Can we predict Eurovision's winners through twitter feed?

DATA PREPROCESSING & CLEANING

Challenges:

- Twitter parsers offer recent data only

- Twitter API does not allow a lot of data requests
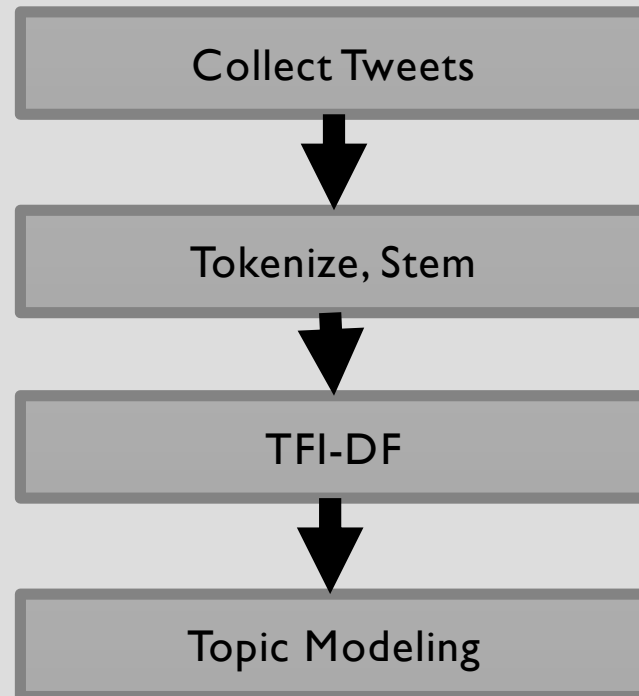
Data Retrieval:

- Only tweets in English

- Tweets between 05-08-2018 to 05-12-2018
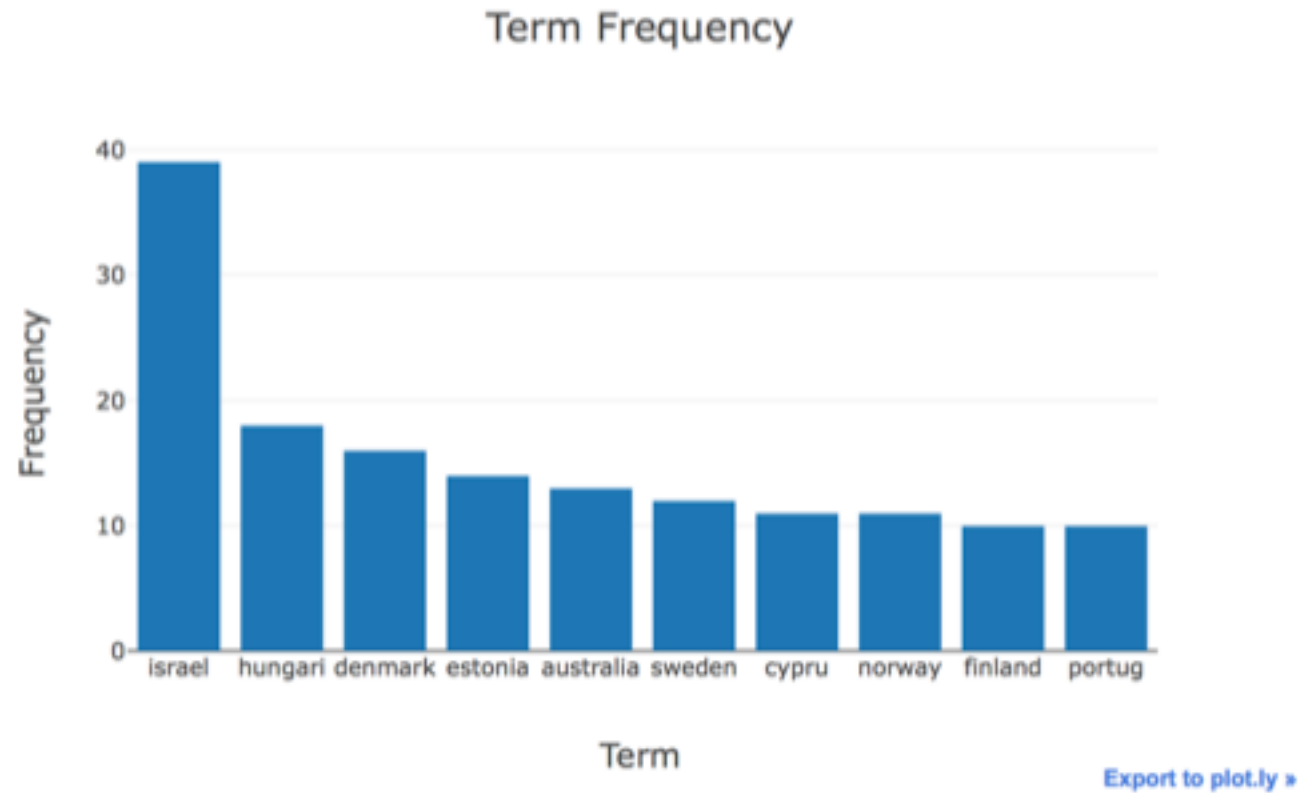
DATA PREPROCESSING & CLEANING

Preprocessing:

- Tweets in English only

- Exclude URLs from tweets

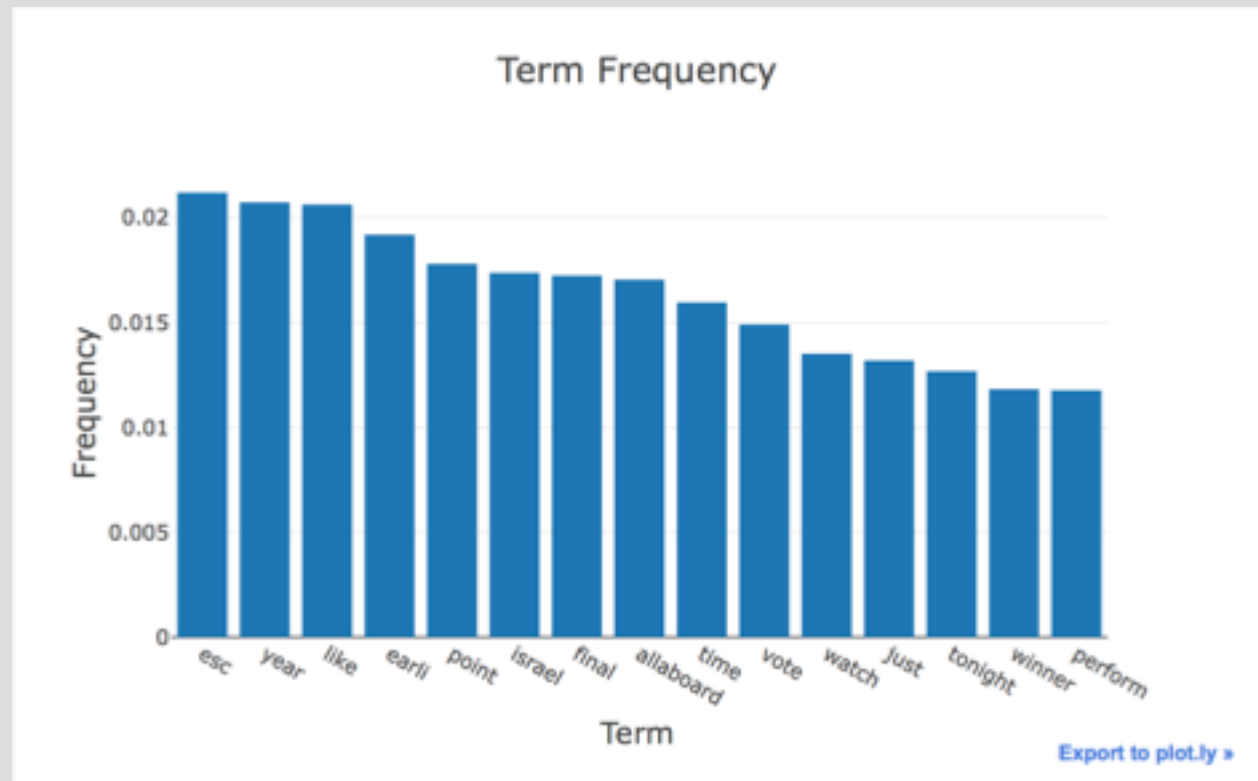- Stop words ('Eurovision', 'twitter')

- Exclude punctuation

WORKFLOW

Collect Tweets

↓

Tokenize, Stem

↓

TFI-DF

↓

Topic Modeling

FREQUENTLY TWEETED COUNTRIES

TFI-DF

term	weight
esc	0.0212
year	0.0207
like	0.0206
earli	0.0192
point	0.0173
israel	0.0174
final	0.0172

