A Song of Ice and Fire

Questions

Chapter score data visualization

Chapter Shiny app

Summary word clouds for POV characters

Conclusion

Scraping Ice and Fire

Robert Castellano

A Song of Ice and Fire

Data

- 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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Attention!

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

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- Spoiler alert!

About the series

- Five books, each averaging almost 1000 pages.

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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)

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About the series

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About the series

- 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.

Questions

Initial quesitons

- Best book?

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- Favorite characters?

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- Arc of the books

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

Initial quesitons

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

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  - Character lists
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  - Maps
  - Historical timeline
  - Chapter guides

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I gathered the following information for each chapter:

- Book

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- Chapter number in book

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I gathered the following information for each chapter:

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- Chapter number in book
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- Chapter blurb

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- Chapter number in book
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- Summary [1]

[1] Not all are available for A Dance with Dragons.

Data

I gathered the following information for each chapter:

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- Chapter number in book
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- Summary [1]
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[1] Not all are available for A Dance with Dragons.

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I gathered the following information for each chapter:

- Book
- Chapter number in book
- POV character
- Chapter name
- Chapter blurb
- Summary [1]
- Characters appearing in the chapter
  - There are 1111 characters!

[1] Not all are available for A Dance with Dragons.

Data

I gathered the following information for each chapter:

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

[1] Not all are available for A Dance with Dragons.

A Song of Ice and Fire

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Chapter score data visualization

Chapter scores

Chapter scores

Book scores

Book scores

Distribution of Scores by Book
Score
10
9
8
7
6
AGOT
ACOK
ASOS
AFFC
ADWD
Book

POV characters

POV characters

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Main POV characters

Main POV characters

POV chapter scores

POV chapter scores

Main POV chapter scores

Main POV chapter scores

Chapter Shiny app

All chapters

Shiny app for chapters

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

Summary word clouds for POV characters

All chapters

All chapters

Tyrion Lannister

Tyrion Lannister

Tyrion
Ser
Lord
Lady
king
Illyrio
back
return
time
Sansa
Cersei
Shae
one
tell
also
Wil
Bronn
make
day
men
ask
come
say
Petyr
Tywin
Podrick
three
think
Jaime
take
see
Joffrey
Varys
Hand
now
Stannis
dragon
Lancel
leave
Oberyn
Maester
new
city
Robert
Jon
ship
son
two
ride
plan
next
report
knight
wonder
Lannister
bring
Kevan
Pycelle
Watch
find
order
gregor
way
give
whore
must
year
since
Myrcella
Tyrell
Catelyn
Tysha
Rickard
Roose
Bolton
Ramsay
Jeyne
Westerling
Walder
Frey
Edmure
Tully
Catelyn
Stark
Robb
Arya
Sansa
Bran
Rickon
Jaime
Cersei
Tyrion
Joffrey
Tommen
Myrcella
Varys
Bronn
Podrick
Pycelle
Shae
Lady
King's
small
many
Addam
Jacelyn
Red
Shagga
found
Battle
Duran
Tyrion's
die
hundred
Lancel
castle
dead
Oberyn
Maester
new
gets
boy
called
best
Rock
Renly
left
several
finally
sent
Tower
house
part
little
fall
whore
must
year
pay
father
sellsword
ship
son
Jon
man
Tyrell
Myrcella
Catelyn
Tysha
Wall
Robert
replies
ago

