Semester project 27 club: Do musicians who die young become more famous?

Student: Sofia Kypraiou Supervisor: Tiziano Piccardi dlab - Spring Semester 2020

27 Club: Fame and popularity



Research Questions

★ RQ1: Does the 27 club exist?

★ RQ2: What is the impact of dying young to long-term popularity?

Dataset

★ Wikipedia for personal and work details of a person
○ 227,205 people - 15,734 musicians

★ Pageviews from the English Wikipedia for popularity
○ From 2017 - 2020

Dataset

 \star Artist: A person with > 50% artistic occupations:

- 🎶 Music
- o 🡶 Visual
- o 😼 Performance
- 🚅 Literature
- o 🧃 Sculpture

RQ1: Does the 27 club exist?

- ★ Is there any difference in life span based on different occupations? (Artist vs non-artist)
- ★ Is there any difference in mortality rate at different ages? Do artists tend to die more in their 20s compared to other people?

RQ1: Lifespan on occupations

have the lowest mean age of death among all the other artists



RQ1: Balancing the dataset

Exact matching on:

6	Birth info	Year of birth, country of birth
	Personal info	Gender, citizenship
•	Death info	Country of death

Different on:

*	Work info	Occupation

RQ1: Lifespan on occupations

Artists 🎶 🍪 🔽 Non- artists 🙍



😼 🔽 🙍



illai

RQ1: Mortality rate at different ages





RQ1: Occupations of non-artists





11

RQ2: Do musicians who die young become more famous?

★ Investigate the causal effect of dying young on the long term popularity.

RQ2: Exact matching

Emma Nora 1990

r Same:

- Year of birth
- Country of birth
- Country of death
- Citizenship
- Gender
- Genre
- Awards received

 ★ Nora died 20 years after Emma

RQ2: Balanced Pairs

\star Analysis with:

- All data: 24360 pairs
- Musicians dead before 1950: 395 pairs
- Musicians dead after 1950: 21982 pairs

★ Maximal matching on the balanced pairs,
Grouped on how many years apart they died

RQ2: Balanced Pairs (matched date of death)

\star Analysis with:

- All data: 22978 pairs
- Musicians dead before 1950: 563 pairs
- Musicians dead after 1950: 22415 pairs

★ Maximal matching on the balanced pairs,
Grouped on how many years apart they died

RQ2: Popularity - pageviews



Significant for:
(20-40), (40-60)

★ Significant for: nothing! ★ Significant for: (20-40), (40-60)

RQ2: Popularity - pageviews (matched date of death)



Significant for:
(10-20),(20-40),
(40-60), (60-100)

★ Significant for: nothing! ★ Significant for: (10-20),(20-40), (40-60), (60-<u>100)</u>

17

RQ2: Popularity - pageviews

All 🎶



1950 - 1950

RQ2: Popularity - pageviews (matched date of death)

• > 1950

All 🎶



RQ2: Popularity - language versions

All 🎶



Wikipedia language editions for musicians who died after 1950 grouped by different years of death



Significant for: (20-40), (40-60) Significant for: (20-40), (40-60)

1950 > أي

Yes

No

RQ2: Popularity - language versions (matched date of death)

All 🎶



★ Significant for: (20-40), (40-60)

r Significant for: (20-40), (40-60)

🎶 💀 > 1950

Wikipedia language editions for musicians who died after 1950 grouped by different years of death



21

RQ2: Popularity – percentiles



Pageviews-Ranked (percentiles) for musicians who died after 1950 grouped by different years of death



★ Significant for: (20-40)

Significant for: nothing

died first

Yes

No No

RQ2: Popularity - percentiles (matched date of death)

All 🎶



★ Significant for: (10-20),(20-40), (40-60), (60-100)

↓ • 1950



★ Significant for:
(10-20),(20-40), (40-60), (60-100)

Conclusion

★ Club 27 is still a myth!

★ Evidence that musicians who died younger are more popular than musicians who died later

Limitations

\star Popularity at the age of death

\star Wikipedia's recency bias

- If Nora died in 2010 where Wikipedia was already created, then it's more likely to have an article than Emma who died in 1990
- Older people are more noteworthy?

Limitations

\star Validate quality of the matched pairs

★ Define the uncertainty of our results

\star Argue for the validity of our modeling assumptions.

