VISUAL TRENDS IN US YOUTUBE VIDEOS: EXPLORING CATEGORIES, TAGS, AND ENGAGEMENT

UDACITY PROJECT

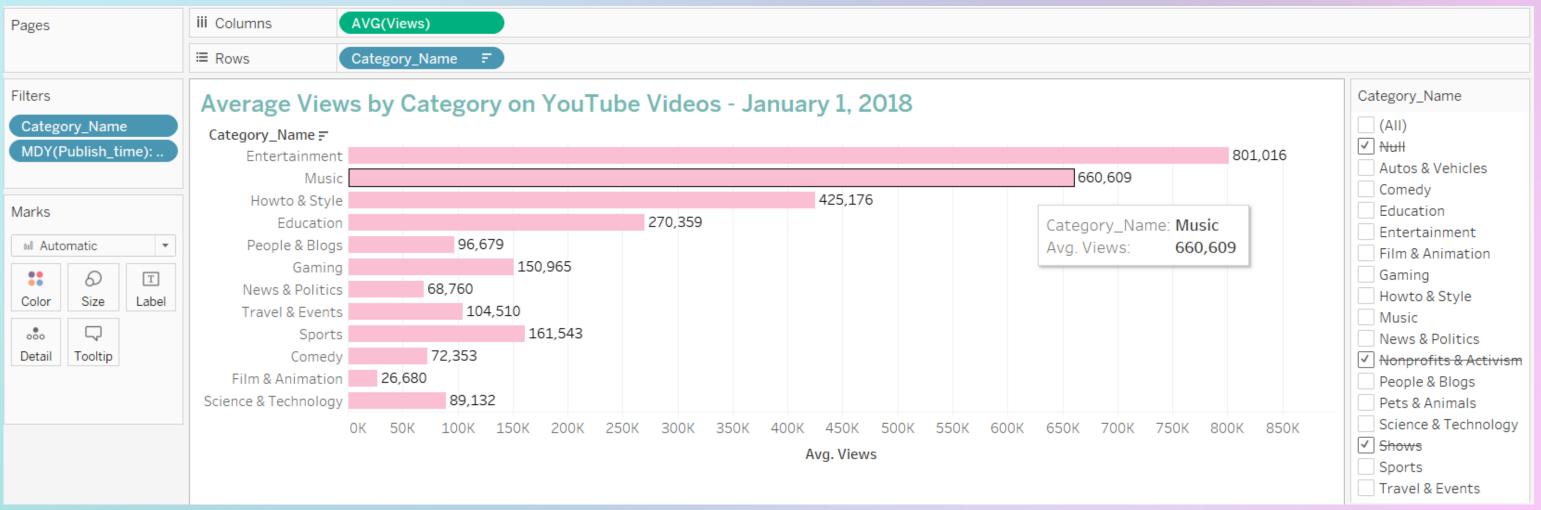
By Sara Alshathri

A sample of the dataset

| Δ Δ | В | C | D | F | F | G | Н | | | K | | M | N | 0 |
|--------------|-------|---------|---------------|-------------------------------------|-----------------------|------------------|----------------|---------------|---------|--------|----------|---------------|----------------------|--------------|
| 1 CITY | STATE | COUNTRY | trending_date | | Channel_title | Category_Name | Publish_time | Tags | Views | Likes | Dislikes | Comment_Count | thumbnail_link | Comments_Dis |
| 2 Covington | KY | USA | 18.25.02 | p Thrills - Sia / Tina Boo Choreogr | 1MILLION Dance Studio | Entertainment | 19/02/18 15:00 | ן"ן"???? | 601159 | 27962 | 336 | 444 | https://i.ytimg.com/ | FALSE |
| 3 Covington | KY | USA | 18.26.02 | p Thrills - Sia / Tina Boo Choreogr | 1MILLION Dance Studio | Entertainment | 19/02/18 15:00 | ן"ן"???? | 627933 | 28580 | 340 | 444 | https://i.ytimg.com/ | FALSE |
| 4 Covington | KY | USA | 18.01.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | า" "?????" " | 384249 | 26271 | 238 | 540 | https://i.ytimg.com/ | FALSE |
| 5 Covington | KY | USA | 18.02.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | า" "?????" " | 513455 | 31505 | 279 | 623 | https://i.ytimg.com/ | FALSE |
| 6 Covington | KY | USA | 18.03.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | ו"ן"?????" " | 607740 | 35180 | 314 | 672 | https://i.ytimg.com/ | FALSE |
| 7 Covington | KY | USA | 18.04.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | ן"ן"???? | 705015 | 38833 | 346 | 724 | https://i.ytimg.com/ | FALSE |
| 8 Covington | KY | USA | 18.05.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | ן"ן"???? | 817753 | 42960 | 396 | 776 | https://i.ytimg.com/ | FALSE |
| 9 Covington | KY | USA | 18.06.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | ן"ן"???? | 896401 | 45386 | 419 | 821 | https://i.ytimg.com/ | FALSE |
| 10 Covington | KY | USA | 18.07.03 | shmello & Anne-Marie / Tina Boo | 1MILLION Dance Studio | Entertainment | 28/02/18 12:00 | ן"ן"???? | 992294 | 48246 | 453 | 854 | https://i.ytimg.com/ | FALSE |
| 11 Covington | KY | USA | 18.08.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ו" "???? | 210802 | 17499 | 134 | 644 | https://i.ytimg.com/ | FALSE |
| 12 Covington | KY | USA | 18.09.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ղ" "????" " | 307249 | 21782 | 214 | 762 | https://i.ytimg.com/ | FALSE |
