

Topic Modeling and Recommender System of Fairy Tales

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01

Goal



02

Workflow



03

Findings



04

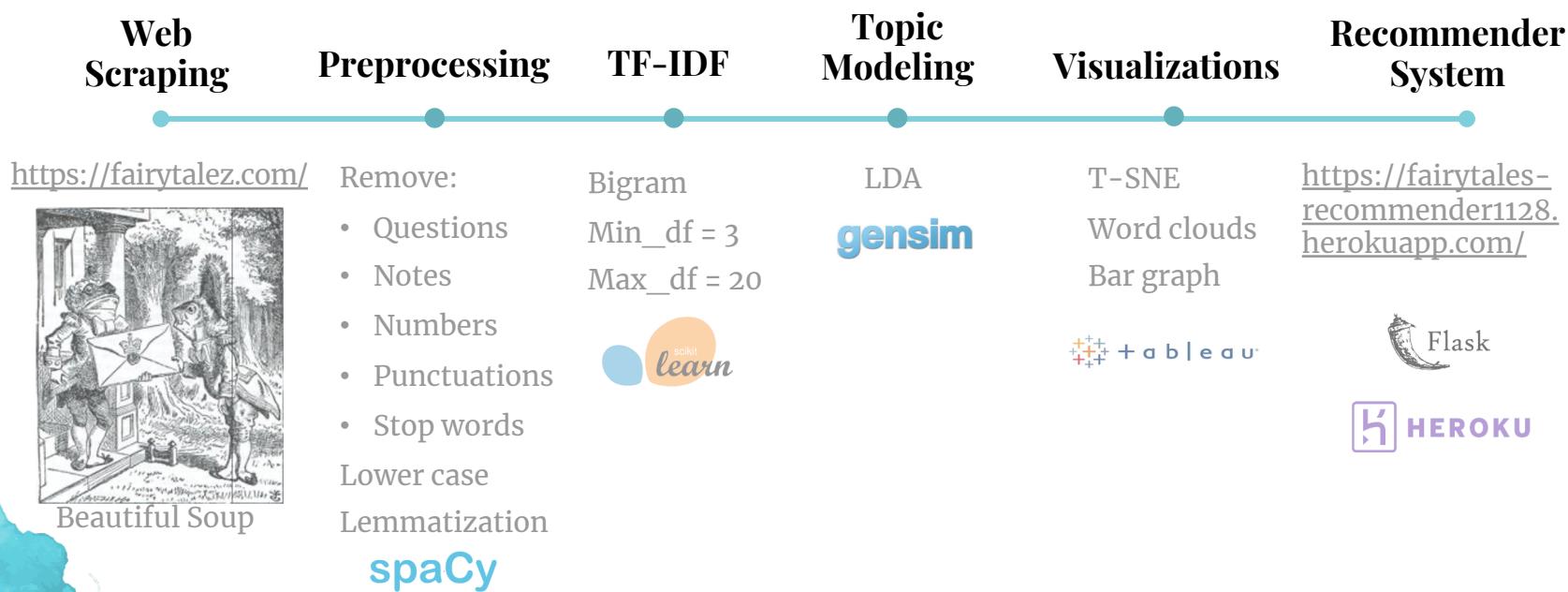
**Recommender
System**

Goal

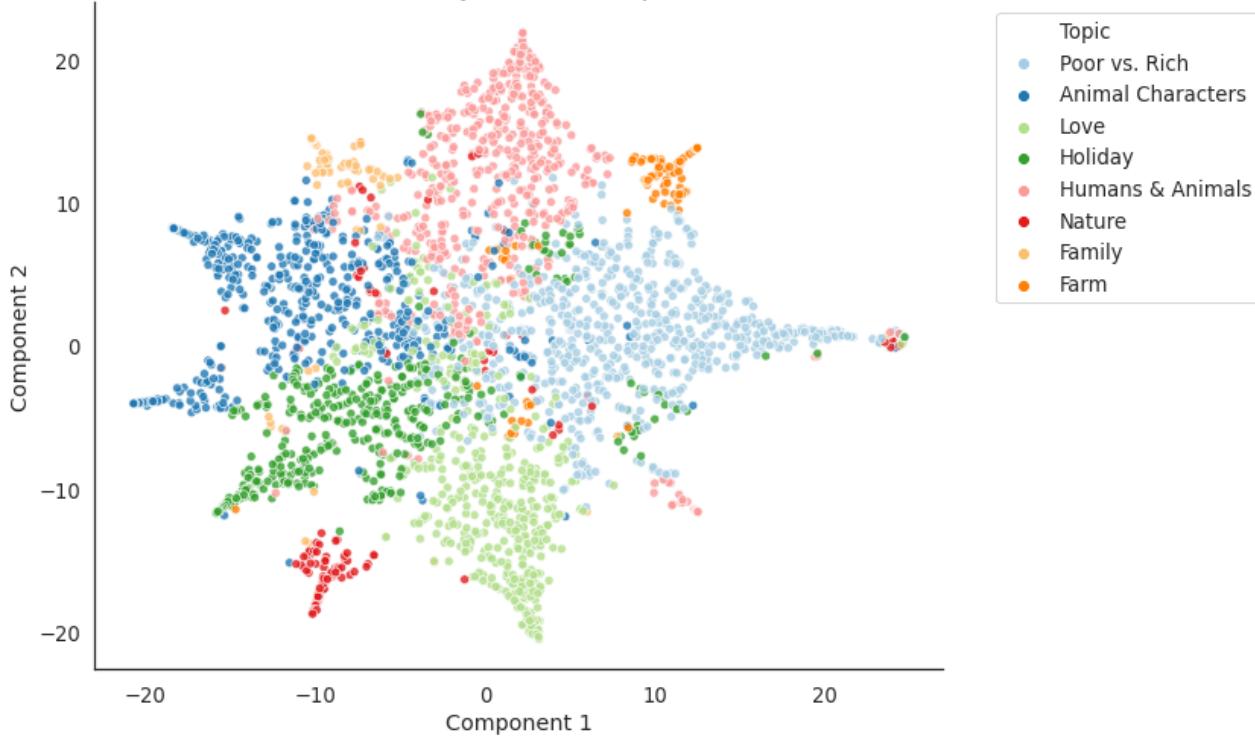
- What are the popular topics in fairy tales?
- Are those topics different across continents?
- Build a recommender system for fairy tales!



Workflow



TSNE Projection of 8 Topics



Topic Modeling

Poor vs. Rich	24.4%
Humans & Animals	18.2%
Animal Characters	17.7%
Love	15.8%
Holiday	13.5%
Nature	4.6%
Farm	3.2%
Family	2.5%

