"Bullet Screen" Analysis on Bilibi تاتط تاتط CAPP 30122 Project by Yilun Dai Ling Dai Fangfang

Introduction



Goal: To identify internet language patterns of people of different interests through "bullet screen" sent in videos.



"Bullet screen": Comments that fly through the screen viewers send when watching a video. (dynamical loading)





Data Collection



Web Crawler:

Bilibili: main site → categories → videos (sorted by popularity) → "bullet screens"



Name of the video, unique id, associated tags, bullet screens, etc.

Alternative:

Twitch: collect Twitch chats using Twitch IRC



Analysis



- 1. Aggregate texts
- 2. Data cleaning
- Word segmentation / tokenization
- 4. Filter common viords
- Data visualization (words / n-grams)

Potential Additional Analysis (depending on additional features)



Final Product



Interactive word cloud generator:
 Generate word clouds based on
 the user inputs (category/tags).
 Words with higher frequency will
 yield larger clouds.



Possible Additional features

An algorithm that recommends
 Bilibili videos based on users' sent
 bullet screens/comments. (Word
 frequency distribution → PCA →
 calculate similarity and recommend
 nearest videos)

 An algorithm that searches relevant Bilibili videos based on the n-gram frequencies in "bullet screens".



