

A grayscale image of a city skyline with various skyscrapers of different heights and shapes. A large, solid black rectangular box is overlaid on the right side of the image, containing white text.

OUR MUSICAL AGE OF ASSIMILATION

By Wild Guevara

INTRODUCTION

TWO KEY DEFINITIONS

1. **Vertical Transmission:**
2. **Horizontal Transmission:**



TWO KEY DEFINITIONS

1. **Vertical Transmission:** Passed from **generation** to **generation**
2. **Horizontal Transmission:**



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2. **Horizontal Transmission:** Passed from **culture** to **culture**



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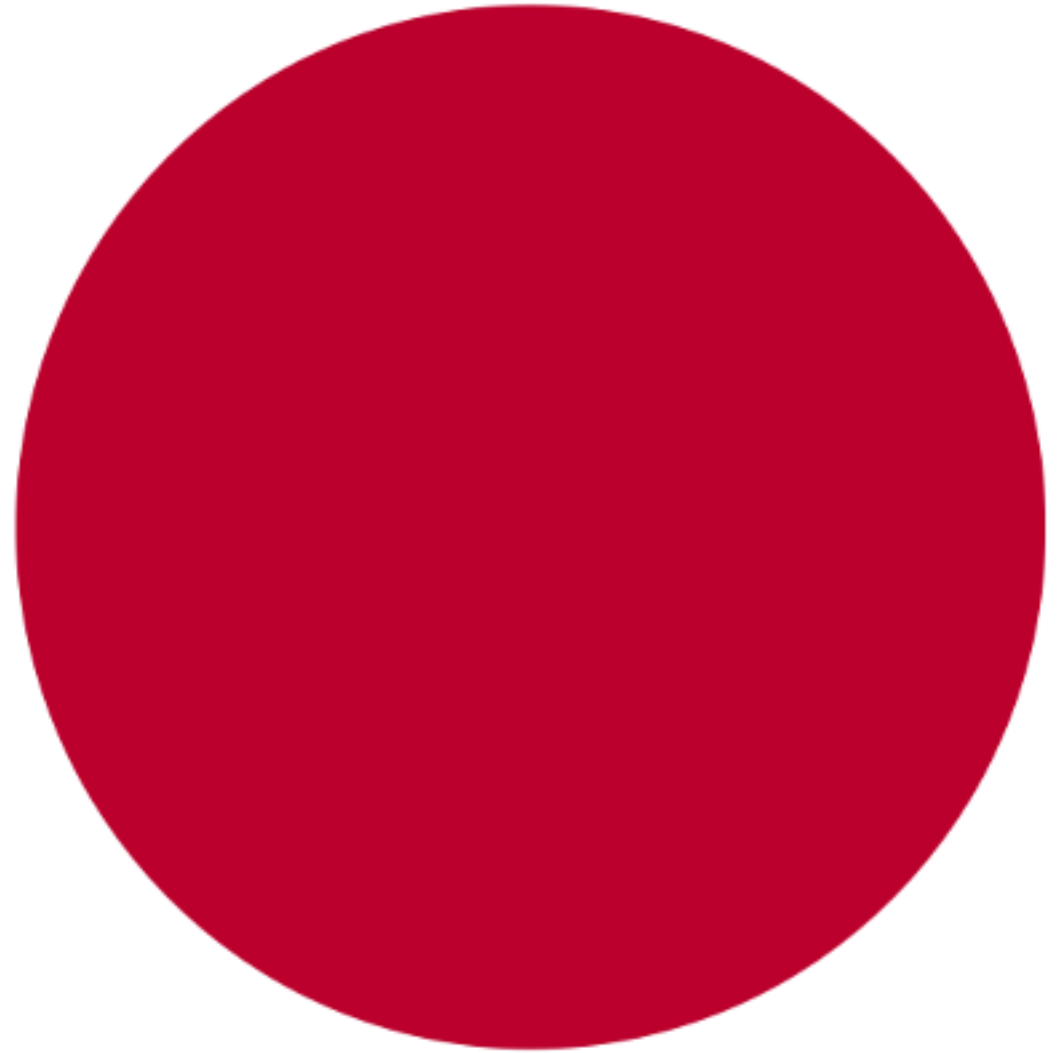
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- ◇ **Trends** in popular music for **pitch, timbre, and loudness**, (*Joan Serra et al., 2012*)
- ◇ **Collaboration and horizontal transmission** remains **important to sampling**, (*Youngblood, 2019*)



A **homogenization** of modern music is **not occurring** due to the **strong vertical transmission of music**



