

Are you more “proukr” o “dontcare”? what a hashtag can say about you

Davide Perra
d.perra@studenti.unipi.it
Student ID: 616686

Author 2
author.two@unipi.it
Student ID: 1234567

Author 3
author.three@unipi.it
Student ID: 1234567

ABSTRACT

In this report, we propose a study conducted using Network Science tools regarding the relationships built up between users using the social network Twitter during the first weeks after the start of the war in Ukraine in February 2022.

1

KEYWORDS

Social Network Analysis

ACM Reference Format:

Davide Perra, Author 2, and Author 3. 2019. Are you more “proukr” o “dontcare”? what a hashtag can say about you. In *Social Network Analysis '19*. ACM, New York, NY, USA, 3 pages. <https://doi.org/10.1145/nnnnnnn.nnnnnnn>

1 INTRODUCTION

The outbreak of the Russian-Ukrainian conflict in February 2022 has been an important topic of discussion on social networks. Our analysis aims to construct a network inspired by the spread of the debate through the observation of tweets and retweets of users worldwide. Within our network, nodes represent users and links represent interactions between them. We divided the nodes into 4 categories and the analysis carried out on the tweets and hashtags led us to analyse their trends with the ultimate goal of identifying what could be potential future scenarios within the network, in terms of

¹Project Repositories

Data Collection: <https://github.com/sna-unipi/data-collection>
Analytical Tasks: <https://github.com/sna-unipi/analytical-tasks>
Report: <https://github.com/sna-unipi/project-report>

Permission to make digital or hard copies of all or part of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyrights for components of this work owned by others than the author(s) must be honored. Abstracting with credit is permitted. To copy otherwise, or republish, to post on servers or to redistribute to lists, requires prior specific permission and/or a fee. Request permissions from permissions@acm.org.

SNA '19, 2018/19, University of Pisa, Italy

© 2019 Copyright held by the owner/author(s). Publication rights licensed to ACM.

ACM ISBN 978-x-xxxx-xxxx-x/YY/MM...\$0.00

<https://doi.org/10.1145/nnnnnnn.nnnnnnn>

the likelihood of a user changing their nature following an interaction with a user from a different category.

2 DATA COLLECTION

The first step was the data collection phase and the creation of a dataset. In order to set the work on data that best suited our needs, we decided to create a dataset by extracting data from Twitter to create our network.

Selected Data Sources

We chose Twitter as the source for extrapolating the data as we believe it is one of the most widely used social networks for discussing the Russian-Ukrainian conflict as well as being, more generally, one of the most widely used platforms worldwide and thus able to engage a significant number of users. Although the official date of the outbreak of war is 24 February, we started analysing tweets from 15 February 2022 in order to capture users' opinions before the actual start date, until 15 March 2022, thus considering both the pre-war phase and the start phase, the highest moment that fragmented people's opinions. We use only one month for the network construction phase for reasons of memory management, performance, which were crucial considerations in the duration of the whole project due to the gigantic amount of tweets and related data and metadata. For the final phase of the open question, we enlarge the time view to two months.

- item 1
- item 2
- item 3

Crawling Methodology and Assumptions. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum².

- (1) item 1
- (2) item 2

²Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur www.abcd.com.

(3) item 3

3 NETWORK CHARACTERIZATION

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Comparision with ER

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Comparision with BA

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

$$\lim_{n \rightarrow \infty} x = \sum_{i \in B} \frac{1}{2} \quad (1)$$

4 TASK 1: SELECTED TASK

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Figure 1 as in [?].

5 TASK 2: SELECTED TASK

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse

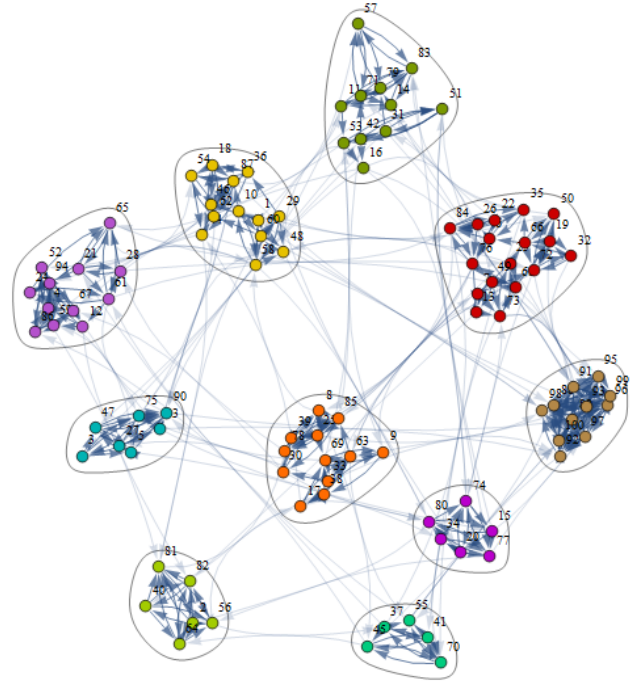


Figure 1: Lorem ipsum dolor sit amet, consectetur adipiscing elit

Table 1: Excepteur sint occaecat cupidatat non proident

Col1	Col2	Col3
A	B	C
π	D	E
\$	G	H
Ψ_1^2	I	L

cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Table 1.

6 TASK 3: OPEN QUESTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

7 DISCUSSION

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation

ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.