# Trending YouTube Data Poster

By: Eric Dogariu

KMeans USA

KMeans USA

KMeans United Kingdom

KMeans India

Principal component 2 Training

Principal component 1 Training

KMeans India

Principal component 2 Testing

Principal component 1 Testing

KMeans Canada
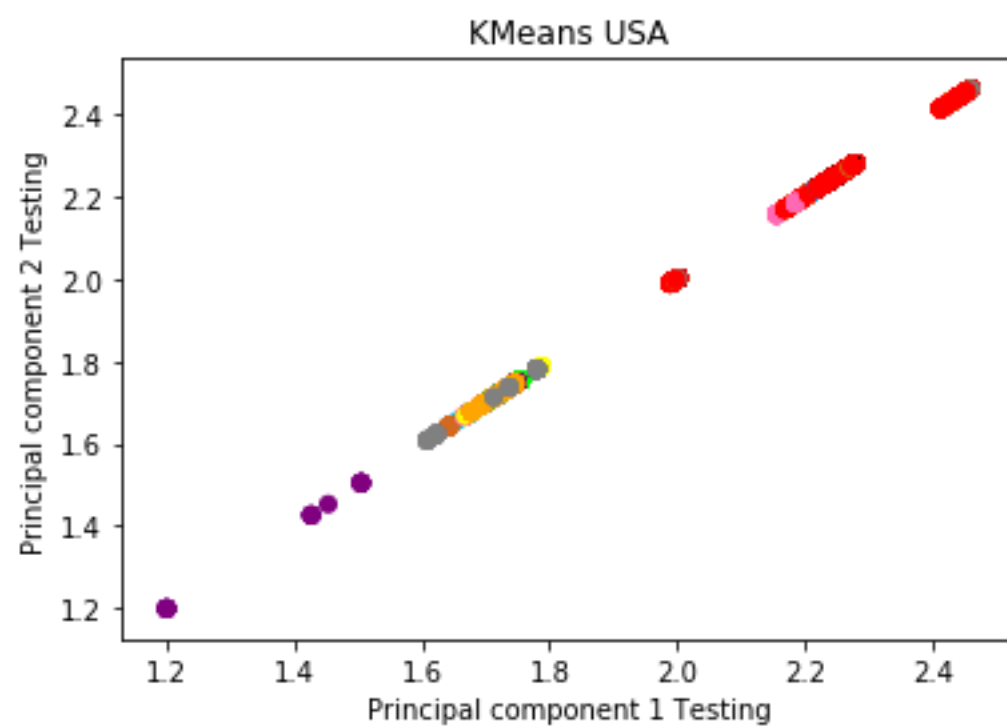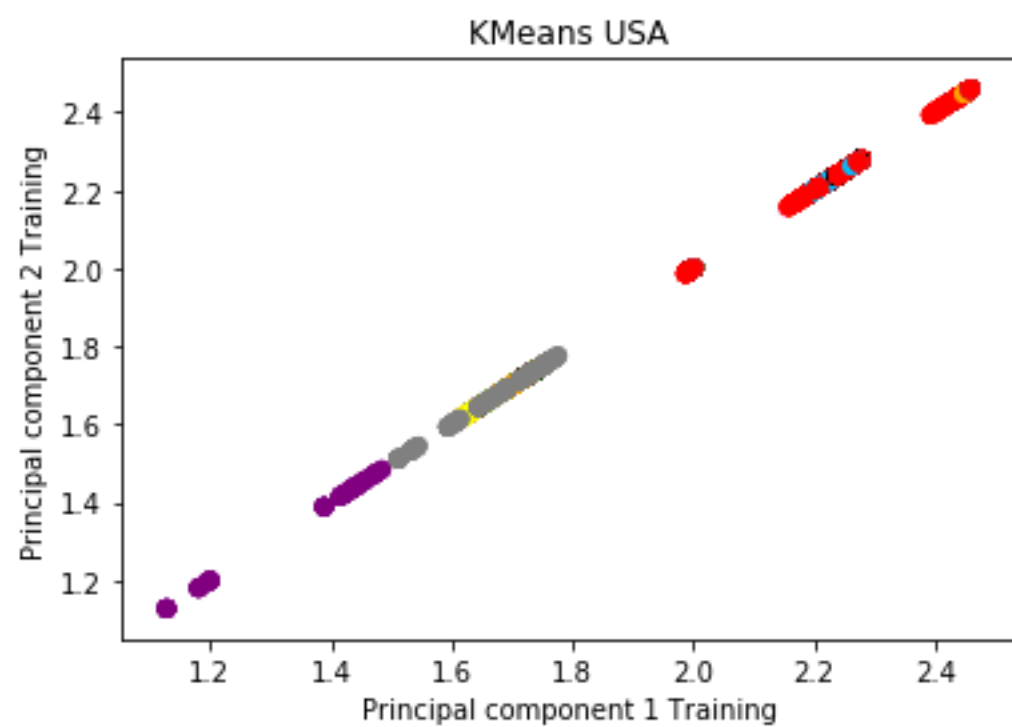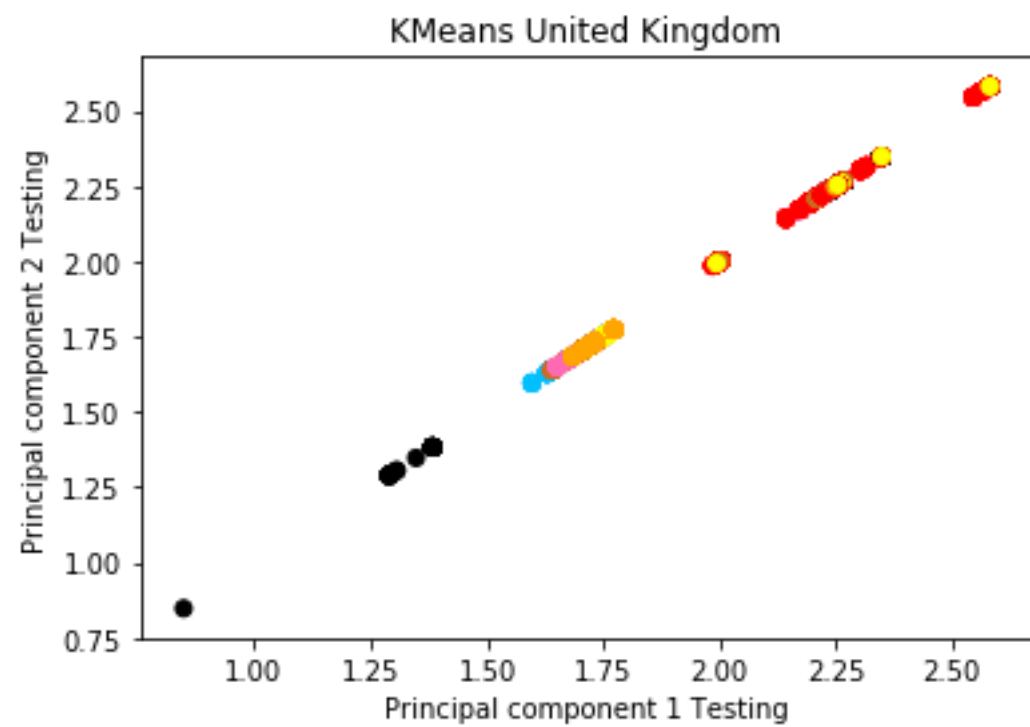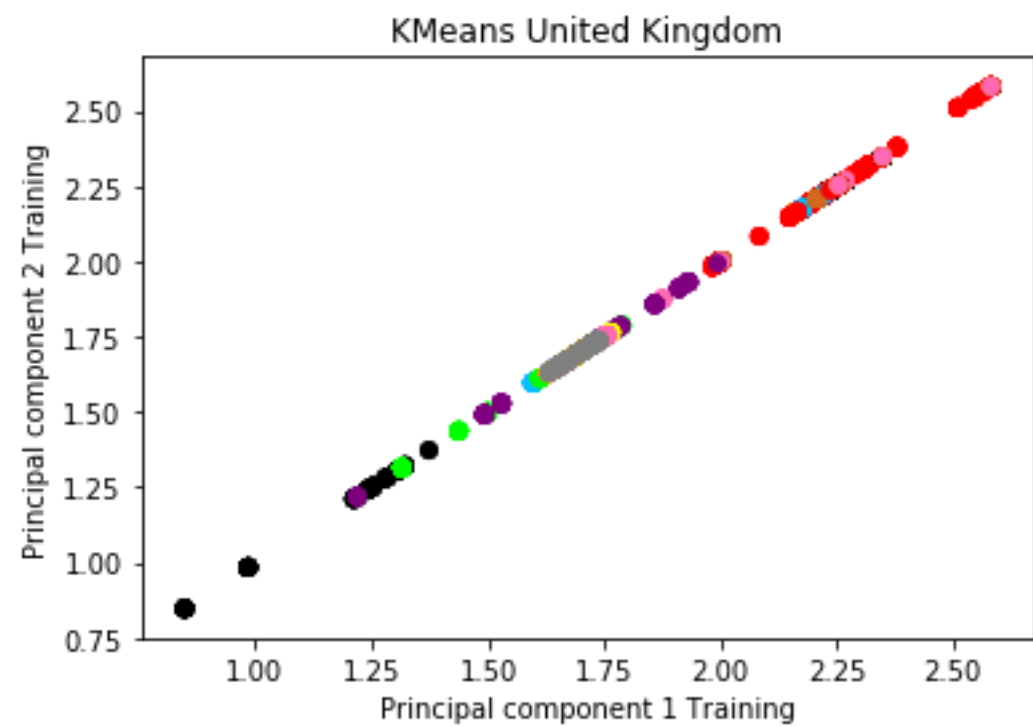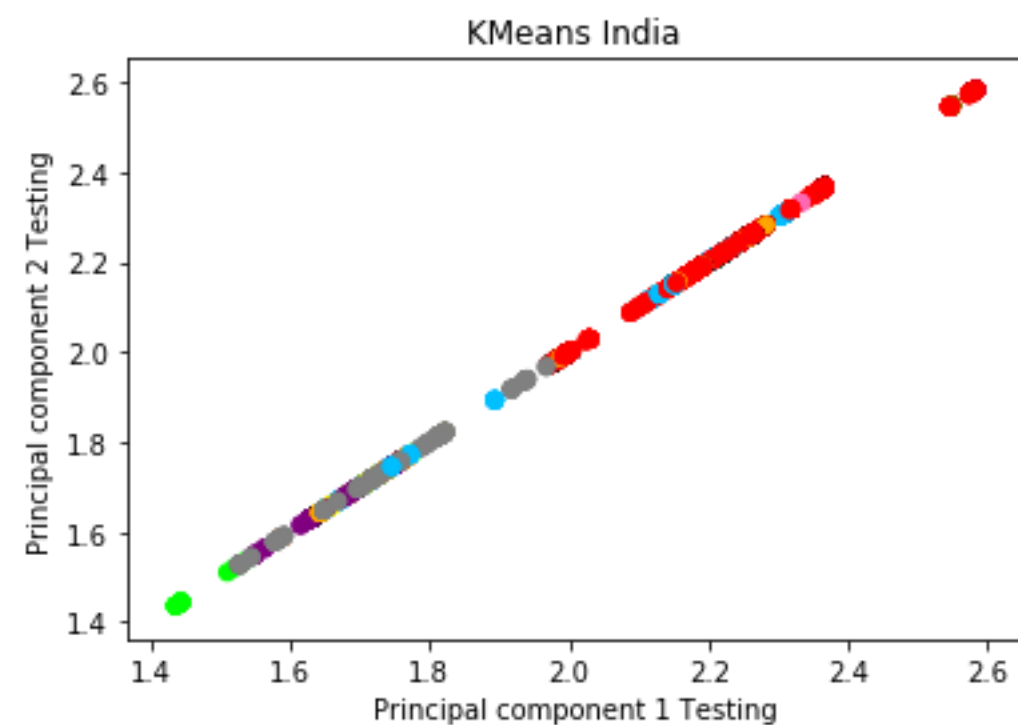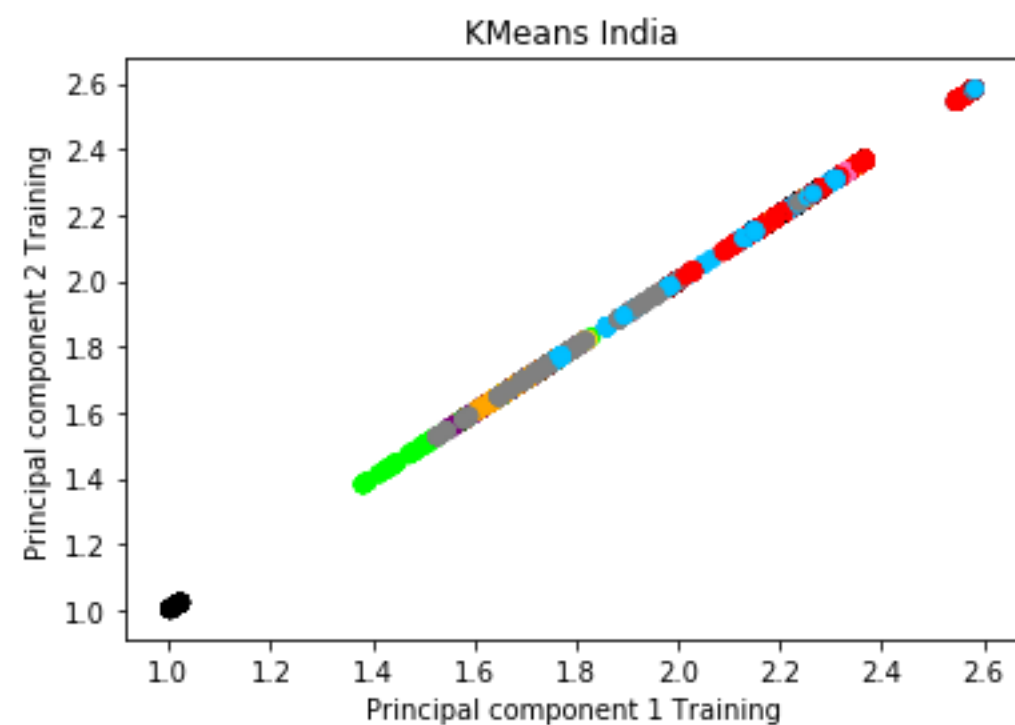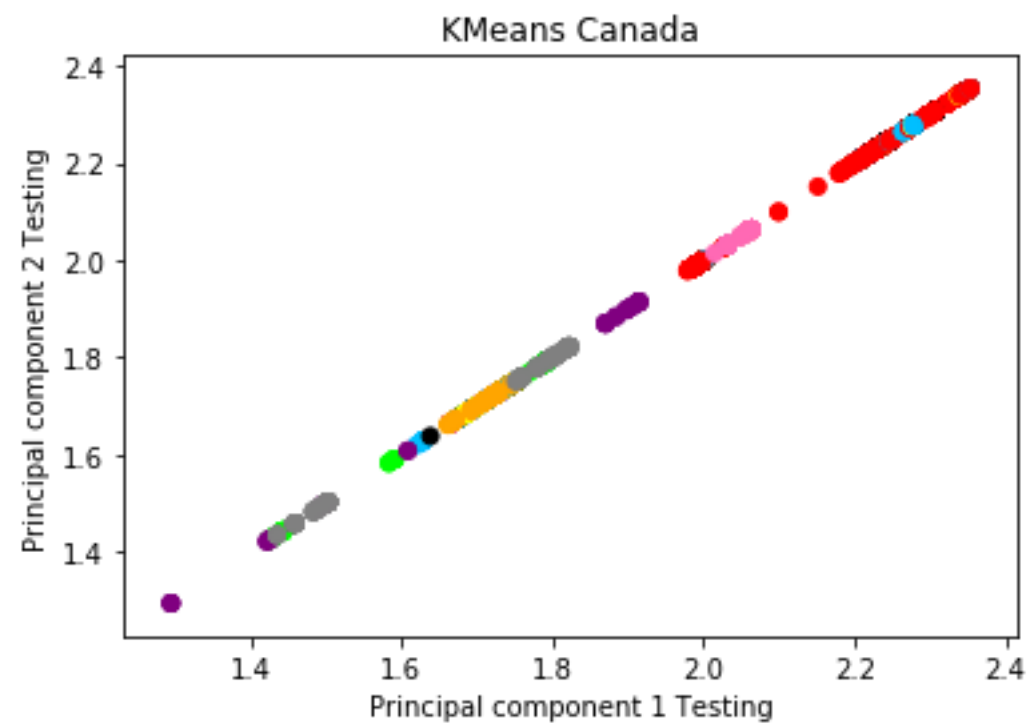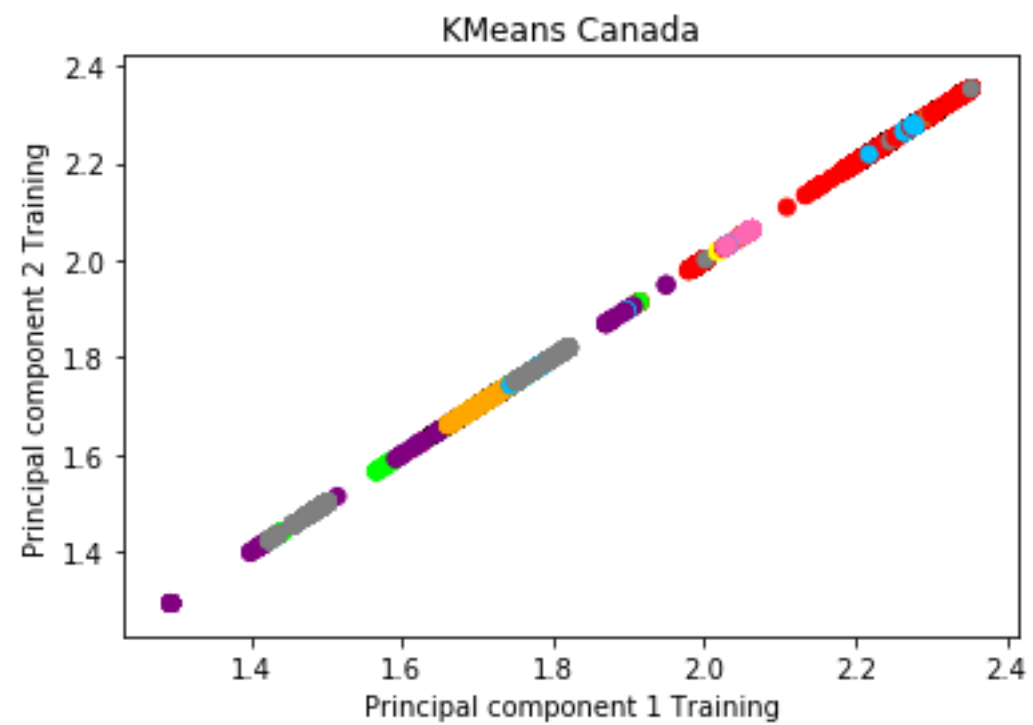
Number	Country	Title	Channel Title	Popularity
1	Canada	YouTube Rewind: The Shape of 2017	YouTube Spotlight	145126668
2	Canada	Childish Gambino - This Is America	ChildishGambinoVEVO	111079833
1	India	YouTube Rewind: The Shape of 2017	YouTube Spotlight	132518125
2	India	Marvel Studios' Avengers: Infinity War Official Trailer	Marvel Studios' Avengers: Infinity War Official Trailer	100841285
1	UK	Nicky Jam x J. Balvin - X (EQUIS)	NickyJamTV	435415656
2	UK	Te Bote Remix - Casper, Nio Garcia,...	Flow La Movie	347510347
1	USA	Childish Gambino - This Is America	ChildishGambinoVEVO	244966023
2	USA	Ariana Grande - No Tears Left To Cry	ArianaGrandeVevo	161032050

