# MA615 Text Mining Task II Report

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#### Task I Book Choice

The book I chose is 'The Origin of The Family, Private Property and the State' by Friedrich Engles.

#### TASK II

In this task, I will first use three methods to analyze 'The Origin of The Family, Private Property and the State'. The sentiment analysis includes "AFINN", "BING", "NRC". For the extra credit, I will use "Loughran-McDonald" for another sentiment analysis.

The content for this book is about early human history and reveal the destruction of old social rules; the development of new society based on private property. Engles first discusses the development of family, from blood-related family to monogamy family. Then he talks about the foundation of Germany and Rome; next he states specialization and social class and the start and end of countries. Engles discussed marriage, slaves, social progress, and human rights. As a result, more positive words appear in the book than negative words.

As shown in the below code chunks and graphs, more positive words appear in the book than negative ones. However, in some chapters, Engles talks about the dissemble of nations and the situation of slaves. These result in the increase of negative words and the downward bars in the sentiment analysis.

The code I use refer to Jin Yuli's code. But I made some major changes to his code so that the graphs are visually adaptable to my book. The code is also simplified.

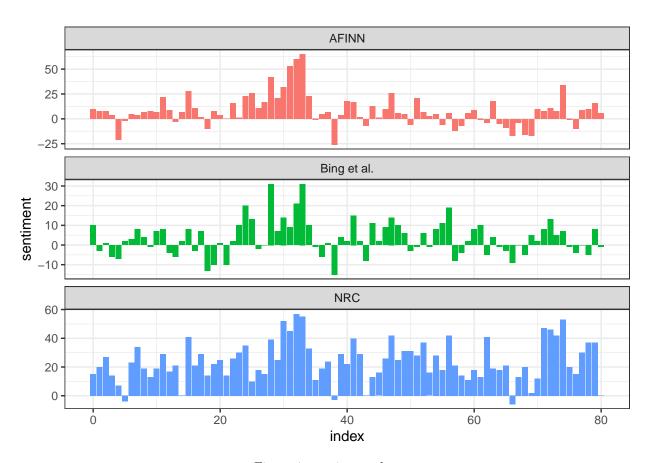


Figure 1: sentiment plot

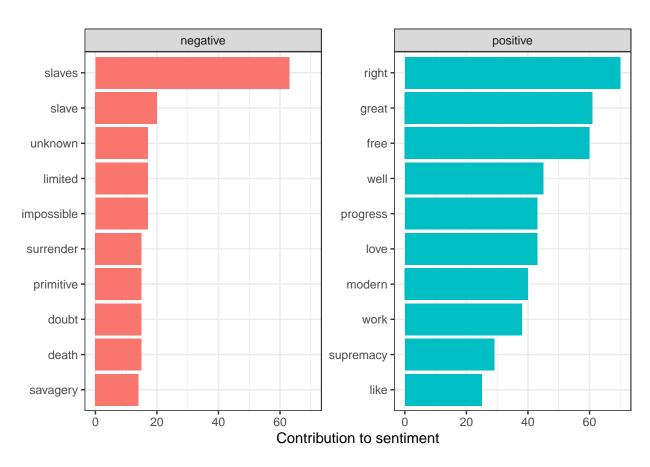


Figure 2: nega-posi words count

power community Society husband organization transition barbarism development love germans male progress female custom period pairing indians household called human mater people maternal public free living world SOCial intercourse economic private prothers made maternal public free living world Social intercourse relations rights individual economic private brothers modern morgan sisters chief woman wife middle military slavery council greeks war kinship aWforms mother mother slavery civilization fathertimes natural children exchange land wealth german g found 을 classes religious stence slaves emonogamy phratry iroquois developedcommon class ( labor nationssystem production

Figure 3: Word Cloud Graph



Figure 4: sentiment word cloud

## This is the part for extra credit:

