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Analysis of the music Ukrainians listened to before and after the full scale invasion

Our team decided to analyze how top music charts changed **10 months before the full scale invasions, after it and up until now.**

The data was taken from the audio and media streaming service “Spotify”. It consists of **top-200** songs of every week from April of 2021 till December of 2022

Preview of our data:

rank	uri	artist_names	track_name	source	peak_rank	previous_rank	weeks_on_chart	streams
1	spotify:track:2jkyPvk1nbpsZD0KAS98Zw	ThxSoMch	SPIT IN MY FACE!	ThxSoMch	1	1	3	225677
2	spotify:track:61BaxM1NlcadLu3gtWm2uT	SadSvit, СТРУКТУРА ЦАСТЯ	Оилуєти	Svit music	1	2	5	204662
3	spotify:track:3XOcTnlA8aGpl8h76eH7N	zxcursed	mana break	A+	2	3	7	120699
4	spotify:track:4Yziz45QgJlKZmN2KtK4AP	Skofka	Чути гімн	Columbia Local	1	5	18	117705
5	spotify:track:6qyS9qBy0mEk3qYaH8mPas	Kordhell	Murder In My Mind	Kordhell	3	8	33	99015
6	spotify:track:3nqQXoyQOWXIESFLIDF1hG	Sam Smith, Kim Petras	Unholy (feat. Kim Petras)	EMI	1	9	10	96137
7	spotify:track:2ksyzVtU0WJoBpu8otr4pz	INTERWORLD	METAMORPHOSIS	INTERWORLD	7	13	20	90157
8	spotify:track:37F7E7BKEw2E4O2L7u0IEp	Freddie Dredd	Limbo	Doomshop Records/RCA Records	8	12	5	85420

The idea is to analyze to which nation the artist belongs and based on this information test how trends changed. We also have nations for every artist mentioned in our dataset

artists_with_nations	
artist	nation
Sam Smith, Kim Petras	EN
INSTASAMKA	RU
Skofka	UA
Kordhell	EN

Since we are only interested in whether the artist is from Russia, Ukraine or from another country we marked their nationalities RU, UA and EN respectively.

Our main hypothesis is that before the full scale invasion the number of Russian performers in the

Ukrainian charts grew. Right after the invasion it fell, and now the tendency is restoring. We suppose, we'll also be able to notice how much time, Ukrainians spend listening to music: whether it increased or decreased since the 24th of February. We also expect to see an interesting increase in the number of auditions of Ukrainian performers during such events as the Eurovision etc.

We could also derive the correlation between time spent on Spotify, or popularity of Russian performers and other factors. For example the air alarms could affect the numbers. Or massive attacks on the infrastructure.

Data source: <https://charts.spotify.com/home>

Git repository: <https://github.com/MatthewPr12/SpotTheDifference>