

# WorldHits

September 12, 2024

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[15]: import pandas as pd
import plotly.express as px

# Cargar el dataset
df = pd.read_csv('/home/zatiel/Descargas/WorldHits.csv')

# Limpiar los nombres de las columnas
df.columns = df.columns.str.strip()

# Imprimir los nombres de las columnas
print("Nombres de las columnas:", df.columns.tolist())

# Imprimir las primeras filas del DataFrame
print("Primeras filas del DataFrame:")
print(df.head())

# Verificar si las columnas 'danceability', 'energy' y 'track_name' están
↪ presentes
missing_columns = []
for col in ['Danceability', 'Energy', 'Track']:
    if col not in df.columns:
        missing_columns.append(col)

if missing_columns:
    print("Las siguientes columnas no están en el DataFrame:", missing_columns)
else:
    print("Todas las columnas requeridas están presentes.")

# Convertir columnas a tipo numérico y manejar errores si están presentes
try:
    df['Danceability'] = pd.to_numeric(df['Danceability'], errors='coerce')
    df['Energy'] = pd.to_numeric(df['Energy'], errors='coerce')

    # Comprobar valores después de la conversión
    print("Valores únicos en 'Danceability':", df['Danceability'].unique())
    print("Valores únicos en 'Energy':", df['Energy'].unique())
    print("Valores únicos en 'Track':", df['Track'].unique())
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# Crear el gráfico
fig = px.scatter(df, x='Danceability', y='Energy', color='Track')
fig.write_html("grafico_interactivo.html")
fig.show()

except KeyError as e:
    print(f"Error: {e}. Verifica que el nombre de la columna exista en el_
↳DataFrame.")

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Nombres de las columnas: ['Track', 'Artist', 'Album', 'Year', 'Duration', 'Time\_Signature', 'Danceability', 'Energy', 'Key', 'Loudness', 'Mode', 'Speechiness', 'Acousticness', 'Instrumentalness', 'Liveness', 'Valence', 'Tempo', 'Popularity']

Primeras filas del DataFrame:

	Track	Artist \
0	Release	Afro Celt Sound System
1	Saor / Free / News from Nowhere	Afro Celt Sound System
2	When You're Falling	Afro Celt Sound System
3	Whirl-Y-Reel 1	Afro Celt Sound System
4	Electric Rendezvous	Al Di Meola

	Album	Year	Duration \
0	Volume 2: Release (Real World Gold)	2005	456160
1	Vol. 1: Sound Magic (Real World Gold)	1999	501093
2	Volume 3 : Further In Time (Real World Gold)	2003	314160
3	Vol. 1: Sound Magic (Real World Gold)	1999	441200
4	Electric Rendezvous	1982	467266

	Time_Signature	Danceability	Energy	Key	Loudness	Mode	Speechiness \
0	4	0.633	0.828	5	-7.266	0	0.0480
1	4	0.511	0.524	7	-10.504	1	0.0305
2	4	0.638	0.822	11	-7.305	1	0.0380
3	4	0.645	0.810	2	-8.133	1	0.0381
4	4	0.337	0.658	9	-12.241	1	0.0388

	Acousticness	Instrumentalness	Liveness	Valence	Tempo	Popularity
0	0.0216	0.055800	0.1080	0.537	100.089	31
1	0.0260	0.879000	0.1060	0.118	81.996	24
2	0.0508	0.000025	0.0895	0.802	99.010	36
3	0.1320	0.395000	0.0825	0.530	132.021	25
4	0.1010	0.748000	0.1130	0.507	108.143	19

Todas las columnas requeridas están presentes.

Valores únicos en 'Danceability': [0.633 0.511 0.638 0.645 0.337 0.341 0.71 0.415 0.318 0.378 0.57 0.514 0.558 0.404 0.542 0.423 0.776 0.727 0.813 0.449 0.302 0.366 0.487 0.388 0.586 0.701 0.682 0.496 0.834 0.648

