The Wheel of Time, 5000x condensed

The Wheel of Time: ages come and pass as you read

The ultimate chosen one saves the world fantasy series

Chart categories (top to bottom):
- The Hitchhiker's Guide to the Galaxy
- The Chronicles of Narnia
- The Black Company *unfinished*
- The Lord of the Rings
- Percy Jackson & the Olympians
- The Twilight Saga
- Fortress
- Dune
- Inheritance Cycle
- Harry Potter
- The Expanse
- The Dark Tower
- The Stormlight Archive *unfinished*
- Crown of Stars
- Shadows of the Apt
- Worm (web serial)
- A Song of Ice and Fire *unfinished*
- The Dresden Files
- Foreigner *unfinished*
- Outlander *unfinished*
- Malazan Book of the Fallen
- The Saga of Recluce *unfinished*
- Realm of the Elderlings
- Disc World
- Wheel of Time
- The Riftwar Cycle

X-axis: 0 — 500.000 — 1.000.000 — 1.500.000 — 2.000.000 — 2.500.000 — 3.000.000 — 3.500.000 — 4.000.000 — 4.500.000

Sources:
wikipedia.org
readinglength.com

by reddit.com/u/Temibrezel

4.4 million words
700+ chapters
19 days of audio
~2800 named characters
2 authors

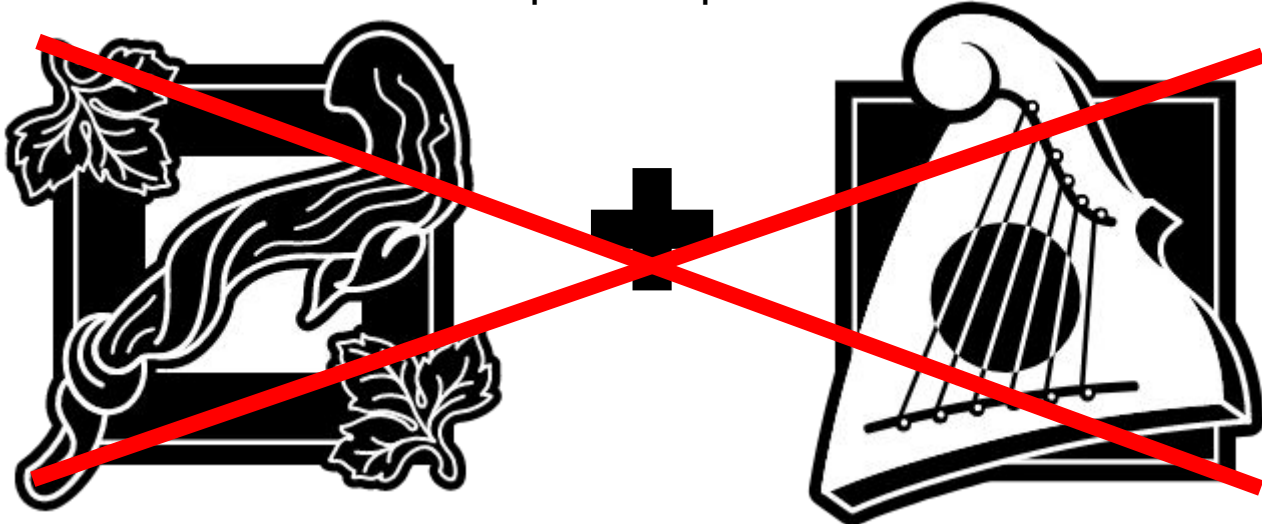Loooooooooooooooooooooooooooooooooooooooooooooooooooooooooooong

Project Goals

Make sense of the series through topic modeling

Find important characters/events and trace evolution through series

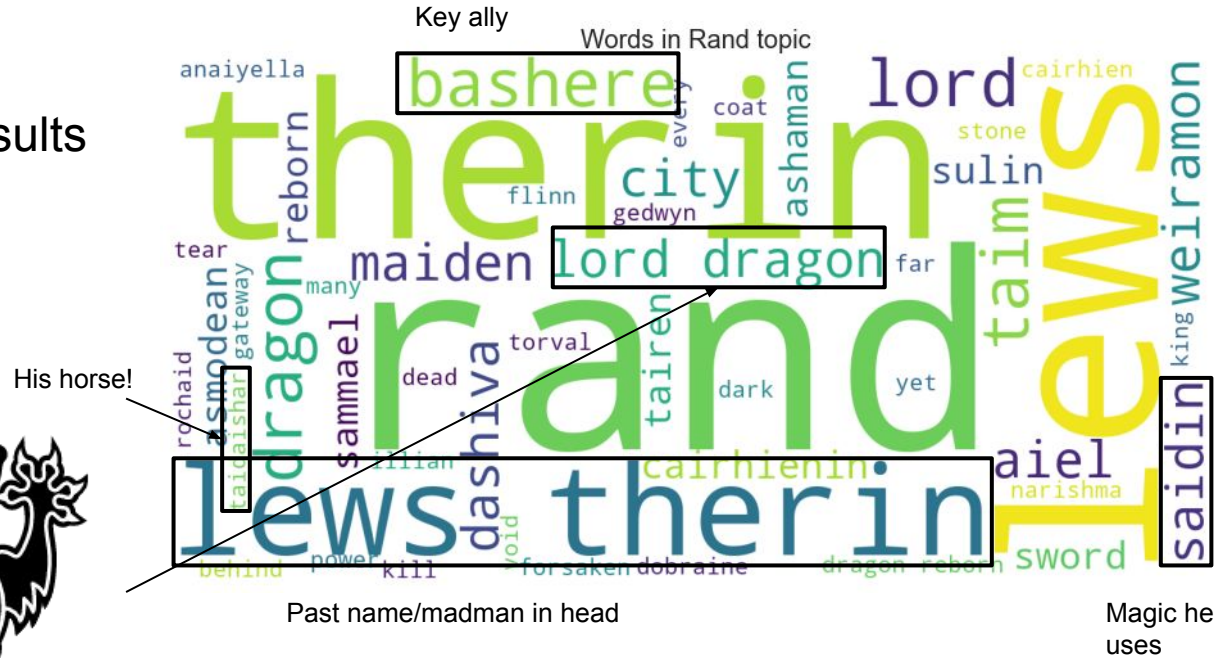See how topics correlate with book ratings