THE CASE OF JAPAN



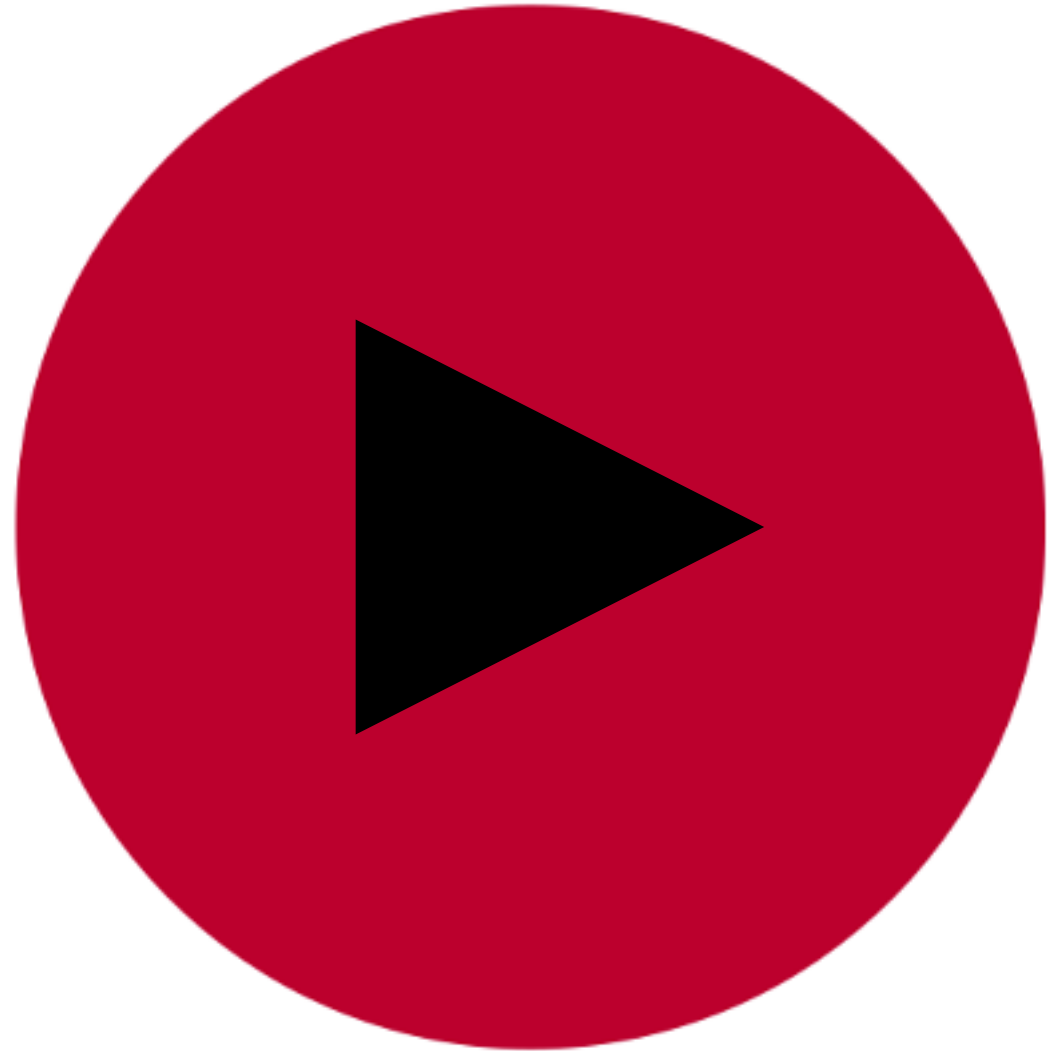
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- ◇ Japan faced **two moments of isolationism**, (*Music Educators Journal*, 1950)



