



BOOK RECOMMENDER

ANJALI SEBASTIAN

INTRODUCTION



- ◆ Book worm
- ◆ Analyze & Discover patterns
- ◆ Large amount of copyright free literature
- ◆ Recommend a similar free book from a excerpt

DATA

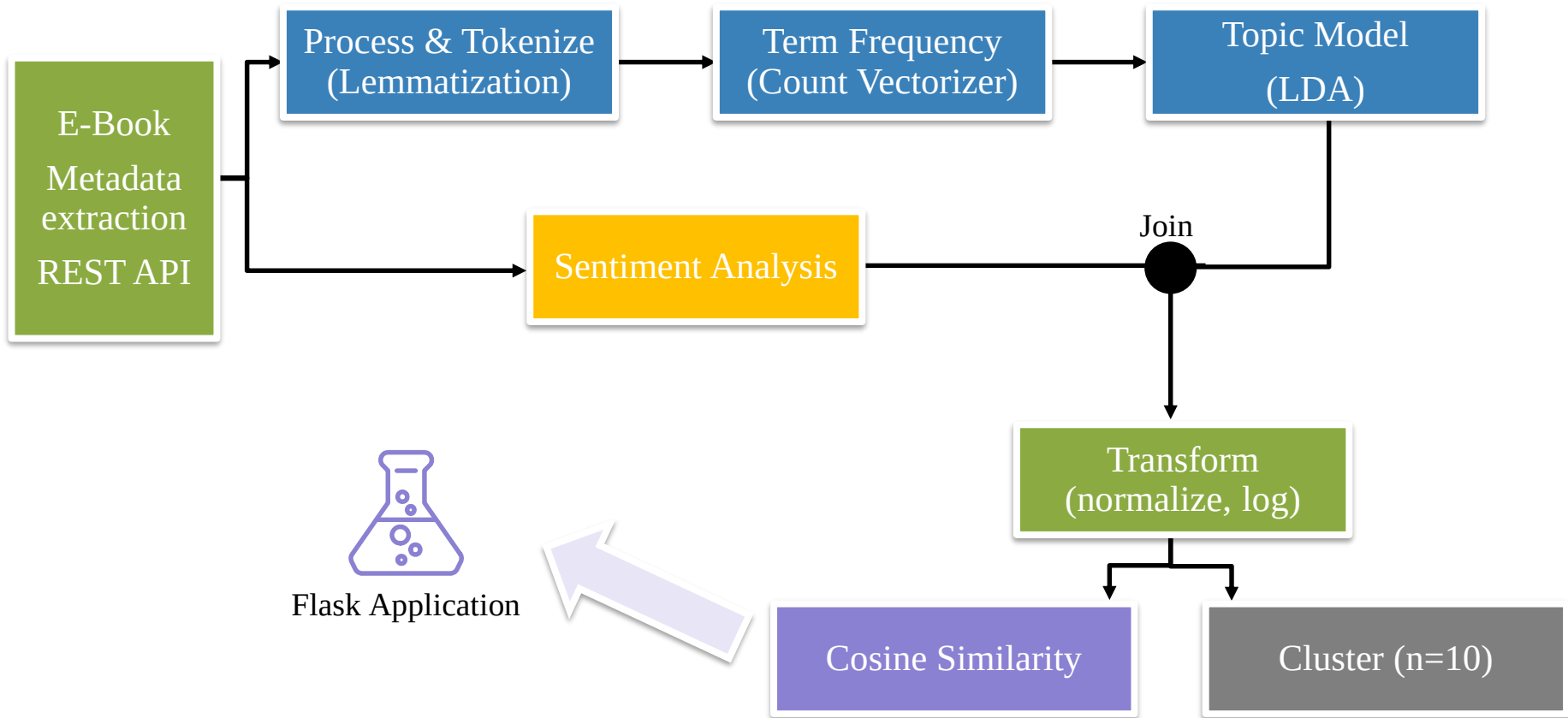


3000 full e-books from
Project Gutenberg - .txt file
format

150 authors

Enhanced dataset of
30,000+ books



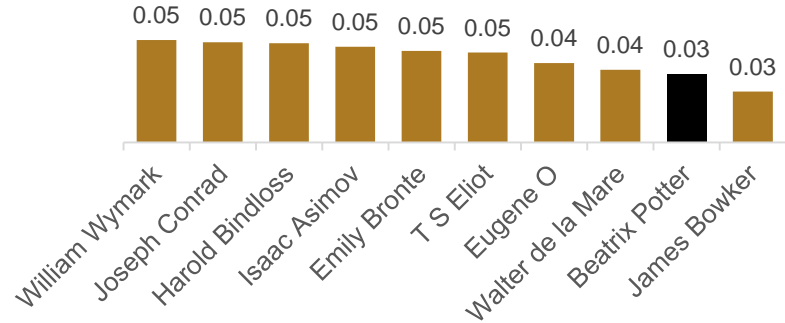
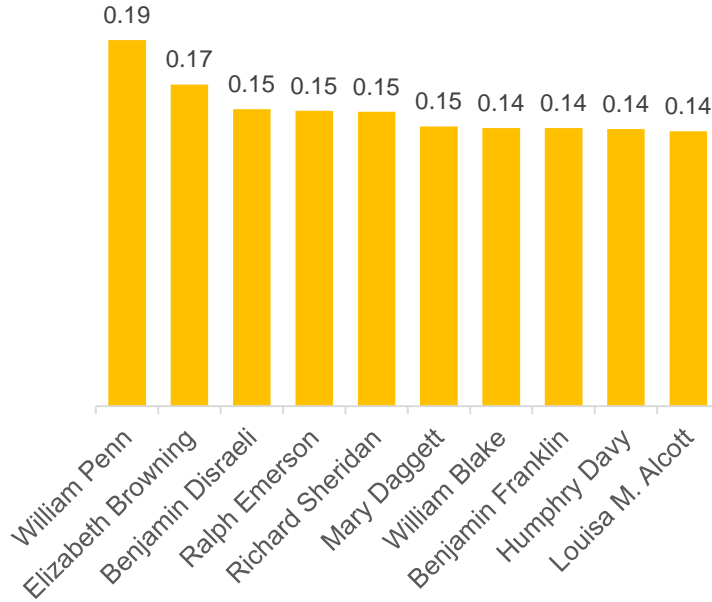


DESIGN





SENTIMENT ANALYSIS - POLARITY



PETER RABBIT THE DARK SIDE



When Benjamin Bunny grew up, **he**
married his Cousin Flopsy.

As there was **not** always quite
enough to eat,—Benjamin used to
borrow cabbages from Flopsy's
brother, Peter Rabbit, who kept a
nursery garden.

Sometimes Peter Rabbit **had no**
cabbages to spare.



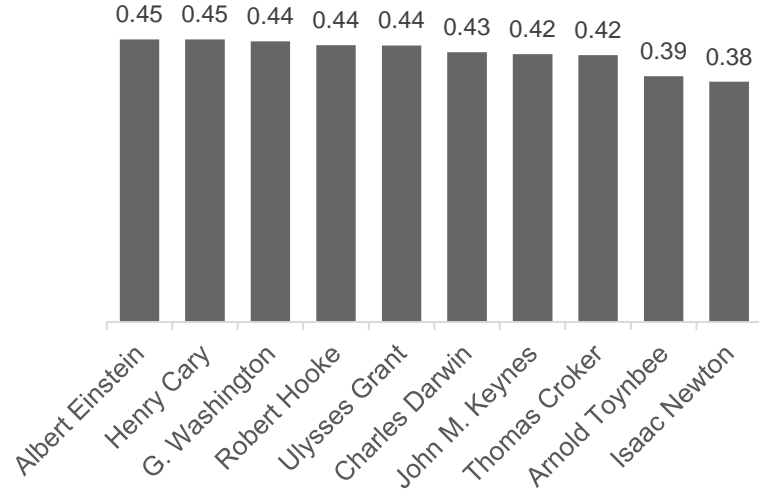
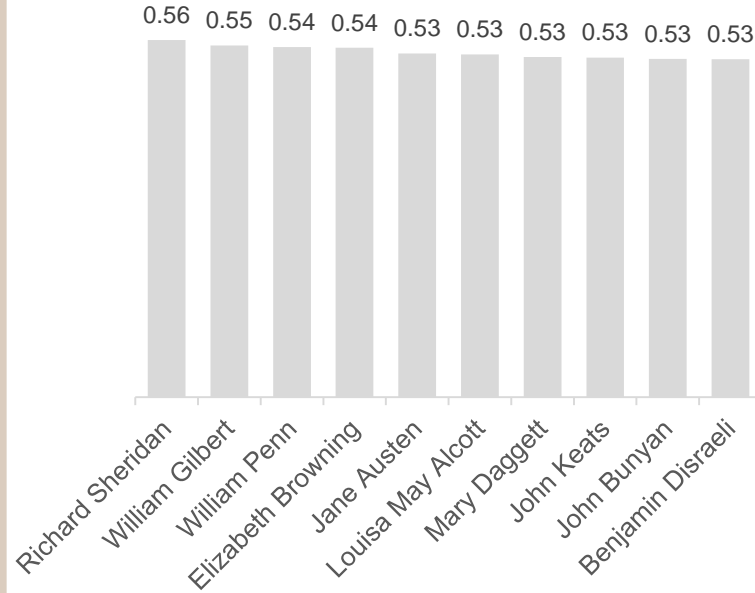
SENTIMENT ANALYSIS - SUBJECTIVITY



Abstract



Concrete



POPULAR AUTHORS



Isaac Asimov

Agatha Christie

P G Wodehouse

SMALL SENTENCES !

< 12 words per sentence

TOPIC MODELING



Topic 19 – Religious Text

god , spirit , soul , lord ,
father , heaven , christ

Sermons, Gospel, Quaker

Charles Kingsley

William Penn

John Bunyan

Topic 10 – Kid's Books

girl , mother , boy , peter ,
don , cried

The Wonderful Wizard of
Oz

The Tale Of Benjamin
Bunny

Topic 5 - Poetry

poet , poem , art , nature ,
line

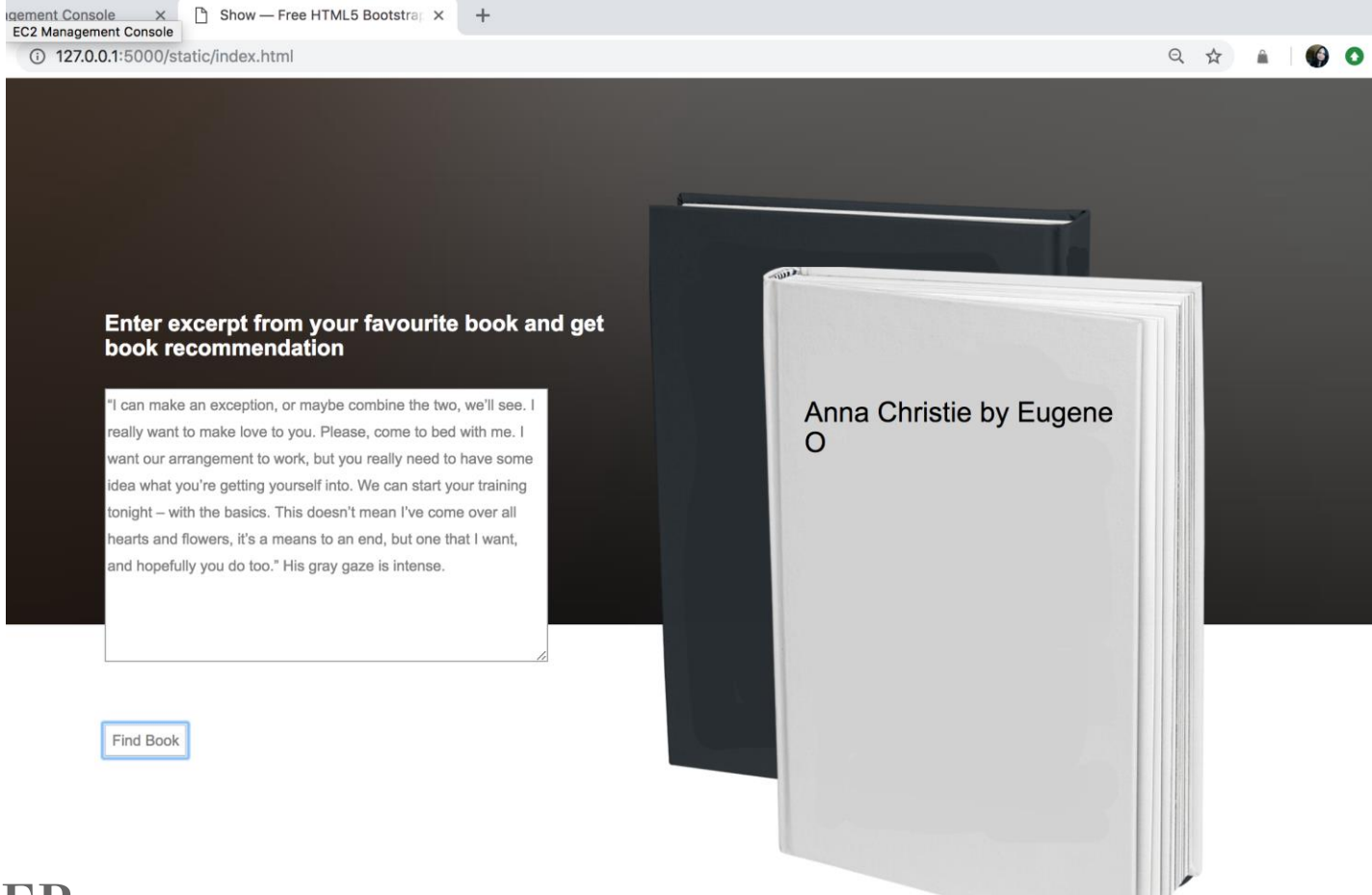
Alexander Pope

Lord Byron

P B Shelley

LDA 20 Topics

Fifty Shades of Grey – Anne Christie



BOOK RECOMMENDER



CONCLUSION & FUTURE WORK



- ◆ Able to observe interesting patterns
- ◆ Reasonable Suggestions
- ◆ Recommendation for fiction vs non fiction
- ◆ Bring more context using Neural Networks
- ◆ Larger corpus
- ◆ Remember user history and adapt

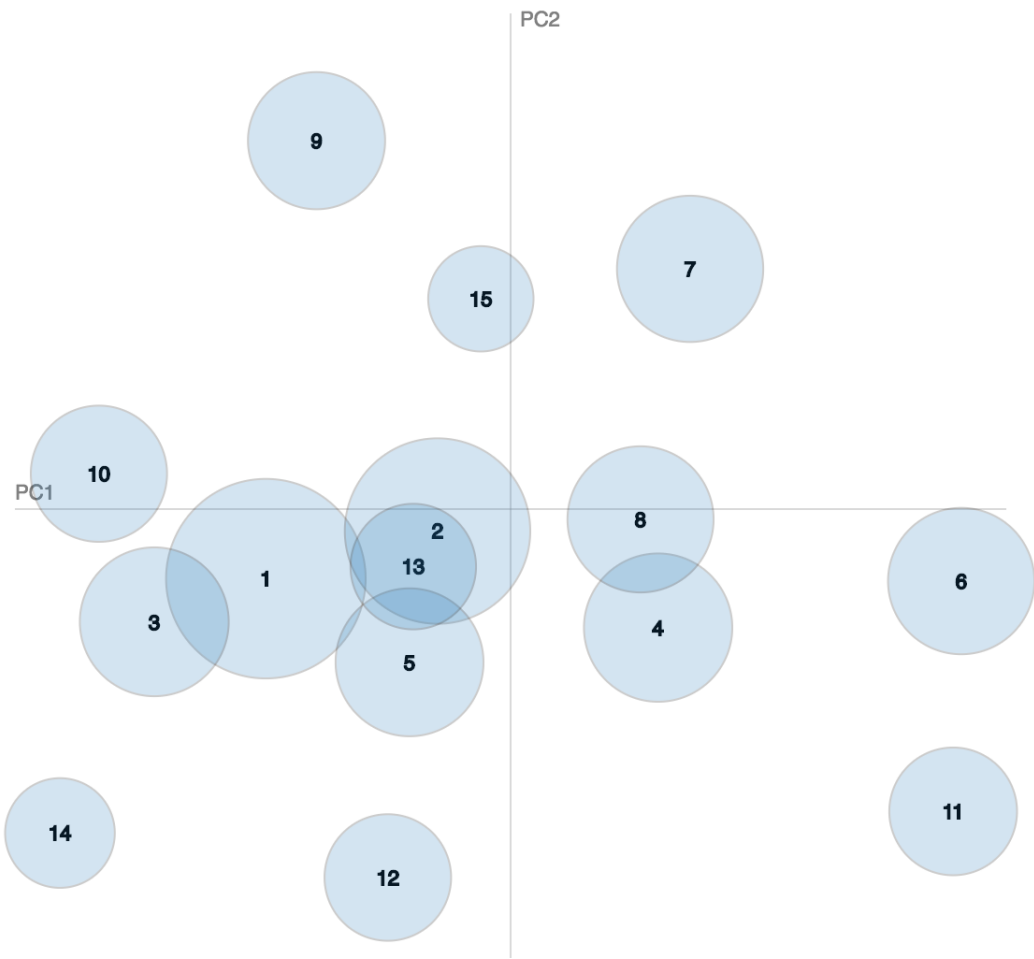
50 - 100 years from now ?



