Project 1 Findings

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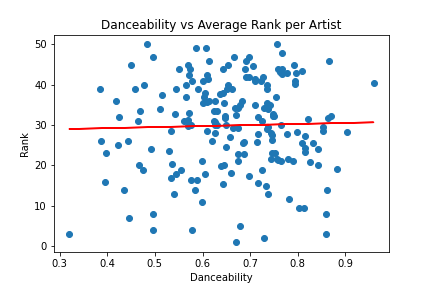
**Overall Findings**

**Findings by Question**

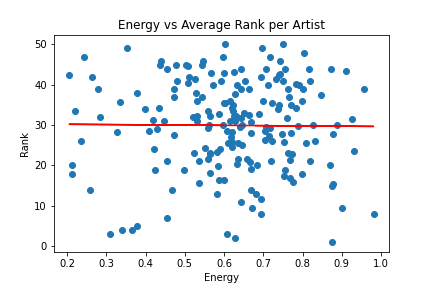
**Question 1: Is there a relationship between “musicalities” and rank?**

*Process*: For this analysis, song rank was compared to various musicalities for the top 10 (artists or songs). Musicalities includes energy, danceability, tempo, loudness, etc.

*Related Plots and Findings*:

1. 

It appears there may be a very weak positive correlation between danceability and rank suggesting lower ranked songs (farther away from 1) may have more danceability.

1. 

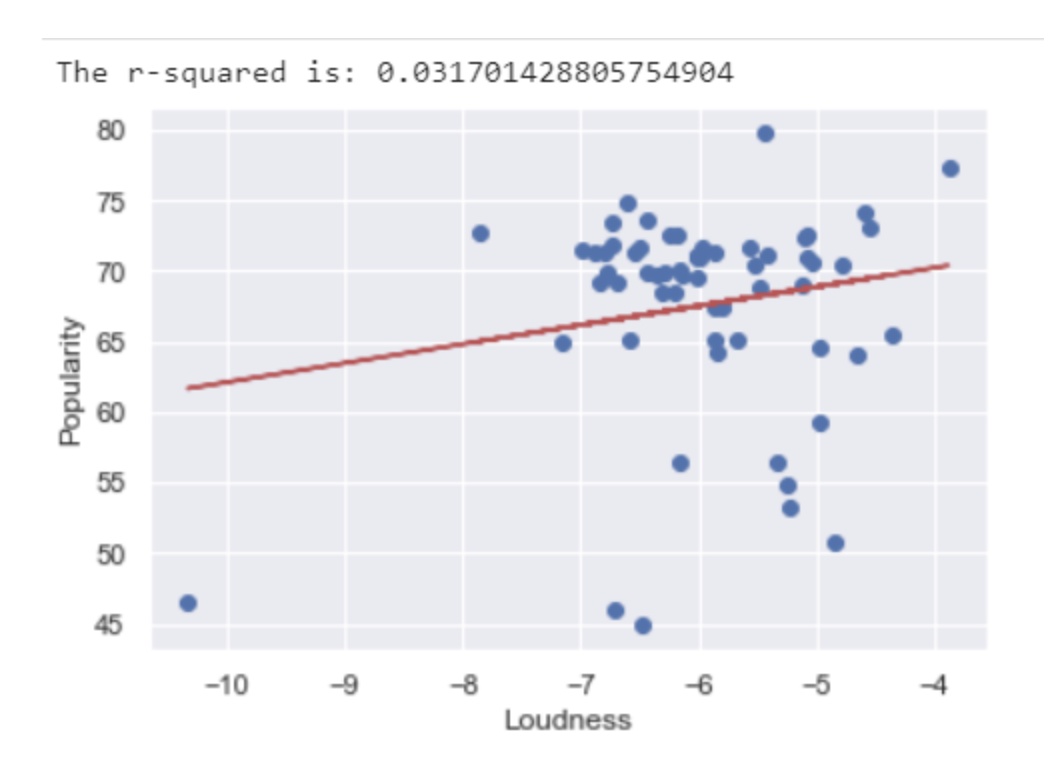
Findings: There appears to be a weak negative correlation between energy and popularity, suggesting higher ranked songs (being closer to 1) may have more energy.

*Overall Analysis*: We did not see strong correlations between artist rank, danceability and energy. We also did not see any clear clusters between either musicalities in the data sets.

