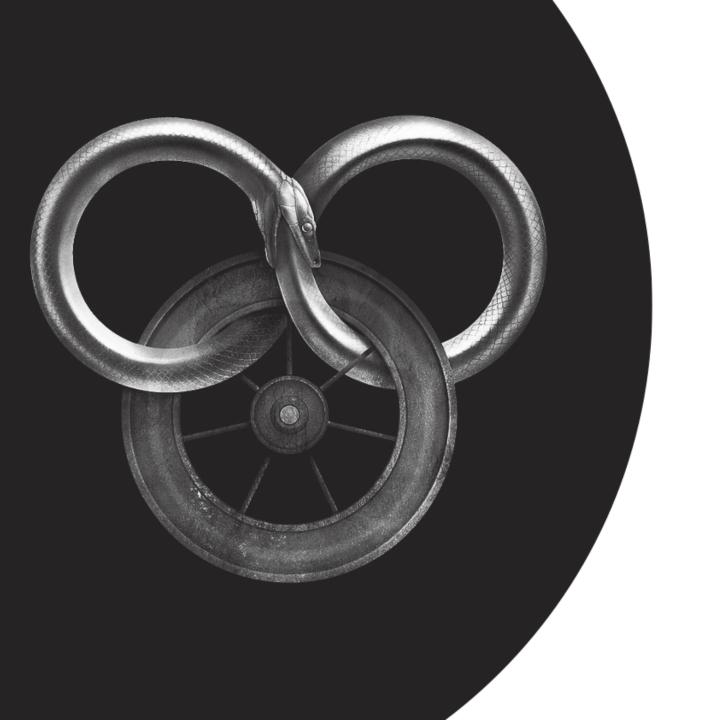
# GAME OF HRONES





### My computer reads 'The Wheel of Time'

Stephan Hermanides



## Exploration

### 15 Books



- 704 chapters
- 4,398,373 words
- Large Cast, 147 unique Points of View

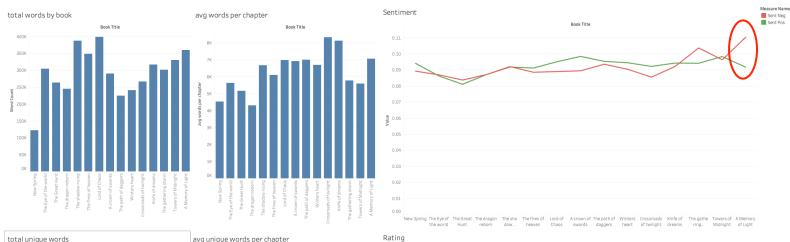
### Two writers

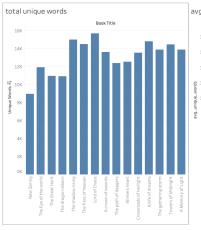
- Robert Jordan passed away working on book 12
- Finished by Brandon Sanderson

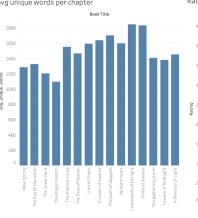


### Light versus Dark, Good versus Evil

- Central characters from a small village
- Rand Al'Thor, the Dragon Reborn
- Detailed world with politics, magic and many fleshed out cultures









### Methodology

### eBook

- EBookLib to extract
- BeautifulSoup to parse

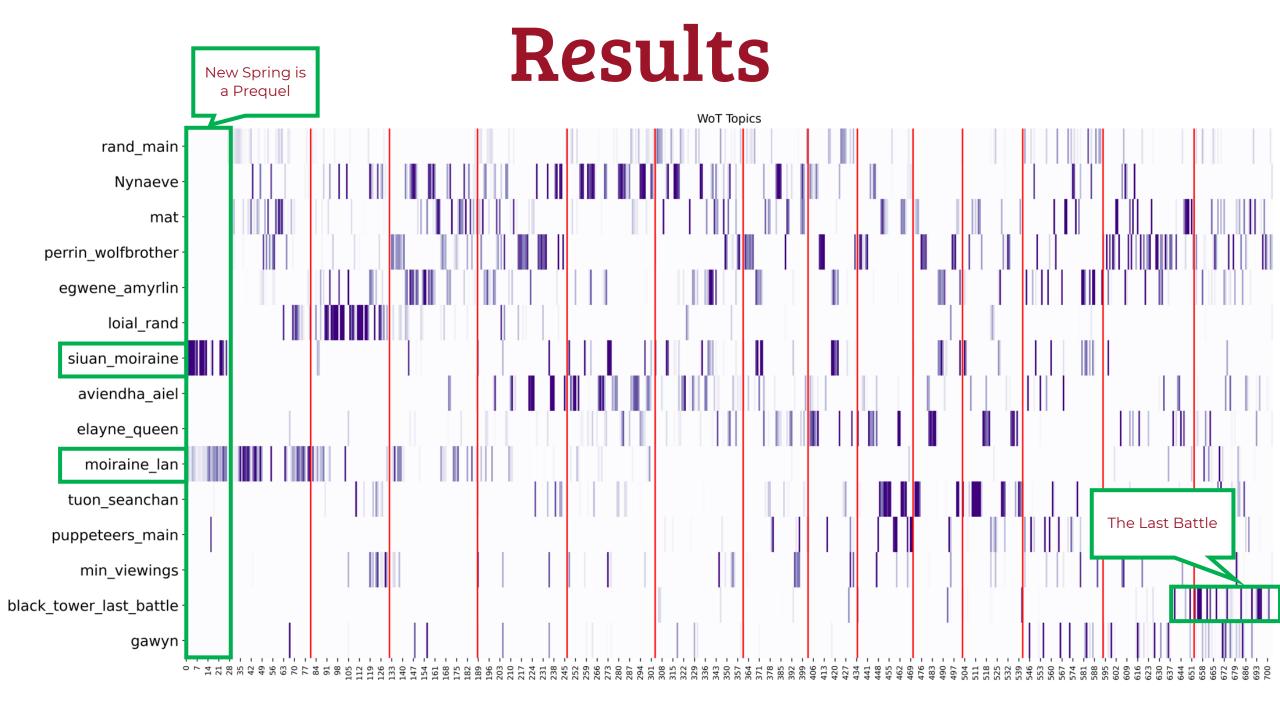
### **Topic Modeling**

- Tried LSA, LDA, NMF
- Count vectorizer, TF-IDF vectorizer, bi-grams
- NMF with TF-IDF and uni-grams gave the clearest topics

### **Topics**

- Almost all start with the central character(s)
- Secondary words show that the topics are character story arcs

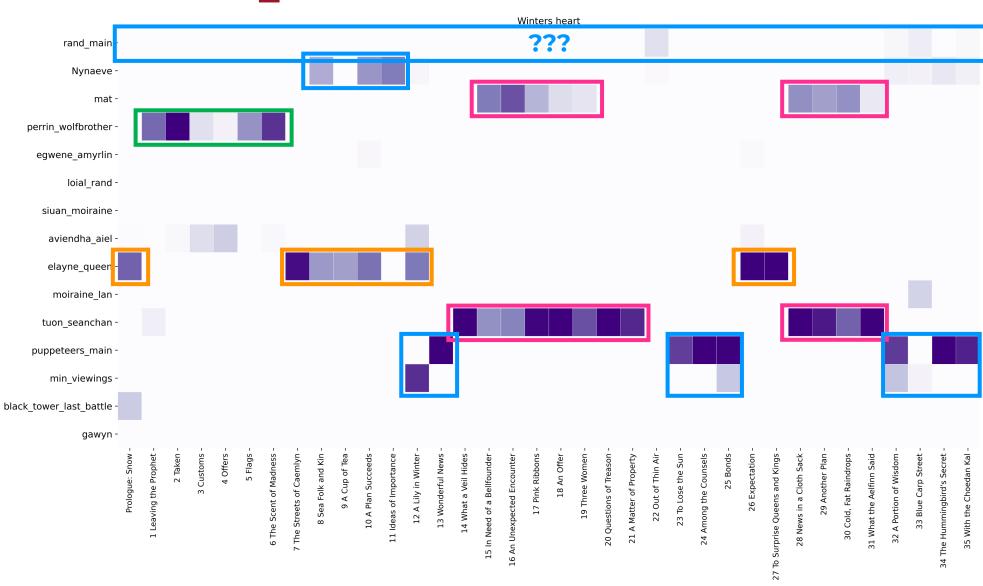
Topic Name	Supporting
Rand Main	<b>rand</b> , therin, lew, basher, dragon, lord, tam, taim, saidin, maiden, sword, citi, aiel, weiramon, kill
Nynaeve	<b>nynaev</b> , elayn, moghedien, thom, juilin, liandrin, luca, dream, telaranrhiod, door, channel, braid, galad, ship, tanchico
Mat	mat, thom, bloodi, talman, dice, olver, noal, gleeman, gholam, vanin, nalesean, cauthon, inn, mayb, tylin
Perrin	<b>perrin, faile</b> , berelain, gaul, hopper, wolv, elya, masema, slayer, wolf, aram, galad, whitecloak, smell, lord
Egwene	<b>egwen, amyrlin</b> , sheriam, elaida, tower, verin, novic, sitter, ajah, silviana, romanda, hall, dream, sister, mother
Loial & Rand	<b>loial</b> , hurin, <b>rand</b> , ingtar, ogier, verin, selen, horn, fain, lord, sted, waygat, trolloc, sniffer, perrin
Siuan & Moiraine	<b>siuan, moirain</b> , sister, sheriam, bryne, elaida, myrel, amyrlin, lelain, tower, novic, romanda, sitter, lean, tamra
Aviendha Aiel	<b>aviendha, aiel</b> , wise, ami, rhuarc, maiden, bair, spear, chief, couladin, shaido, clan, melain, gaishain, rhuidean
Elayne Queen	<b>elayn</b> , birgitt, aviendha, <b>dyelin</b> , merilil, vanden, reann, norri, arymilla, alis, andor, windfind, queen, caemlyn, sister
Moiraine Lan	moirain, lan, trolloc, warder, rand, bukama, zarin, perrin, agelmar, blight, hors, sword, ryne, loial, night
Tuon Seanchan	<b>tuon,</b> egeanin, <b>seanchan</b> , selucia, luca, daman, suldam, domon, jolin, suroth, wagon, tylin, bethamin, teslyn, juilin
Puppeteers	<b>cadsuan, harine,</b> semirhag, <b>sorilea, verin, alanna</b> , meris, althor, shalon, saren, merana, daigian, sister, alivia, graendal
Min Viewings	<b>min, rand,</b> logain, caralin, merana, daman, seanchan, lean, suldam, renna, darlin, ship, <b>aura, view,</b> nynaev
Last Battle	<b>androl, pevara</b> , taim, logain, emarin, trolloc, gateway, evin, <b>demandred</b> , ashaman, jonneth, nalaam, <b>sharan</b> , talman, dobser
Gawyn	<b>gawyn,</b> bryne, galad, egwen, sleet, iturald, trolloc, soldier, elayn, armi, camp, fight, tower, forc, sharan