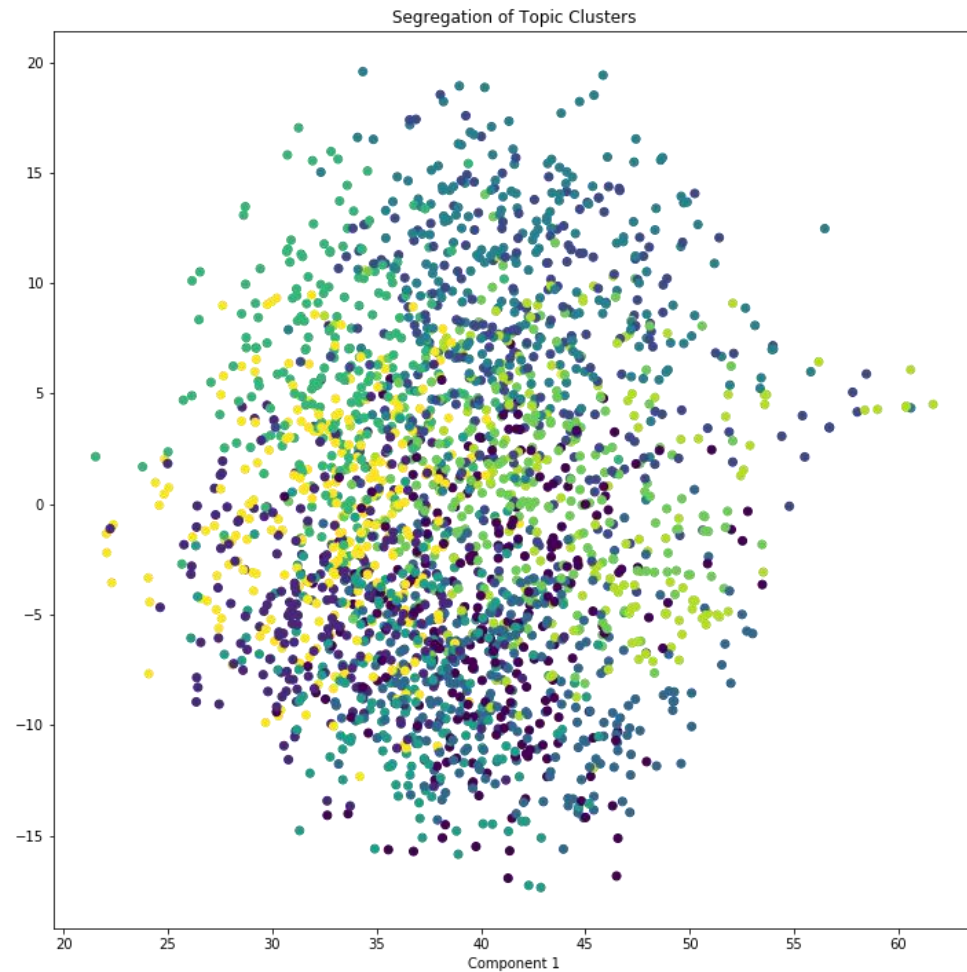
THANK YOU



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<https://github.com/anjumorris>



CLUSTERING

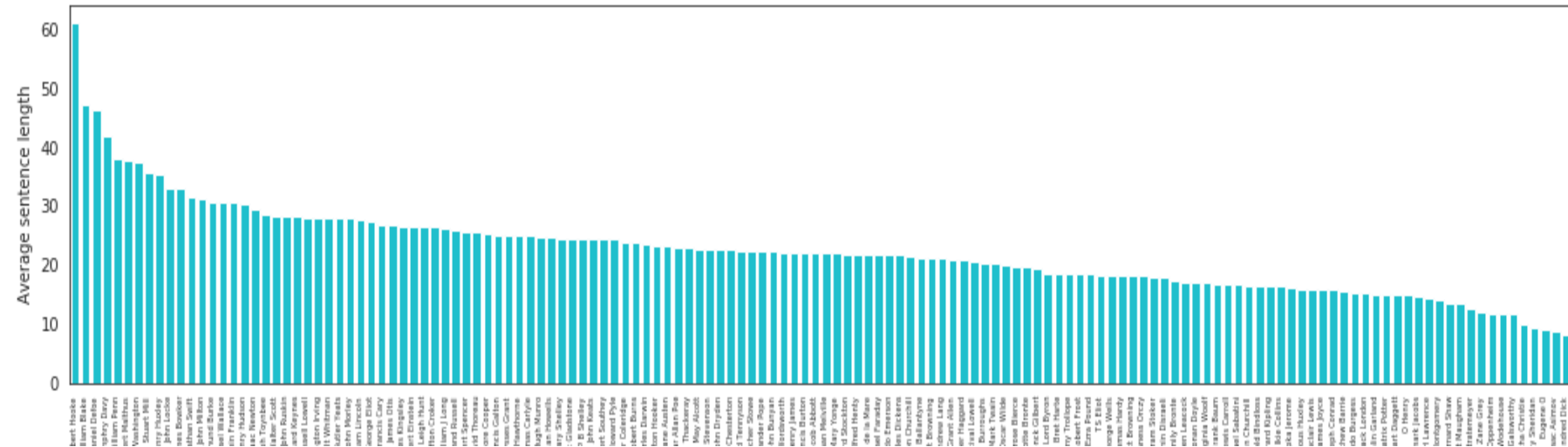






SUBJECTIVITY





SENTENCE LENGTH

