

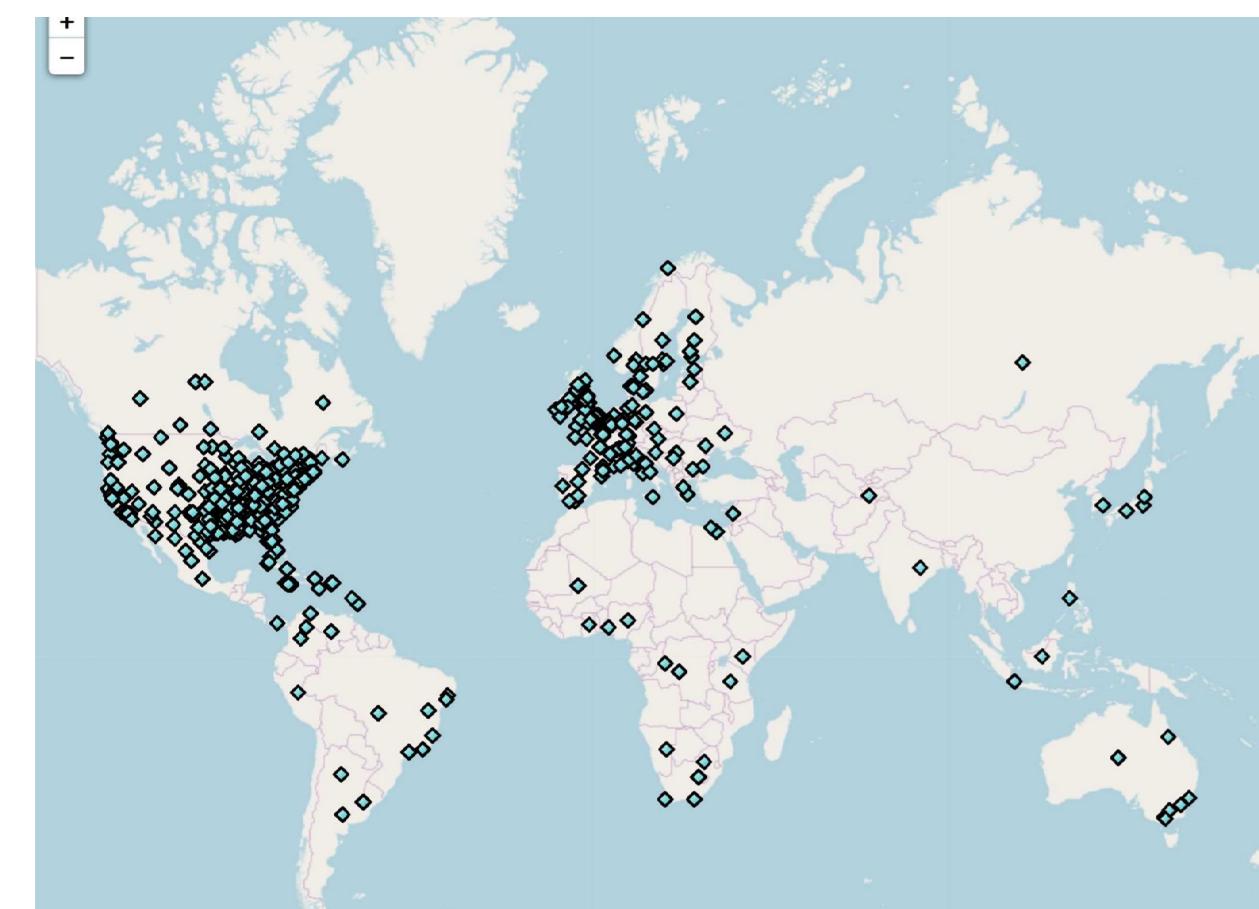
# The Evolution Of Music Genres Through Time and Space

# Data Preprocessing

The MillionSong dataset is a collection on the metadata of a million songs from 1920 to 2010. Let's have a quick look at this data !



