Data Engineering and Analysis of Seattle's Public Library Checkouts

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Background Seattle

International

Proud of their City

Environmentalism

Liberal

Asian Influence

Politically Active

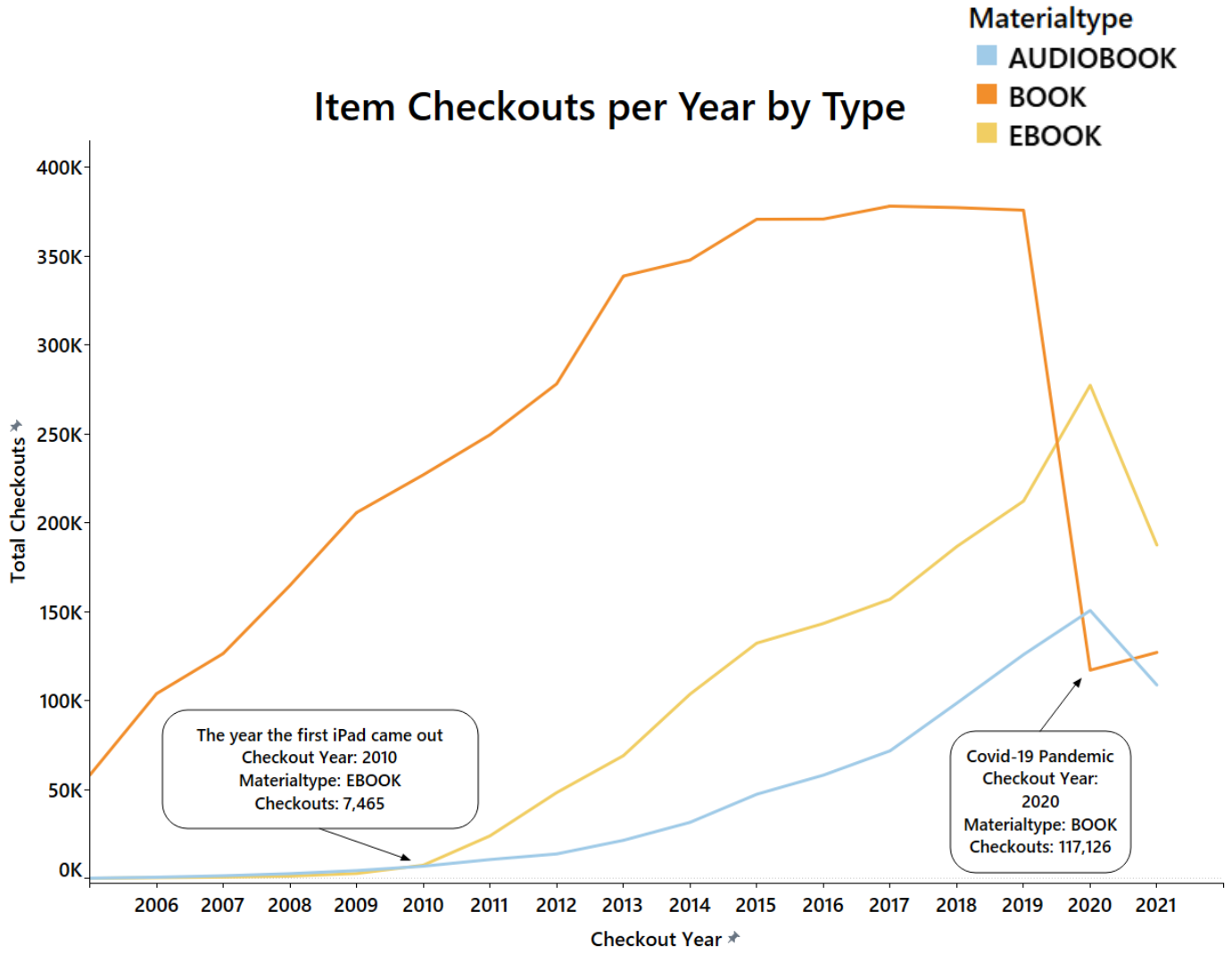
About the Dataset

- Publicly Available through the city of Seattle
- All Library Item checkouts
  - Books, movies, music, audiobooks, eBooks, etc.
- Circa 2005
- Includes fields like:
  - Title
  - Creator
  - Publisher
  - Publication Year
  - Subjects

