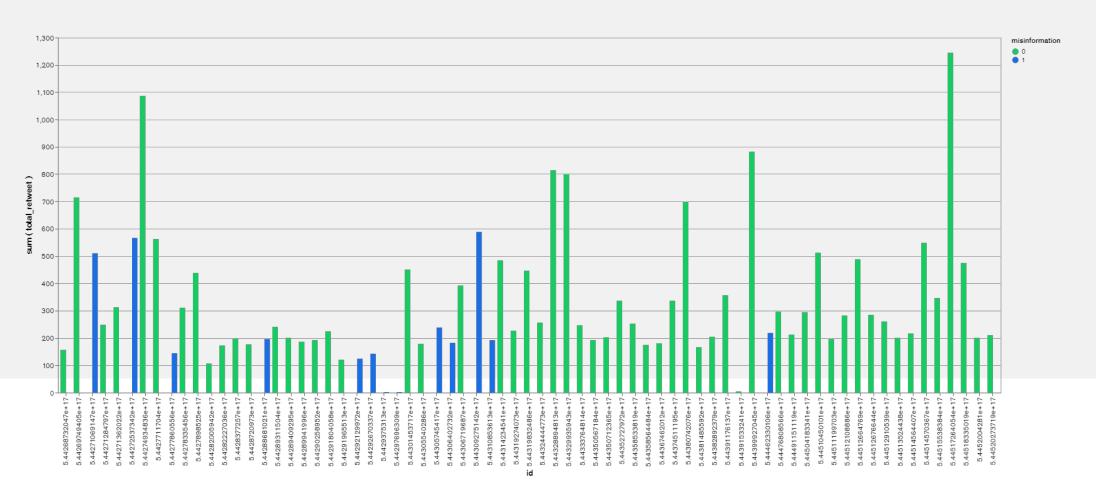
RESULTS 1st ANALYSIS

Word Cloud



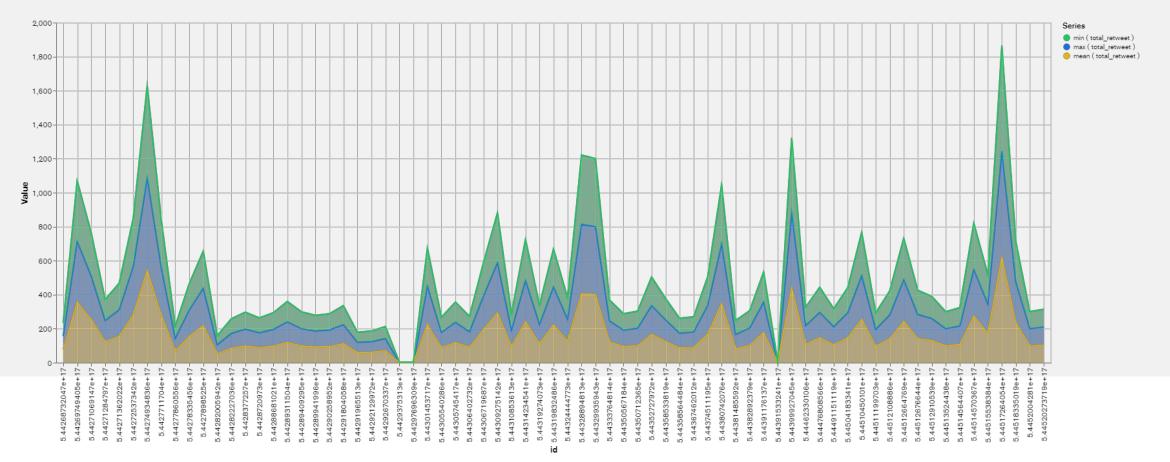
RESULTS 2nd ANALYSIS

Times each tweet



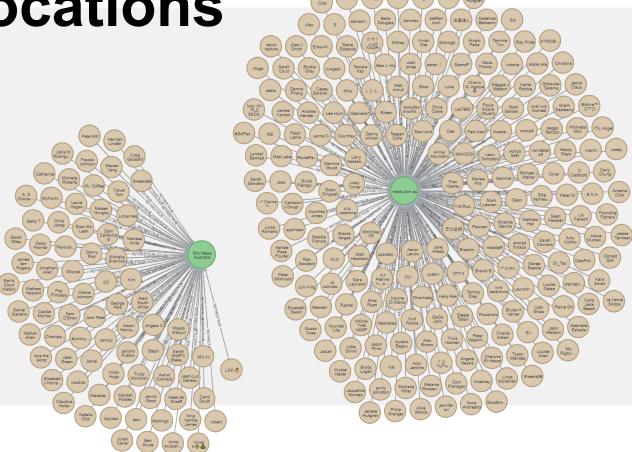
RESULTS 3rd ANALYSIS

Times each tweet



RESULTS 4th ANALYSIS

Tweeted locations



RESULTS 5th ANALYSIS

Tweeted locations

