

Scraping Ice  
and Fire

Robert  
Castellano

A Song of Ice  
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Questions

Chapter score  
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Summary  
word clouds  
for POV  
characters

Conclusion

# Scraping Ice and Fire

Robert Castellano

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# A Song of Ice and Fire

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- A Song of Ice and Fire is a book series by George R. R. Martin on which the HBO series Game of Thrones is based.

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- A Song of Ice and Fire is a book series by George R. R. Martin on which the HBO series Game of Thrones is based.



# Attention!

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- Don't worry if you've never read the books or watched the tv show!

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- Don't worry if you've never read the books or watched the tv show!
- Spoiler alert!

# About the series

- Five books, each averaging almost 1000 pages.

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# About the series

- Five books, each averaging almost 1000 pages.
- 1 A Game of Thrones (AGOT)
- 2 A Clash of Kings (ACOK)
- 3 A Storm of Swords (ASOS)
- 4 A Feast for Crows (AFFC)
- 5 A Dance With Dragons (ADWD)

# About the series

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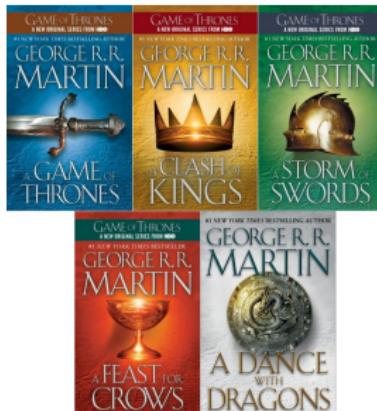
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- Five books, each averaging almost 1000 pages.

- 1 A Game of Thrones (AGOT)
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- Extremely complex collection of characters.

# About the series

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- Extremely complex collection of characters.
- Each chapter has a point of view (POV) character. Action is narrated in the limited third person from the perspective of the POV character.

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# Questions

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## ■ Best book?

# Initial questions

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- Best book?
- Favorite characters?

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- Best book?
- Favorite characters?
- Arc of the books

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- Best book?
- Favorite characters?
- Arc of the books
- Character arcs

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- Best book?
- Favorite characters?
- Arc of the books
- Character arcs
- Do my opinions match the consensus?

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- I scraped data from Tower of the Hand, a self titled “Encyclopedia of Ice and Fire.”

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- I scraped data from Tower of the Hand, a self titled “Encyclopedia of Ice and Fire.”
- Fan created reference for the books and tv show, with content such as:

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  - Character lists

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  - Character lists
  - Family trees

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  - Character lists
  - Family trees
  - Maps

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- I scraped data from Tower of the Hand, a self titled “Encyclopedia of Ice and Fire.”
- Fan created reference for the books and tv show, with content such as:
  - Character lists
  - Family trees
  - Maps
  - Historical timeline

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- I scraped data from Tower of the Hand, a self titled “Encyclopedia of Ice and Fire.”
- Fan created reference for the books and tv show, with content such as:
  - Character lists
  - Family trees
  - Maps
  - Historical timeline
  - Chapter guides

# Data

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I gathered the following information for each chapter:

- Book

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I gathered the following information for each chapter:

- Book
- Chapter number in book

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character
- Chapter name

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I gathered the following information for each chapter:

- Book
- Chapter number in book
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- Chapter name
- Chapter blurb

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character
- Chapter name
- Chapter blurb
- Summary <sup>1</sup>

---

<sup>1</sup>Not all are available for A Dance with Dragons.

# Data

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character
- Chapter name
- Chapter blurb
- Summary <sup>1</sup>
- Characters appearing in the chapter

---

<sup>1</sup>Not all are available for A Dance with Dragons.

# Data

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character
- Chapter name
- Chapter blurb
- Summary <sup>1</sup>
- Characters appearing in the chapter
  - There are 1111 characters!

---

<sup>1</sup>Not all are available for A Dance with Dragons.

