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#466249

Assignment 3 Process Book

Once Upon a Time: Gender Analysis of English Fairy Tales

What will the visualization achieve?

I plan to break down each fairy tale into sentences and words, and use this data to identify gendered language and pronouns (she/her, he/him, they/them, etc.). I would like to then plot gender portrayals and ratios throughout the course of each story to reveal any patterns (e.g. Is one gender more prevalent at the climax of fairy tales? At the end?).

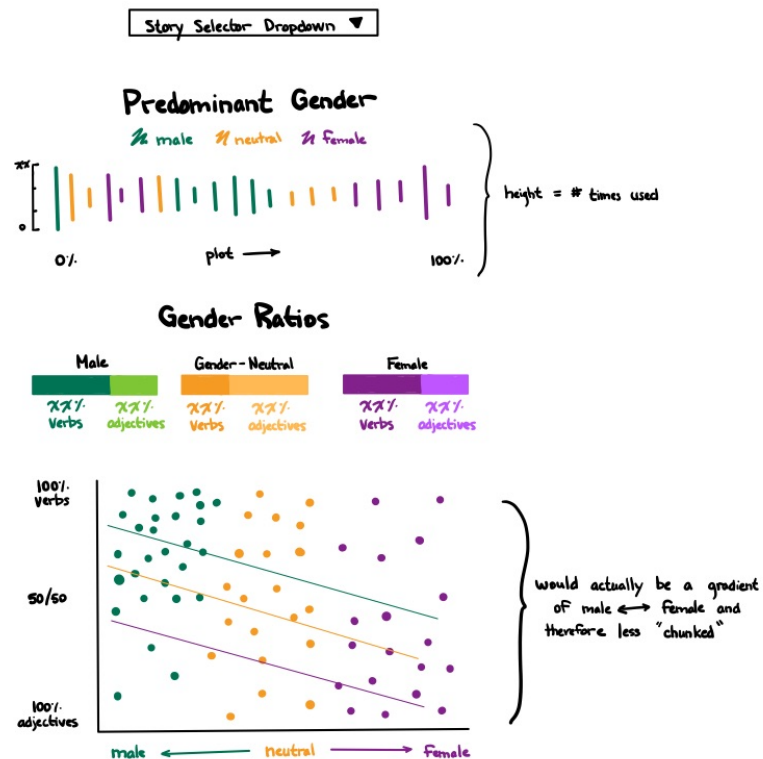
I would also like to search through the words surrounding these pronouns to identify association patterns. Does one gender have a greater ratio of action to description? This could be quantified by counting the number of verbs in comparison to adjectives. Furthermore, I would like to display any specific word associations to visually identify how male, female, and gender-neutral characters/references are portrayed within each story.

What tasks will the visualization support?

For all of the above components, users will be able to see a conglomerate of data from all fairy tales, or use a selector to zero-in on one specific story. The initial data displayed will (hopefully!) be simplistic, to provide a quick overview of all components, and will then display additional tooltips with specific data upon hovering. Hovering on one gender will highlight relevant data in all areas of the visualization to aid with clarity and ease-of-use. Furthermore, all axes and data changes will be transitioned to show and maintain any ratios between different subsets of data.

ONCE UPON A TIME

A Gender Analysis: Isaac Bock



Strengths:

- Predominant gender chart quickly shows exactly which portions of fairy tale plot are dominated by each gender.
- Gender ratios can be quickly interpreted from bars, and detailed data is then visible below for additional review.

Weaknesses:

- Hard to differentiate between different fairy tales without going back through the dropdown each time.
- Scatterplot and trend lines may be hard to immediately interpret, especially if the data don't reveal super explicit patterns.

ONCE UPON A TIME

A Gender Analysis: Isaac Bock

All Stories

Story 1

Story 2

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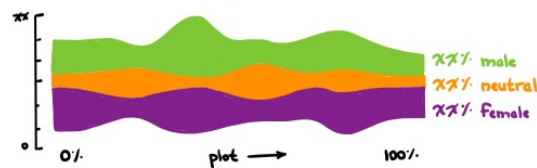
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Plot Progression



