

Over 8000 Comments
To Enter the Eastern Fantastical World

Data visualization of The Twelve Kingdoms

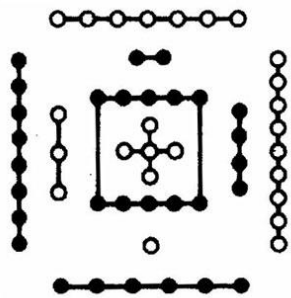


Yutong Han

Concept Statement

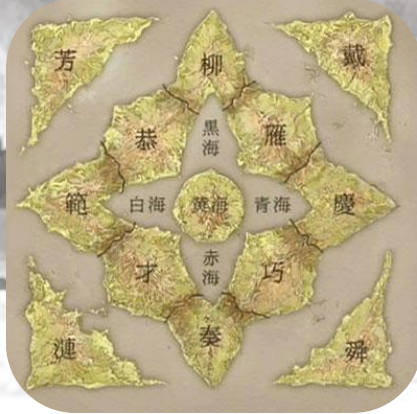
The Twelve Kingdoms is a series of eastern fantasy novels wrote by Fuyumi Ono, then made into an anime in 2002. It has played over 4,979,000 times since Bilibili (like Chinese Youtube) brought its copyright in 2017. As one of its loyal audiences, I want to introduce it to more people.

The author Fuyumi Ono created this fantasy world inspired by Chinese mythology, like *Classic of Mountains and Seas*, and ancient eastern organizational books, like *Rites of Zhou*. I'd like to invite you to enjoy the unique world of the Twelve Kingdoms through data visualization.



河图

The Yellow River Map



盘雕

Kochou



It's a great chance for people to get closed to eastern legends, fantasy world.

Research Questions

1. Proximity of Words from Bottom Comments in Bilibili
After I scraped the data and calculated the frequency of the data, I needed to find the relationships between words. Thanks to **Deb's** help, I did it through n-gram by R.

```
library(dplyr)
library(tidy)
library(tidytext)
library(ggplot2)
library(igraph)
library(ggraph)

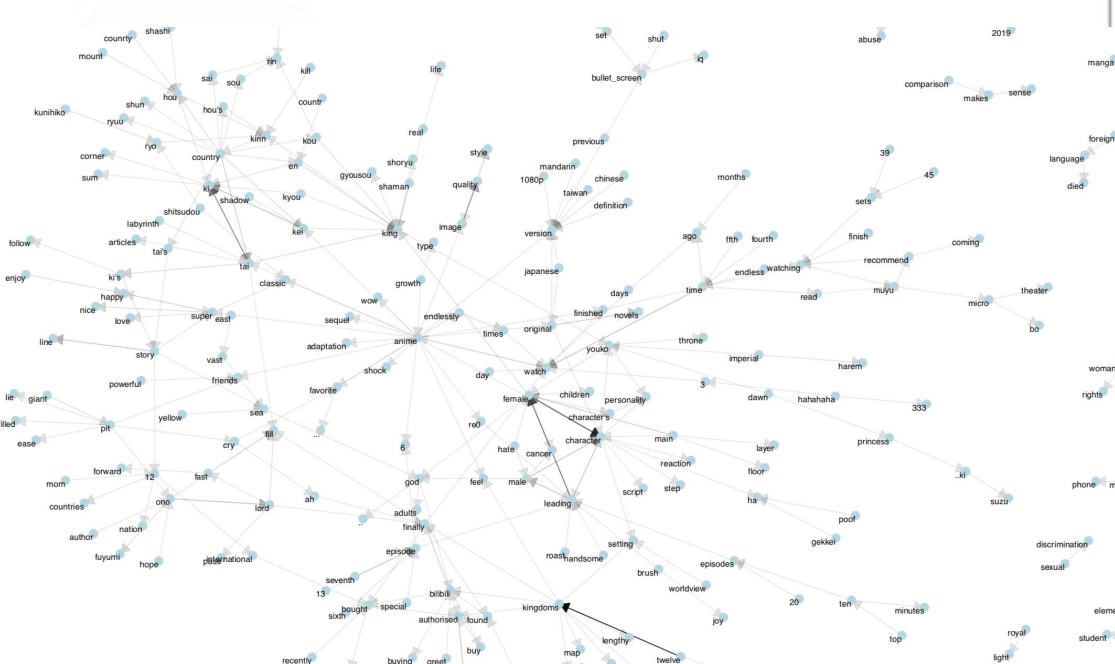
count_bigrams <- function(dataset) {
  dataset %>%
    unnest_tokens(bigram, text, token = "ngrams", n = 2) %>%
    separate(bigram, c("word1", "word2"), sep = " ") %>%
    filter(!word1 %in% stop_words$word,
           !word2 %in% stop_words$word) %>%
    count(word1, word2, sort = TRUE)
}

visualize_bigrams <- function(bigrams) {
  set.seed(2016)
  a <- grid::arrow(type = "closed", length = unit(.15, "inches"))

  bigrams %>%
    graph_from_data_frame() %>%
    ggraph(layout = "fr") +
    geom_edge_link(aes(edge_alpha = n), show.legend = FALSE, arrow = a) +
    geom_node_point(color = "lightblue", size = 5) +
    geom_node_text(aes(label = name), vjust = 1, hjust = 1) +
    theme_void()
}

count_bigrams
visualize_bigrams
```