# Data

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character
- Chapter name
- Chapter blurb
- Summary <sup>1</sup>
- Characters appearing in the chapter
  - There are 1111 characters!
- Score of the chapter (voting by users) – rating from 1 to 10

---

<sup>1</sup>Not all are available for A Dance with Dragons.

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# Chapter score data visualization

# Chapter scores

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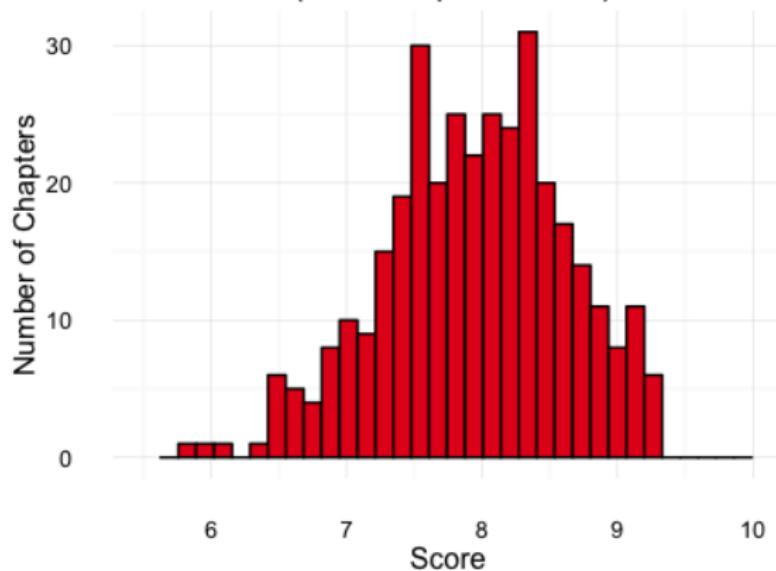
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Distribution of Scores  
(344 Chapters Total)



# Book scores

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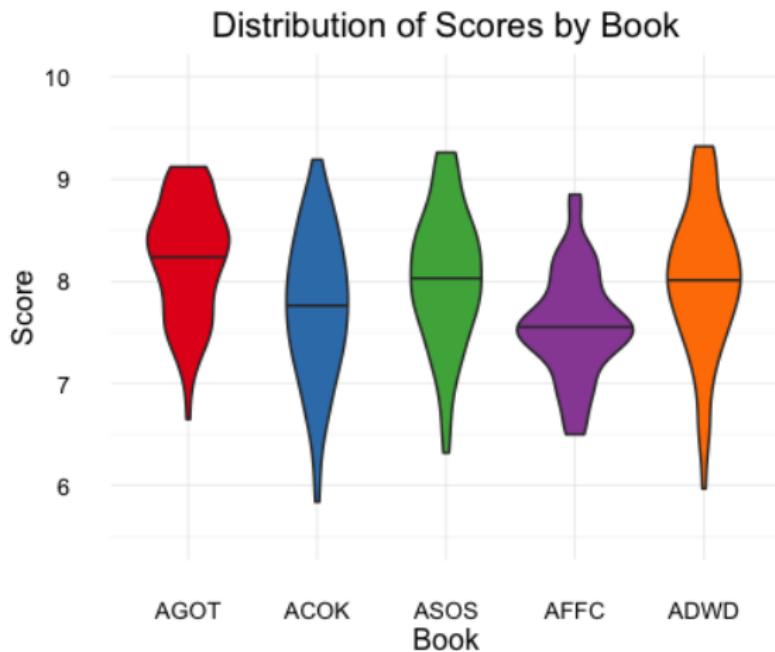
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# Book scores