# Distribution of the songs in the world:

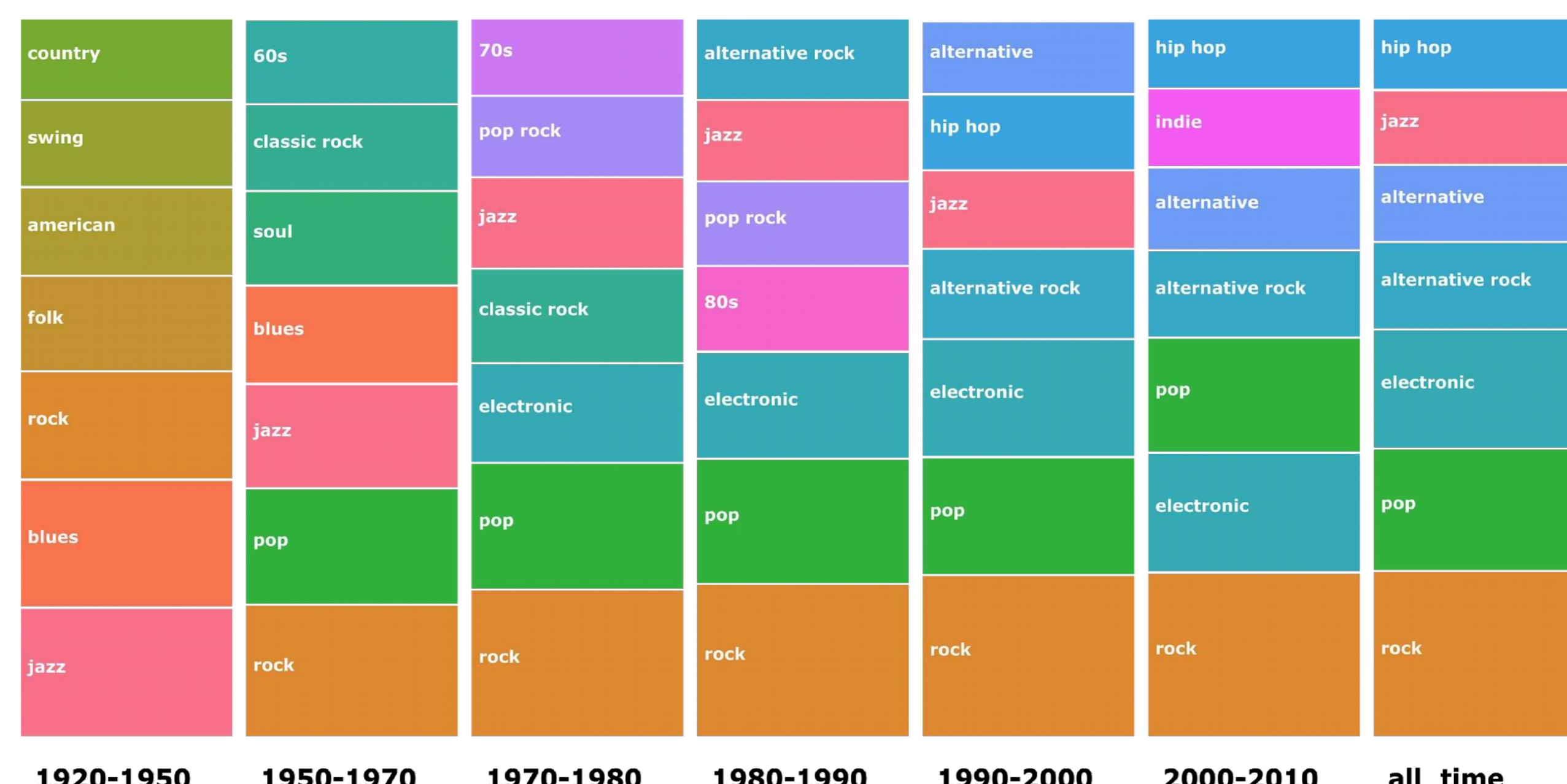


The dataset we have does not contain the genre of the music. The additional datasets containing the genres of the songs are only limited to a few hundred thousands of songs so we would lose a lot of data. We decide to cluster the tags into main genres when they often appeared together. Here are a few examples of the clustering :

