

```

import pandas as pd

import streamlit as st

import plotly.express as px

import matplotlib.pyplot as plt


st.set_page_config(page_title="Spotify songs dashboard", layout="wide")


@st.cache_data
def load_data():
    return pd.read_csv("Popular_Spotify_Songs.csv" , encoding='latin-1')


df = load_data()

df["streams"] = pd.to_numeric(df["streams"], errors="coerce")


st.title("Popular Songs Spotify")


st.sidebar.header("Filtros")

year_filter = st.sidebar.multiselect("Año",
options=df['released_year'].sort_values(ascending=False).unique(),
default=df['released_year'].sort_values(ascending=False).unique())

artistNumber_filter = st.sidebar.multiselect("Numero de artistas",
options=df['artist_count'].unique(),
default=df['artist_count'].sort_values(ascending=False).unique())

filtered_df = df[(df['artist_count'].isin(artistNumber_filter)) & (df['released_year'].isin(year_filter))]


#KPI

total_tracks = len(df)

```

```
total_unique_artists = (df["artist(s)_name"].str.split(",").explode().str.strip().nunique())
top10_tracks=df.sort_values(by="streams" , ascending=False).head(10)
```

```
col1, col2 , col3 = st.columns(3)
col1.metric("Total de canciones", total_tracks)
col2.metric("Total de artistas", total_unique_artists)
```

```
col1, col2 = st.columns(2)
```

with col1:

```
year_count = df["released_year"].value_counts()
plt.figure(figsize=(6,4))
fig1 = px.bar(
    year_count
)
st.plotly_chart(fig1,use_container_width=True)
```

with col2:

```
fig2 = px.pie(filtered_df, names="artist_count", title="Por número de artistas")
st.plotly_chart(fig2, use_container_width=True)
```

#Renombrado de columnas

```
df_renamed_columns = df.rename(columns={
    "track_name": "Canción",
    "artist(s)_name": "Artistas",
    "released_year": "Año de lanzamiento",
```

```

        "streams":"Reproducciones"
    })

st.subheader("Top 10 más reproducidas")

st.dataframe(df_renamed_columns.sort_values(by="Reproducciones",
ascending=False)[["Canción", "Artistas", "Año de lanzamiento", "Reproducciones"]].head(10),
use_container_width=True)


top_tracks_data = pd.DataFrame({
    "Canción": top10_tracks["track_name"],
    "Reproducciones": top10_tracks["streams"]
})


fig3 = px.pie(
    top_tracks_data,
    names="Canción",
    values="Reproducciones",
)

st.plotly_chart(fig3, use_container_width=True)

```

Filtros

Año

2... x

2... x

2... x

2... x

x

v

Numero de artistas

8 x

7 x

6 x

5 x

x

v

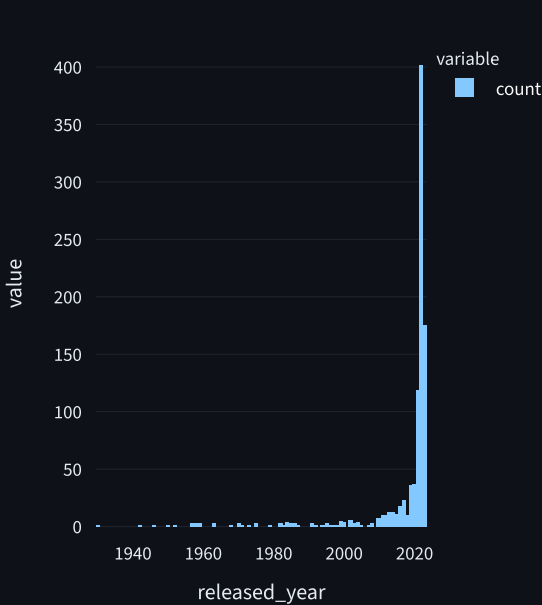
Popular Songs Spotify

Total de canciones

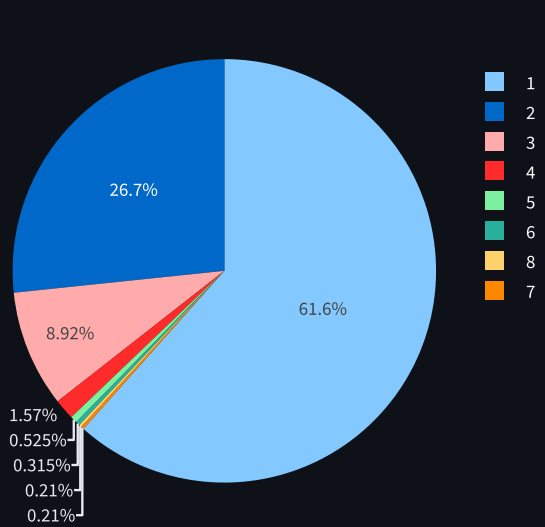
953

Total de artistas

699



Por número de artistas



Top 10 más reproducidas

	Canción	Artistas	Año de lanzamiento	Reproducciones
55	Blinking Lights	The Weeknd	2019	3703895074
179	Shape of You	Ed Sheeran	2017	3562543890
86	Someone You Loved	Lewis Capaldi	2018	2887241814
620	Dance Monkey	Tones and I	2019	2864791672
41	Sunflower - Spider-Man: Into the Spider-Verse	Post Malone, Swae Lee	2018	2808096550
162	One Dance	Drake, WizKid, Kyla	2016	2713922350
84	STAY (with Justin Bieber)	Justin Bieber, The Kid Laroie	2021	2665343922
140	Believer	Imagine Dragons	2017	2594040133
725	Closer	The Chainsmokers, Halsey	2016	2591224264
48	Starboy	The Weeknd, Daft Punk	2016	2565529693