8419	庆余年, , ,	Qingyu years ,,
8420	提庆余年我觉得层主你可能是反串黑吧	Mention Qingyu
8421	赞同楼上 除了起点网文, 楼主最好多看看别的经典名著, 起点yy	In addition to the
8422	楼上说得好, 以上帝视角开金手指写得爽固然好, 但也要认识到	Upstairs he said



Research Questions

2. How to attract audiences who don't know *The Twelve Kingdoms*?

The Twelve Kingdoms is not a famous work for western audiences. I'm struggled to make this project friendly for new one. Eastern-style websites are so rare, no matter data-driven eastern projects. I will draw some unique settings that are related to data-viz to promote people to continually reading.



All life is hatched from the trees in this world.

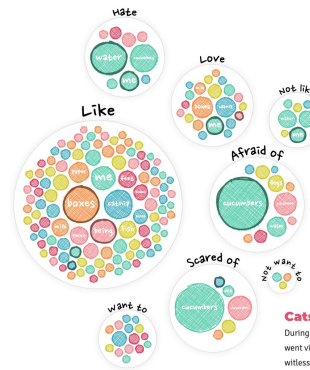


People lives with demon beasts, sages, half-orcs.

Precedents

1. Why Do Cats & Dogs ...?

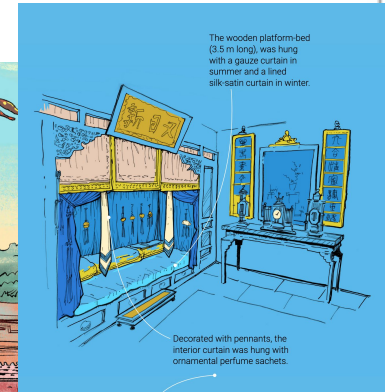
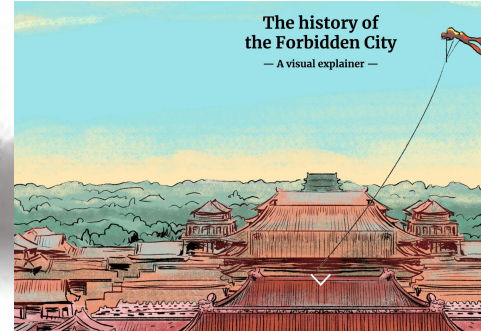
The hierarchy bubble chart to show up the relationship between words



184,"cat.bite.me.when_i.pet_him","cat.bite
185,"cat.bite.me.when_i.play_music","cat.
186,"cat.bite.my","cat.bite","my","5",,2
187,"cat.bite.my.ankles_when_i_walk","cat
188,"cat.bite.my.blanket_and_knead_it","c
189,"cat.bite.my.chin","cat.bite.my","chi
190,"cat.bite.my.hair","cat.bite.my","hai
191,"cat.bite.my.hand","cat.bite.my","han
192."cat.bite.mv.leas"."cat.bite.mv"."leag

1. The History of the Forbidden City

Combine eastern traditional culture and data visualization



2. 30 Years of American Anxieties

Manually subgroup things. I will also category tons of sentences into 6 or 7 groups and further explain them.

CHOOSE A PERSON: HUSBANDS WIVES SONS DAUGHTERS FRIENDS BOSSES

Inappropriate Behavior
16 letters

Dear Abby,
I am 19 and was a virgin until april 1991. Since then, I have been with three men, all of whom were one-night stands. One was married and aw...
[Read More](#)

Japan'S A Scapegoat For A World Of Woes

Dear Abby,
I am a happily married 29-year-old woman. I recently changed jobs, and my problem is my supervisor. He's a conceited, middle-aged married ma...
[Read More](#)

EVEN WITH DIRECTIONS, DRIVER GETS LOST

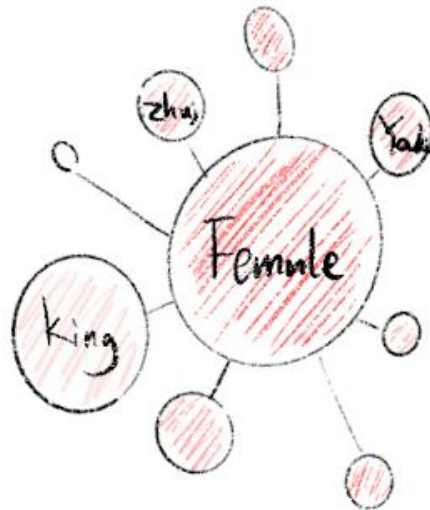
Dear Abby,
An outside vendor came to the place wh worked and made lewd comments to me learned that he would be the person train on t...
[Read More](#)

Pregnant Teen Is Terrified By Husband'S Kill

Romance

How Your Project Builds on Precedents

I will introduce unique settings in *The Twelve Kingdoms* with ancient-eastern-style drawings. For example, I firstly introduce the relationship among the king, the country and the kirin. Then I show the packed bubble chart with both the frequency and the relationship.