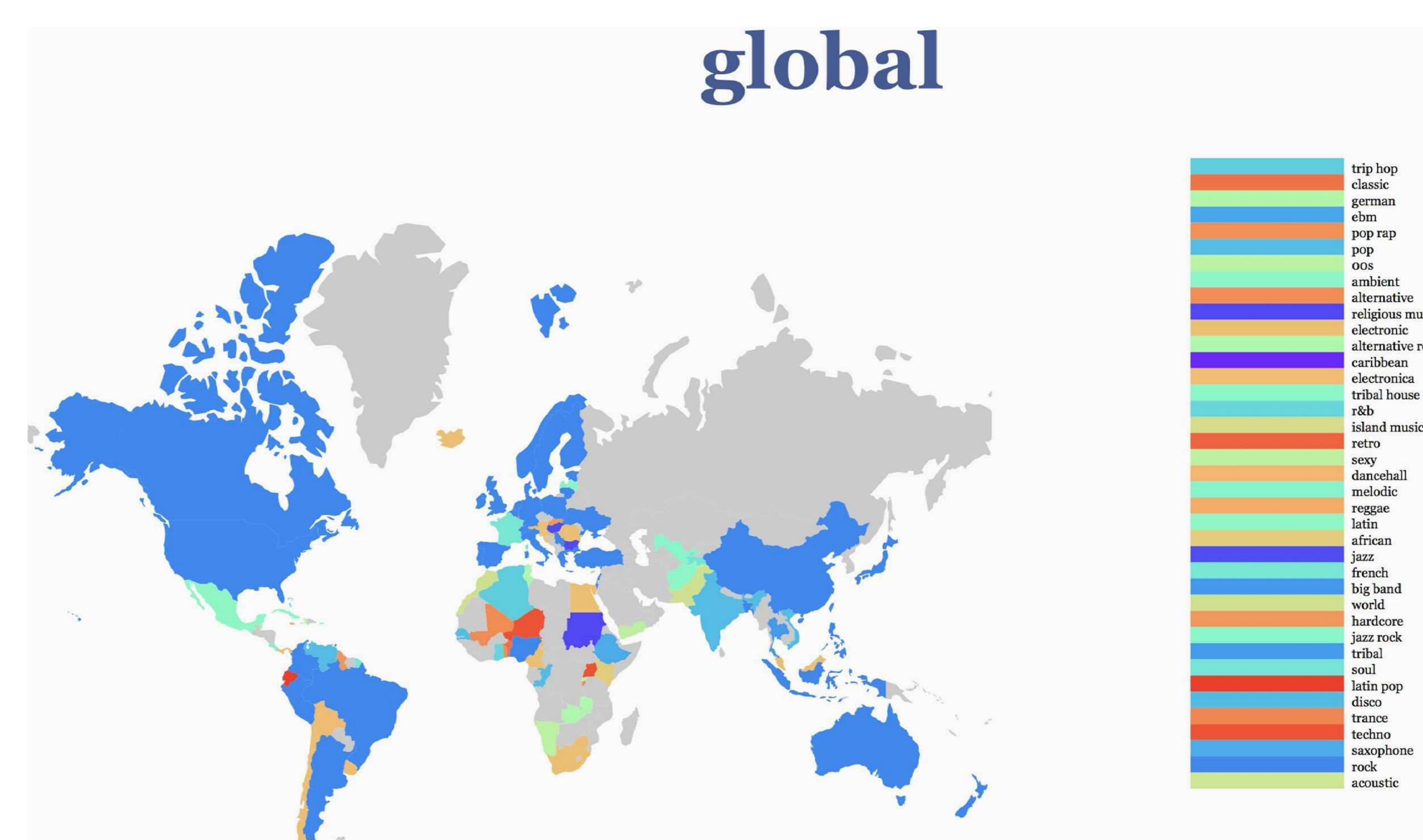


# Genre Evolution

Using the genre derived with the clustering of tags, we measured the importance of each genre for different time periods. Below, we show the 7 main tags evolution. We observed that genres such as rock took more and more importance as other genres such as blues disappeared.