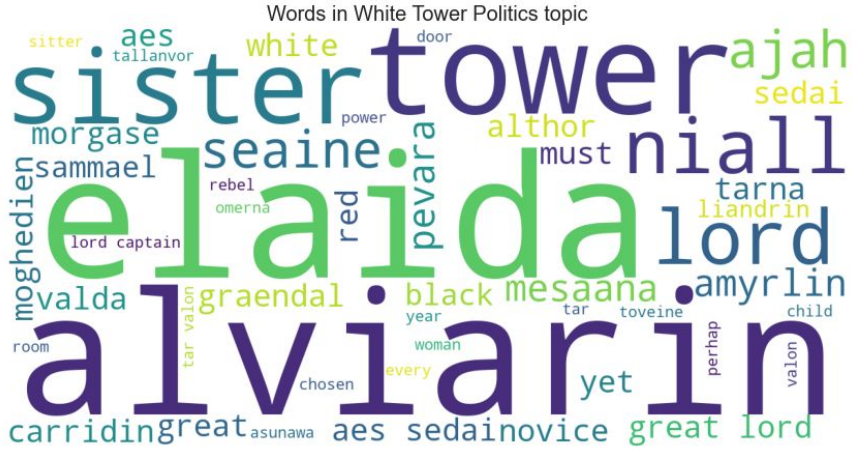Convince TV Showrunners to drop some plotlines and romances

Topic Modeling initial results

TfidfVectorizer + NMF on chapters gives amazing results

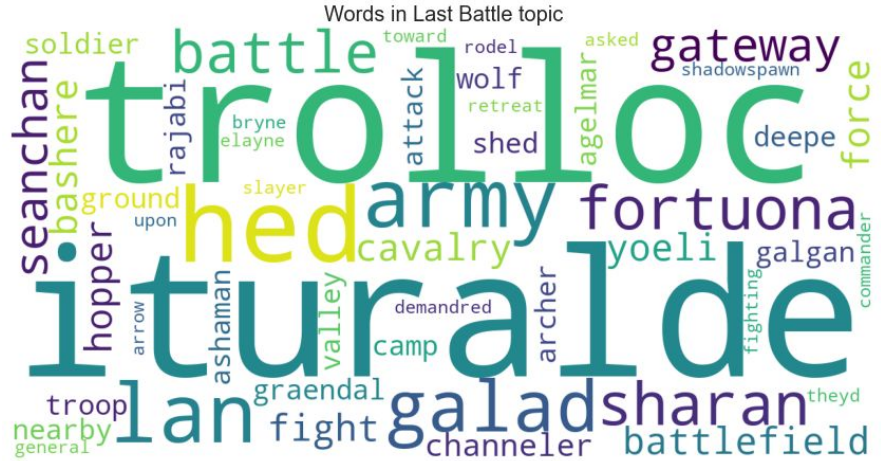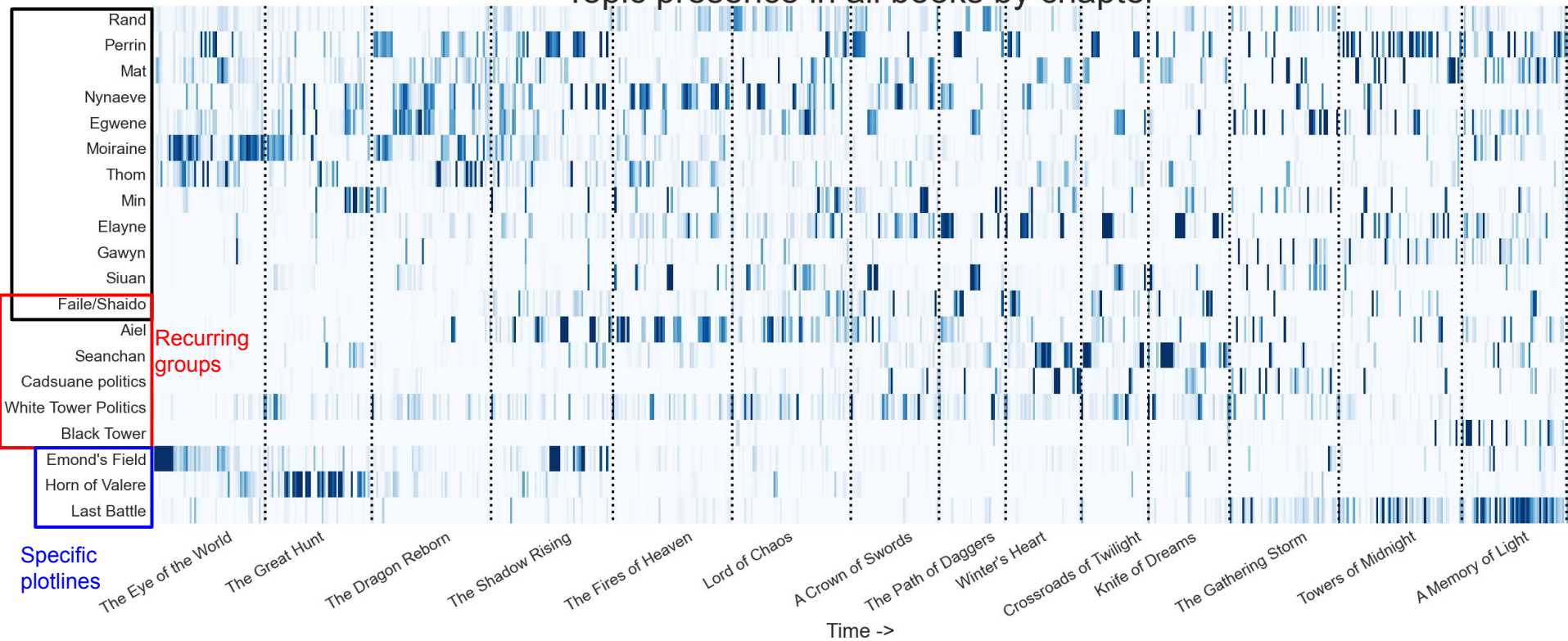Topics mostly focused on important characters and groups