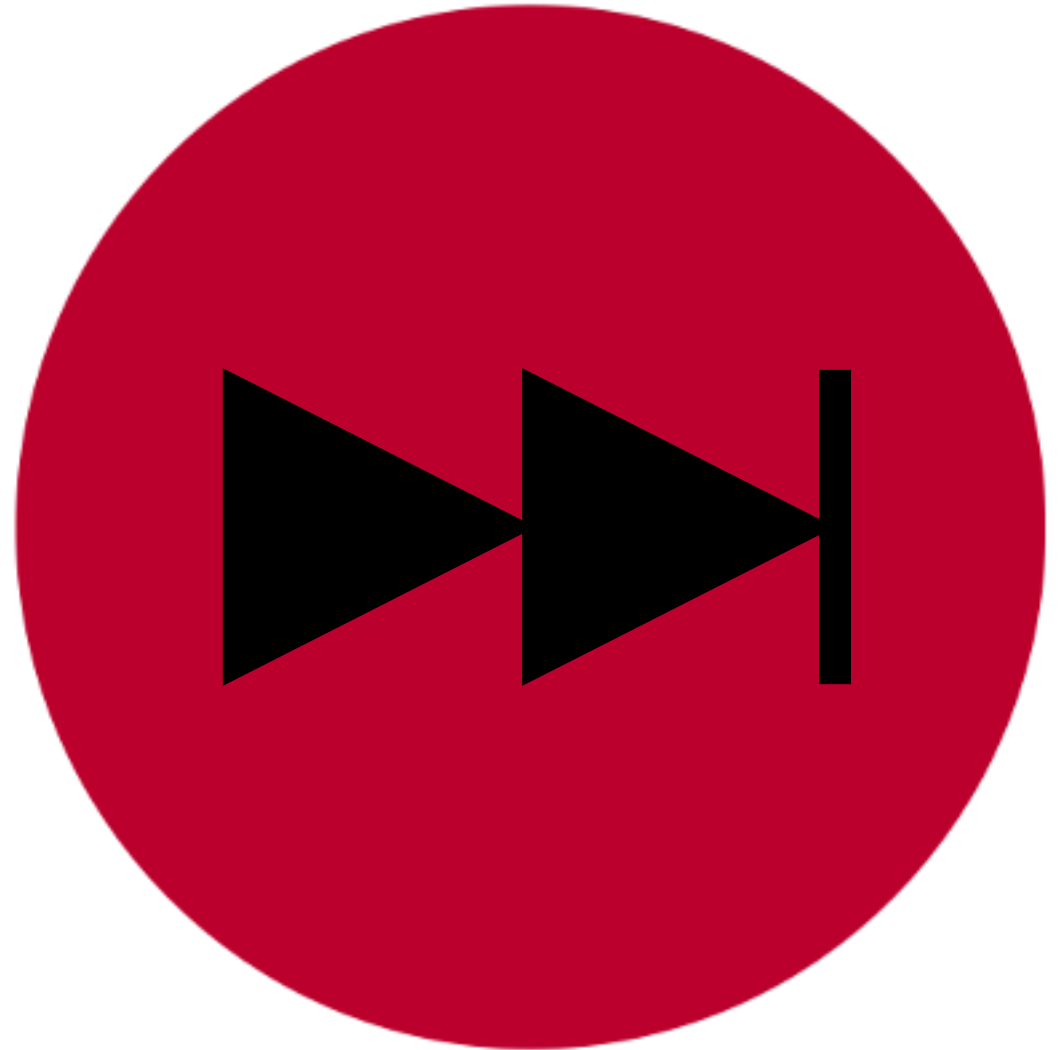
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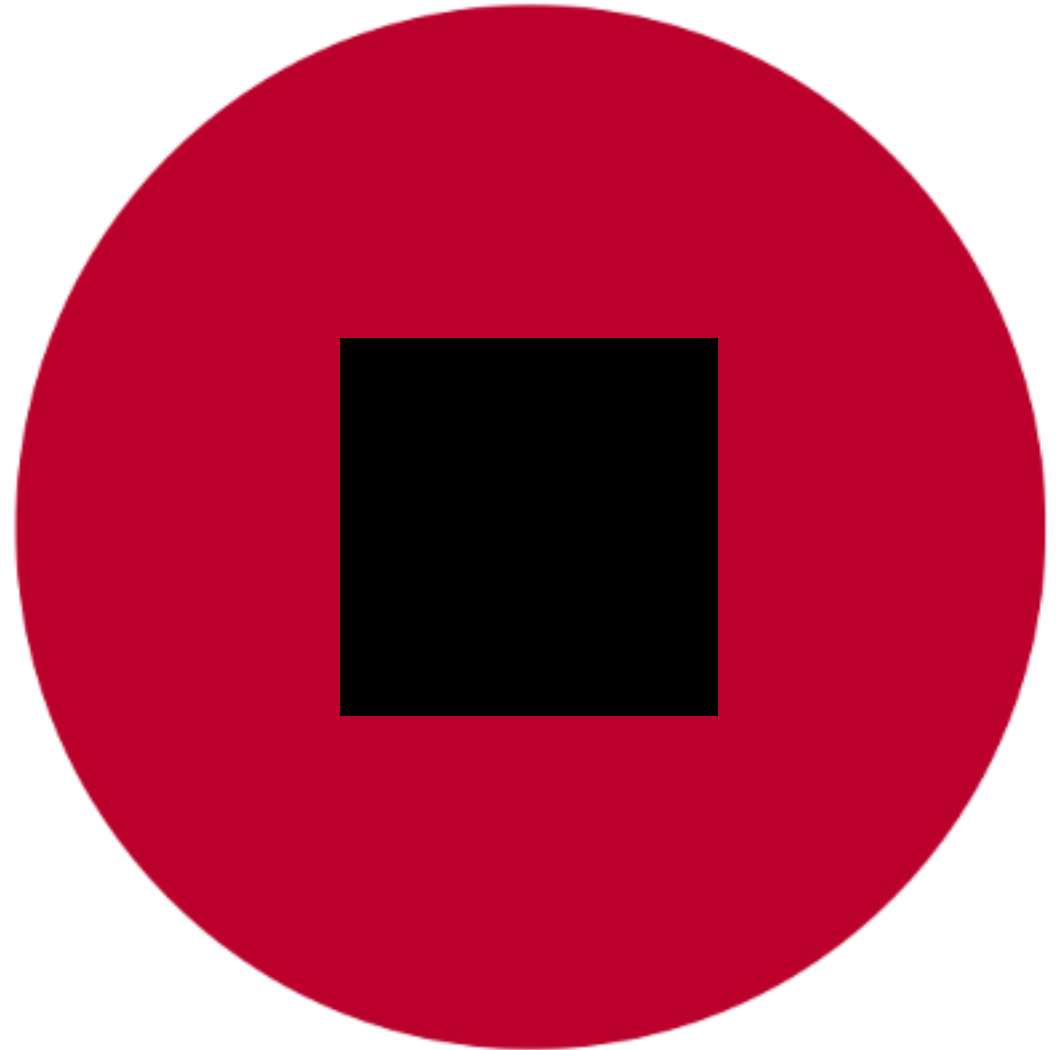
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- ◇ But **is this enough...**



METHOD



*“The ultimate reference for all
music lovers...”*

T4C
Top40-Charts.com

“The ultimate reference for all music lovers...”

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“We use algorithms with a human touch...”

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T4C
Top40-Charts.com

“We use algorithms with a human touch...”

“Optional for the user to provide demographic information (such as income level and gender), and unique identifiers (such as social security number), but encouraged...”

272 lines of



webscrape.py



1,363 pages on



22,230 cells of



HellOnEarth.xlsx

PARTICIPANTS



PARTICIPANTS

- ◇ **25 countries:**
 - ◇ 16 in **Europe**
 - ◇ 3 in **South America**
 - ◇ 2 in **Asia**
 - ◇ **USA & Canada**
 - ◇ **Australia & New Zealand**
- ◇ **43 weeks** (*January – October 2019*)



RESULTS



P(A ∩ B) = P(A)P(B)

???

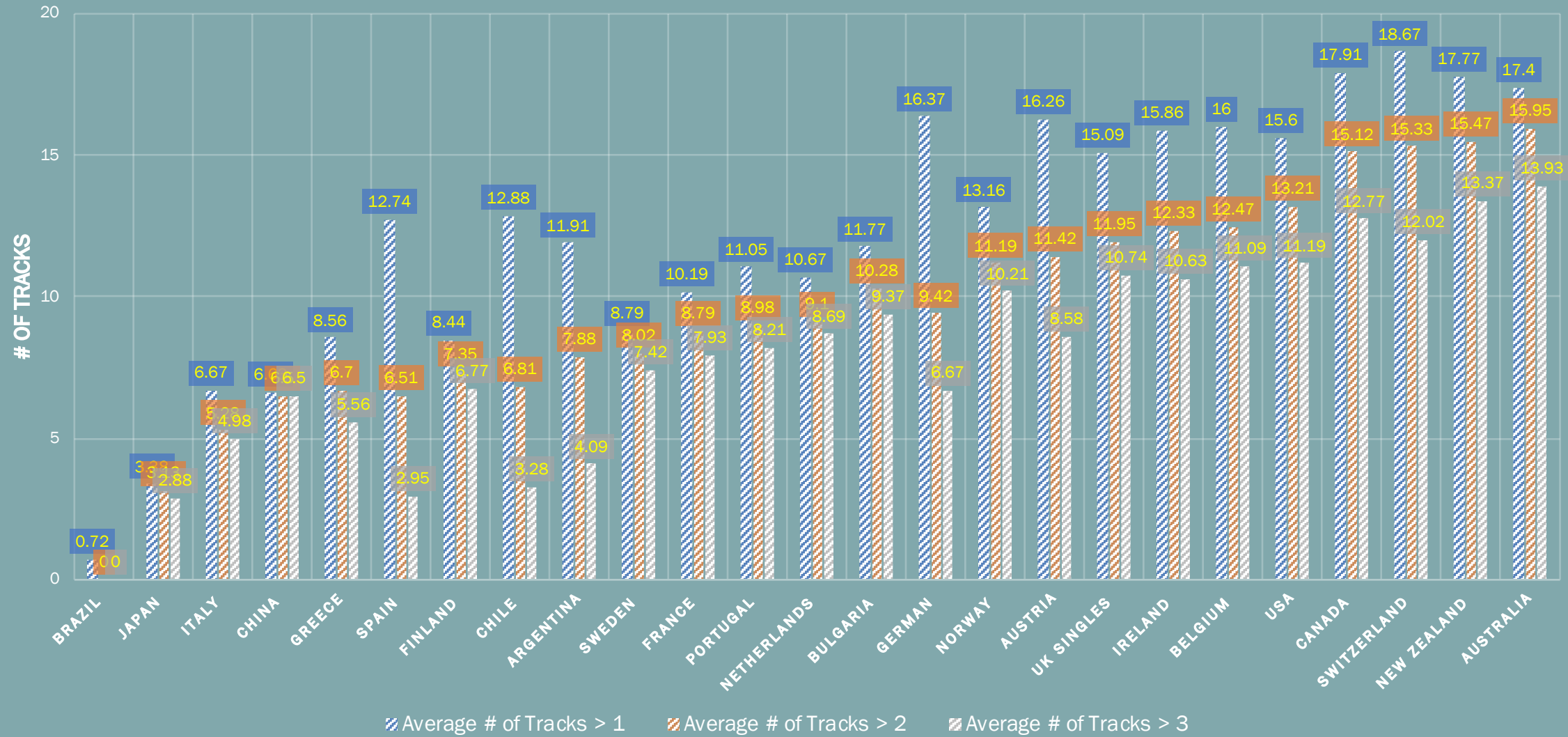
$n C k$

???

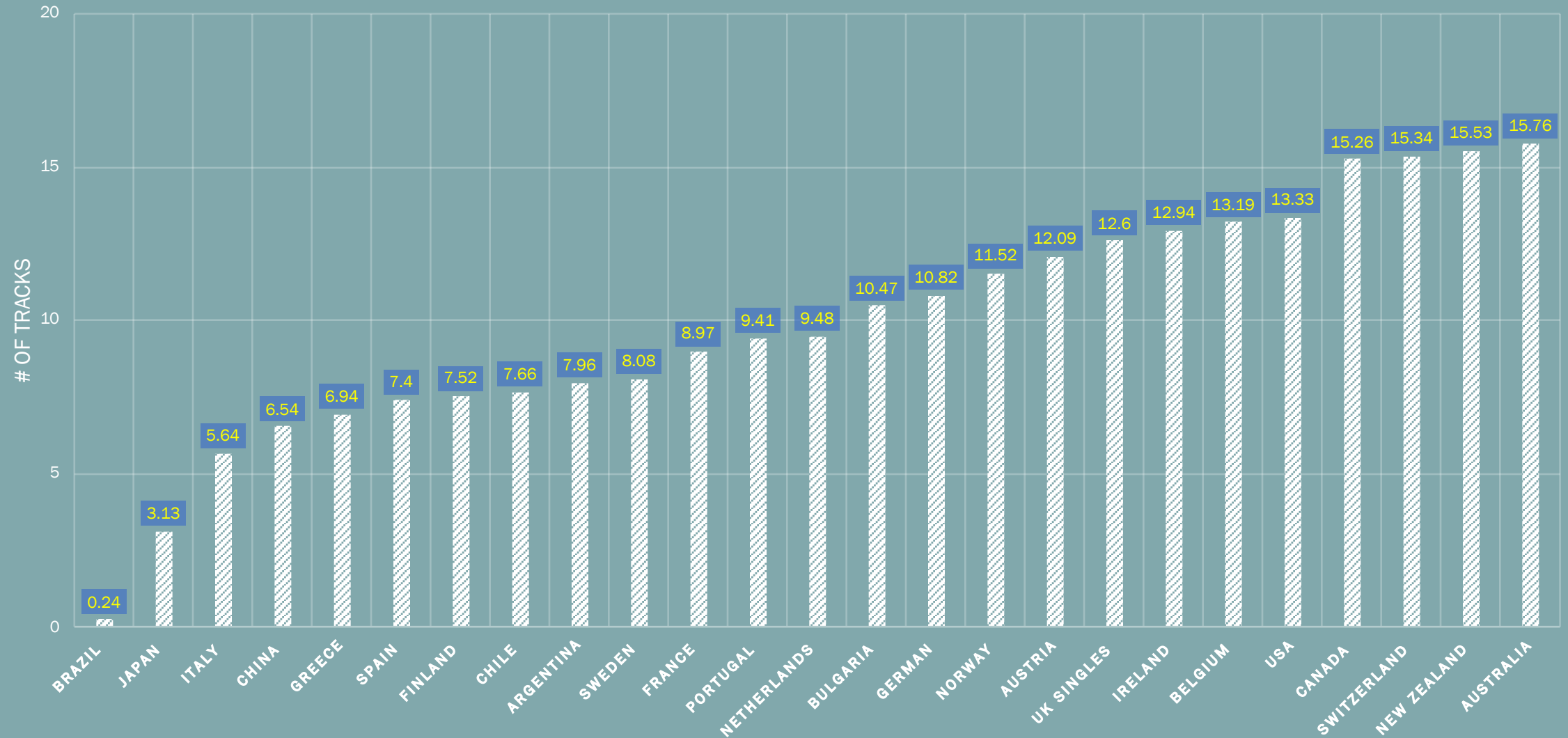
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$E = mc^2$