| 13 Covington | KY | USA | 18.10.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ղ" "????" " | 352080 | 23638 | 240 | 850 | https://i.ytimg.com/ | / FALSE |
| 14 Covington | KY | USA | 18.11.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ן"ן"???? | 383303 | 25171 | 254 | 857 | https://i.ytimg.com/ | FALSE |
| 15 Covington | KY | USA | 18.12.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ן"ן"???? | 412464 | 26520 | 259 | 882 | https://i.ytimg.com/ | FALSE |
| 16 Covington | KY | USA | 18.13.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ן"ן"???? | 435235 | 27525 | 267 | 894 | https://i.ytimg.com/ | FALSE |
| 7 Covington | KY | USA | 18.14.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ן"ן"???? | 460474 | 28351 | 267 | 905 | https://i.ytimg.com/ | FALSE |
| 18 Covington | KY | USA | 18.15.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ן"ן"???? | 479904 | 29124 | 276 | 920 | https://i.ytimg.com/ | FALSE |
| 19 Covington | KY | USA | 18.16.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ן"ן"???? | 502910 | 29945 | 283 | 919 | https://i.ytimg.com/ | FALSE |
| 20 Covington | KY | USA | 18.17.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ו" "???? | 524875 | 30756 | 284 | 919 | https://i.ytimg.com/ | FALSE |
| 21 Covington | KY | USA | 18.18.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ղ" "????" " | 547743 | 31489 | 288 | 919 | https://i.ytimg.com/ | FALSE |
| 22 Covington | KY | USA | 18.19.03 | Greatest Showman OST / Jun Liu | 1MILLION Dance Studio | Entertainment | 07/03/18 15:00 | ղ" "????" " | 564951 | 32030 | 292 | 928 | https://i.ytimg.com/ | FALSE |
| 23 Orlando | FL | USA | 17.14.11 | owman Official Trailer 2 [HD] 2 | 20th Century Fox | Film & Animation | 13/11/17 17:00 | rouge" "hiɛ | 826059 | 3543 | 119 | 340 | https://i.ytimg.com/ | FALSE |
| 24 Orlando | FL | USA | 17.15.11 | owman Official Trailer 2 [HD] 2 | 20th Century Fox | Film & Animation | 13/11/17 17:00 | rouge" "hiɛ | 2671756 | 12699 | 505 | 1010 | https://i.ytimg.com/ | FALSE |
| 25 Orlando | FL | USA | 17.16.11 | Deadpool's "Wet on Wet" Teaser | 20th Century Fox | Film & Animation | 15/11/17 17:01 | sical Artist) | 3979891 | 151850 | 2378 | 8079 | https://i.ytimg.com/ | FALSE |
| Orlando | FI | USA | 17.17.11 | Deadpool's "Wet on Wet" Teaser | 20th Century Fox | Film & Animation | 15/11/17 17:01 | sical Artist) | 6659676 | 223821 | 4515 | 11792 | https://i.ytimg.com/ | FALSE |

Note: I have substituted the "Category_ID" column with the corresponding Category names. Additionally, I have applied a filter to all my charts, limiting the data displayed to the year 2018.