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# POV characters

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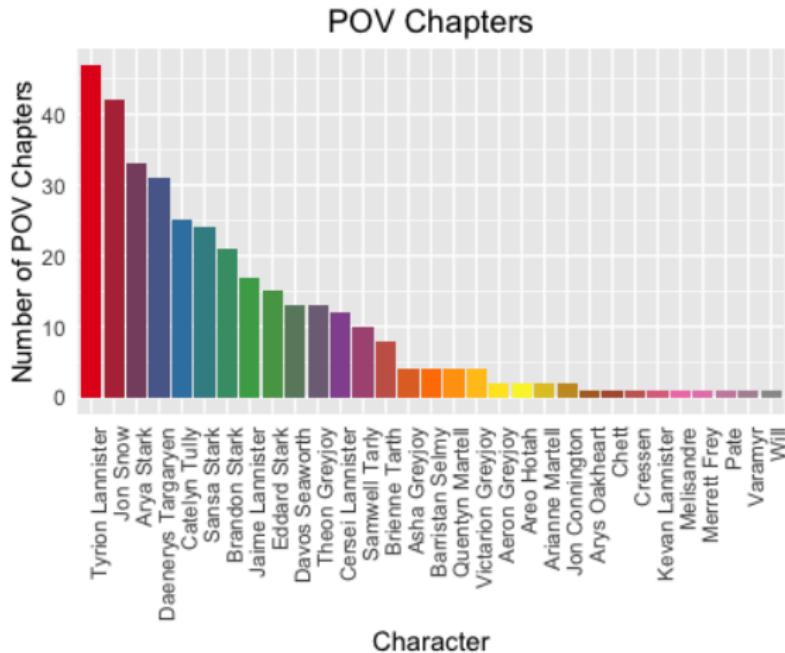
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# POV characters



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# Main POV characters

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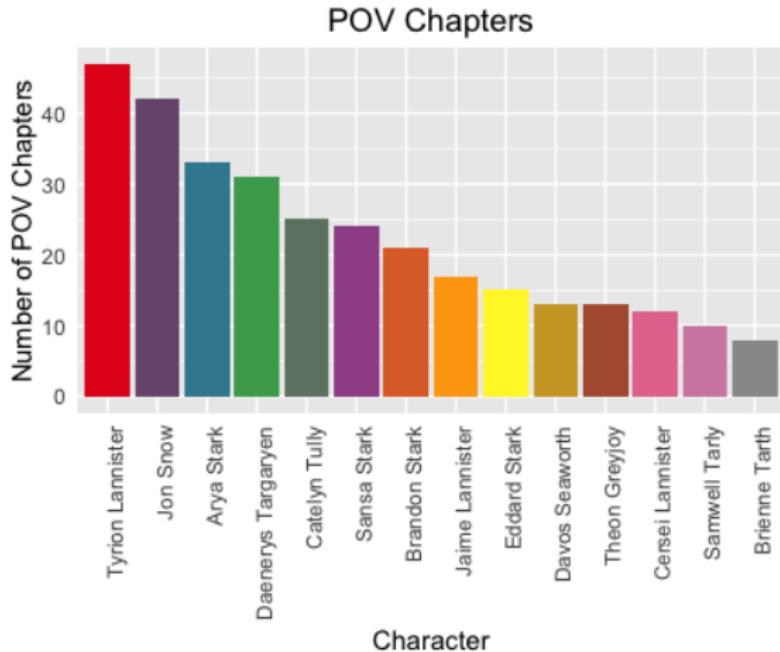
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# Main POV characters



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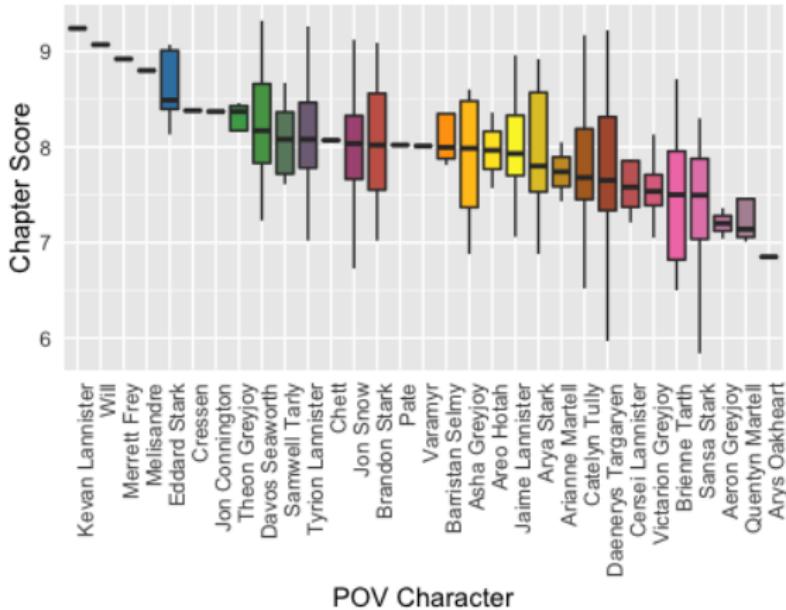
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Chapter Scores by POV Character