(Rand's chapter icon)

Key ally

Words in Rand topic

His horse!

Past name/madman in head

Magic he uses

Other topic types

Words in White Tower Politics topic

Recurring groups

Specific plotlines

Words in Last Battle topic

Topics over time
Topic presence in all books by chapter

Main characters

Rand
Perrin
Mat
Nynaeve
Egwene
Moiraine
Thom
Min
Elayne
Gawyn
Siuan
Faile/Shaido

Recurring groups

Aiel
Seanchan
Cadsuane politics
White Tower Politics
Black Tower

Specific plotlines

Emond's Field
Horn of Valere
Last Battle

The Eye of the World
The Great Hunt
The Dragon Reborn
The Shadow Rising
The Fires of Heaven
Lord of Chaos
A Crown of Swords
The Path of Daggers
Winter's Heart
Crossroads of Twilight
Knife of Dreams
The Gathering Storm
Towers of Midnight
A Memory of Light

Time ->

Topics over time
Topic presence in all books by chapter

Rand
Perrin
Mat
Nynaeve
Egwene
Moiraine
Thom
Min
Elayne
Gawyn
Siuan
Faile/Shaido
Aiel
Seanchan
Cadsuane politics
White Tower Politics
Black Tower
Emond's Field
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The Shadow Rising
The Fires of Heaven
Lord of Chaos
A Crown of Swords
The Path of Daggers
Winter's Heart
Crossroads of Twilight
Knife of Dreams
The Gathering Storm
Towers of Midnight
A Memory of Light

Time ->

Characters together

Characters separated

"The Slog"

