Analysis of Bias Detection for English Newspapers

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Abstract

This project contributes to the detection of fake news by analysing bias in english newspapers. Articles from english newspapers are grouped by topic and undertaken a sentiment analysis to detect the bias and tendencies within each article. It results in a visualization, which shows the media bias per newspaper, topic and keyword.

Motivation

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Objectives!!!

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Methods

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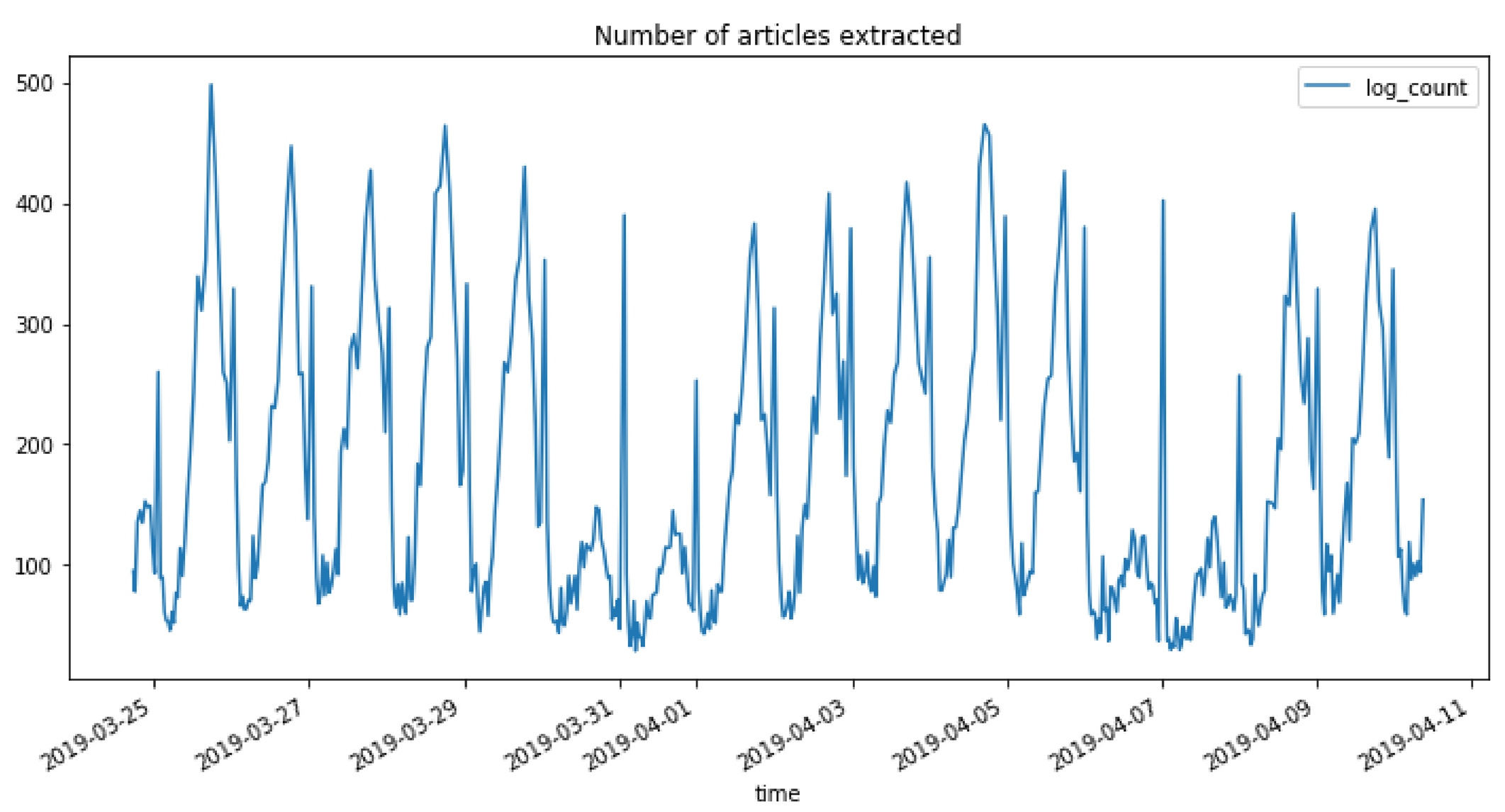
Data Extraction