# Main POV chapter scores

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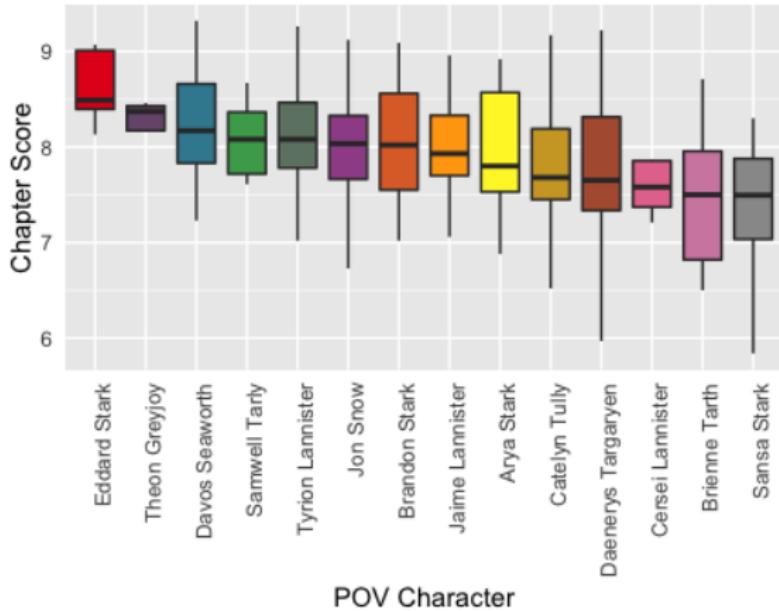
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## Chapter Shiny app

# All chapters

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Shiny app for chapters

Have fun and explore all the chapters! See where your favorite chapters and characters rank.

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## All chapters

## Scraping Ice and Fire

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# Tyrion Lannister

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# Tyrion Lannister

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# Jon Snow

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# Daenerys Targaryen

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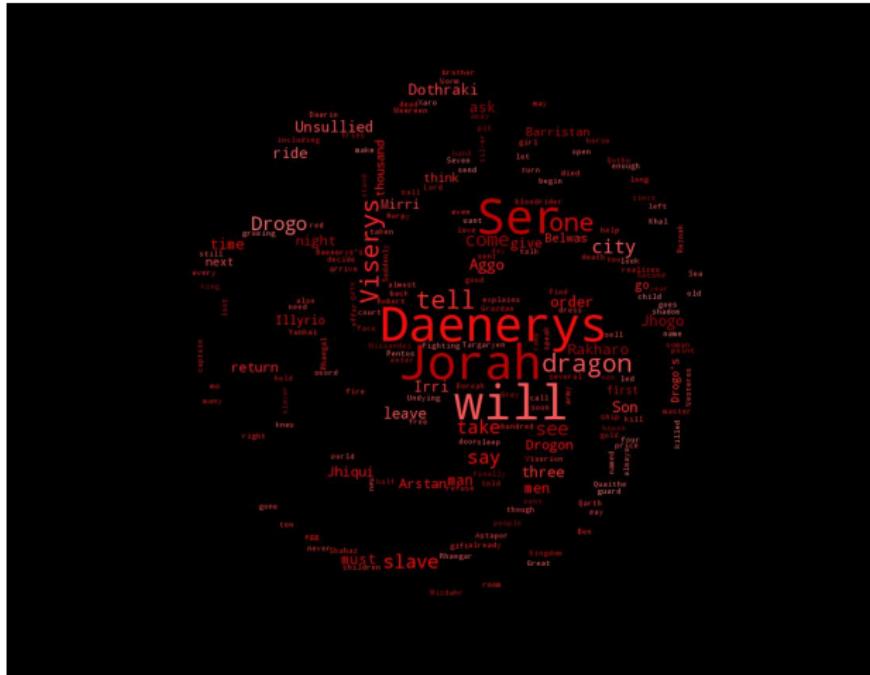
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Daenerys Targaryen