Characters back together

Clustering
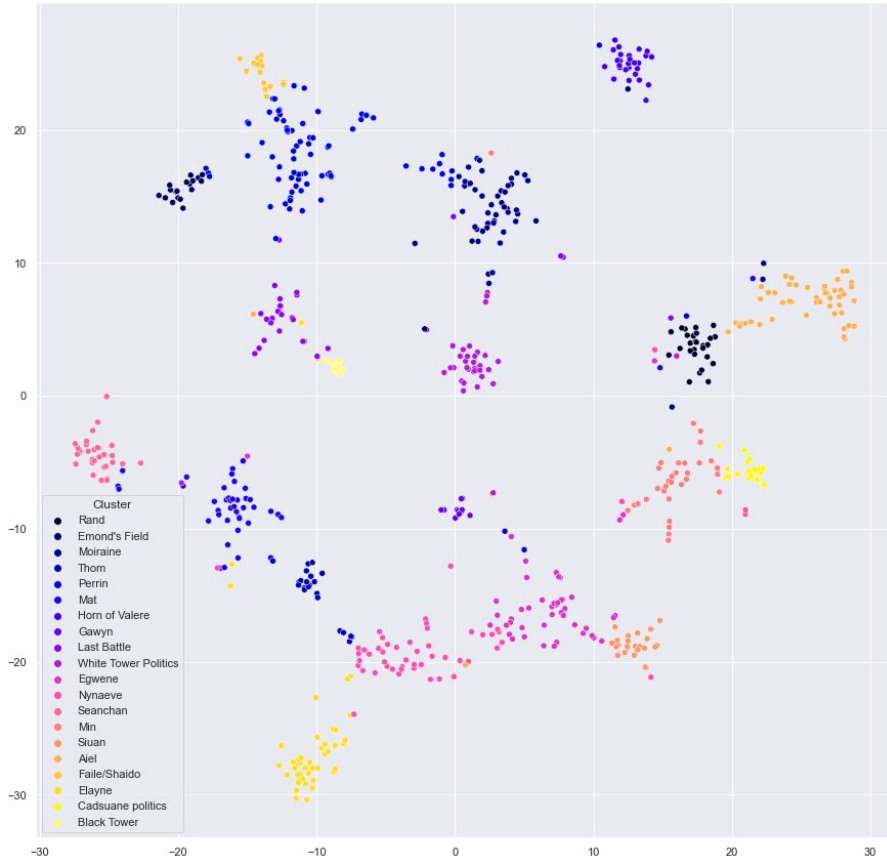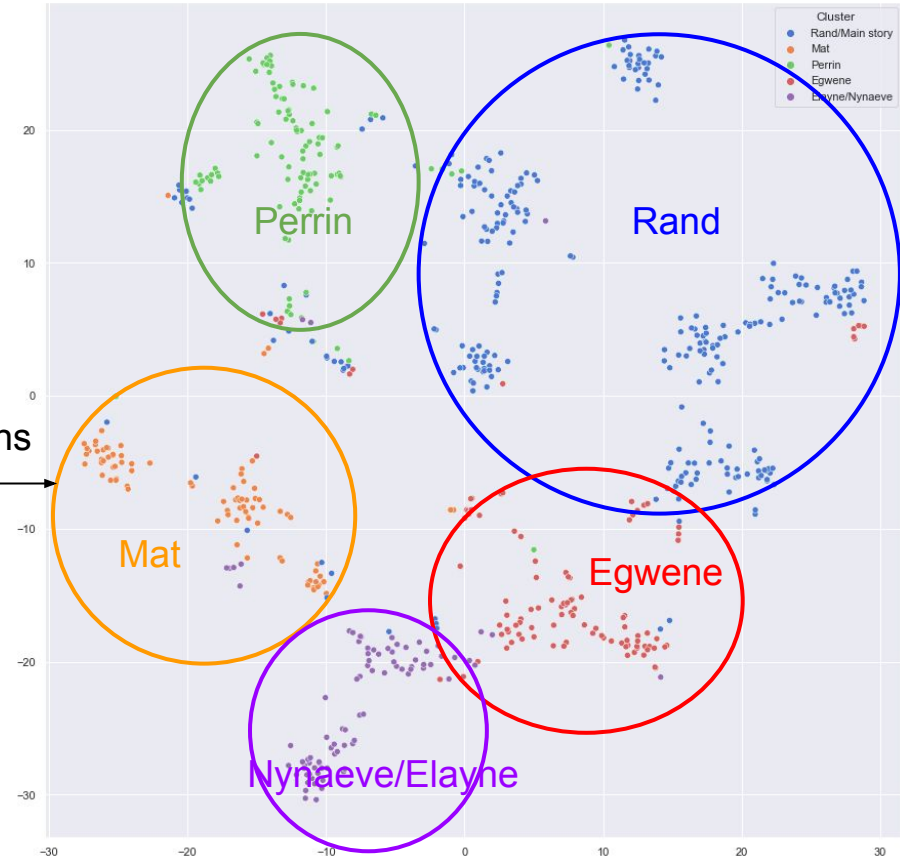
Topic correlation with book rating: a mixed bag