As a way to make the analysis relevant and up to date with the most current news topics it has been developed a new news dataset with the following porperties

- Built a dataset with over **70.000** news articles
- Scraped over **19** newspapers for over **2** weeks
- With and average of **3.600** news articles per newspaper



The dataset was build only using the newspapers3k python package

Dataset Properties

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$$E = mc^2 \tag{1}$$

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$$\cos^3\theta = \frac{1}{4}\cos\theta + \frac{3}{4}\cos 3\theta \tag{2}$$

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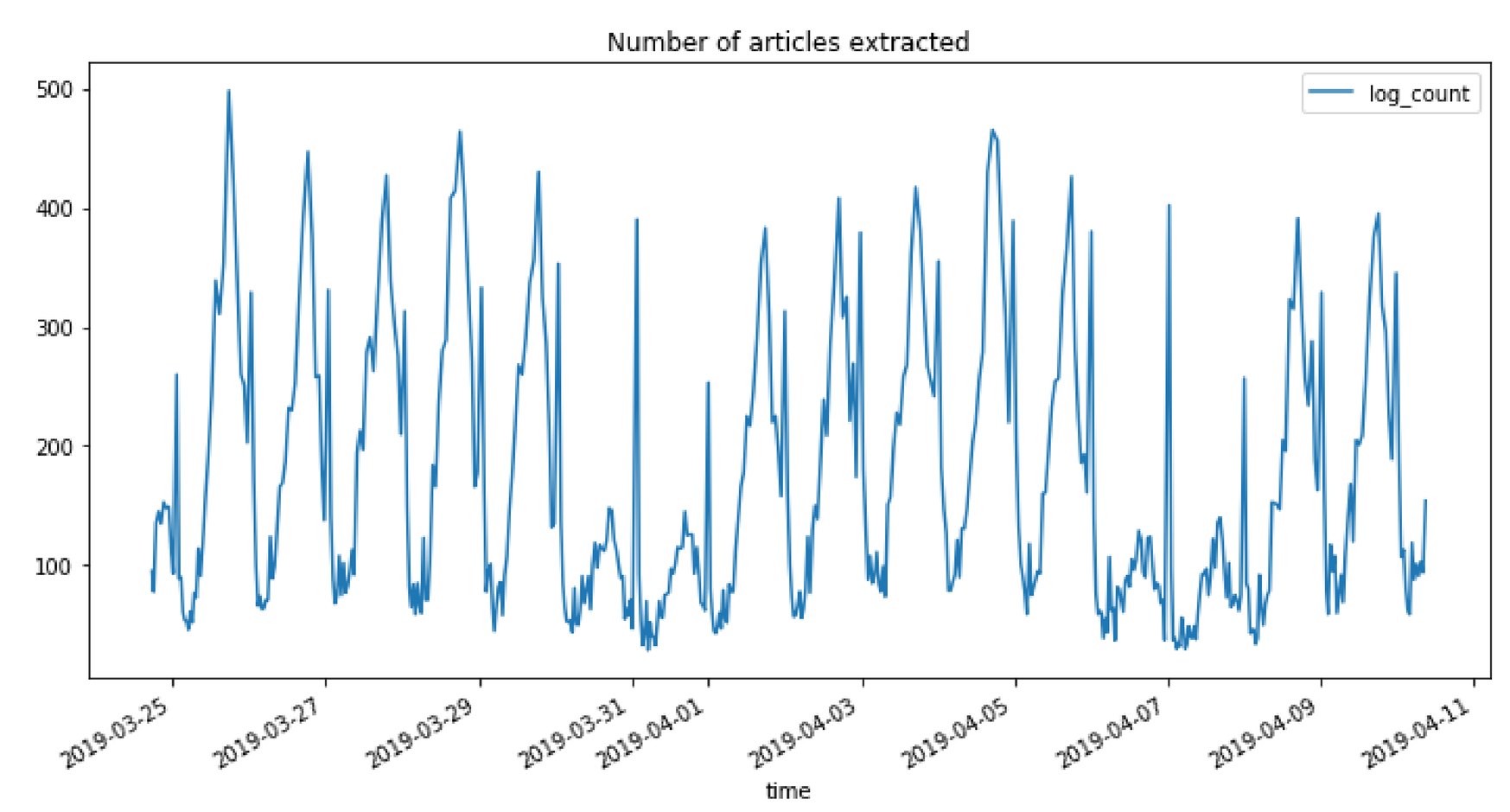
$$\kappa = \frac{\xi}{E_{\text{max}}} \tag{3}$$