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# Arya Stark

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# Arya Stark

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# Catelyn Tully

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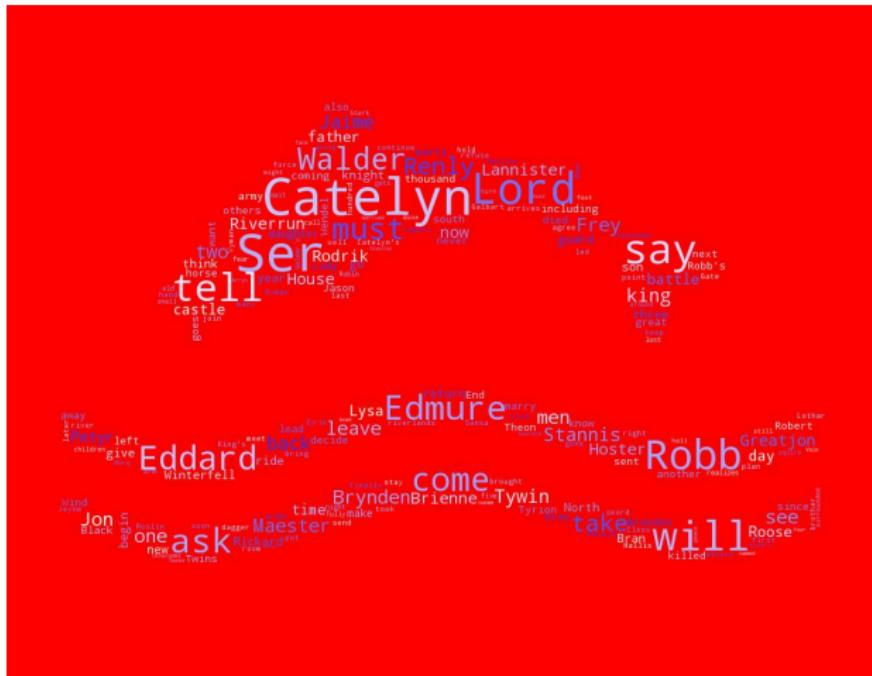
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## Catelyn Tully

## Scraping Ice and Fire

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# Bran Stark

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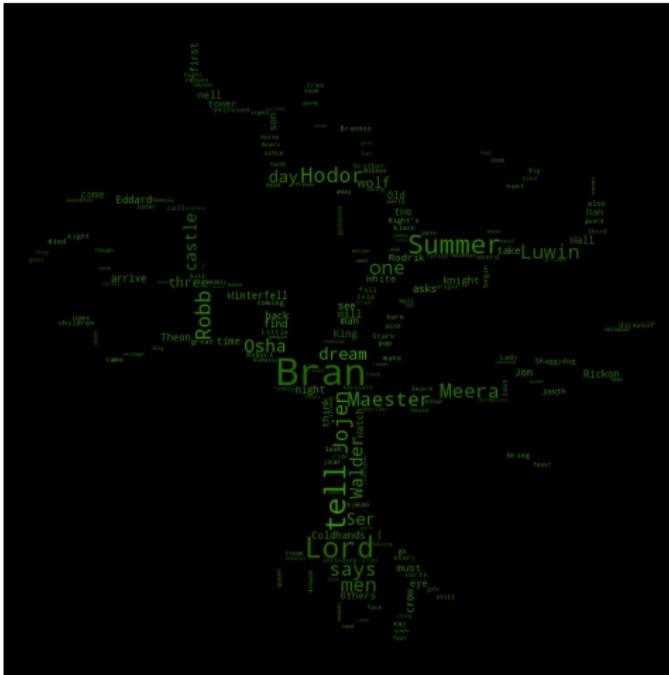
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# Bran Stark

