

Overview

- Motivation
- Dataset
- System Architecture
- Color Analysis
- Sentimental Analysis
- Top 3 Categories Per Country
- Twitter & Youtube Streaming Analysis



Motivation

- Interesting data set
- Youtube is a big platform with a large international reach
- Why do people make youtube videos?
 - Popularity
 - Educate people
 - Send a message
 - "pewdiepie" made \$12 million USD in the year of 2017[1]
- Brand marketing





Dataset

- Historic Youtube trending Data
 - 8 months of trending per day
- Twitter/Youtube Stream
 - top 50 Trending Videos on youtube
 - twitter streaming







System Architecture

- Lambda architecture
 - Batch Analysis
 - Speed layer

- Data saved for later analysis
 - average lifecycle of a trending video
 - peak hours
 - Trending spot vs Twitter Attention

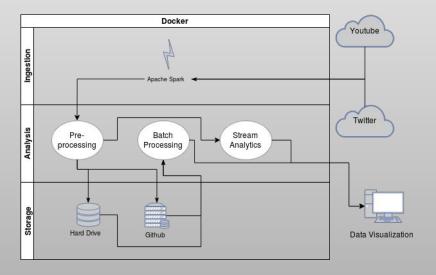


Figure 1: Example Thumbnail



Analysis



Thumbnail Analysis

- Data cleaning
- Image cleaning
- Object Detection
- Color Analysis
- MapReduce



Figure 1: Example Thumbnail



Figure 2: Example Thumbnail



Thumbnail Analysis

- Use strong colors in thumbnails
- Results:
 - Spotlight Effect

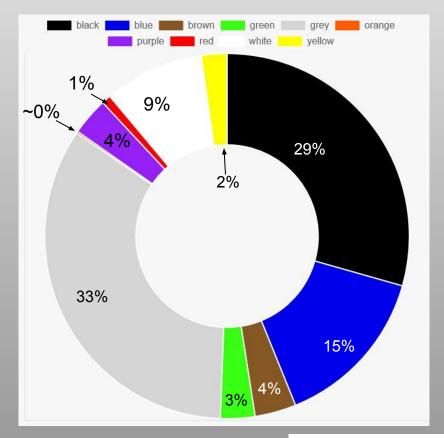


Figure 3: Color Analysis Results

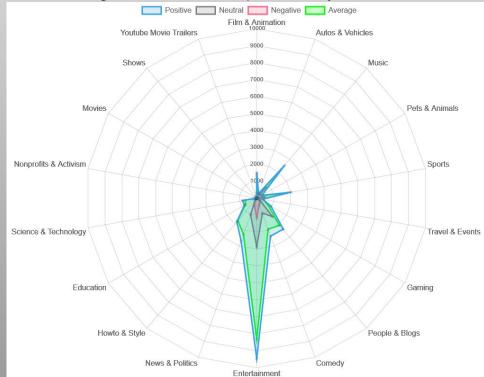


Sentiment Analysis

 Sentiment was done for Canada Youtube Videos

MapReduce

 Titles were neutral while Descriptions were positive Figure 4.2.4 Description analysis sums





Sentiment Analysis

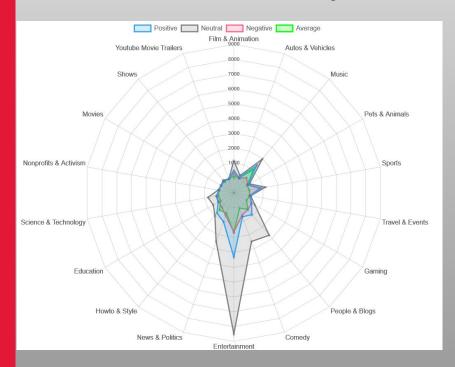


figure 4.2.2 Title analysis sums



figure 4.2.3 Description analysis percentage



Top 3 Categories Per Country

- Sum for every category and got the top 3
- Entertainment was very dominant

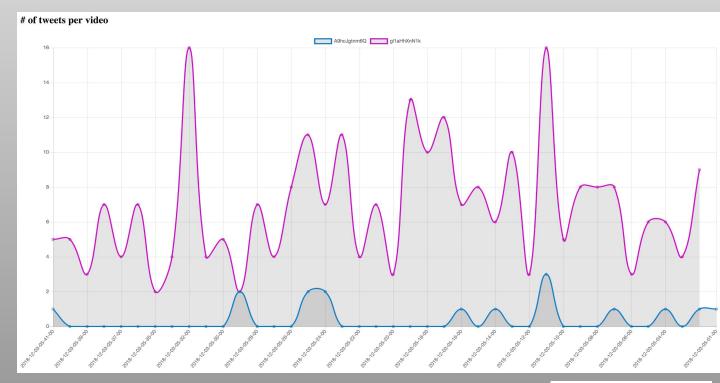


Can be seen by interacting with map on figure 4.3.1



Twitter Youtube Stream Analysis

- Live from twitter and Youtube
- Outside the top 10
- Unexpected
- Live demo





Conclusion

Trending video tips:

- Neutral background colors
- Hardly any negative title videos
- Limited correlation between the two platforms
- Music videos had the most cross platform traffic



Questions/answers