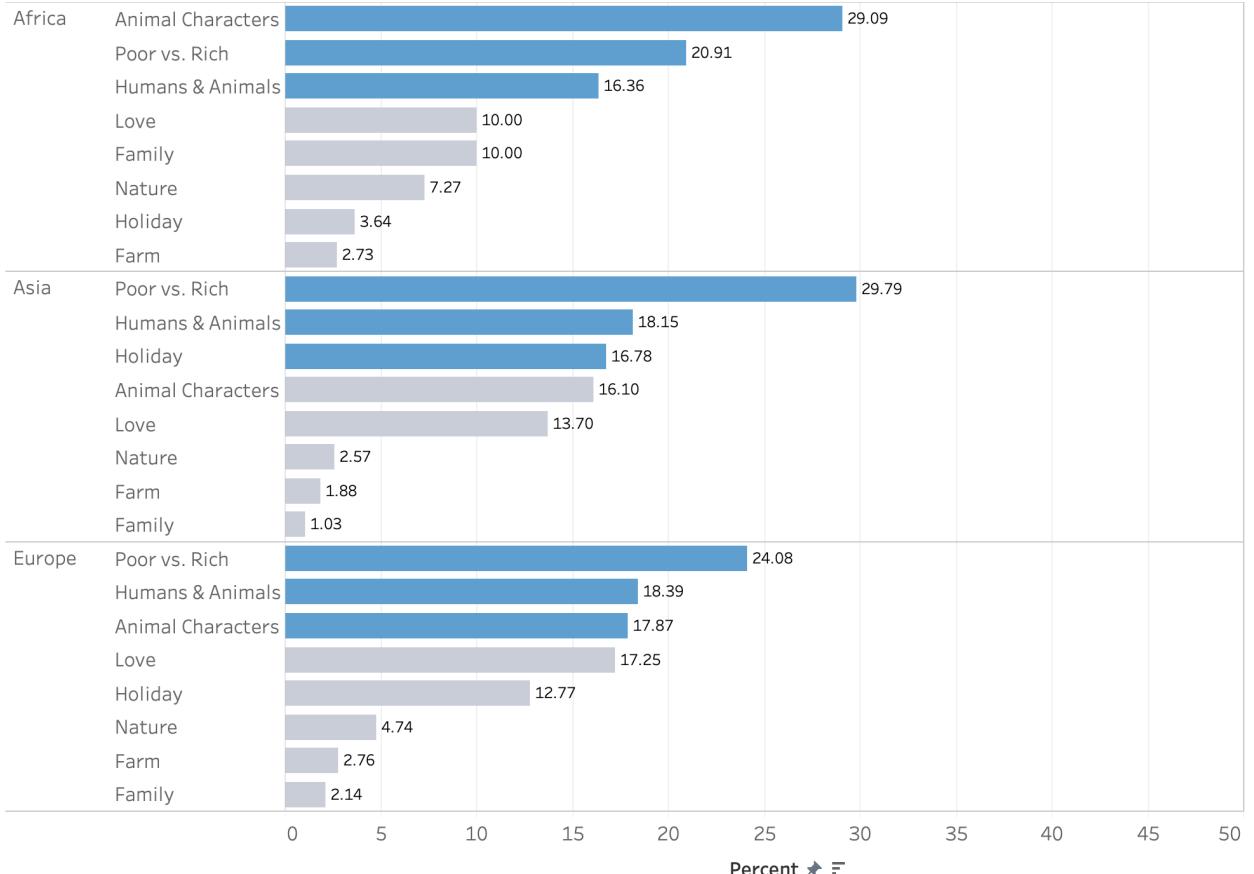
Topic Distribution Over Continents





Africa, Asia & Europe

Continen.. Topic Name ⚡



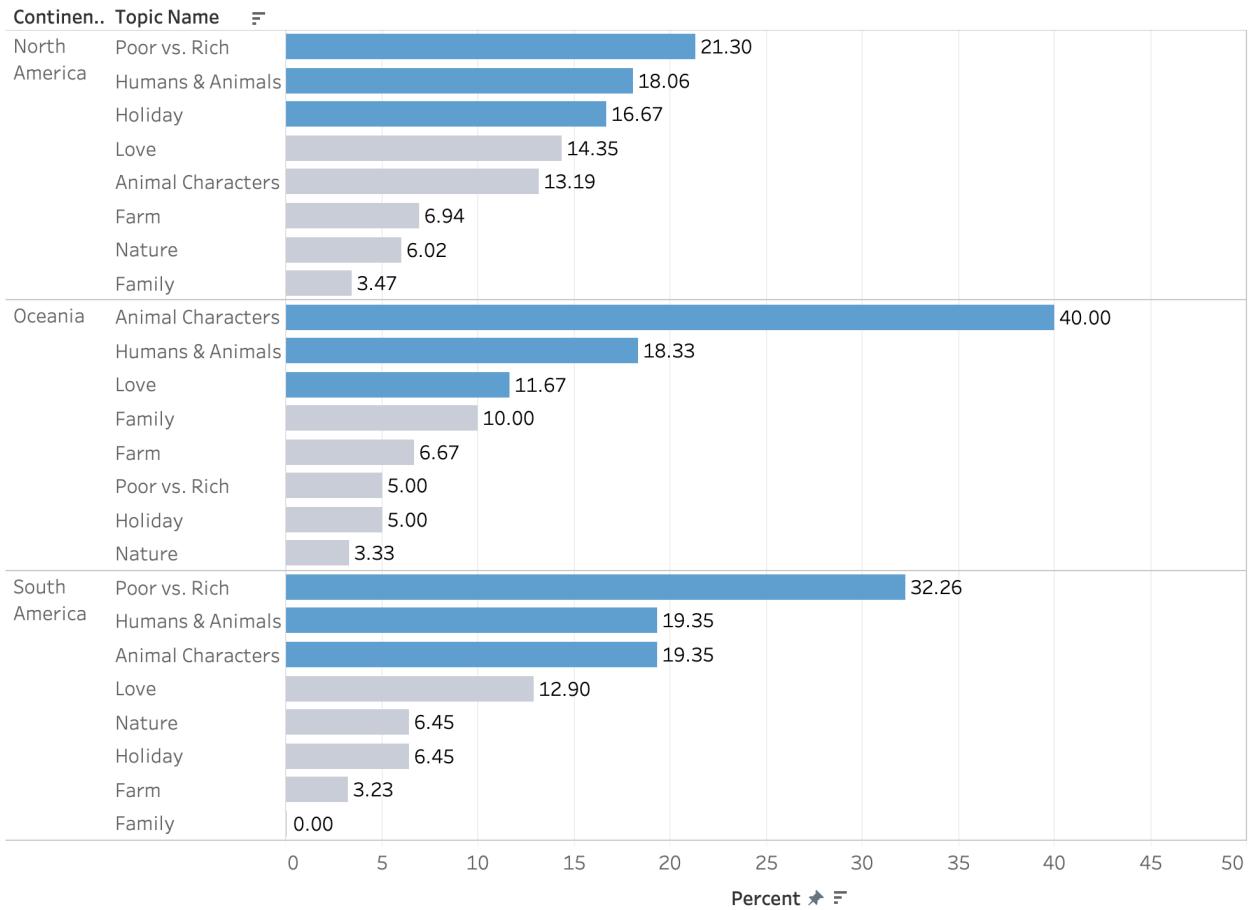


**North
America**

**South
America**

Oceania

North America, South America & Oceania



Word Cloud By Continent

Continent

- Africa
- Asia
- Europe
- NorthAmerica
- Oceania
- SouthAmerica

till
skin stay sight life rise songstick feeltalk use hide hang help draw dog sing hill
work girl sun blow open eagle blue meet break close right lakewalk word red shore wait ball
watch indian indians evening just snow laugh dance carry animal change strange sky earth foot
turn power meat spirit bring village speak bird ask wind reach near white light
friend father morning try head stand answer stop like kill leave wife land
eye arrow bear father morning try head stand answer stop like kill leave wife land
sit think oh little look shall long water tell good soon home away
make people time come set house say air night man
tree old eat great door young year lodge let
return rabbit brother day know hear mother boy child woman chief
want mountain bow way ground cut hand far run fish place daughter
start river strong throw fall moon pass growing thing begin live beautiful
forest wolf heart rock giant happen wood face hunter catch food stone
yes son high big wish camp die fast new voice small world large dead deer raven listen horse
sea body send hold corne reply end play hard fox hunt war los lie
poor arm fly



Word Cloud By Continent

Continent

- Africa
- Asia
- Europe
- NorthAmerica
- Oceania
- SouthAmerica



dead dress bright milk walk coat really gold new kill turn tail life fall lose
let catch watch forget bring climb start help lad head footstep sound build hide hold wall sun