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# Greyjoys (Theon, Asha, and Aeron)

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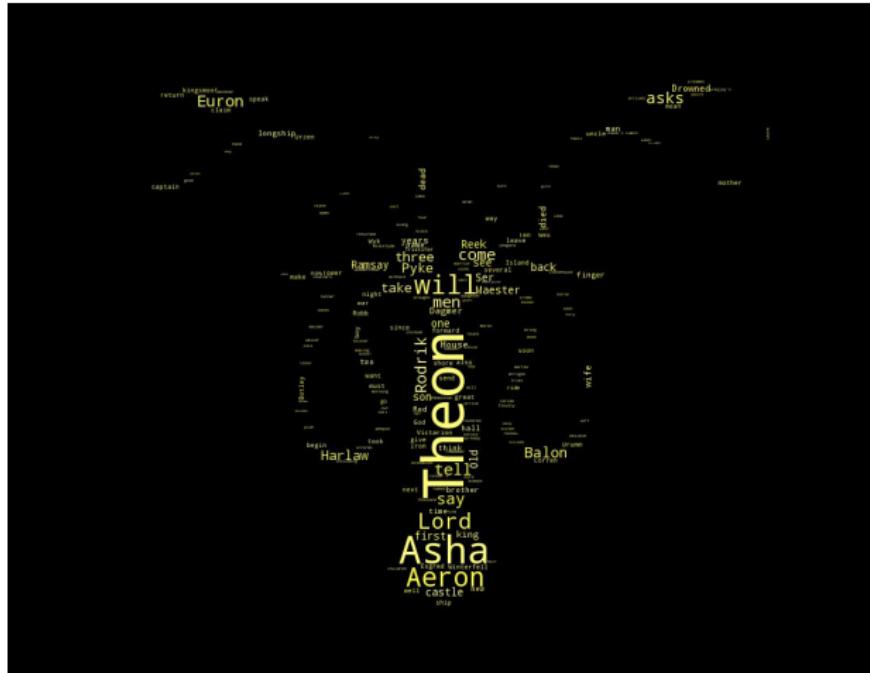
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Greyjoys (Theon, Asha, and Aeron)

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# Arianne Martell

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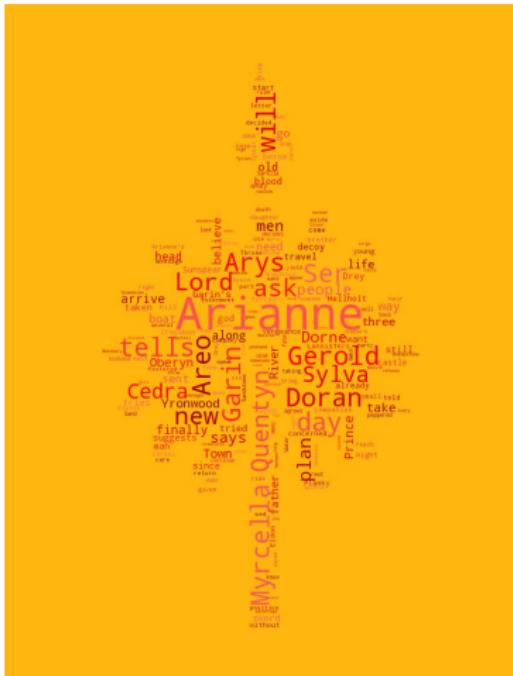
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# Arianne Martell

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- Analyze chapter scores by book quantile (third, quarters, etc.)

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- Analyze chapter scores by book quantile (third, quarters, etc.)
- More natural language processing using chapter summaries

# Further directions

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- Analyze chapter scores by book quantile (third, quarters, etc.)
- More natural language processing using chapter summaries
- Relationships between characters using the information of characters appearing in each chapter