0.741	0.551	0.724	0.623	0.714	0.624	0.58	0.394	0.391	0.285			
0.399	0.208	0.469	0.439	0.227	0.775	0.667	0.675	0.886	0.566			
0.646	0.283	0.581	0.351	0.452	0.206	0.194	0.179	0.184	0.356			
0.608	0.664	0.753	0.946	0.658	0.849	0.781	0.484	0.699	0.495			
0.478	0.39	0.617	0.711	0.575	0.676	0.717	0.689	0.752	0.525			
0.576	0.6	0.549	0.437	0.641	0.477	0.301	0.146	0.335	0.52			
0.106	0.0853	0.611	0.331	0.659	0.577	0.361	0.267	0.552	0.311			
0.28	0.445	0.395	0.593	0.382	0.381	0.405	0.498	0.31	0.501			
0.412	0.588	0.718	0.481	0.56	0.626	0.761	0.54	0.177	0.163			
0.693	0.151	0.691	0.67	0.578	0.737	0.77	0.594	0.822	0.639			
0.671	0.272	0.723	0.651	0.497	0.779	0.355	0.679	0.499	0.592			
0.595	0.642	0.762	0.649	0.743	0.666	0.767	0.462	0.367	0.889			
0.571	0.683	0.538	0.312	0.29	0.69	0.545	0.268	0.401	0.167			
0.475	0.3	0.322	0.419	0.324	0.157	0.697	0.154	0.392	0.443			
0.464	0.18	0.343	0.171	0.138	0.456	0.476	0.454	0.604	0.563			
0.416	0.369	0.304	0.413	0.44	0.485	0.41	0.297	0.224	0.279			
0.695	0.591	0.347	0.722	0.755	0.823	0.68	0.564	0.657	0.543			
0.26	0.211	0.729	0.615	0.0788	0.681	0.653	0.598	0.233	0.643			
0.319	0.573	0.42	0.379	0.504	0.506	0.665	0.472	0.597	0.73			
0.534	0.489	0.377	0.314	0.34	0.414	0.407	0.532	0.444	0.621			
0.446	0.508	0.503	0.424	0.488	0.373	0.568	0.702	0.359	0.79			
0.745	0.524	0.784	0.235	0.376	0.556	0.451	0.687	0.708	0.435			
0.562	0.696	0.692	0.662	0.634	0.733	0.654	]					
Valores únicos en 'Energy': [0.828 0.524 0.822 0.81 0.658 0.497												
0.267	0.576	0.772										
0.552	0.225	0.306	0.532	0.275	0.393	0.511	0.433	0.279				
0.228	0.367	0.699	0.443	0.655	0.735	0.602	0.956	0.808				
0.804	0.223	0.899	0.426	0.627	0.506	0.749	0.941	0.894				
0.884	0.307	0.2	0.309	0.0546	0.237	0.0156	0.28	0.0643				
0.227	0.263	0.429	0.166	0.19	0.385	0.372	0.0198	0.224				
0.256	0.72	0.204	0.191	0.287	0.125	0.371	0.97	0.455				
0.881	0.918	0.49	0.622	0.663	0.784	0.266	0.565	0.553				
0.516	0.425	0.797	0.816	0.488	0.43	0.148	0.469	0.502				
0.781	0.435	0.0285	0.633	0.0815	0.141	0.0831	0.417	0.0378				
0.512	0.472	0.161	0.86	0.608	0.24	0.293	0.496	0.318				
0.353	0.487	0.57	0.442	0.709	0.507	0.754	0.616	0.386				
0.58	0.539	0.0183	0.00562	0.0892	0.243	0.467	0.762	0.923				
0.482	0.187	0.437	0.809	0.381	0.676	0.408	0.404	0.698				
0.292	0.305	0.0255	0.396	0.172	0.439	0.705	0.875	0.823				
0.871	0.831	0.714	0.803	0.926	0.942	0.36	0.341	0.143				
0.376	0.411	0.258	0.545	0.746	0.8	0.672	0.739	0.291				
0.667	0.297	0.337	0.217	0.53	0.489	0.412	0.147	0.377				
0.621	0.3	0.597	0.441	0.177	0.234	0.334	0.547	0.175				
0.985	0.928	0.793	0.614	0.303	0.0786	0.398	0.629	0.0157				
0.93	0.839	0.712	0.17	0.721	0.122	0.734	0.825	0.641				
0.929	0.949	0.556	0.742	0.636	0.212	0.499	0.379	0.277				
0.706	0.889	0.813	0.428	0.911	0.974	0.908	0.921	0.594				
0.609	0.741	0.579	0.944	0.11	0.288	0.4	0.348	0.0814				