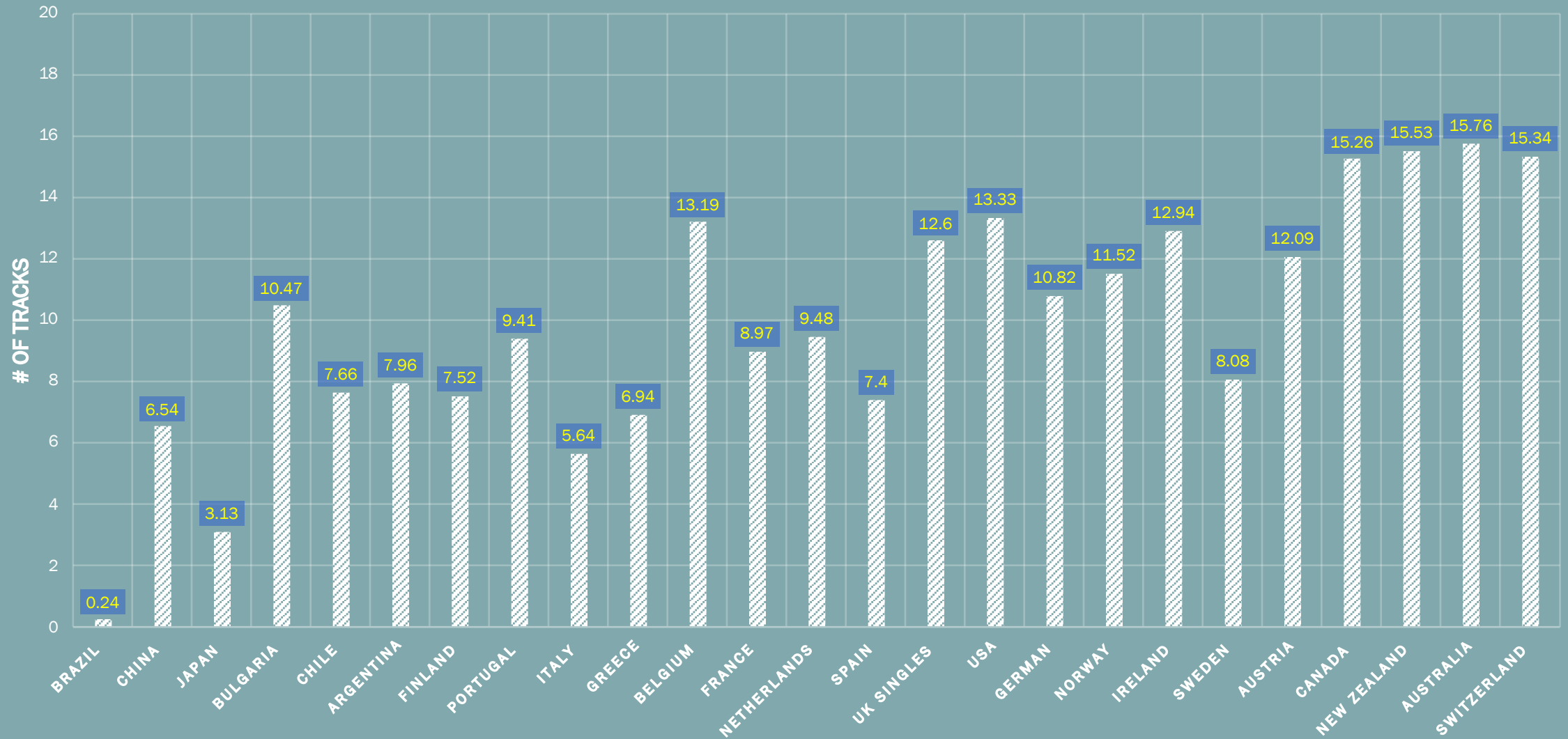
AVERAGE # OF TRACKS THAT APPEARED > 1 - 3 TIMES PER COUNTRY