### Example: Book 9

### **Book Summary**

- Perrin Aybara and his followers pursue the Shaido Aiel who kidnapped his wife, Faile Bashere.
- Elayne Trakand attempts to solidify her grip on the Lion Throne and put down rebellious nobles.
- Mat Cauthon is trapped in the city of Ebou Dar in Altara. He plans his escape, but in the end, his plans are disrupted by the interference of a Seanchan noblewoman named Tuon.
- Rand al'Thor, the Dragon Reborn, and Nynaeve al'Meara Travel to Shadar Logoth. There, they cleanse saidin of the taint of the Dark One.



### Limitations



### Lowest rated: Book 10

- Series topics too general
- Trained second NMF model on just book 10

### **Reader reception**

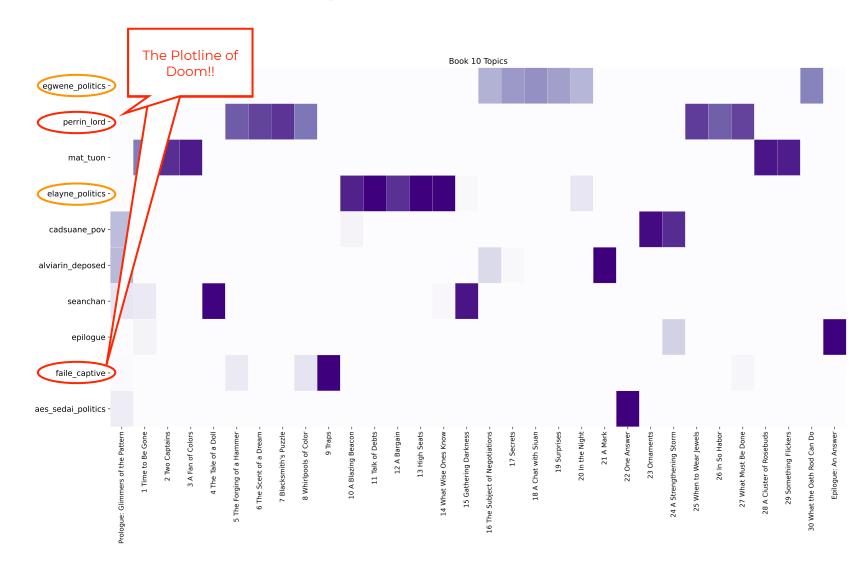


- Interpretation requires knowledge of subplots and existing fanbase opinions (Plotline of Doom)
- No way to model pacing, plot resolution

### **Pivotal moments**



- Scraped 704 Wheel of Time Superfan Blog chapter summaries and transformed with NMF model trained on books
- Main topics align with model 86% accuracy, plus some toss-ups but...
- Model misses some pivotal moments that human interpretation caught



### Questions?