Prototypes

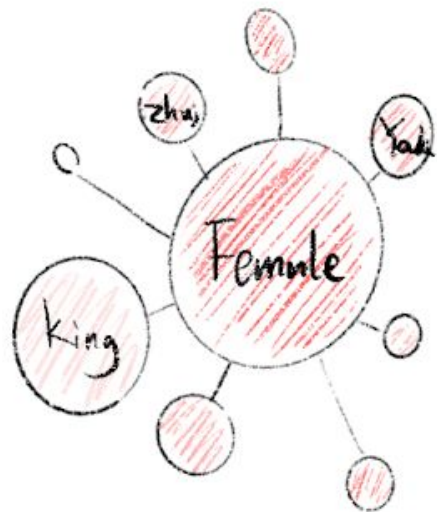
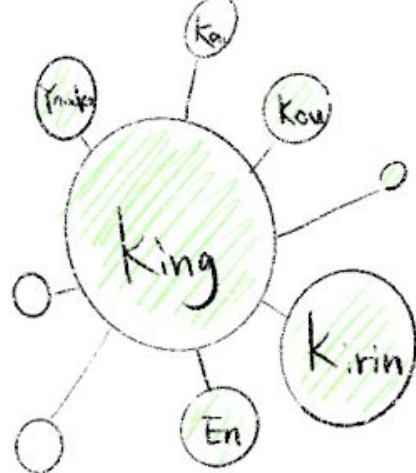
Over 8000 Comments
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Introduction

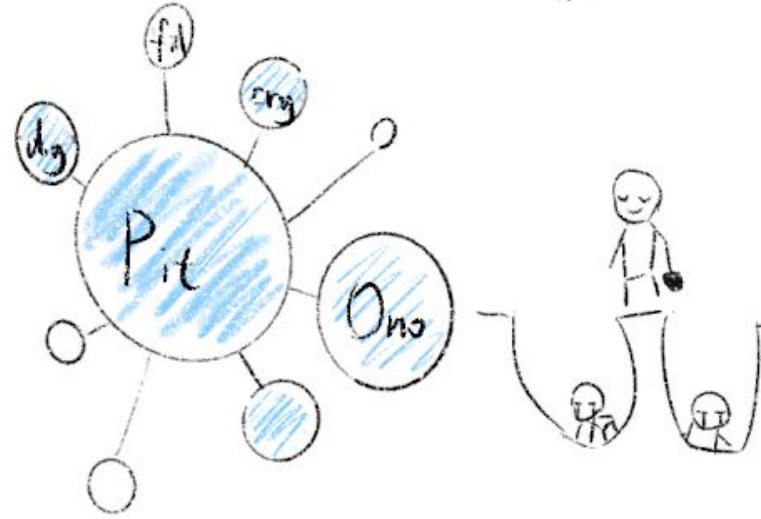
4,979,000 plays
106,000 screen bullets



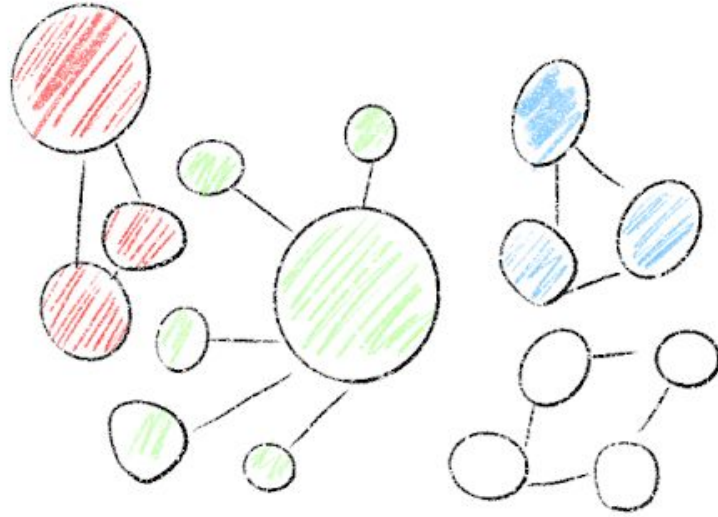
Prototypes



Prototypes



Prototypes



Leave your comments

Submit

Prototypes

Demo



What's next?

1. Finish the D3.js parts of the website

Now I'm trying to find a best way to show their relationship in D3. I will finish this part during the spring break.

Example 1 Example 2

2. Finish the drawings

For the setting images, I can finish them during the spring break. But for title background image, I need more time.

3. Make it mobile-friendly. Revise the website with professors, friends' advice.