Table 1: Top 2 Distinct Most Popular Videos

Model	Country	Num	SilScore	LLGM	LLPSGM	AIC	AICPS	BIC	BICPS
KM	Canada	10	0.92	42.10	0.0053	-673219.30	-84.037	-668613.83	-83.46
KM	India	10	0.84	37.33	0.0052	-532082.82	-74.48	-527552.83	-73.85
KM	UK	10	0.93	44.93	0.0059	-683707.55	-89.68	-679134.72	-89.08
KM	USA	10	0.94	42.02	0.0052	-674808.30	-83.87	-670199.96	-83.30
LDA	Canada	10	N/A	29.49	0.0037	-471208.92	-58.82	-466603.45	-58.25
LDA	India	10	N/A	29.63	0.0041	-422051.89	-59.078	-417521.90	-58.44
LDA	UK	10	N/A	28.61	0.0038	-434855.89	-57.038	-430283.05	-56.44
LDA	USA	10	N/A	27.31	0.0034	-438188.07	-54.46	-433579.73	-53.89

Table 2: Unsupervised Analysis Results

Regressor	M	NF	Country	MSE	R2	EVS
GBR	KM	40	Canada	18476979351729.96	-0.0021	4.14e-05
RFR	KM	40	Canada	18477673029296.61	-0.0021	3.87e-05
GBR	LDA	40	Canada	18476918932960.39	-0.0021	4.35e-05
RFR	LDA	40	Canada	18473944551390.35	-0.0019	4.38e-05
GBR	KM	40	India	9874449425716.26	-0.0080	6.41e-05
RFR	KM	40	India	9869487114204.77	-0.0075	6.43-05
GBR	LDA	40	India	9874439119625.94	-0.0080	6.50e-05
RFR	LDA	40	India	9871376967319.38	-0.0077	6.71e-05
GBR	KM	40	UK	733878513079887.20	-0.04457	0.00050
RFR	KM	40	UK	734093158341149.00	-0.0449	0.00048
GBR	LDA	40	UK	733696751912559.50	-0.04431	0.00093
RFR	LDA	40	UK	734063825080816.80	-0.0448	0.00037
GBR	KM	40	USA	214674949552417.00	-0.0664	-7.13e-05
RFR	KM	40	USA	214605333146567.28	-0.0660	-7.70e-05
GBR	LDA	40	USA	214684580296477.50	-0.0664	-3.81e-06
RFR	LDA	40	USA	214626181042848.03	-0.0661	-0.00034

Table 3: Popularity Supervised Analysis Results

Top 40 Features USA

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Top 40 Features UK

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Top 40 Features India

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Top 40 Features Canada

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Acknowledgments