Jon Snow

Jon Snow

Jon
Sam
Lord
tell
say
Commander
Mance
Wall
Castle
Alliser
Black
Ser
Qhorin
Janos
come
time
Maester
Mormont
Stannis
Rattleshirt
Will
Gritte
take
give
Watch
Ghost
Aemon
ask
goes
men
Styr
Tower
Pyp
son
wildling
king
order
see
Grenn
first
leave
man
way
dead
back
one
three
head
four
make
Donal
must
two
go
giant
well
ride
find
Gilly
Tormund
Melisandre
Night's
command
fight
battle
realize
also
look
never
going
pass
join
kill
think
arrive
Val
horse
day
want
still
old
sword
brother
run
know
meet
boy
killed
arrow
many
next
coming
Chett
Varamyr
Shadow
raider
father
keep
away
new
states
tries
night
great
finally
die
friend
believe
always
including
walk
hall
hard
Dywen
King's
last
eagle
year
daughter
sent
Satin
since
attack
horn
turn
led
behind
Hobb
Stark
Winterfell
Ben
Dareon
took
south
point
though
long
top
trainees
bastard
lead
refuse
others
ranger
Edd
Clydas
Bowen
Tyrion
Jarl
become
every
group
seen
guard
soon
now
life
gate
left
send
fire
Todder
place
around
end
name
let
died
arrived
Jon's
hand
explains
Eddard
help
Owen
past
along
stop
Thenn
Robb
Benjen
Town
bring
another
vow
people
eye
Halder
Cotter
mammoth
told
talk
word
return
Satin
several
decides
craster
look
never
going
pass
realize
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mammoth
told
talk
word
return
Satin
several
decides
craster
look
never
going
pass

Daenerys Targaryen

Daenerys Targaryen

Daenerys
Jorah
will
Ser
one
tell
dragon
Drogo
Viserys
Dothraki
Unsullied
ask
Barristan
ride
think
Mirri
come
give
Belwas
city
night
time
next
Aggo
order
Jhogo
Illyrio
Rakharo
return
Irri
first
Son
leave
take
see
Drogon
say
three
men
Jhiqui
Arstan
man
must
slave
thousand
Drogo's
Westeros
Raznak
Khal
Sea
old
go
child
goes
shadow
name
Qarth
Ben
Astapor
Kingdom
Great
Hizdahr
Rhaegar
Skahaz
Qaithe
guard
Viserion
Seven
send
turn
begin
died
open
enough
long
since
left
help
talk
death
look
realizes
second
bloodrider
even
want
love
taken
Harpy
Daenerys's
decide
arrive
Sudden
almost
back
Robert
court
face
Nissandei
Pentos
enter
fighting
Targaryen
explains
Grazdan
dress
sell
several
led
row
call
soon
hundred
doorsleep
Doreah
Grey
Undying
tree
fire
sword
hold
knew
right
world
half
refuse
told
finally
tent
though
way
people
gift
already
children
room
gone
ten
egg
never
captain
last
every
king
also
need
Yunkai
Phaegal
slaver
many
mo
Westeros
master
killed
name
woman
point
Drogo's
Raznak
Sea
old
shadow
child
goes
house
gold
four
price
ship
kill
named
elsewhere
guard
Quaithe
Qarth
way
Ben
Kingdom
Great
Astapor
Rhaegar
Hizdahr
room
Skahaz
never
egg
ten
gone
right
knew
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captain
last
every
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Yunkai
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Undying
tree
half
refuse
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tent
though
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people
gift
already
children
room
Harpy
Sudden
Grazdan
dress
several
led
row
call
soon
hundred
doorsleep
Doreah
Grey

Arya Stark

Arya Stark

Arya
tell
say
ask
sandor
day
one
will
man
Ser
see
lord
next
killed
back
night
Eddard
Gendry
Beric
Pie
Hot
Jaqen
Yoren
Gregor
Harwin
Roose
Needle
Joffrey
Thoros
take
find
temple
.decide
guard
death
kill
three
leave
castle
return
time
head
name
want
sword
give
come
kindly
arrive
men
ship
must
town
daughter
including
named
go
way
know
boy
gate
many
two
make
dead
run
people
also
well
going
others
girl
Syrio
Stark
Biter
Tickler
Brave
took
soon
work
Bull
wife
called
ride
Lem
Frey
inn
septon
food
rest
Amory
Huntsman
eye
every
watch
help
Edric
Septa
finally
Tywin
Nymeria
Lannister
Greenbeard
Lommy
killing
Rorge
Sansa
coin
captain
fat
horse
water
since
looking
instead
child
think
group
now
around
fire
Lady
later
point
mother
Anguy
begin
Polliver
Harrenhal
wall
things
charge
Jon
face
Robb
reveal
village
sept
bring
Faced
wake
wait
God
practice
several
buried
does
brother
gets
father
inside
returned
northmen
means
wound
place
Breakbones
little
realizes
order
gold
tries
dream
send
keep
Edric
Riverrun
Stone
Heart
Light
Needle
stop
Roose
learn
Companions
morning
long
call
draw
boat
jack
hear
enter
end
stay
first
old
still
Tom
Vargo
left
hand
let
lie
fight
black
new
Breakbones
Stark
Biter
serve
sleep
away
place
wound
food
rest
Amory
Huntsman
eye
every
watch
help
Septa
finally
Tywin
Nymeria
Lannister
Greenbeard
Lommy
killing
Rorge
Sansa
coin
captain
fat
horse
water
since
looking
instead
child
think
group
now
around
fire
Lady
later
point
mother
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Polliver
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Faced
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wait
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think
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now
around
fire
Lady

