

Live Stream Youtube Channel Analysis

The following is an analysis of live stream youtube channels. Public data from these channels are mined from youtube V3 API with the script in the sub folder. The follow data shows insights on the viewership of ‘Only in Japan’ live stream channel for over a span of 2 years. Also at the end a time series prediction of viewership is done with two methods, SARIMAX and fbprophet.

1) Data Analysis

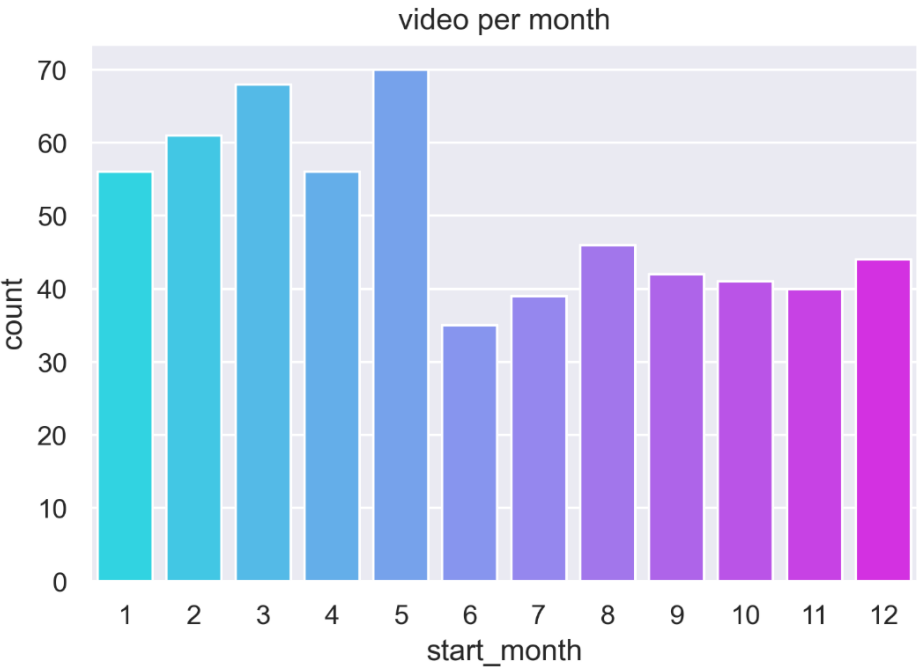
30 Top streaming locations

locationDescription		
Tokyo	2214768	
Tokyo Station	830109	
Akihabara Station	698801	
Ohtori Shrine	554792	
Torigoe Shrine	550048	
鷺神社(浅草西の市御本社)		508998
Kobayashi	365850	
Akihabara	357423	
Hibiyakoen	344060	
Ginza	252229	
Hibiya Park	232666	
Shinozaki Station	221262	
Shinjuku Station	196200	
Sado Island	178960	
Yūrakuchō Station	168343	
Tokyo Dome	140535	
Noboribetsu Station	134585	
Ueno Station	132551	
Hayao Miyazaki's Nippon Television Big Clock	115353	
Sumida River	114011	
Hamamatsuchō Station	104059	
Harajuku Station	103924	
Osaka Station	99909	
Tenjinbashisuji Shopping Street	95074	
Shin-Osaka Station	94146	
Shinbashi	91738	
Marienplatz	90397	
Shibuya Station	88967	
Monzen-nakacho Station	85341	
Harajuku	85003	