Correlation with book rating

One of the most hated characters

Conclusion: Would most likely be better with chapter ratings

Generally disliked
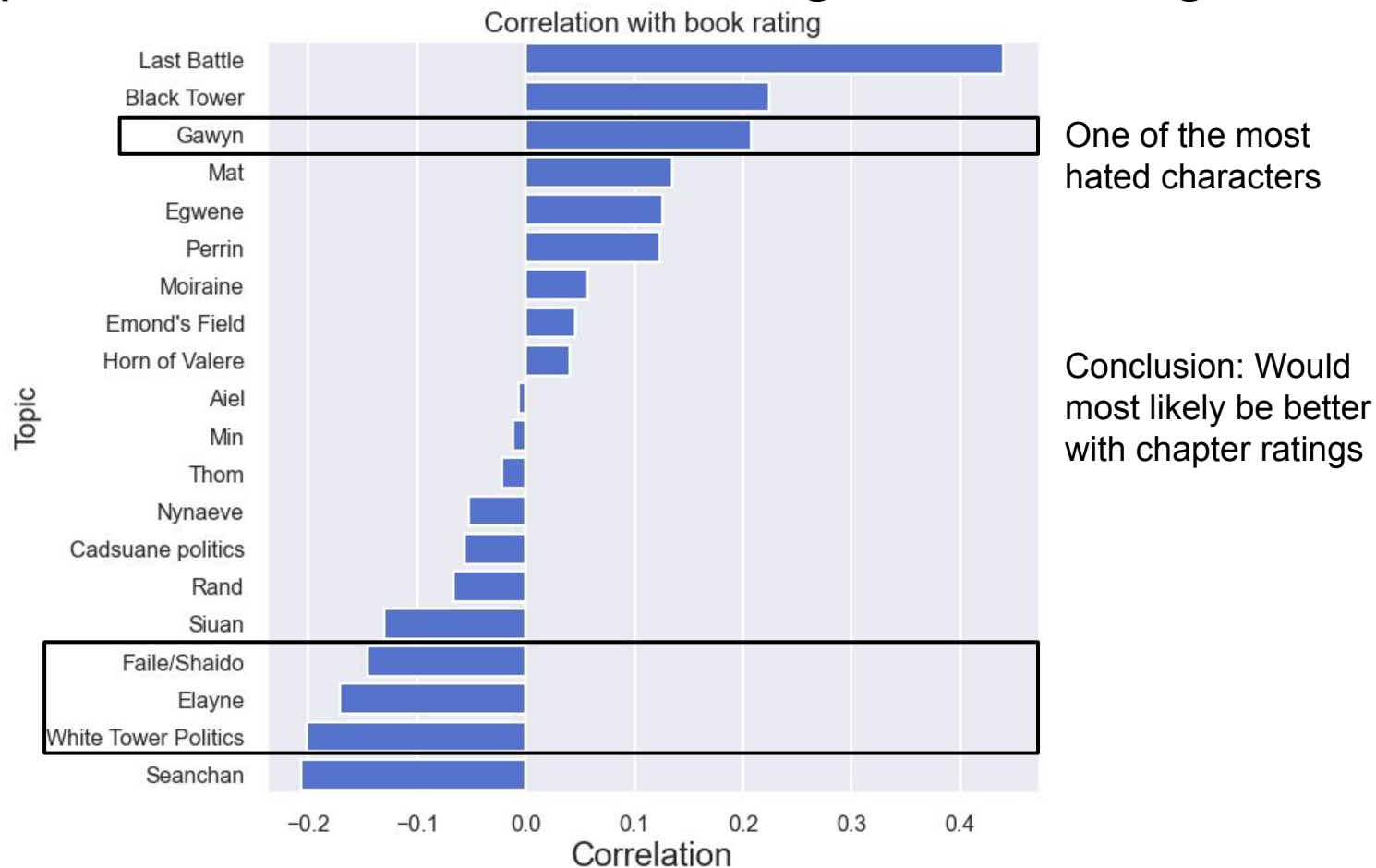
Conclusions

Topic modeling and clustering seem to focus largely on characters, not plot

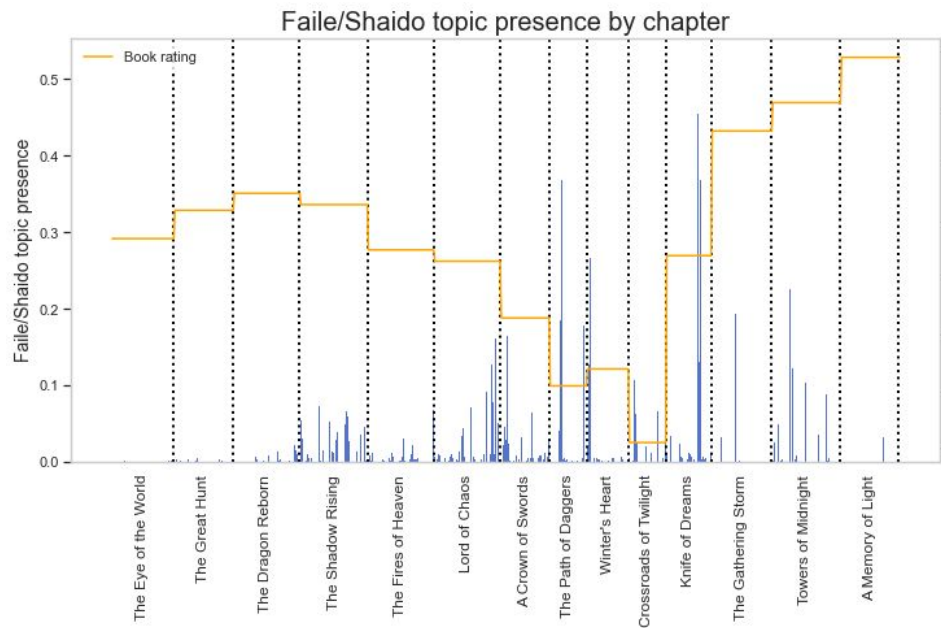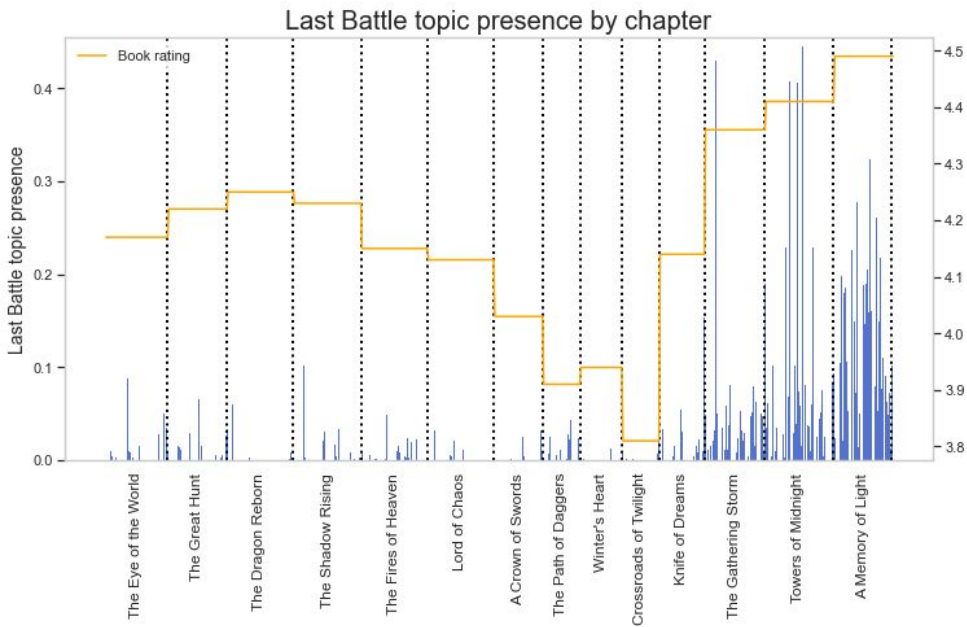Plot-focused topics could be an indirect measure of character concentration