Catelyn Tully

Catelyn Tully

Bran Stark

Bran Stark

Bran
Lord
tell
Hodor
Summer
Luwin
Meera
Maester
Jojen
Walder
Robb
castle
Osha
Winterfell
Eddard
Ser
Coldhands
says
men
day
one
dream
Rodrik
Wolf
Jon
Rickon
Shaggydog
Theon
three
arrive
Brandon
Nan
Wall
knight
asks
King
night
Old
two
first
well
tower
weirwood
son
come
back
find
time
great
white
black
Stark
Lady
bring
feast
direwolf
must
eye
crow
way
fear
others
north
still
room
go
story
turn
make
leave
know
house
think
look
year
tree
took
horse
hand
dead
away
now
want
never
also
guard
third
take
sword
begin
see
will
man
pup
name
children
death
village
came
boy
great
Little
people
Robert
Karstark
Wyman
Watch
Wind
Hall
Horsewood
Gray
goes
though
keep
died
wight
kill
many
waves
coming
fall
told
tried
Big
eyed
Bran's
since
far
took
going
crypts
killed
tower
brother
Bikken
saying
party
black
night's
godswood
wolves
end
meet
next
pass
enter
sword
begin
guard
never
south
last
speak
near
house
decide
know
leave
love
finally
Karstark
Wyman
Watch
Wind
Hall
Horsewood
direwolf
Lady
Shaggydog
Jon
Rickon
south
bring
feast
Big
eyed
want
now
Brandon
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horse
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since
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hand
dead
away
brother
Bikken
saying
party

Greyjoys (Theon, Asha, and Aeron)

Greyjoys (Theon, Asha, and Aeron)

Euron
Drowned
asks
Reek
come
three
Pyke
Ramsay
back
Will
take
MaestER
men
Dagmer
one
House
Rodrik
Theon
Harlaw
Balon
tell
say
Lord
Asha
Aeron
castle
wife
dead
died
mother
finger
captain
longship
Drzen
uncle
man
Robb
war
night
two
son
Red
God
Victarion
hall
brother
first
king
Esgred
Winterfell
new
ship
Drumm
Lorren
begin
take
give
iron
think
old
send
great
soon
wex
leave
Island
several
Ser
Wyk
years
name
minister
blackcyde
lower
make
counters
tanner
since
forward
shore
also
want
must
morning
go
out
kill
people
plan
next
time
always
Bastey
boy
Kikken
call
seller
Lhasr
Aeron
Ramsay
Robb
Victarion
Esgred
Winterfell
castle
new
ship
well
Lorren
Drumm
Harlaw
Balon
Euron
Rodrik
Theon
Asha
Aeron
Lord
Dagmer
MaestER
Pyke
Reek
Ser
Bastey
Kikken
Lhasr
Drzen
Esgred
Winterfell
Victarion
Dagmer
MaestER
Rodrik
Theon
Asha
Aeron
Lord
Euron
Drowned
asks
Reek
come
three
Pyke
Ramsay
back
Will
take
men
one
House
Rodrik
Theon
Harlaw
Balon
tell
say
Lord
Asha
Aeron
castle
wife
dead
died
mother
finger
captain
longship
uncle
man
Robb
war
night
two
son
Red
God
hall
brother
first
king
new
ship

Arianne Martell

Arianne Martell

Conclusion

Further directions

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

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- More natural language processing using chapter summaries

Further directions

- 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