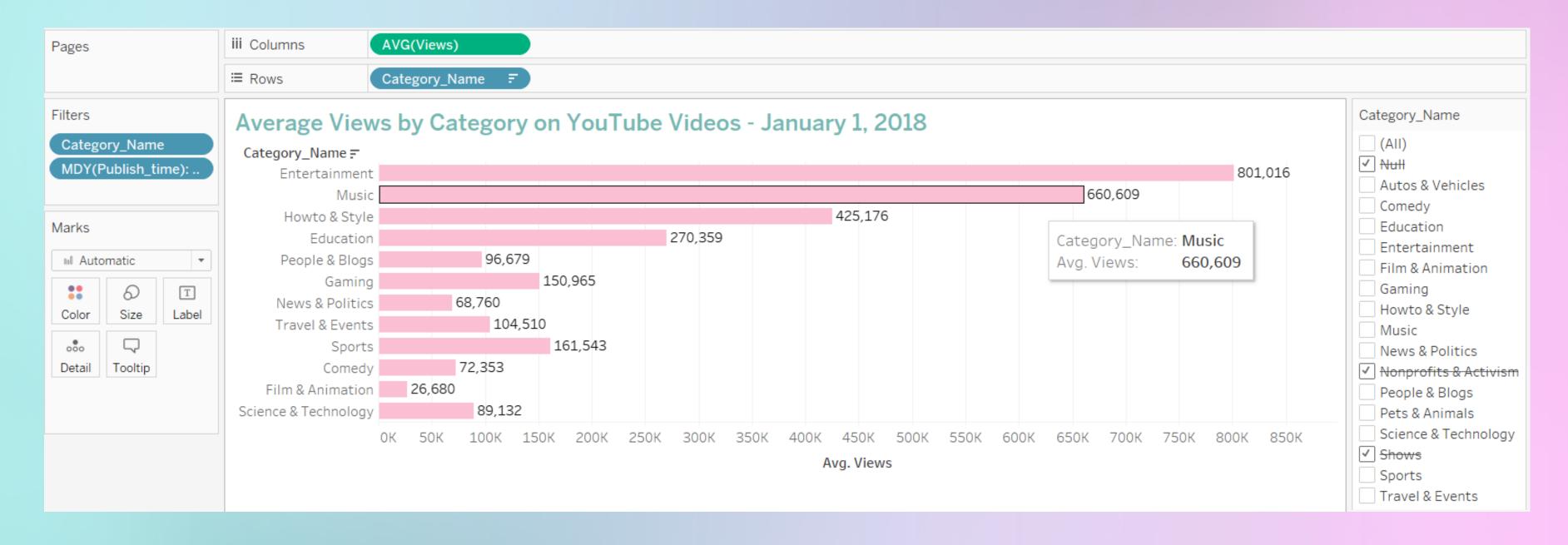
Which YouTube video categories attained the highest average views on January 1, 2018?



Based on the horizontal bar chart illustrating the average views of each category in YouTube videos on January 1, 2018, it becomes apparent that the "Entertainment" category secured the highest average number of views compared to all other categories. The "Music" category closely followed with an average of 660,609 views, potentially driven by the festive spirit of the new year. This inclination towards entertainment and music aligns with the desire for content that enhances celebratory moments.