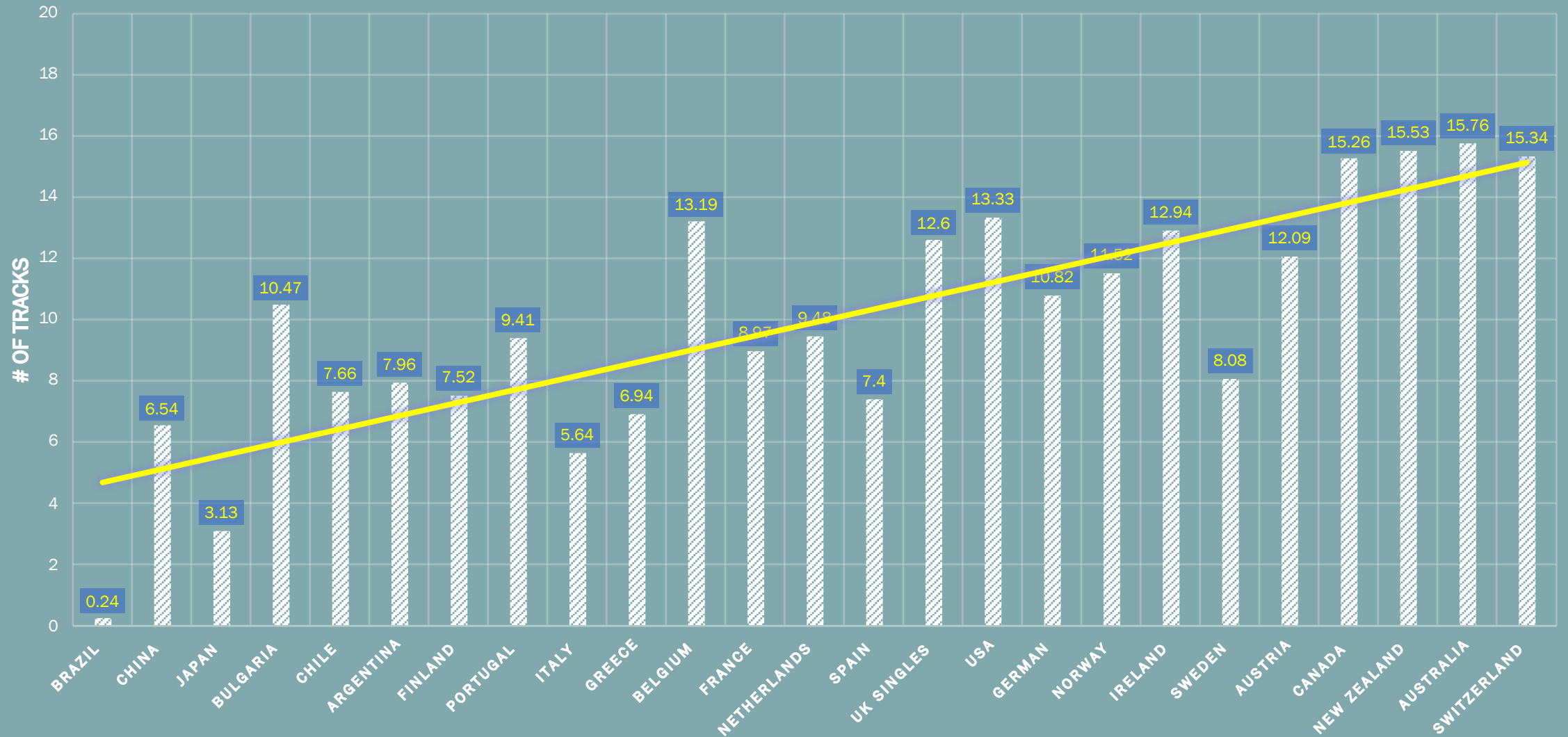
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AVERAGE # OF SHARED TRACKS PER COUNTRY SORTED BY % OF IMMIGRANTS

