Quanteda and Twitter

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1 Introduction

Quanteda is a package for managing and analyse text quantitatively. It is quite easy to use and will bring us a number of interesting functions.

1.1 You will need:

- 1. The package Quanteda, quanteda.textplots and quanteda.textstats which can be installed using RStudio
- 2. The package rtweet, we installed last tutorial.
- 3. Package DT for viewing the KWIC inside R.

2 Scraping Tweets

We are going to use the same data we have used in the previous tutorials.

3 Doing some analysis

3.1 Creating a network of hashtags for each president

First we will do the magic for Lulla. We are going to:

- 1. Select the hashtags using the command dfm_select
- 2. Select the 50 more frequent using topfeatures command

```
tag.LI <- dfm_select(LI.dfm, pattern = ("#*"))
toptag.LI <- names(topfeatures(ttag.LI, 50))</pre>
```

Now let us construct a feature-occurrence matrix for the hashtags

```
tag.fcm.LI <- fcm(tag.LI)</pre>
```

Let us make a FCM only with the top hashtags

```
top.plot.LI <- fcm_select(tag.fcm.LI, pattern = toptag.LI)</pre>
```

And then we make our network

Let us see how is the final product

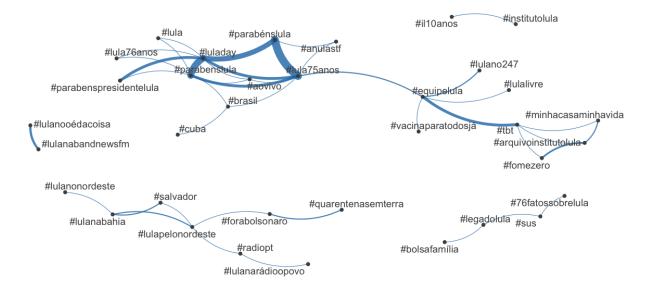


Figure 1: Lula's network of hashtags

Now let us see how it works for JB, all in a single batch of commands:

3.2 Analysing user interactions

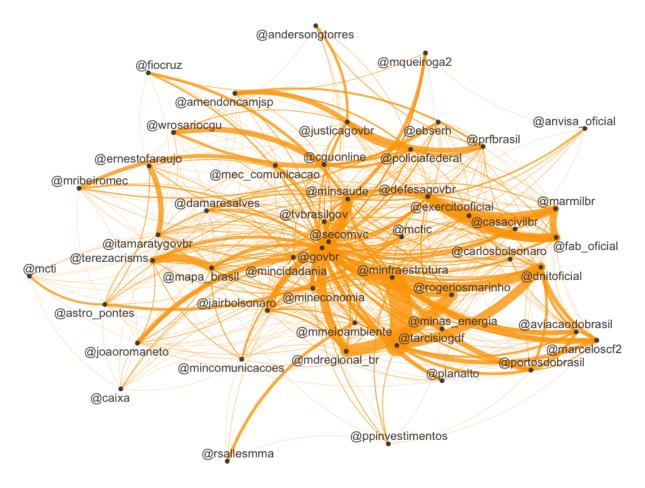
We can use the same methodology to study users interaction. The difference we are going to change the search for *# to *@. Let us start by Lula, but in a single command:

```
user.LI <- dfm_select(LI.dfm, pattern = ("@*"))
topuser.LI <- names(topfeatures(user.LI, 50))
user.fcm.LI <- fcm(user.LI)</pre>
```



Figure 2: Covas' network of hashtags

The result would be something similar to it:



Now let us do the same for JB

The result should be something similar to:

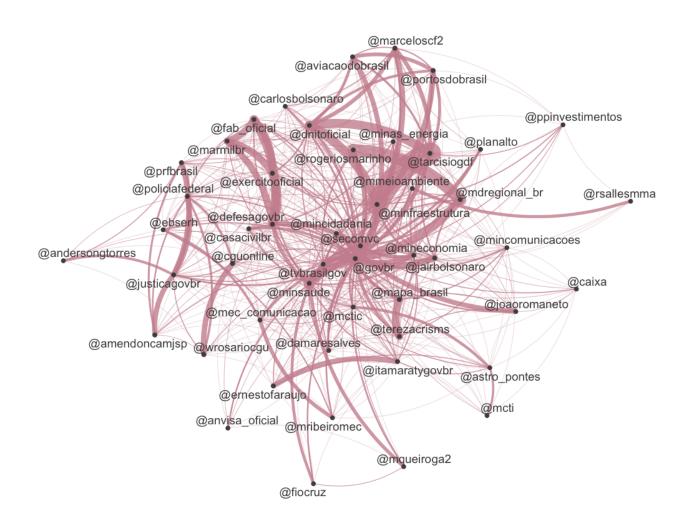


Figure 3: JB's users