Lab 5 - Bit 'N Bytes Youtube Data
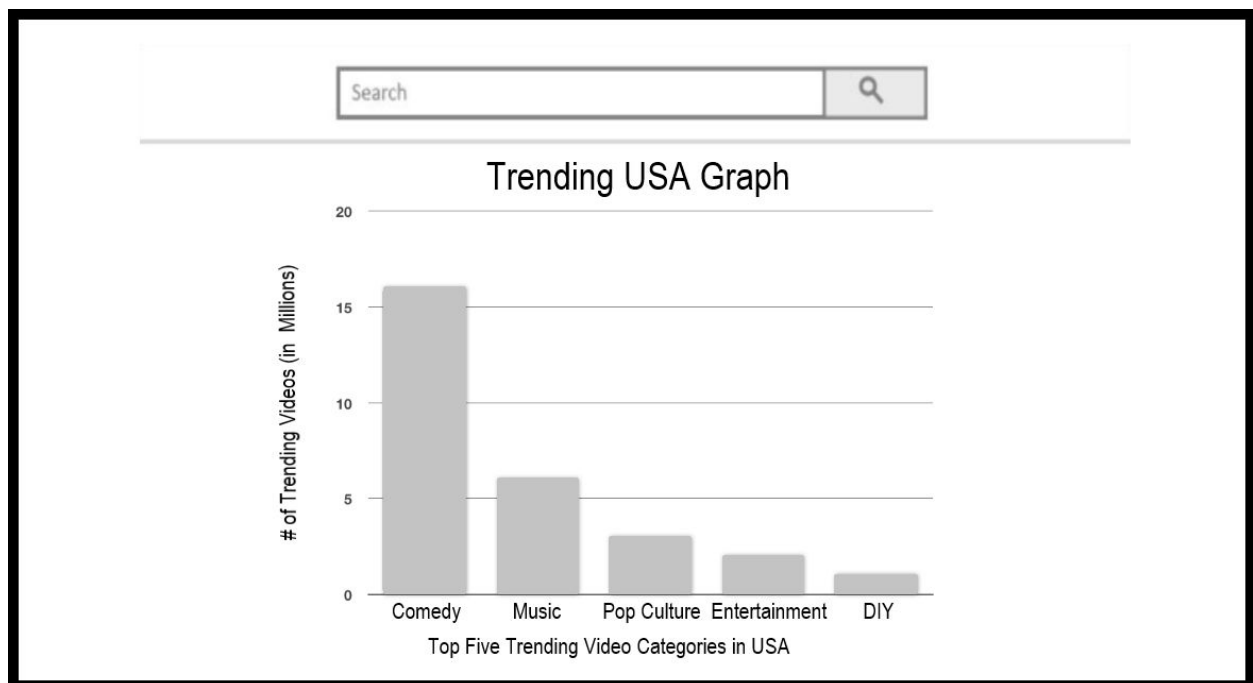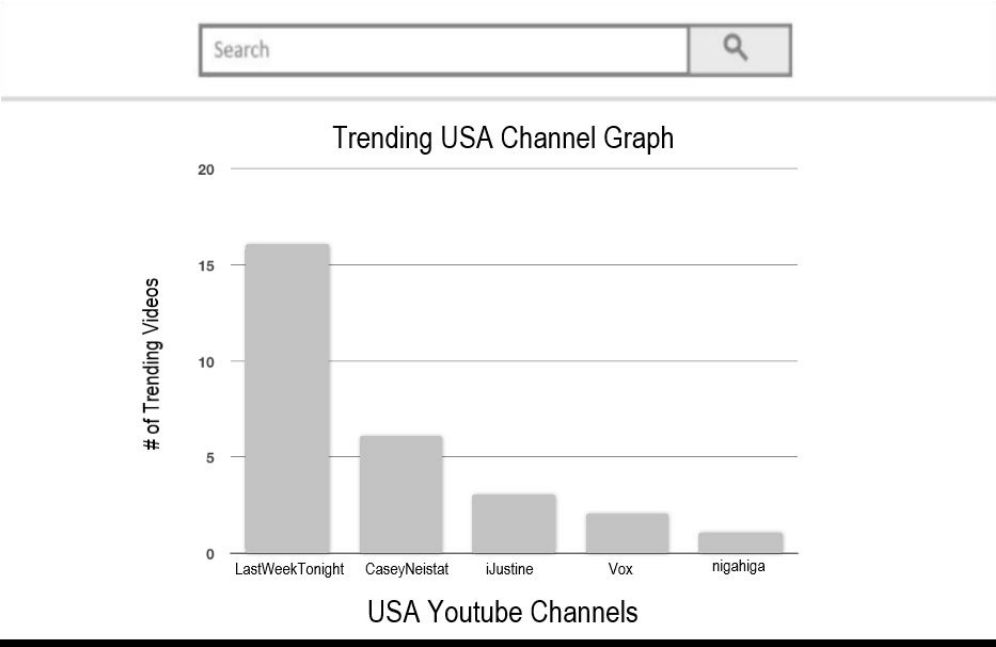
Analytics Features:

1. What category is trending the most across the US?
   a. Bar Graph
   b. Y axis: # of trending videos
   c. X axis: category
2. Do certain channels keep popping up on trending and how often?
   a. Bar Graph
   b. Y axis: # of trending videos
   c. X axis: Channels
3. Top n trending videos
   a. A list of videos, similar to the "Trending" tab on Youtube

GUI Design:

Trending USA Channel Graph

Trending USA Videos

Rank	Video ID	Trending Date	Video Title	Channel Name	Category	Publish Time	Views	Likes	Dislikes	Comment Count	Thumbnail Link	Comments Disabled
1	2ky56SxSYSE	2017-11-14	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	People & Blogs	2017-11-13T17:13:01	748374	57527	2966	15954	https://i.ytimg.com/vi/2ky56SxSYSE/default.jpg	false
2	1ZAPwfrtAFY	2017-11-14	The Trump Presidency: Last Week Tonight with John Oliver (HBO)	LastWeekTonight	Entertainment	2017-11-13T07:30:00	2418783	97185	6146	12703	https://i.ytimg.com/vi/1ZAPwfrtAFY/default.jpg	false
3	5qgjK5DgCt4	2017-11-14	Racist Superman	Rudy Mancuso, King Bach & Lele Pons	Rudy Mancuso	Comedy	2017-11-12T19:05:24	3191434	146033	5339	8181	https://i.ytimg.com/vi/5qgjK5DgCt4/default.jpg	false
4	puqaWrEC7rY	2017-11-14	Nickelback Lyrics: Real or Fake?	Good Mythical Morning	Entertainment	2017-11-12T11:00:04	343168	10172	666	2146	https://i.ytimg.com/vi/puqaWrEC7rY/default.jpg	false
5	d380meD0WOM	2017-11-14	I Dare You: GOING BALD!?	nigahiga	Entertainment	2017-11-12T18:01:41	2095731	132235	1989	17518	https://i.ytimg.com/vi/d380meD0WOM/default.jpg	false
6	gHZ1Qz0KiKM	2017-11-14	2 Weeks with iPhone X	iJustine	Science & Technology	2017-11-13T19:07:23	119180	9763	511	1434	https://i.ytimg.com/vi/gHZ1Qz0KiKM/default.jpg	false
7	39dVpFF7NQ	2017-11-14	Roy Moore & Jeff Sessions Cold Open - SNL	Saturday Night Live	Entertainment	2017-11-12T05:37:17	2103417	15993	2445	1970	https://i.ytimg.com/vi/39dVpFF7NQ/default.jpg	false
8	nc99ccSXST0	2017-11-14	5 Ice Cream Gadgets put to the Test	CrazyRussianHacker	Science & Technology	2017-11-12T21:50:37	817732	23663	778	3432	https://i.ytimg.com/vi/nc99ccSXST0/default.jpg	false
9	jr9Q0XaC9vc	2017-11-14	The Greatest Showman	Official Trailer 2 [HD]	20th Century FOX	20th Century Fox	Film & Animation	2017-11-13T14:00:23	826059	3543	119	340	https://i.ytimg.com/vi/jr9Q0XaC9vc/default.jpg	false
10	TUmyygCMMGA	2017-11-14	Why the rise of the robots won't mean the end of work	Vox	News & Politics	2017-11-13T13:45:16	256426	12054	1363	2368	https://i.ytimg.com/vi/TUmyygCMMGA/default.jpg	false

User Test Cases:

Test Case #	Test Case Description	Test Input	Expected Output
1	Verify that only integers can be input into Top trending n videos input field	Input: hello world	Output: Throw exception, type invalid type
2	Verify that top trending n videos gives you the correct list	Input: n = 500	Output: List of top 500 trending videos based on current filtered data set
3	Verify that top trending n videos input is not greater than dataset	Dataset size = 200 Input: n = 500	Output: Throw exception, n is greater than dataset size, please try an n smaller than the dataset size
4	Verify that top trending channel bar graph gives the correct data	Input: entire dataset	Output: All channels in the dataset along the x axis, and the # of trending videos per channel on the y axis
5	Verify that top trending category bar graph gives the correct data	Input: entire dataset	Output: All categories in the dataset along the x axis, and the # of trending videos per category on x axis
6	Verify category bar graph works with filtered data	Input: channel = Casey Neistat	Output: all categories that belong to Casey Neistat videos along the x axis, and the # of trending videos per category on the x axis

7	Verify channel bar graph works with filtered data	Input: category = Gaming	Output: All of the channels with Gaming videos on the x axis, and the # of trending videos per channel on the y axis

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