Trump



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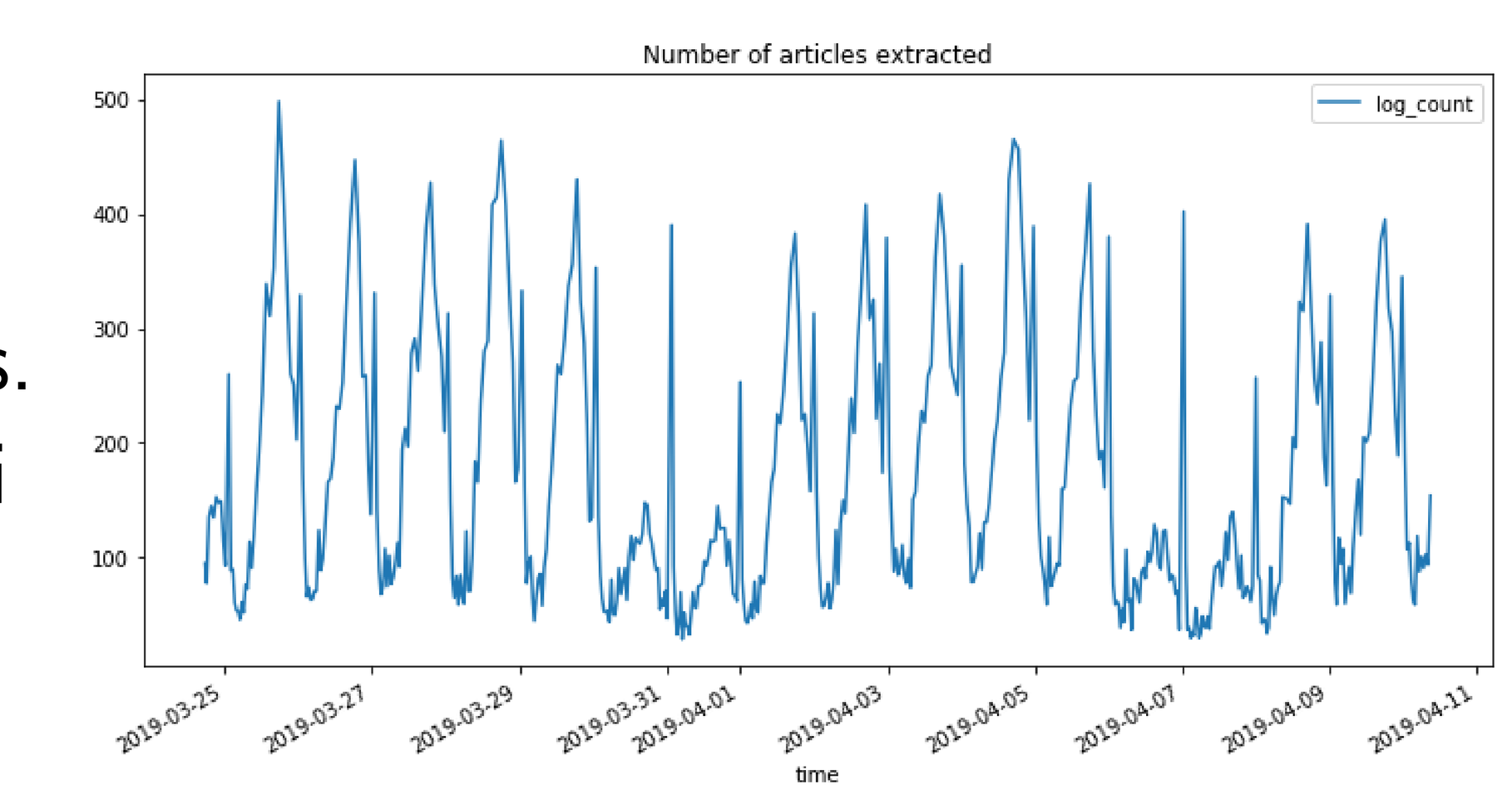
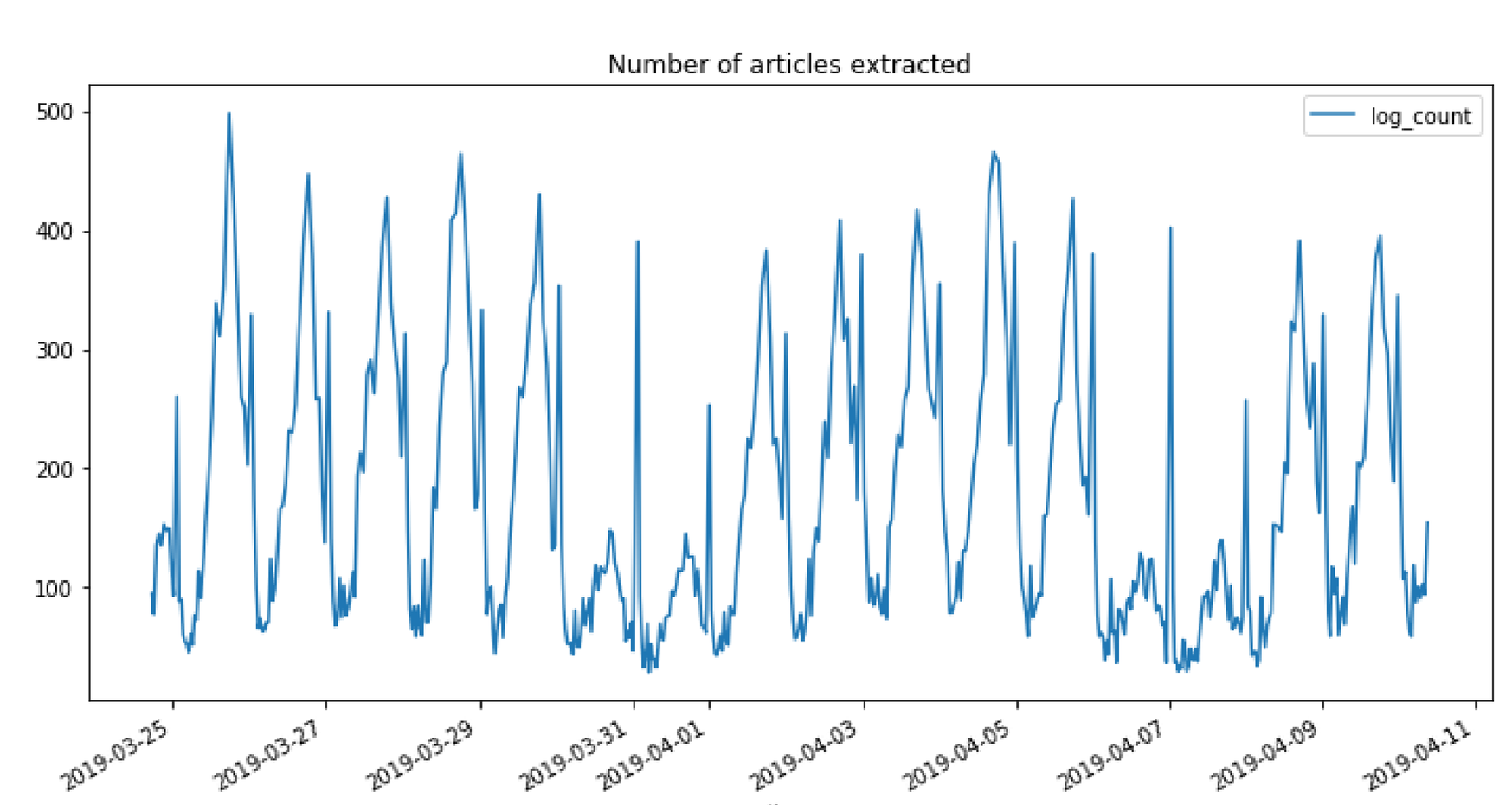


Syria



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Future Work

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Acknowledgements

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All code can be easily accessed in github.com/morten-novaims/Text_Mining_HW