Models can help keep track of how plotlines evolve over time

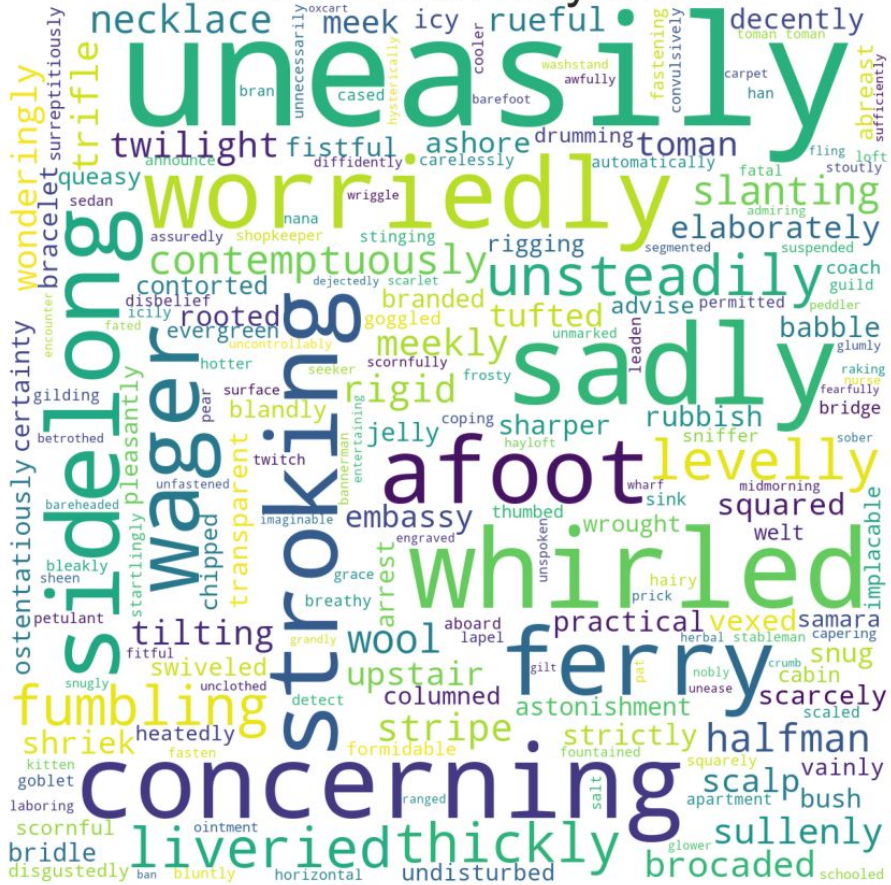If anyone from the TV show sees this please drop the Faile kidnapping subplot
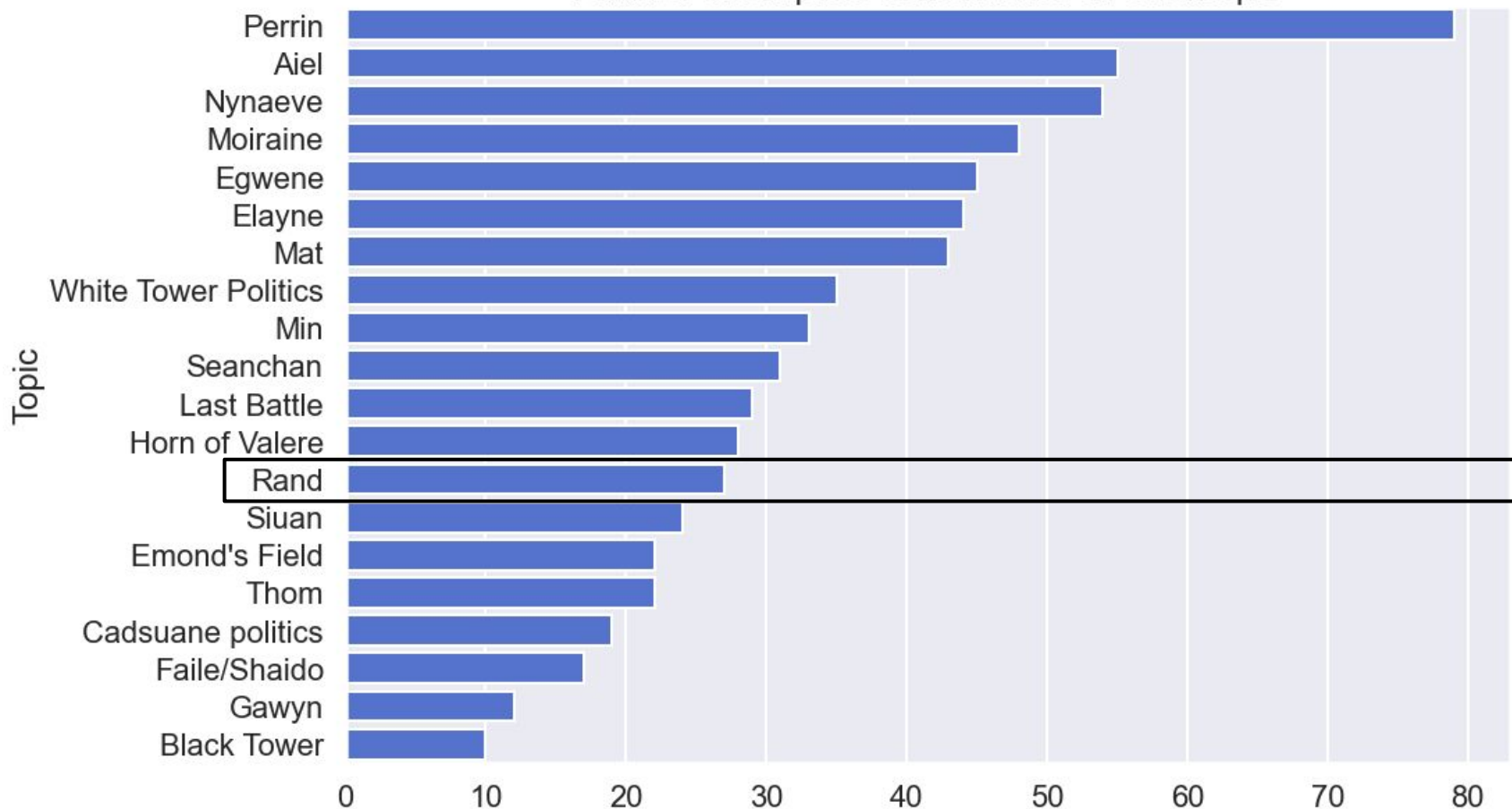
Questions?