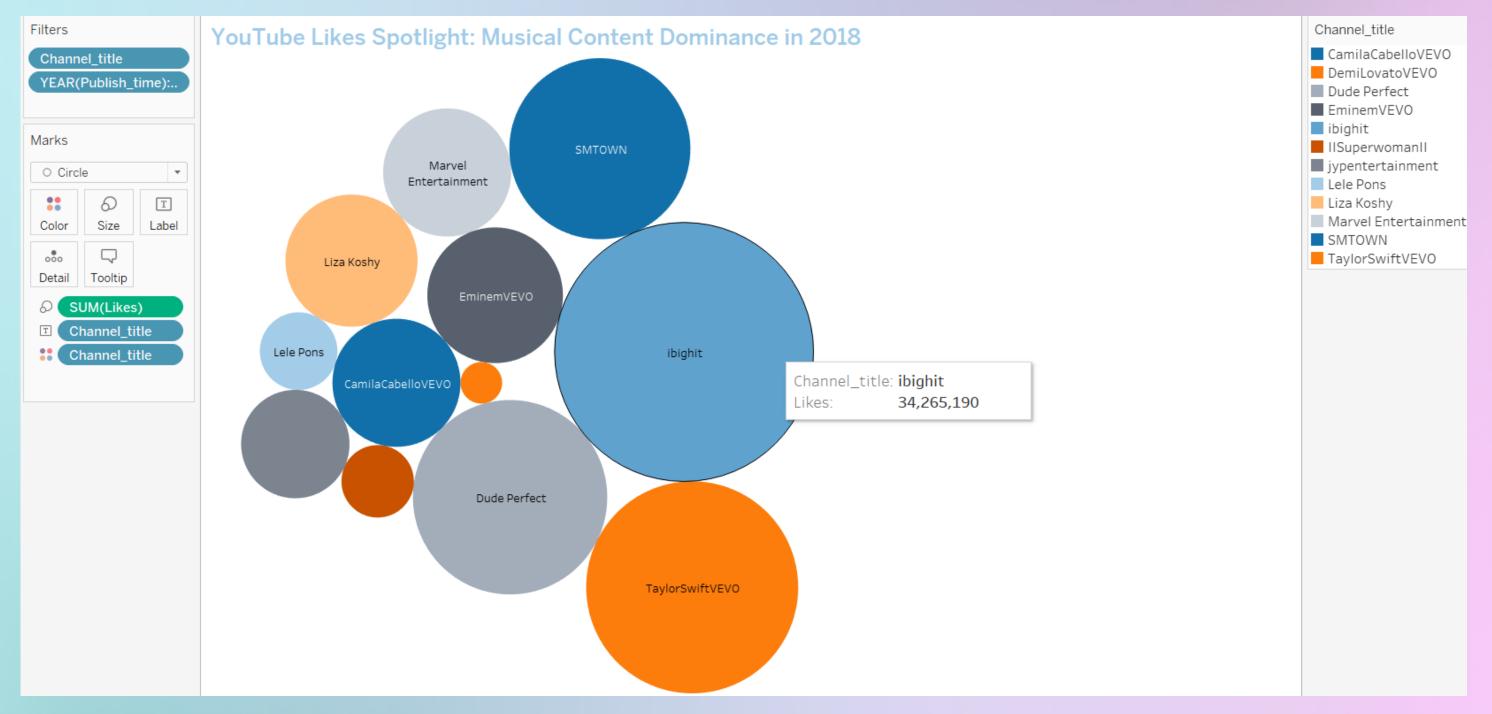
Design Choices: In selecting the horizontal bar chart for representation, the intention was to effectively visualize the average views attributed to each category on the first day of 2018. As categorical data, the horizontal bar chart offers a clear and concise portrayal of this information. Additionally, a pink color palette was deliberately chosen for its reader-friendly and visually harmonious qualities, enhancing the overall presentation.

After the filter has been applied



I have applied a filter to the first visualization, resulting in the exclusion of the "Shows" and "Nonprofits & Activism" categories from the chart.

