

Assignment 4

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1. State the region and the domain category that your data sets are about (e.g., Chaohu, China and sports or athletics).

World, worldwide and music

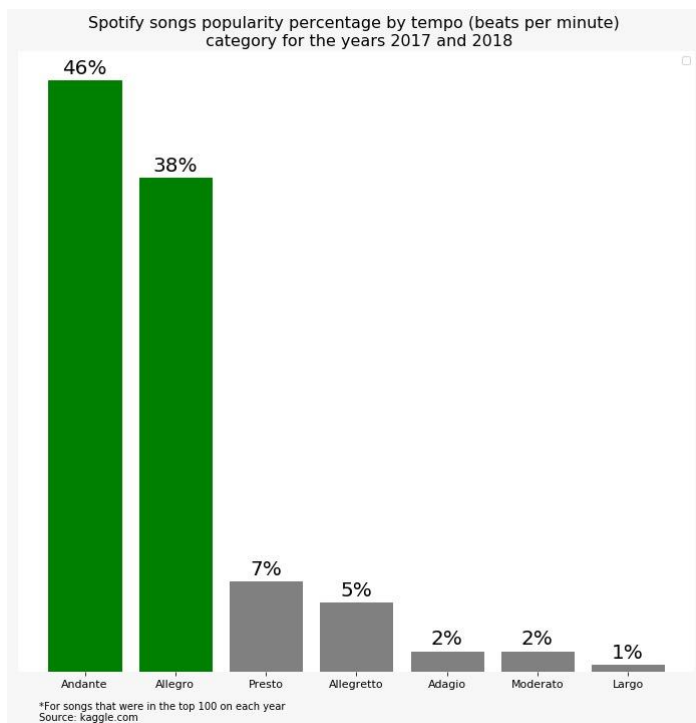
2. Create a research question about the domain category and region that you identified.

How popular songs around the world are based on their beats per minute?

3. Provide at least two links to publicly accessible datasets. These could be links to files such as CSV or Excel files, or links to websites which might have data in tabular form, such as Wikipedia pages.

- a. <https://www.kaggle.com/nadintamer/top-spotify-tracks-of-2018>
- b. <https://www.kaggle.com/nadintamer/top-tracks-of-2017>

4. Upload an image which addresses your research question, and in addition to addressing your research question, this visual should address Cairo's principles of truthfulness, functionality, beauty, and insightfulness.



5. Provide a short (1-2 paragraphs) justification of how your visual addresses your research question.

The visualization was concerned with answering the question of how popular songs around the world are based on their beats per minute. It was searched on Kaggle datasets available for this, respecting to spotify Top 100 song list for the years 2017-2018. Then I did some research to know more about beats per minutes and encounter they were defined by something called Tempo, I organized the dataset in order to get the Tempo categorical data per song.

The plot indicates for each Tempo type the amount of popular songs by percentage of the songs that were in the top 100 list by the years 2017 and 2018, it also shows the two most popular songs based on Tempo, these two years were appended because what is intended is not the difference between the years and which kind of tempo is greater than the other one and so, but popularity based on tempo.

6. As this assignment is for the whole course, you must incorporate and defend the principles discussed in the first week, specifically, Cairo's principles of truth, beauty, function, and insight.

For each of the following prompts, please provide a response that links each principle to one or more elements of your visual.

- Describe your design choices for your visual in regards to Cairo's principle of **truthfulness**.
 - Describe your design choices for your visual in regards to Cairo's principle of **beauty**.
 - Describe your design choices for your visual in regards to Cairo's principle of **functionality**.
 - Describe your design choices for your visual in regards to Cairo's principle of **insightfulness**.
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- The data was collected on Kaggle a trust worthy platform for acquiring datasets, also they were using Spotify API.
 - Colors easy to read and simple.
 - Does what intended.
 - The most popular two have colors, to identify the ones that are more popular and are green because of Spotify colors.