Correlations

Last Battle topic presence by chapter

Faile/Shaido topic presence by chapter

Robert Jordan only words

uneasily worriedly sidelong stroking sadly afoot whirled concerning wager ferry unsteadily levelly liveried thickly necklace meek icy rueful decently twilight ashore toman slanting elaborately rigid meekly blandly jelly sharper rubbish sniffer sober babble bridge embassy wrought squared welt practical vexed samara upstair wool aboard snug scalp vainly stripe strictly halfman sullenly bridle scornful goblet disgustedly brocaded undisturbed swiveled shriek fumbling tilting

Brandon Sanderson only words

shameful overcast destructive incline sparring downright oversized outfit barreled eerily uncharacteristically shameful elevated stalling ledger commonly fledgling elite perimeter grueling primarily essentially presumably awesome towing warping rural cobble unhooked staging awaken stabilize characteristic profound creative ruse plateau participate
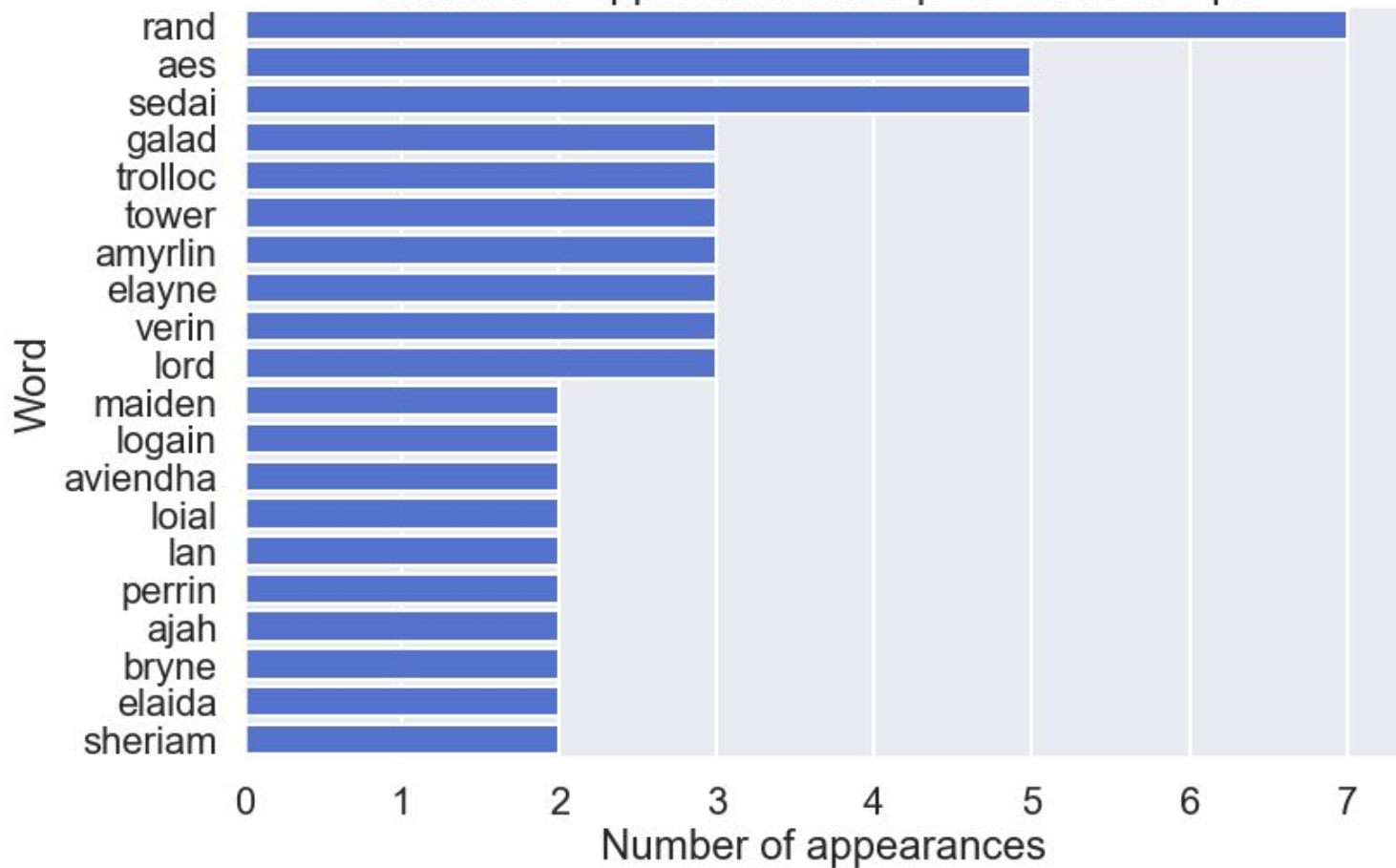
Where's Rand?