Gender Ratios

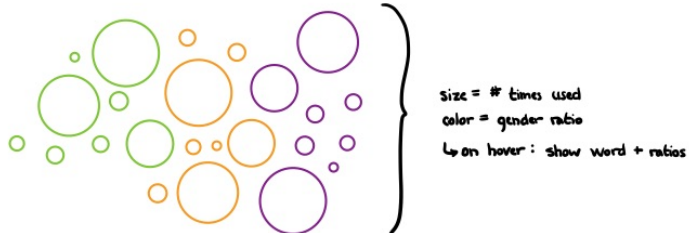
Action (verbs)



Description (adjectives)



Associated Words



Selection Justification:

- Most effectively presents all titles down the side for easy access.
- Plot progression streamgraph shows all gender data rather than only one level at a time.
- Gender ratio bars simplified (from 3 to 2), allowing for easier comparison between male, female, and gender-neutral data ratios.
- Bubble chart displays specific word associations with much greater accessibility and effectively maintains size/prevalence ratios.

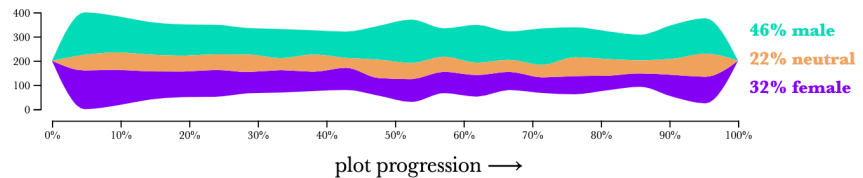
Once Upon a Time: Gender Portrayals within English Fairy Tales

Isaac Bock | isaactbock@wustl.edu | 466249 via Project Gutenberg + 8 other sources

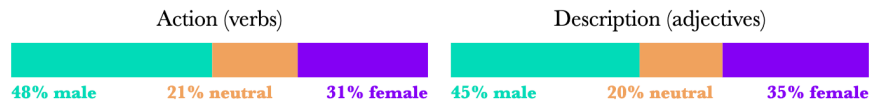
All Stories

The Master And His Pupil
Mr. Miacca
The Story Of The Three Little Pigs
Jack And His Golden Snuff-box
Jack The Giant-killer
The Ass, The Table, And The Stick
The History Of Tom Thumb
The Red Ettin
The Golden Arm
Johnny-cake
Mr. Vinegar
Whittington And His Cat
Jack And The Beanstalk
Childe Rowland
How Jack Went To Seek His Fortune
Jack Hannaford
Lazy Jack
Henny-penny
Nix Nought Nothing
The Cauld Lad Of Hilton
Master Of All Masters
The Three Sillies
Molly Whuppie
The Fish And The Ring
Earl Mar's Daughter
Kate Crackernuts
The Laidly Worm Of Spindleston Heugh
Cap O' Rushes
The Rose-tree
Titty Mouse And Tatty Mouse
The Magpie's Nest
The Three Heads Of The Well
Tom Tit Tot
Binnorie
Fairy Ointment
Mr. Fox
The Story Of The Three Bears
The Cat And The Mouse
The Well Of The World's End
Mouse And Mouser
The Strange Visitor
The Old Woman And Her Pig
Teeny-tiny

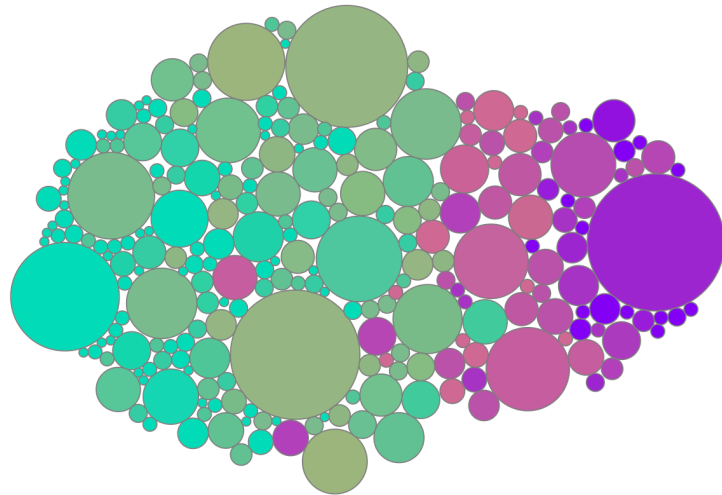
Gender Presence ?



Plot Breakdown ?



Gendered Words ?



Additional Changes / Features:

- Story selector on side quickly reveals overall gender patterns via a gender color gradient and a sorted order.
- Description (“?”) buttons provide additional explanations of data and design choices on hover.