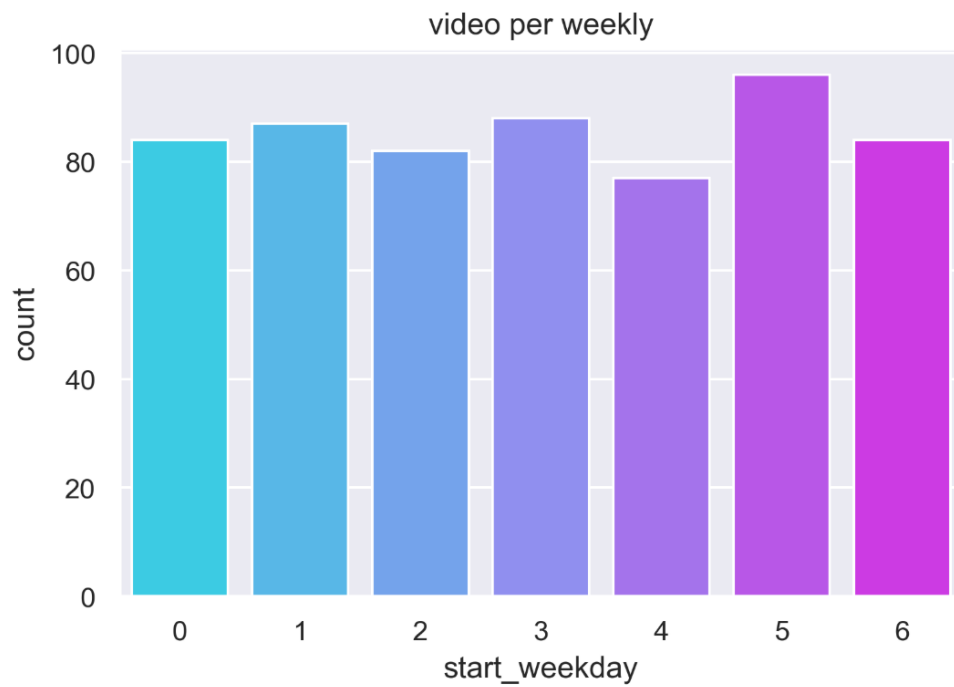
Top 10 location with the most viewers

viewCount	locationDescription
554792	Ohtori Shrine
532703	Torigoe Shrine
508998	鷲神社(浅草西の市御本社)
470572	NaN
445135	Akihabara Station
348108	NaN
344060	Hibiyakoen
341300	Kobayashi
287690	Tokyo
279509	NaN
203584	Tokyo Station
192088	Shinozaki Station
157959	NaN
155985	NaN
153470	Tokyo