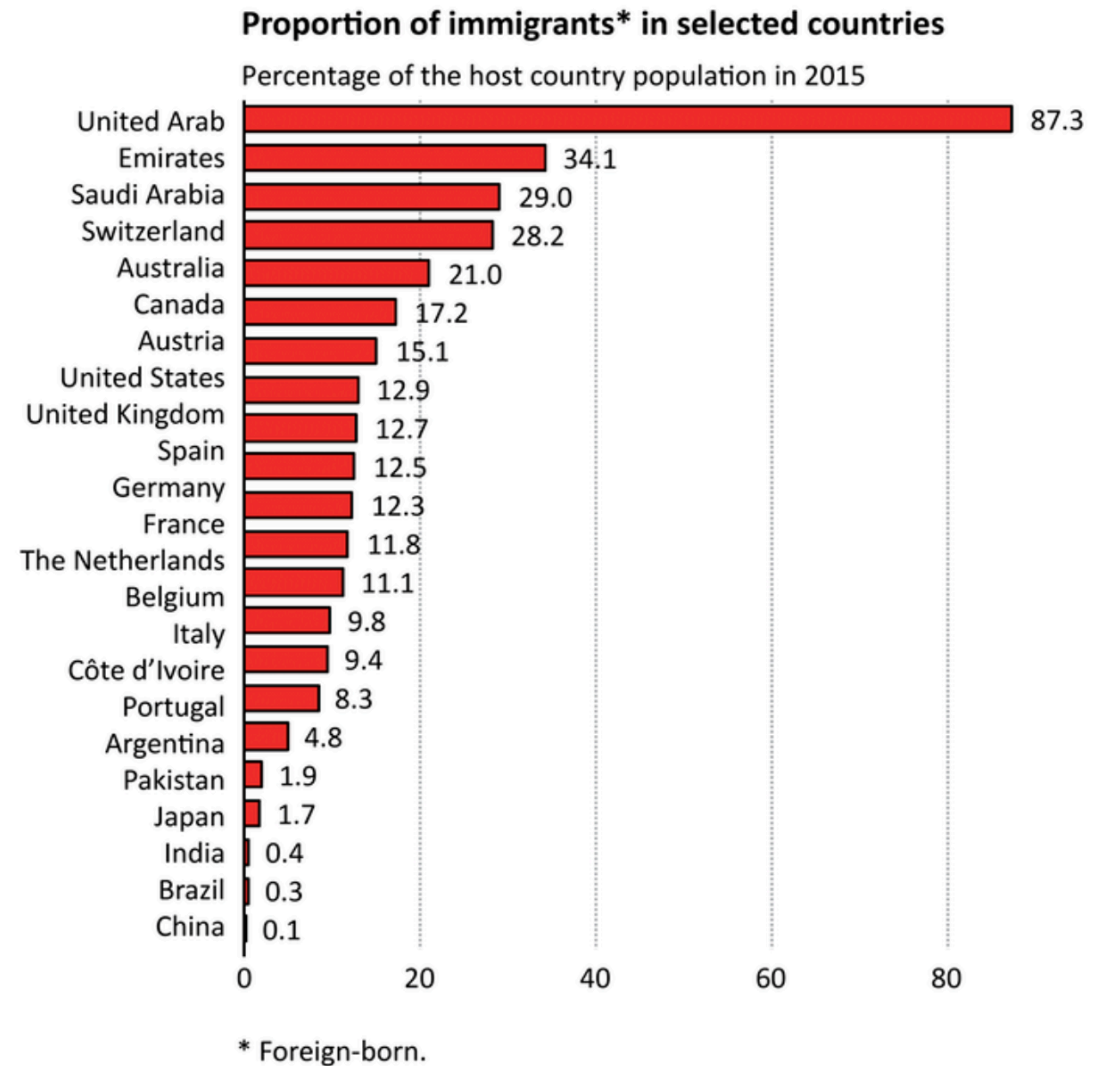


AVERAGE # OF SHARED TRACKS PER COUNTRY SORTED BY % OF IMMIGRANTS



CONCLUSIONS

*Populations with a
**higher percentage of
immigrants** may have
a **higher amount of
shared songs?***



SIGNIFICANCE



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1. Insight into the **modern evolution of music**



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2. Better understanding of how **music is transmitted**



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SIGNIFICANCE

1. Insight into the **modern evolution of music**
2. Better understanding of how **music is transmitted**
3. Furthers **music as a social function**
4. Data on modern music is **scarce**



FUTURE WORK



FUTURE WORK

- ◇ **More charts** from **more years**



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- ◇ More charts from more years
- ◇ More information on musical genres



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- ◇ **Origin of popular songs** vs. **emigration**



FUTURE WORK

- ◇ **More charts** from **more years**
- ◇ More information on **musical genres**
- ◇ **Origin of popular songs** vs. **emigration**
- ◇ Real **statisticians** to check work



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