# WHAT MAKES A BOOK SUCCESSFUL

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## Fantasy Tropes

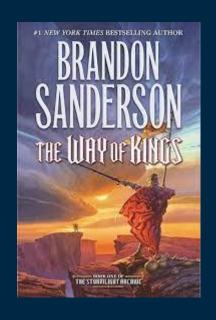
Swords

Magic

Dragons

A Bunch of Made Up Nonsense Words

#### What are Customers Reading?

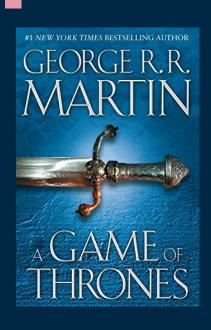


#### **Commonalities**

Series specific jargon

Unique Character names and locations

Made up magic, powers and prophecies

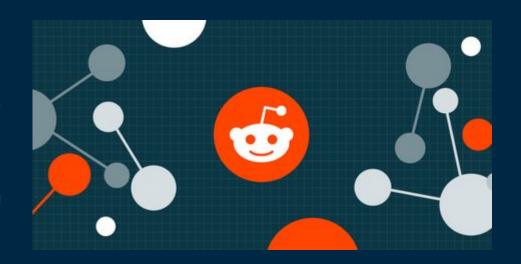


r/Stormlight\_Archive

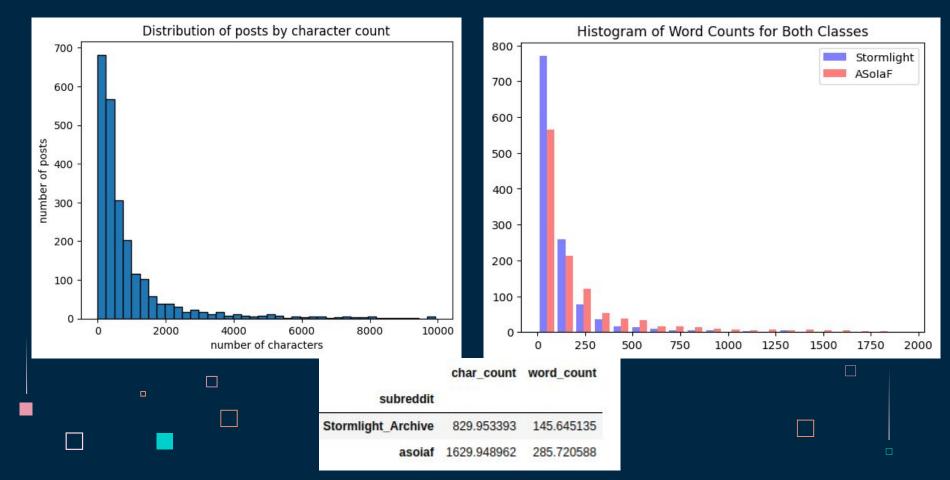
r/asoiaf

#### Reddit is Messy!

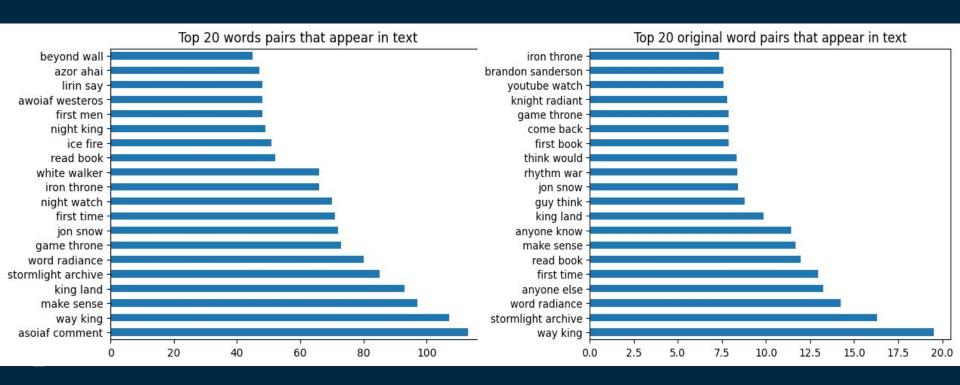
- Tokenized
  - Removed punctuation, symbols, links and unicode
- Removed Stopwords
- Lemmatization
  - Reduce words to root form
- Counted characters and words



#### Let's Take a Look



#### Terms, Names, and Titles



#### Can We Distinguish?

#### Random Forest Classifier

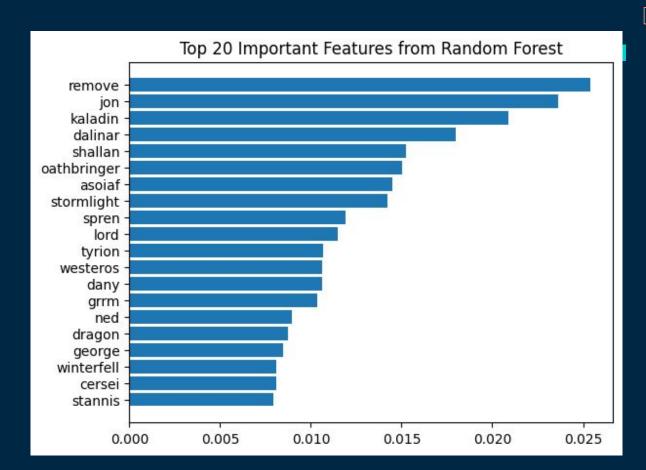
- High Classification Accuracy
- Good with multidimensional data
- Creates many trees trained on random rows and columns
- Merges for better model

#### Support Vector Machine

- Good with high dimensional and unstructured data
- Creates a Hyperplane to separate classes
- Can add dimensionality to separate hard to find clusters of a class

#### Random Forest Wins!!

- Test Classification accuracy of 0.935
- Balanced classes



### CONCLUSIONS

- Interesting names and locations are important
- Fantasy readers are nerds, they like jargon
- ullet Regular publications keep the fanbase
- interested
- TV or Movie adaptations result in a spike of activity





# Thank You All For Listening!

Are there any questions?

Mark Sammartino DSI-919 10/28/22