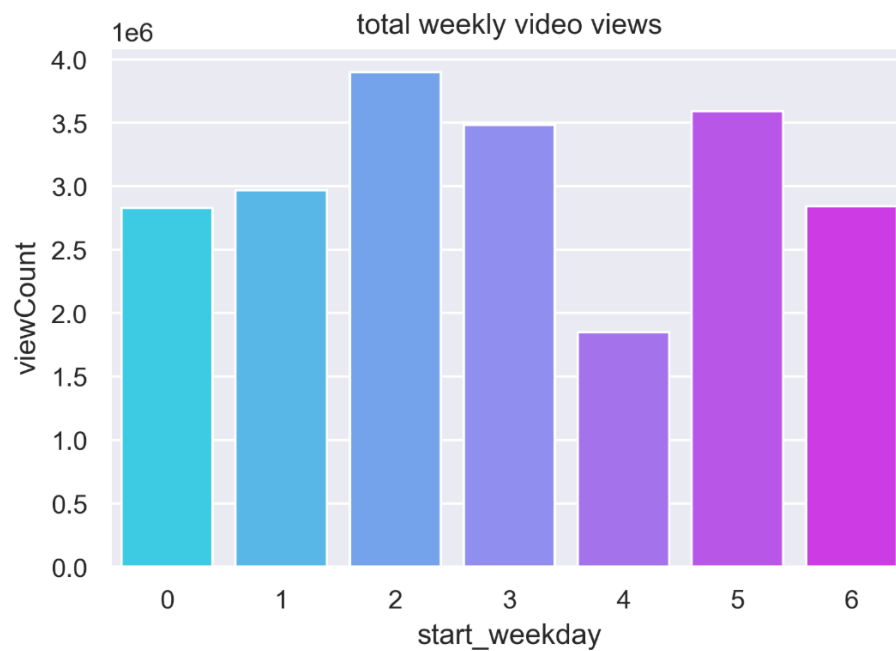
Total number of videos per month



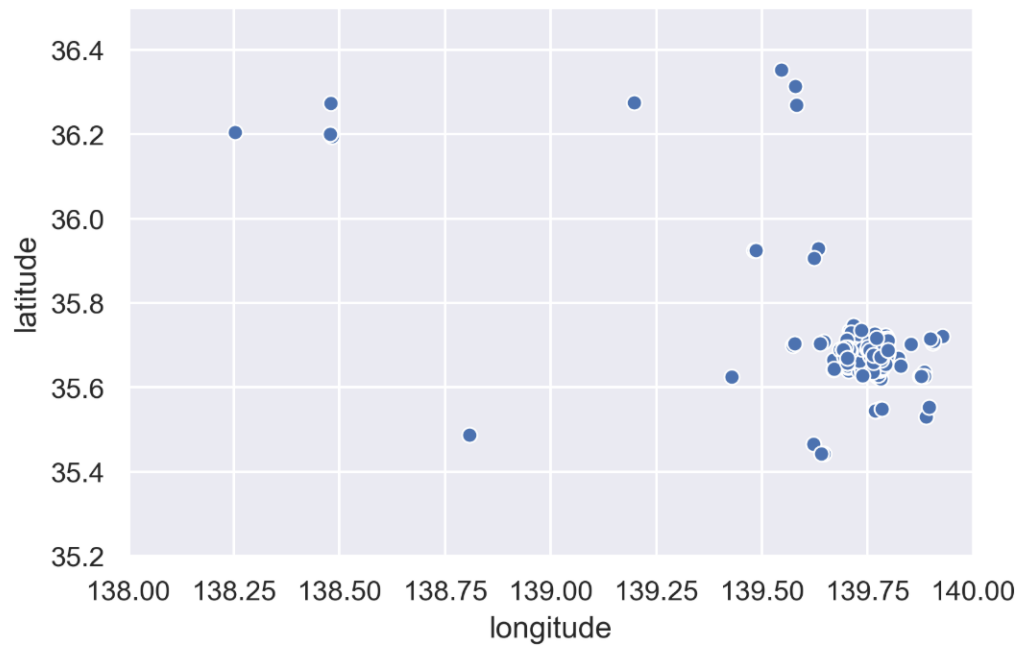
Total numbers of video per week



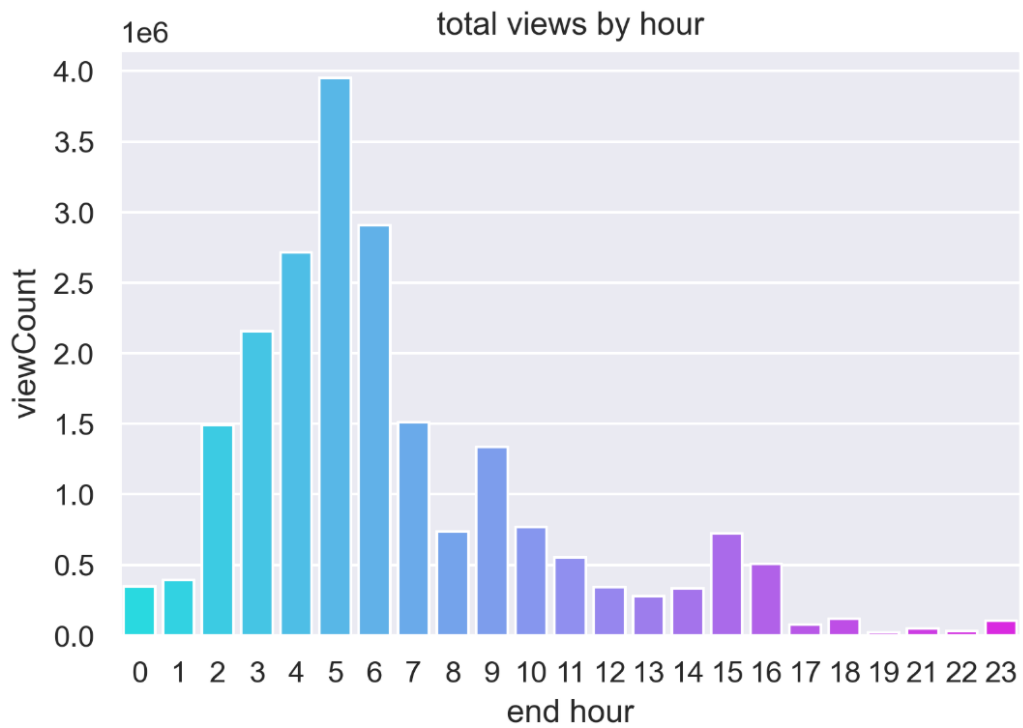
Total weekly video views