0.332	0.51	0.796	0.774	0.33	0.872	0.954	0.791	0.562
0.119	0.164	0.242	0.593	0.726	0.623	0.806	0.91	0.591
0.299	0.753	0.869	0.317	0.301	0.444	0.25	0.31	0.0898
0.399	0.41	0.54	0.836	0.965	0.446	0.592	0.354	0.583
0.665	0.0836	0.269	0.355	0.0928	0.00681	0.0563	0.898	0.208
0.765	0.887	0.457	0.478	0.118	0.69	0.535	0.144	0.133
0.606	0.892	0.659	0.378	0.737	0.577	0.818	0.73	]

Valores únicos en 'Track': ['Release' 'Saor / Free / News from Nowhere' "When You're Falling"

'Whirl-Y-Reel 1' 'Electric Rendezvous'

'Fantasia Suite - Live at Warfield Theatre, San Francisco, CA - December 5, 1980'

'Lady of Rome, Sister of Brazil'

'Mediterranean Sundance / Rio Ancho - Live at Warfield Theatre, San Francisco, CA - December 5, 1980'

'Race With Devil On Spanish Highway' 'The Wizard'

'Ai Du (with Ry Cooder)' 'Banga (with Ry Cooder)'

'Bonde (with Ry Cooder)' 'Diaraby (with Ry Cooder)'

'Gomni (with Ry Cooder)' 'Inchana Massina (feat. Nitin Sawhney)' 'Karaw'

'Savane' 'Soko' 'Yer Bounda Fara' 'Eshurruru' 'Imiman Jalaala'

"Inyaadi'ini" 'Kan ati fettun isani infedhani' 'Si jaalallee - 1975'

'Afrika - Live' 'Agolo' 'Batonga' 'Malaika' 'Pata Pata' 'Samba Pa Ti'

'Voodoo Child (Slight Return)' 'We Are One' 'Wombo Lombo'

'Akiwowo (Ah-Key-Woh-Woh)' 'Jin-Go-Lo-Ba (Jin-Go-Low-Bah)' 'Oya (Aw-Yah)'

'Gone, Just Like a Train' 'In Line' 'Lookout for Hope' 'Rain, Rain'

'Rambler' 'Start' 'Strange Meeting - Live/Umbria Jazz Orchestra'

'The Pioneers' 'Ederlezi' 'SAT' 'Another Night In Tunisia'

"Don't Worry Be Happy" 'Drive My Car' "Good Lovin'" 'I Hear Music'

'The 23rd Psalm' "Thinkin' About Your Body - Live" 'A Szerelemről'

'Csillagfészek' 'Izlel E Delio Haidutin'

'Kalimankou Denkou (The Evening Gathering)'

'Kaval Sviri (The Flute Plays)'

'Pritoutitze Planinata (Song from the Thracian Plain)'

'Svatba (The Wedding)' 'Basic Instructions' 'Treasures In Heaven'

'Abatina' 'Baila Mami (feat. Nailah Blackman & Lao Ra)' 'Calypso Blues'

'Calypso Queen' 'Fire in Me Wire' 'Leave Me Alone - Kubiyashi Remix'

'Ailein Duinn' 'Coisich, a Ruin' 'Nighean Dubh Nighean Donn'

"S' Och A' Dhomhnaill Oig Ghaolaich" 'Skye Waulking Song'

'The Jura Wedding Reels' 'Cumbia sobre el río / Interludio' 'Petit pays'

'Sodade' 'À Primeira Vista' 'Mama África' 'Pensar Em Você' 'Shusha Nyavu'

'Unikumbuke' 'Look so Good' 'Talk to the Lawyer'

'Ballad Of The Sad Young Men' 'Cocaine' 'Cry Me a River'

'Fire In My Soul' 'She Moved Through The Fair' 'Wilt Thou Unkind'

'Black Sun - Remastered' 'Cantara - Remastered'

'Enigma of the Absolute - Remastered'

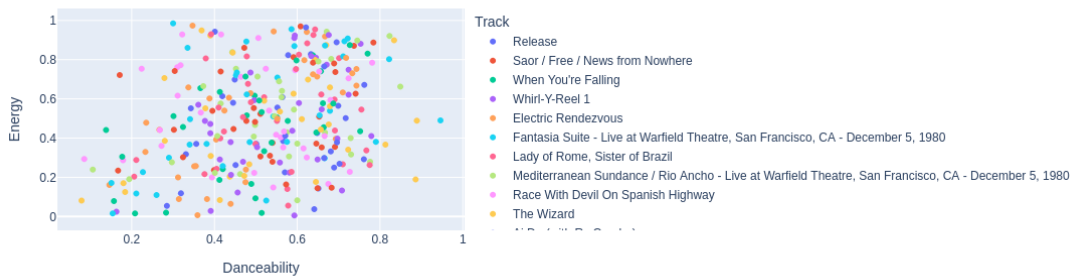
'In the Kingdom of the Blind the One-Eyed Are Kings - Remastered'

'Rakim - Live Remastered' 'Saltarello - Remastered'

'Sanvean - Live Remastered' 'The Host of Seraphim - Remastered'

'The Ubiquitous Mr. Lovegrove - Remastered' 'Yulunga (Spirit Dance)'  
 'Mazha Paadam' 'Nilakudame' 'Forever And Ever' 'Goodbye My Love Goodbye'  
 'I Dig You' 'Lovely Lady Of Arcadia' 'My Friend The Wind' 'My Reason'  
 'Red Rose Cafe' 'Someday Somewhere' 'When Forever Has Gone'  
 'Langue muette' 'Shaouk' 'Yabay' 'Echoes of the Past Float Away'  
 'Precious Waters' 'Voice of the Sea' 'Balada o Pisonji I Zugi-live'  
 'Necu da budem svabo u dotiranom filmu-live' 'Odlazi Nam Deda'  
 'Canção Do Mar' 'Fado-Mae' 'Lusitana Paixão' 'Canto a la Habana'  
 'Lágrimas Negras' 'Mi cafetal' 'Pajarito Voló (feat. Rubén Blades)'  
 'Siboney' 'Vamos a Bailar un Son' 'West (feat. Charlie Musselwhite)'  
 'Amarantine' 'Aníron' 'Boadicea' 'Echoes in Rain' 'May It Be'  
 'Orinoco Flow (Sail Away) - Single Version' 'Wild Child'  
 'Coffin for Head of State' 'Expensive Shit' 'Gentleman' 'Lady'  
 'No Agreement' 'Roforofo Fight' 'Shakara (Oloje)'  
 'Sorrow Tears and Blood' 'Water No Get Enemy' 'Zombie'  
 'A Man and a Woman' 'Batida diferente' "Comin' Home Baby" 'Funky Nassau'  
 'Hold On, I'm Coming' 'Memphis Underground' 'Aquellos Ojos Verdes'  
 'Ay, Candela' 'Bruca Maniguá' 'Marieta' 'Qué Bueno Baila Usted'  
 "BO'EE - Asher Swissa & Anorre Remix" 'Boee (Come To Me)'  
 "Mi'Ma'amakim (Out of the Depths)"  
 "Ve'Eem Tavo'ee Elay (And If You Will Come To Me)" 'Mandram Vandha'  
 'Nila Adhu Vanathumele' 'Nilaave Vaa' 'Thendral Vandhu'  
 'Thenpandi Cheemayile' 'El aparecido' 'El Canto de Todos - Bonus Track'  
 'La fiesta de la tirana' 'Vuelvo' 'Jammu Africa' 'Nafanta' 'Tadiou Bone'  
 'Tajabone' 'Bomba' 'Visions of You' 'A Remark You Made - Live' 'Birdland'  
 'Black Market - Live' 'In a Silent Way' 'Mercy, Mercy, Mercy'  
 'The Harvest' 'A Woman Clothed With the Sun' 'Hellfire' 'In Sorrow's Eye'  
 'Innocent Sleep' 'Lilin' 'Switch' 'The Big Gundown'  
 'Caracas Night September 11, 1975' 'Last Night The Moon Came'  
 'Power Spot' 'Voiceprint (Blind From The Facts)' 'Assurance'  
 'Animal Arithmetic' 'Boy Lilikoi' 'Go Do' 'Hengilás' 'Kolniður'  
 'Sticks and Stones - Live in Brighton' 'Tornado' 'For All We Know'  
 'Moonlight in Vermont' 'A New England' 'All I Ever Wanted' 'Days'  
 'Innocence' "There's A Guy Works Down The Chip Shop Swears He's Elvis"  
 'They Don't Know' 'Titanic Days' 'Eduze NeNkosi'  
 'Mbube (The Lion Sleeps Tonight)' 'Mbube (Wimoweh)' 'Mbude' 'Shosholoza'  
 'A Lotus on Irish Streams (with John McLaughlin) - Remastered'  
 'Meeting of the Spirits (with John McLaughlin) - Remastered'  
 'The Dance of Maya (with John McLaughlin) - Remastered' 'King Kong Five'  
 'Mala Vida' 'Out of Time Man' 'Ronde de nuit'  
 'Santa Maradona (Larchuma Football Club)' 'Senor Matanza' 'Bongo Bong'  
 "Bongo Bong - Je ne t'aime plus (Francis Mercier Remix)" 'Clandestino'  
 'Desaparecido' 'La Primavera' 'La Vida Tombola' 'Me Gustas Tu' 'Mentira'  
 'Peligro - Live' 'Dawning of the Day' 'Going Home' 'Fani - Tevhid'  
 'Halitus' 'Hidrelez - Dream of Perhan'  
 'Mevlana Jalaluddin Rumi - Dream of Shams' 'Napas' 'Nar-1 Ney'  
 'Nar-1 Aşk' 'Neyname' 'Bossa 31' 'Bossa Per Due'  
 'Like Leaves in the Wind' 'Sea and Sand' 'Tribes from the Unknown'

'Ave Maria' 'Beautiful That Way' 'Mishaela' 'Allah Hoo Allah Hoo'  
 'Dillagi' 'Kinna Sohna Tenu' 'Mast Nazron Se Allah Bachae'  
 'Mera Piya Ghar Aaya' 'Tere Bin Nahin Lagda - Remix'  
 'Yeh Jo Halka Halka Suroor Hai' 'Fatamorgana - Mirage' 'Galbi'  
 'Im Nin Alu-2000' "Im Nin'alu" "Love Song - Givin' U Some Pleasure Remix"  
 'Taw Shi' 'Ya Ba Ye' '¿Dónde Estabas Tú?' 'Cómo Fue' 'Dos Gardenias'  
 'He Perdido Contigo' 'No me Vayas a Engañar - 2019 Remaster'  
 'Veinte Años' 'Last Train Home' 'Letter From Home' 'Minuano (Six Eight)'  
 'Phase Dance' 'The Way Up: Opening & Part One' 'To the End of the World'  
 'Bhebak W Shta'tellak Nar" 'El Hob El Kebir' 'Dhun' 'Raga Charu Keshi'  
 'Raga Hamsadhwani - Digitally Remastered'  
 'Raga Mishra Piloo - Remastered' 'Raga Puriya Dhanashri - Remastered'  
 'Raga- Manj Khamaj' 'Raga- Sindhi Bhairavi' 'Dounia' 'Kele mandi' 'Laidu'  
 'Crazy 'Bout an Automobile (Every Woman I Know)" 'Dark End of the Street'  
 'He'll Have to Go" 'Paris, Texas' 'Smack Dab in the Middle'  
 'Vigilante Man' 'Africa' 'Laban' 'Namory' 'Sina (Soumbouya)' 'Tekere'  
 'Ani Maamin Through the Ages' 'Kol Haolam Kulo' "Mi Shebeirach L'tzahal"  
 'Air - 2010 Remaster' 'Chinese White - 2010 Remaster' 'Letter'  
 'The First Girl I Loved - 2010 Remaster'  
 "The Minotaur's Song - 2010 Remaster"  
 'The Tijuana Jail - 1990 Digital Remaster' 'Tom Dooley' 'Courage'  
 'Diabaté' 'Fafa' 'Mahine Me' 'Mali' 'Savanne' 'Tongo Barra'  
 '7 Seconds (feat. Neneh Cherry)' 'Africa Remembers' 'Birima' 'Mame Bamba'  
 'Salimata' 'Set' 'Wiri-Wiri']



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