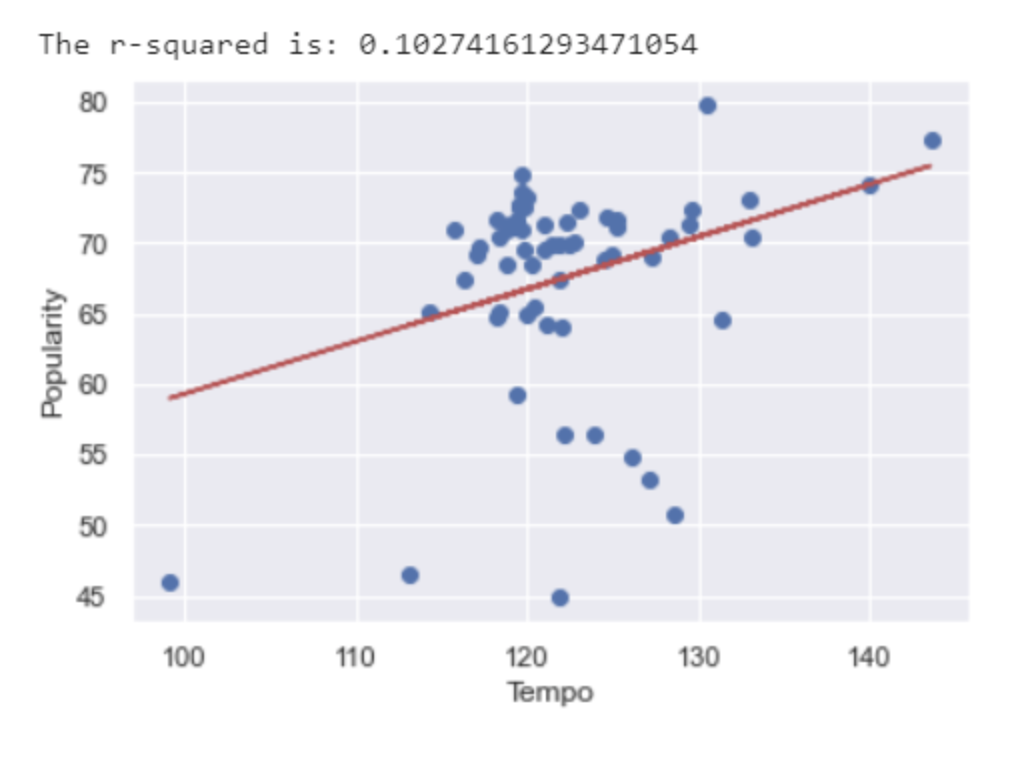
**Question 2: Is there a relationship between “musicalities” and popularity across countries?**

*Process*: Compared popularity to various musicalities for the top 10. Musicalities includes energy, tempo, loudness, etc.

*Related Plots and Findings*:

1. 

Findings: It appears there may be a positive correlation between loudness and popularity.

1. 

Findings: There appears to be a positive correlation between tempo and popularity. Looking further into the cluster would be interesting.

1. 

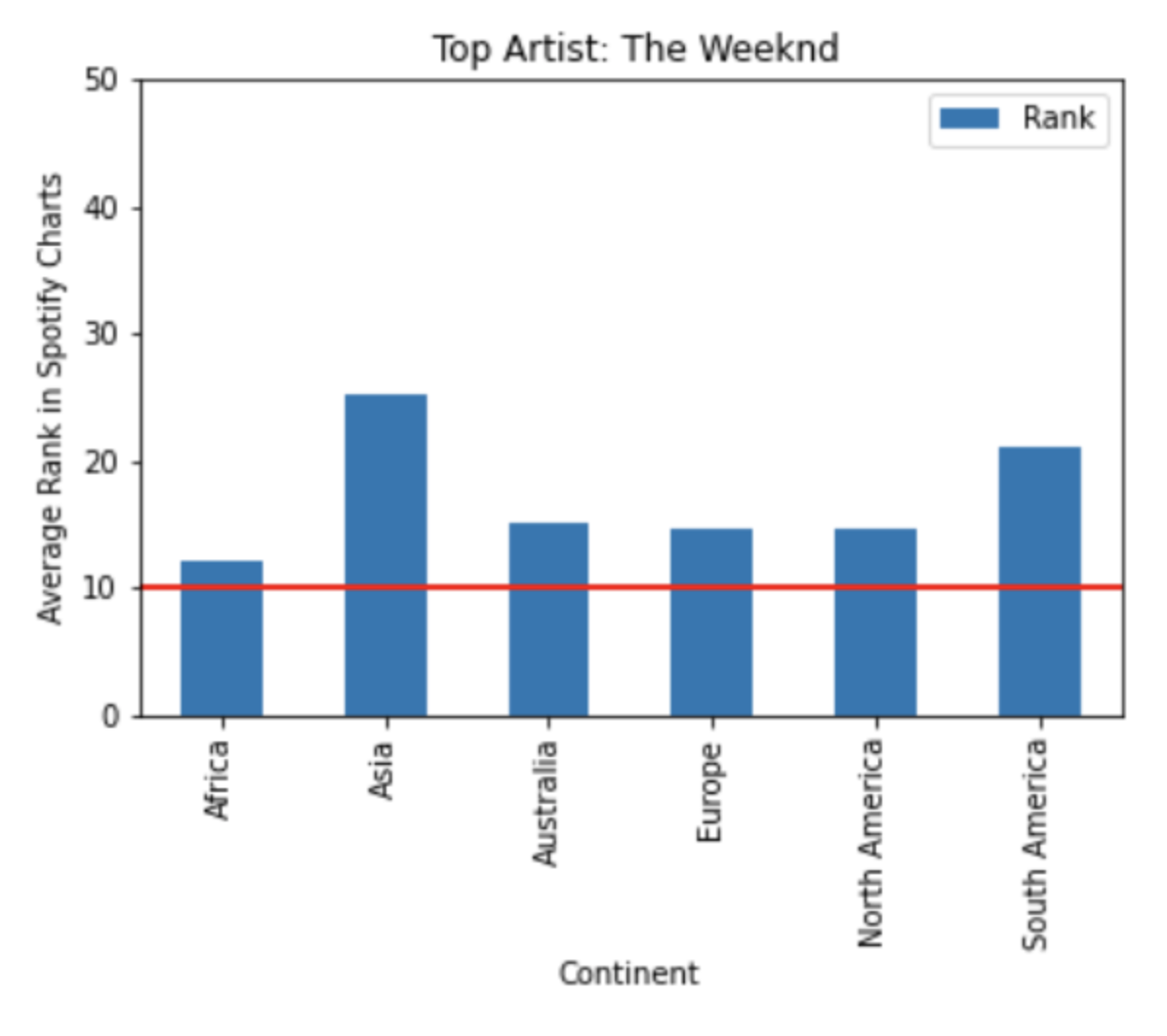
Findings: There appears to be a weak negative correlation between valence and popularity.

*Overall Analysis*: When looking at music “likability” across countries, both Tempo and song Loudness seems to correlate with a song’s popularity. Tempo is clustered around 120bpm and loudness between -7 and -6. Valence, a ranking if a song is happy (higher valence) or sad (lower valence), doesn’t seem to have a strong correlation across countries by popularity and there doesn’t seem to be any apparent valence clusters.

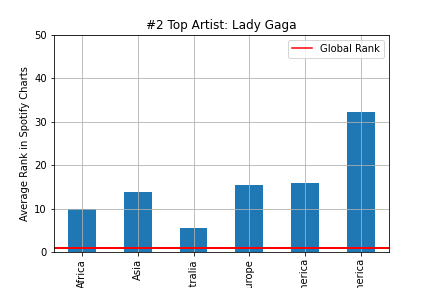
**Question 3: How does top artists’ rank across continents compare to their global rank?**

*Process*: Looked at individual top artists’ ranks in each continent in which they are ranked compared to how they are ranked globally.

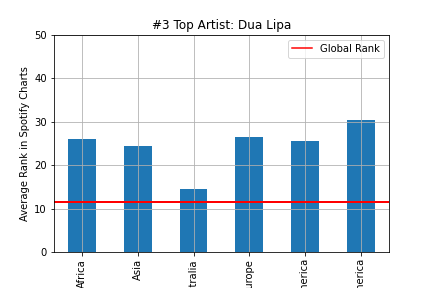
*Related Plots and Findings*:

1. 