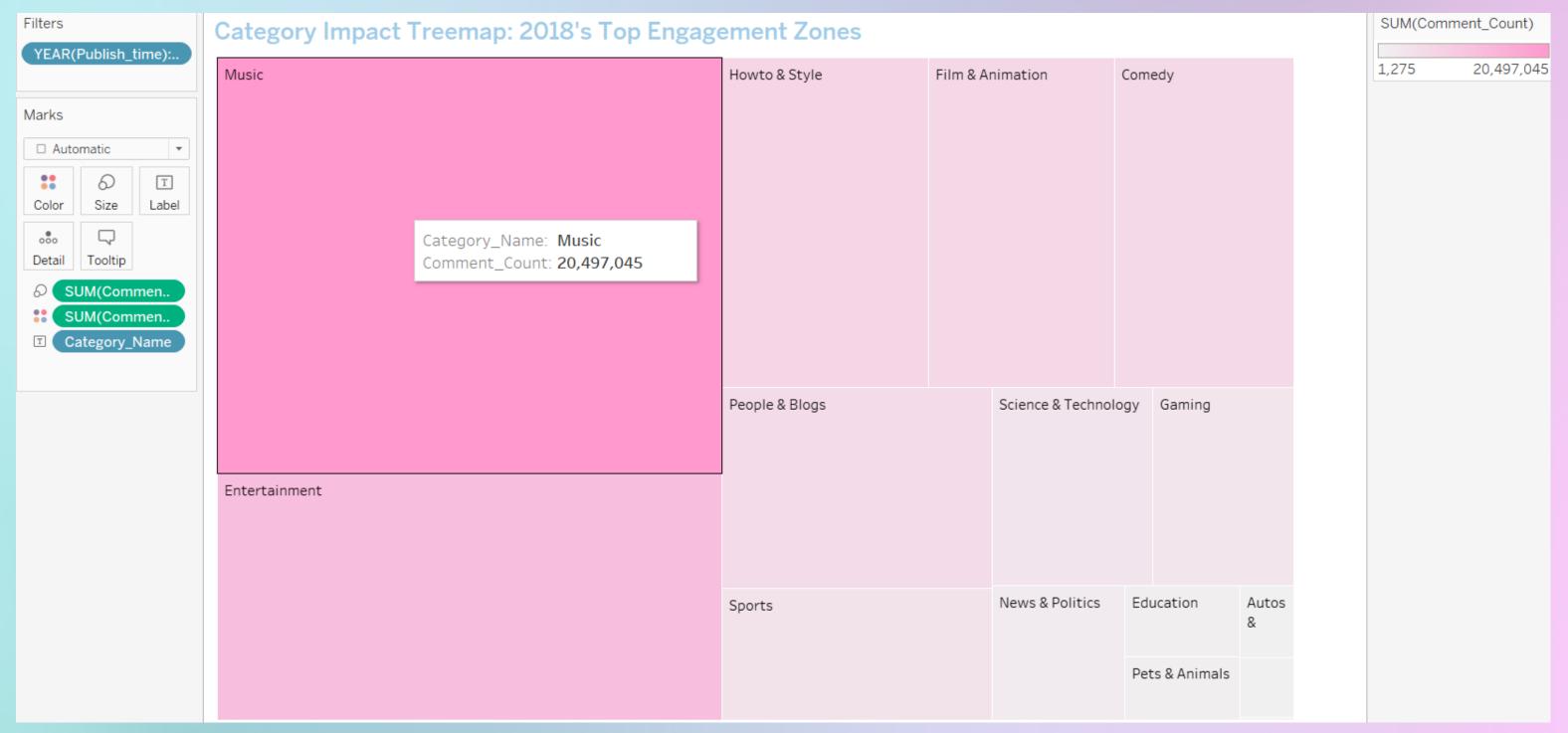
Which YouTube Channel has the highest number of likes in 2018?



In the packed bubble chart, 2018 witnessed a significant increase in likes for the Ibighit channel, recognized for its music content, displaying an impressive 34,265,190 likes when hovering over its bubble. Another prominent music channel, TaylorSwiftVEVO, closely follows with high likes. This emphasizes the dominance of the "Music" category on YouTube, highlighting viewers' strong preference for musical content.

Regarding the design, I chose the packed bubble chart due to its appropriateness for categorical data. Larger bubbles indicate higher like counts. I selected the "Color blind" palette to provide a warm and user-friendly visual experience, suitable for individuals with colorblindness

Which category had the highest number of comments in 2018?



Illustrated within the treemap, the year 2018 witnessed the highest comment counts in three prominent categories: Music, Entertainment, and How to Style. When hovering over the "Music" category, it is evident that it garnered a substantial 20,497,045 views. This observation might

be attributed to the universal love for music, transcending geographical and cultural boundaries, among other potential factors.

Design Choice: I have opted for the treemap chart due to its perfect alignment with this type of data. In this chart, the size of the square and the intensity of color directly correlate with the comment count, creating an intuitive visual representation.

The dashboard