Then we computed the main genre for each country and for each time period and plotted it on an interactive map. For the legend, we assigned the most different colors to the 10 most important genre.

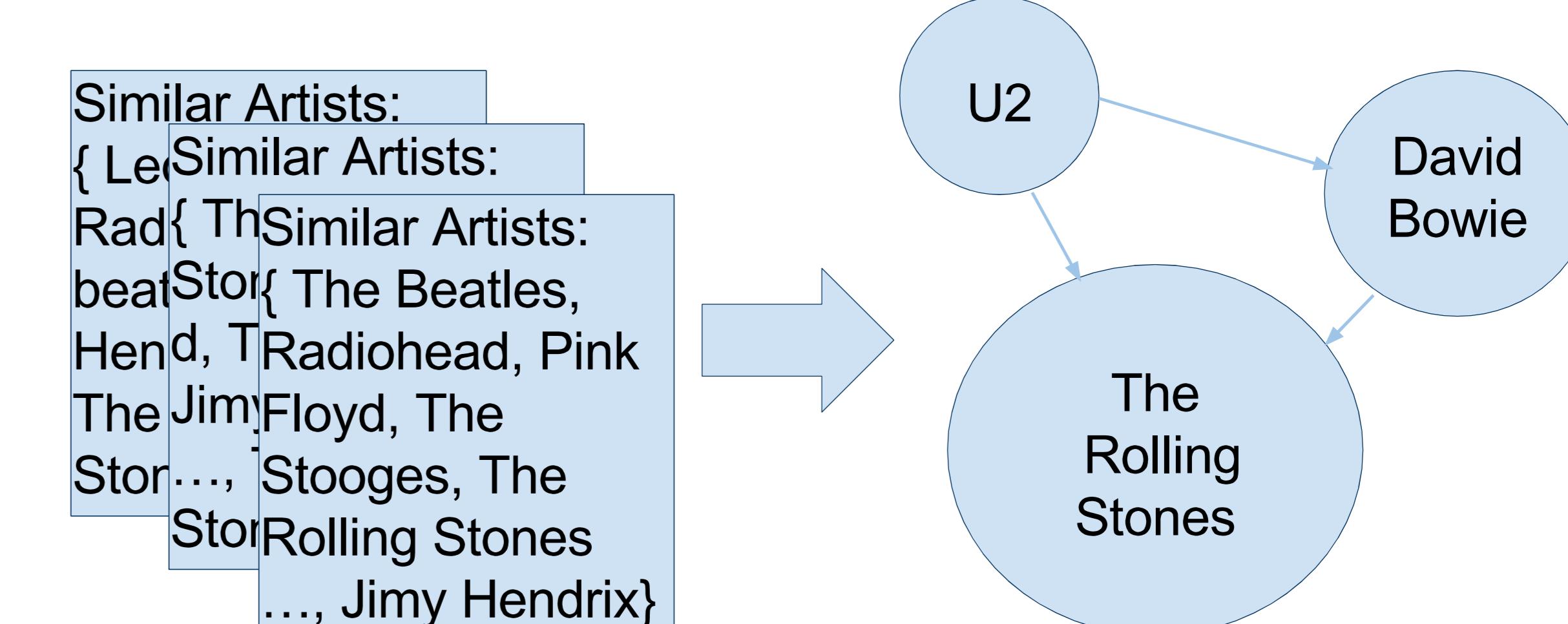


The interactive visualization can be found at : [www.radiantkeen.com](http://www.radiantkeen.com)

<http://dindon.cool/ada-site/>

# Influencers Evolution

The final aim of our project was to find main influencers for a given genre during different periods. We implemented a modified version of the famous algorithm of PageRank.



# Who are the Rock influencers?



From jazz in the 20's to electronic in the beginning of the 21st century, the music genres has evolved throughout time and space. Despite the limited efficiency of our ranking approach, we also have seen who are the main actors of these tendencies.