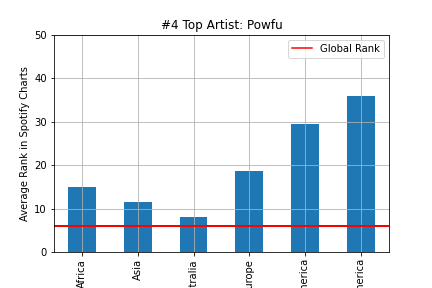
Findings: In this case, it appears the Weeknd is ranked higher globally (10) than in any continent. Would be worth looking into global ranking methodology



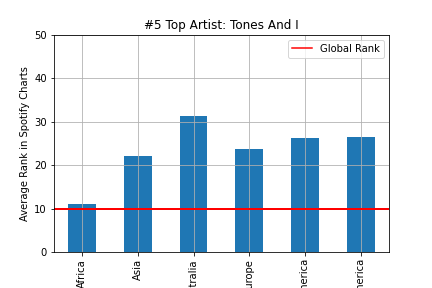
1. Findings: Lady Gaga ranked well in Australia and Africa but ranked above 30 in South America.



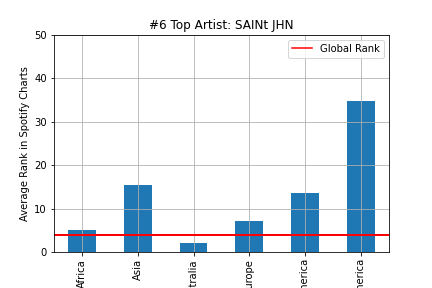
1. Findings: Dua Lipa globally ranked in the top 20 but was in the 20 – 30 range across all continents except for Australia.



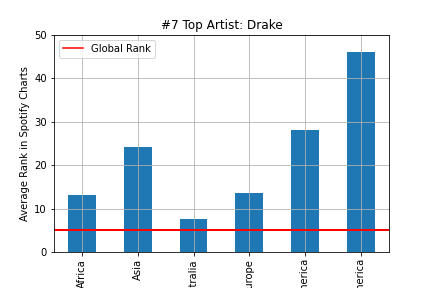
1. Findings: Powfu ranked well in Africa, Asia and Australia but ranked worst in North and South America.



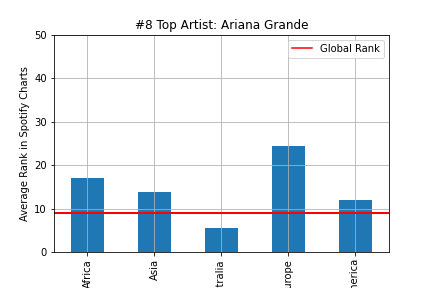
1. Findings: Tones and I ranked well in Africa with a global ranking around 10 but averaged between 20 and 30 for the remainder continents.



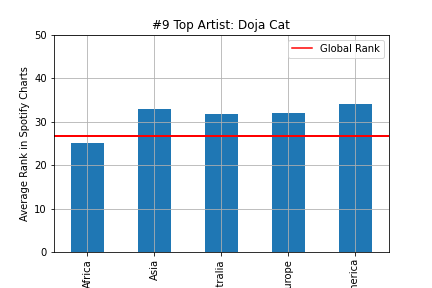
1. Findings: SAINT JHN ranked better across continents compared to the previous 5 artists noted above but shoots to roughly 35 in South America.



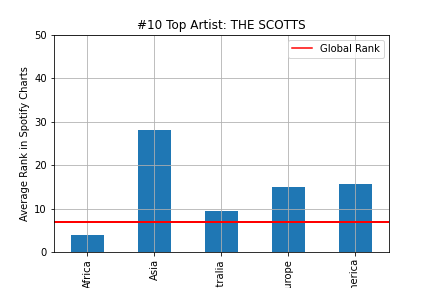
1. Findings: Drake ranked the worst in South America compared to all top 10 artists but, globally, he is one of the top performers.



1. Findings: Ariana Grande was one of the best ranked in North America.



1. Doja Cat ranked worst both globally and across most continents compared to other artists.



1. The Scotts ranked very well in Africa and, globally, is one of the best ranked arists.

*Overall Analysis*: ADD

Instructions for our reference—to delete when done:

Create a write-up summarizing your major findings. This should include a heading for each "question" you asked of your data, and under each heading, a short description of what you found and any relevant plots.