Term Frequency

TOPIC MODELING - LDA

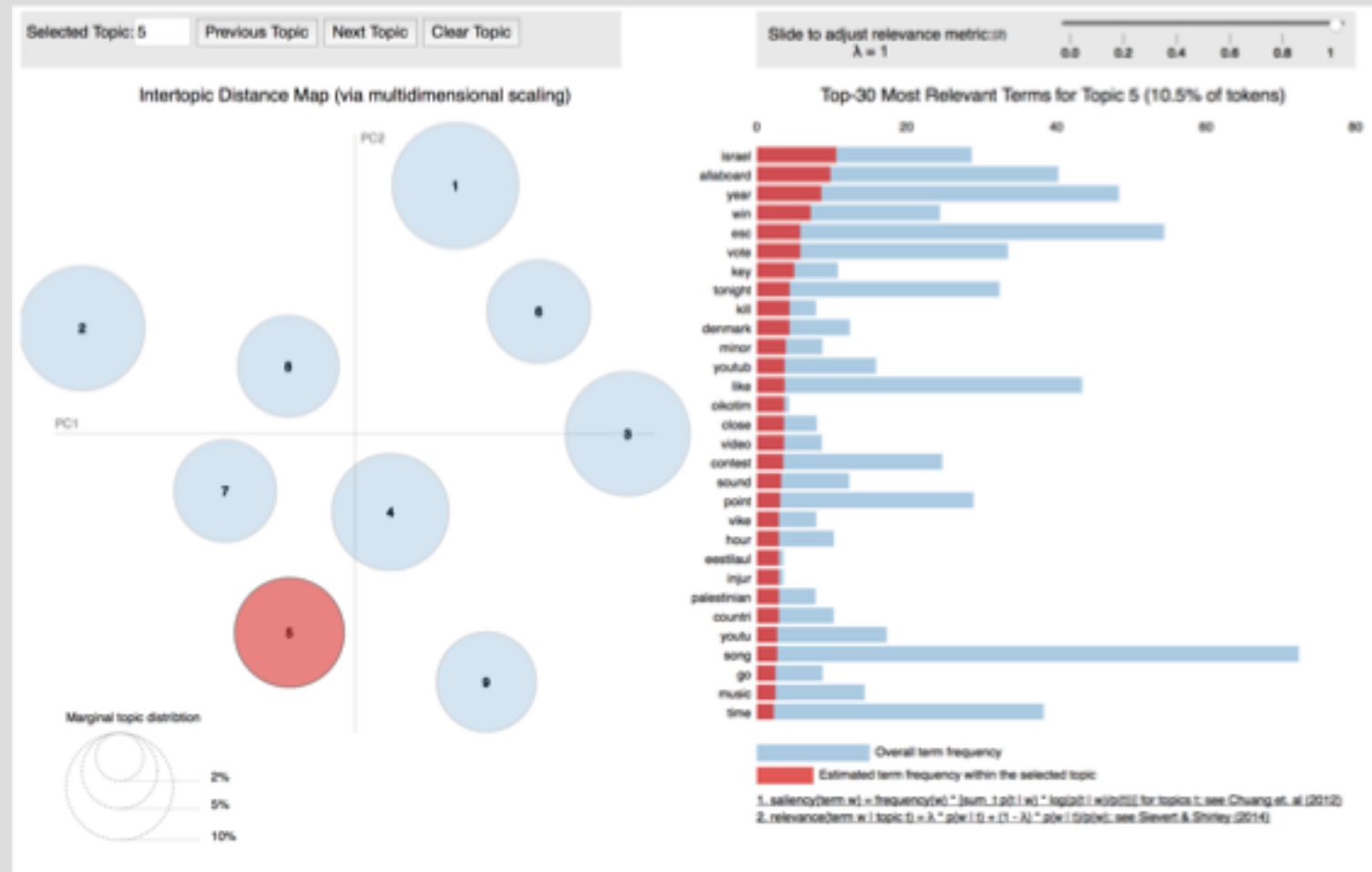| Common Topic |
| --- |
| odd esc rank final |
| like earli song join |
| year israel love point |
| good earli like know |
| song year esc time |
| song esc s lisbon |
| point card time live |
| song earli year s |
| final semi cest song |

'I am 1000 % Team Israel! #Eurovision'

'Toy is the best Eurovision winner off the 2000 's #Eurovision'

Why Israel why?! #eurovision

TOPIC MODELING - LDA

TOPIC MODELING - LDA

Common Topic
israel palestinian kill vote
israel esc entri year
israel time year watch

'18 Palestinians killed by Israel so far Rabbi this is the true face of Israel more than 1000 injured Rabbi #Eurovision'

'As Israel kills dozens and injures close to 2000 peaceful protesters in Gaza, "celebratory"concert taking place in Tel Aviv tonight. #Eurovision pic.twitter.com/e1uAuAY7YP'

'Israel has killed 57 Palestinians since March 30th alone and shot over 2000 with live ammunition. #Eurovision votes for Israel would be stained with the blood of Palestinians & OK for more murders by the Apartheid state . #BDS #BoycottIsrael #Eurovision2018 #FinalEurovision pic.twitter.com/0RuyHsaG5J'