Sentiment analysis and LSF

Replication of Lima-Lopes (2020)

Rodrigo Esteves de Lima-Lopes
State University of Campinas
rll307@unicamp.br

Contents

1 Introduction

In this Module I am going to discuss some strategies of comparison between texts and sentiment analysis. It was produced in order to assist colleagues who work in the area of Corpus Linguistics and Systemic Functional Linguistics, as a way to use R in their research. I think that sentiment analysis is an area which needs much work and is disregarded by linguistics. I hope it is a beginning. This is part of my CNPq-funded project and seeks to make corpus tools and network analysis accessible. If you have any doubts or wish to make any research contact please send me an email.

This is the first post is a replication of:

Lima-Lopes, R. E. de. (2020). Immigration and the Context of Brexit: Collocate network and Multidimensional Frameworks Applied to Appraisal in SFL. *Muitas Vozes*, 9(1), 410–441. DOI: 10.5212/MuitasVozes.v.9i1.0024. URL.

My general idea is make a full replication, which will take place in five different moments:

1. 01_Sentiment_Data_scraping.md
    - Data scraping from the news media
2. 02_Sentiment_pre_processing_network.md
    - Network of words using:
        - Quanteda (Benoit et al. 2018) (an R Package)
        - Gephi (Bastian, Heymann, and Jacomy 2009) (a software for networking)
3. 03_Sentiment_Dictionaries.md
    - Counting the sentiments in each file and in each piece of news
    - Counting the sentiments in each file and in each newspaper\
    - The categories were predefined by Lima-Lopes (2020) .
4. 04_Sentiment_plotting_tables.md

- `Final tables with sentiments`

References

Bastian, Mathieu, Sebastien Heymann, and Mathieu Jacomy. 2009. "Gephi: An Open Source Software for Exploring and Manipulating Networks." *Third International AAAI Conference on Weblogs and Social Media*, 361–62. https://doi.org/10.1136/qshc.2004.010033.

Benoit, Kenneth, Kohei Watanabe, Haiyan Wang, Paul Nulty, Adam Obeng, Stefan Müller, and Akitaka Matsuo. 2018. "Quanteda: An r Package for the Quantitative Analysis of Textual Data." *Journal of Open Source Software* 3 (30): 774. https://doi.org/10.21105/joss.00774.

Lima-Lopes, Rodrigo Esteves de. 2020. "Immigration and the Context of Brexit: Collocate Network and Multidimensional Frameworks Applied to Appraisal in SFL." *Muitas Vozes* 9 (11): 410–41. https://revistas2.uepg.br/index.php/muitasvozes/article/view/15506.