dog room grow love laugh buzzard way black child use ground search far open return grass box earth violin
wax moment friend garden young try hen reply white work serpent voice cavalheiro carry
big shall good think tell water house forest play royal seal look lie hard
set night eat mother know great eye river make place tree say live
prince giant tiger monkey man princess home little
toad palace hear beautiful woman father green daughter time
wife fisherman rabbit feel day away king leave just story long kingdom come lee
fountain happy oil spring reach sleep like door beast banana tortoise run wonderful basket promise
year answer ready lovely horsething sing brown stand bird wait begin deep lamb fish stag escape wish
world journey break hand dance morning word throw cat jungle near son pass pull fast city heart fruit send
quite land goat path angry kind dear image tiny arrive bed fox stone maid girl

A decorative border of white line art flowers and leaves is positioned at the top and right edges of the slide, creating a delicate frame.

Recommender System



A Simple Fairy Tale Recommender System

Which of the following fairy tales do you like?

- Hansel and Gretel by Brothers Grimm
- Cinderella by Brothers Grimm
- Rumpelstiltskin by Brothers Grimm
- The Frog Prince by Brothers Grimm
- The Girl Without Hands by Brothers Grimm
- The Red Shoes by Hans Christian Andersen
- The Emperor's New Clothes by Hans Christian Andersen
- The Little Mermaid by Hans Christian Andersen
- The Ugly Duckling by Hans Christian Andersen
- The Princess and the Pea by Hans Christian Andersen

How many other fairy tales are you interested in?

Please select ▾

You might like the following fairy tales:

Thanks!