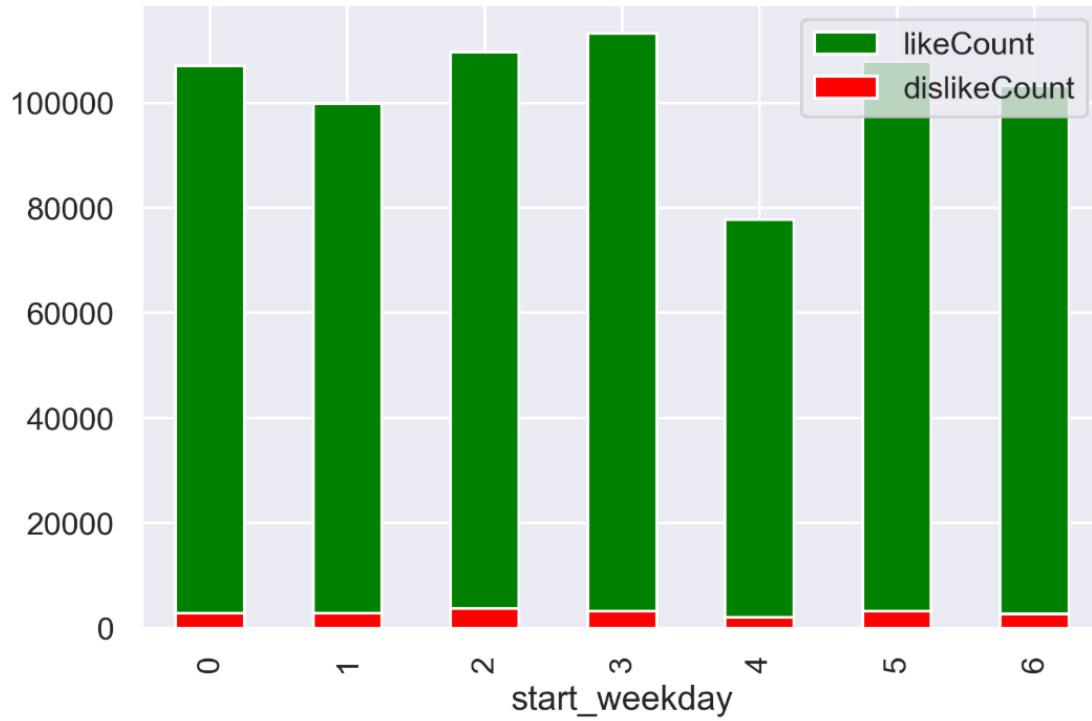
Latitude and Longitude Location Plot



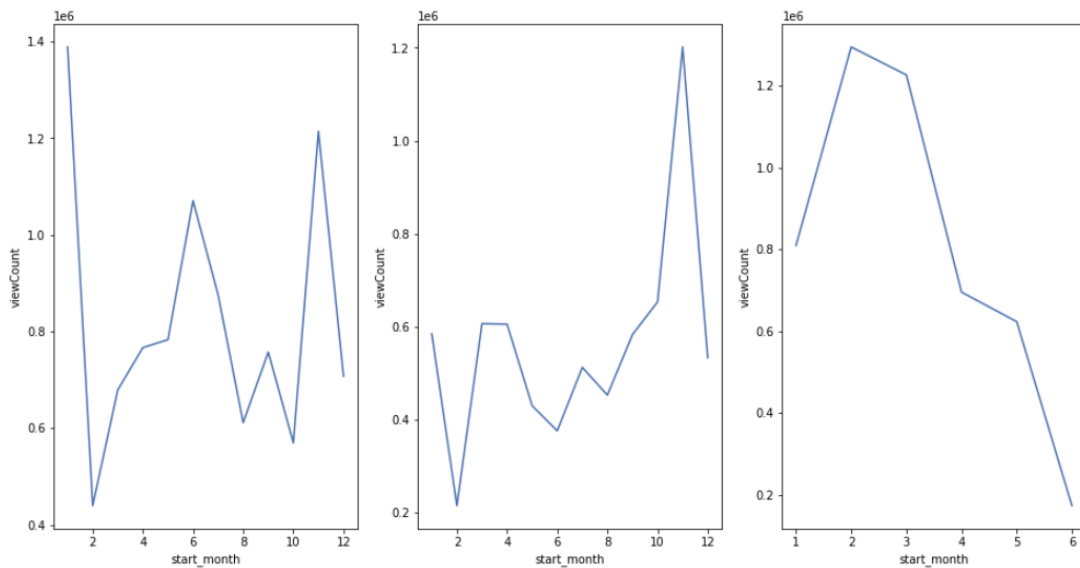
Most views at UTC hour



Like/Dislike



Views per month from 2018-2020



SARIMAX prediction vs actual