Number of chapters concentrated on each topic

Everywhere!

Number of appearances in top 10 words of topic

Appendix: Thom + Moiraine makes no sense, part 1

```
model.wv.most_similar('thom', topn= 25)
```

```
[('noal', 0.8178343772888184),
 ('olver', 0.7724289894104004),
 ('gleeman', 0.7693802118301392),
 ('juilin', 0.7451224327087402),
 ('thom_merrilin', 0.741077184677124),
 ('mat', 0.7315195202827454),
 ('thorn', 0.7213478088378906),
 ('beslan', 0.6846601963043213),
 ('domon', 0.6750953197479248),
 ('nalesean', 0.6696338057518005),
 ('talmanes', 0.6605777740478516),
 ('innkeeper', 0.6570944786071777),
 ('mat_muttered', 0.6457614898681641),
 ('mistres_anan', 0.6331594586372375),
 ('master_alvere', 0.629438042640686),
 ('dice', 0.6250801682472229),
 ('thom_juilin', 0.6138516664505005),
 ('mayor', 0.6136149764060974),
 ('bran', 0.6135543584823608),
 ('master_gill', 0.6124318838119507),
 ('gill', 0.608081579208374),
 ('harnan', 0.5987627506256104),
 ('cenn', 0.5884811878204346),
 ('edorion', 0.5851737260818481),
 ('coin', 0.5849282145500183)]
```

```
model.wv.most_similar('moiraine',topn=25)
```

```
[('verin', 0.6650002598762512),
 ('alanna', 0.618614673614502),
 ('lan', 0.605637788772583),
 ('thirteen_aes', 0.5778695344924927),
 ('male_aes', 0.5731239318847656),
 ('cadsuane', 0.5618353486061096),
 ('wheel_will', 0.5069185495376587),
 ('merana', 0.48766764998435974),
 ('rand', 0.48694154620170593),
 ('selene', 0.4797132611274719),
 ('wheel_weaf', 0.4766269326210022),
 ('myrelle', 0.4598006308078766),
 ('warder', 0.4511159360408783),
 ('anaiya', 0.4499765634536743),
 ('nothing_else', 0.4431731700897217),
 ('liandrin', 0.43451744318008423),
 ('gitara', 0.4337482750415802),
 ('sedai', 0.4268982410430908),
 ('zarine', 0.4266795516014099),
 ('merise', 0.41734856367111206),
 ('nisao', 0.4159044921398163),
 ('agelmar', 0.4157572388648987),
 ('shalon', 0.41263043880462646),
 ('bera', 0.40897294878959656),
 ('wonderingly', 0.4070909023284912)]
```

Appendix: Thom + Moiraine makes no sense, part 2

```
analogy(model, 'rand', 'min', 'thom')
```

```
[('juilin', 0.6498128175735474),
 ('thom_juilin', 0.6186529994010925),
 ('thom_merrilin', 0.5940799713134766),
 ('noal', 0.5788863897323608),
 ('olver', 0.5725241899490356),
 ('mistres_anan', 0.5705658197402954),
 ('nynaeve', 0.5658490657806396),
 ('innkeeper', 0.5637383460998535),
 ('egeanin', 0.5604223012924194),
 ('domon', 0.5589067935943604)]
```

```
analogy(model, 'rand', 'min', 'domon')
```

```
[('egeanin', 0.7375583648681641),
 ('juilin', 0.6764757633209229),
 ('thom_juilin', 0.6707871556282043),
 ('lara', 0.6346412897109985),
 ('mistres_anan', 0.6232042908668518),
 ('areina', 0.6032098531723022),
 ('leilwin', 0.598152220249176),
 ('melfane', 0.5954345464706421),
 ('rendra', 0.5896434783935547),
 ('sullenly', 0.5791514515877677)]
```

Appendix: Thom + Moiraine makes no sense, part 3