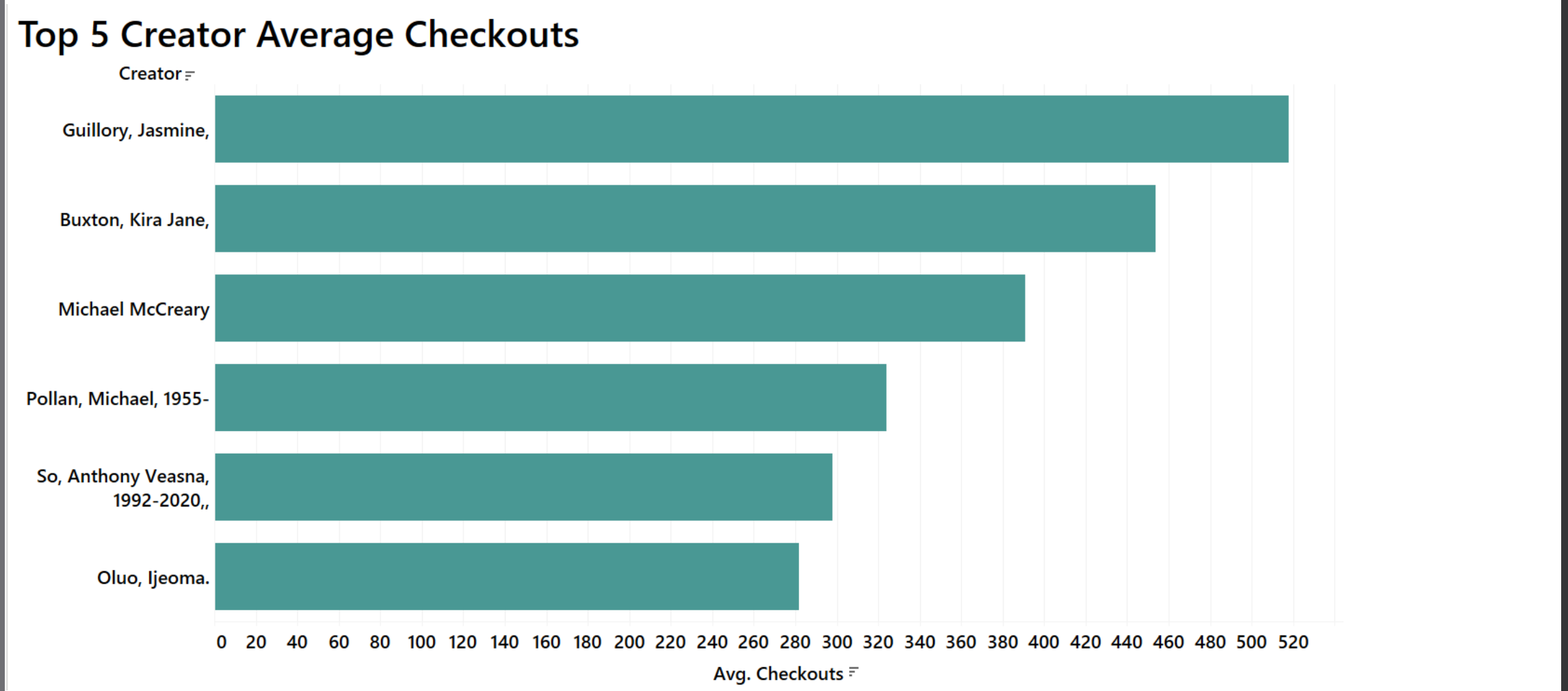
38.5 million

The Seattle Public Library

Data Pipeline

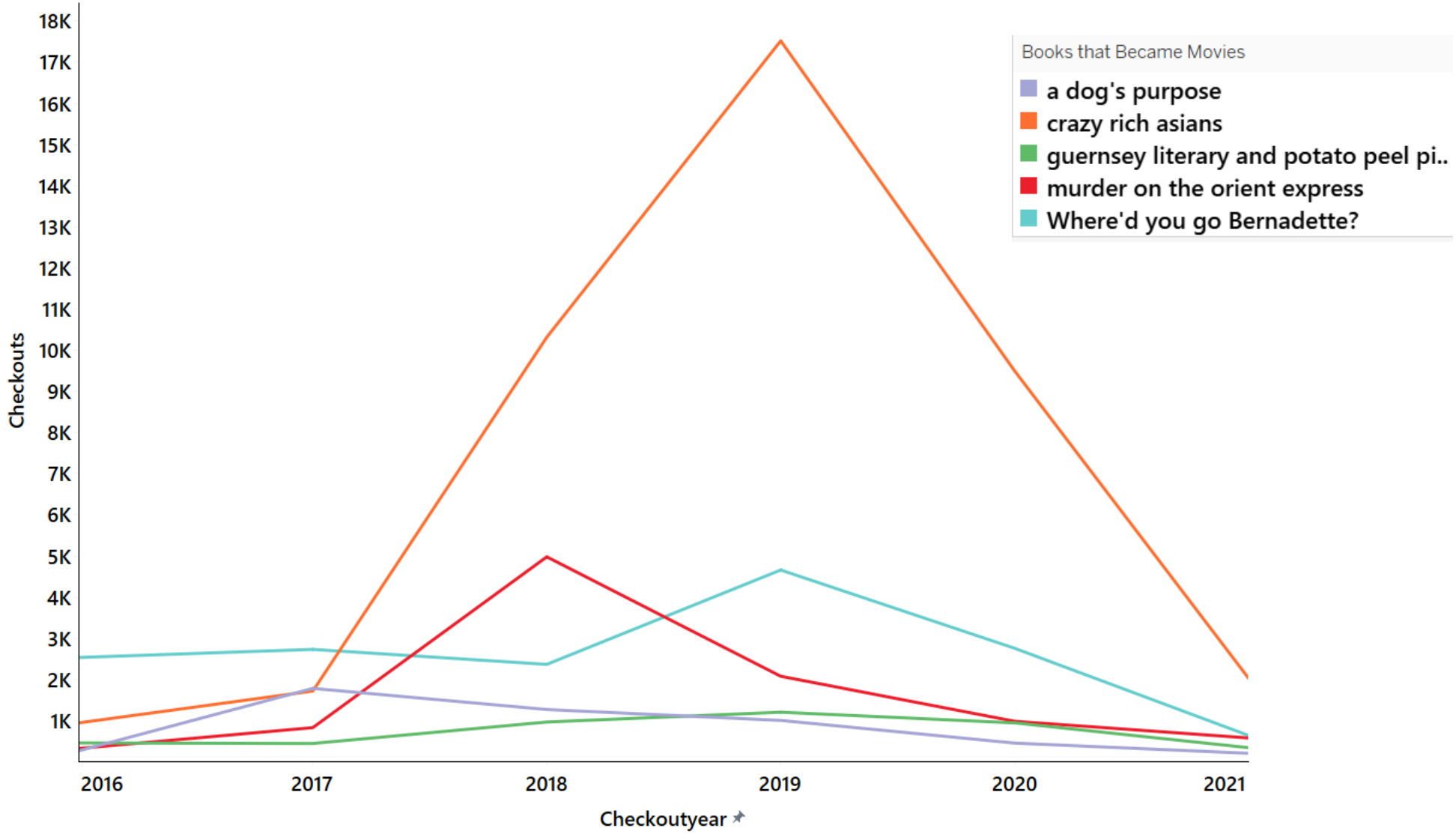


The Digital Age and the Pandemic



NYT Best Sellers/ Indie
Subjects: Race, Neurodivergence, Environment

Yearly Checkout Rates of Books that became Movies



Conclusions/ Future Work

- Checkouts reflect:
  - Digital Age
  - Pandemic
  - Seattle's Culture
  - Pop Culture Trends
- Add interactivity to dashboard
- Stratified sampling of entire corpus