Change of Museum of Modern Art Collection over Time



Goal

The overall analysis goal is to explore how the characteristics of modern art works change over time.



Data

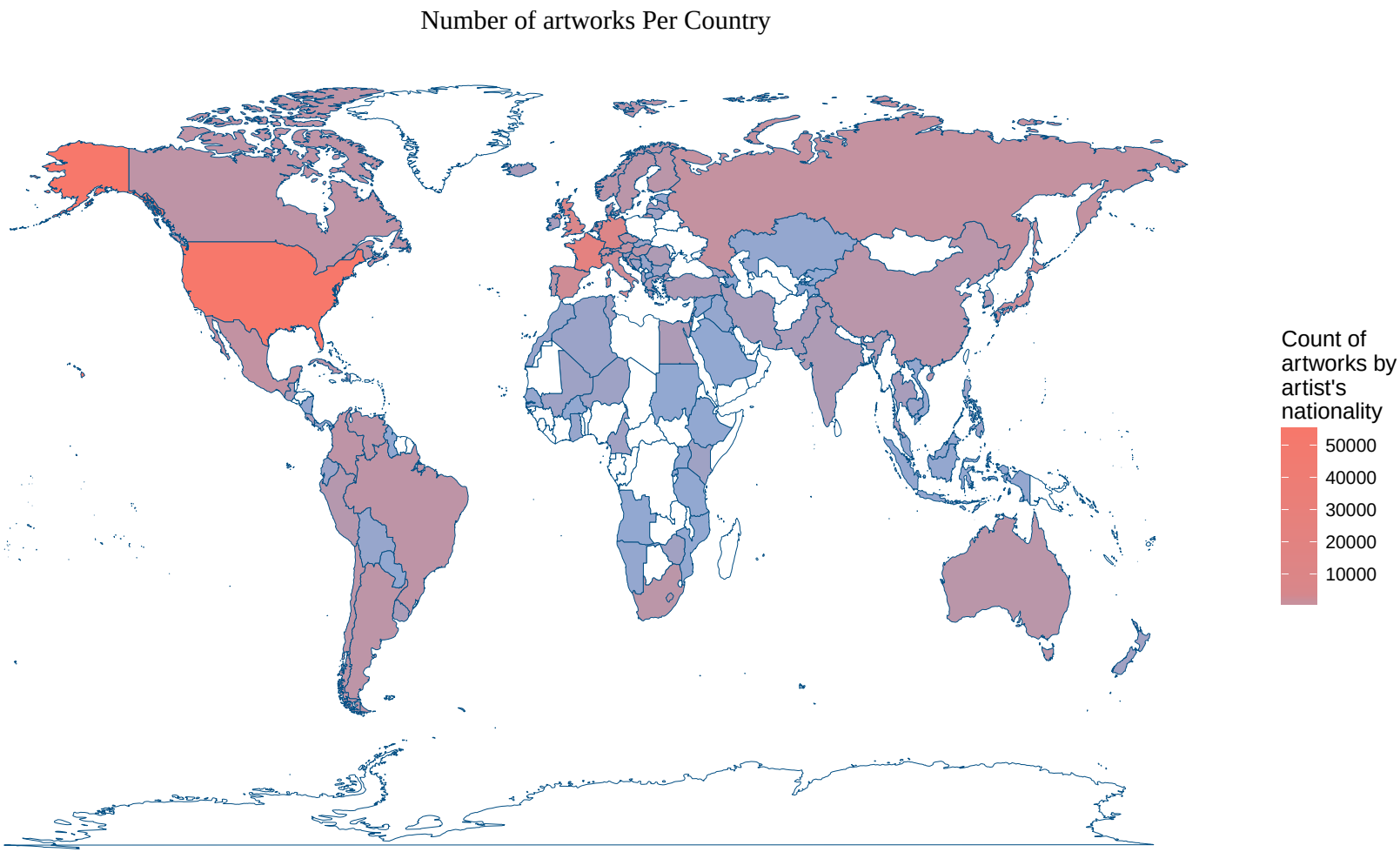
Each row represents a single piece of art work.

130,262 obs.

Variable	Type	Example
name	chr	Otto Wagner
date	Date	1896
nationality	chr	Austrian
gender	factor	Male
medium	chr	Ink and cut-and-pasted painted pages on paper

EDA: Nationality

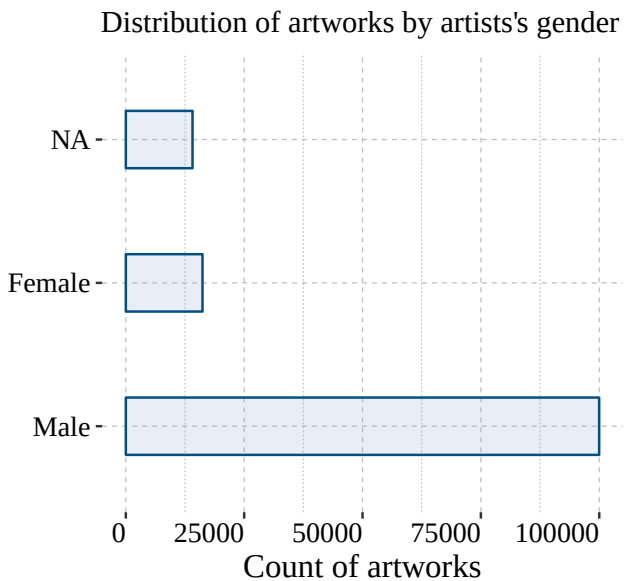
Most pieces in the MoMA collection are from America and western European countries.

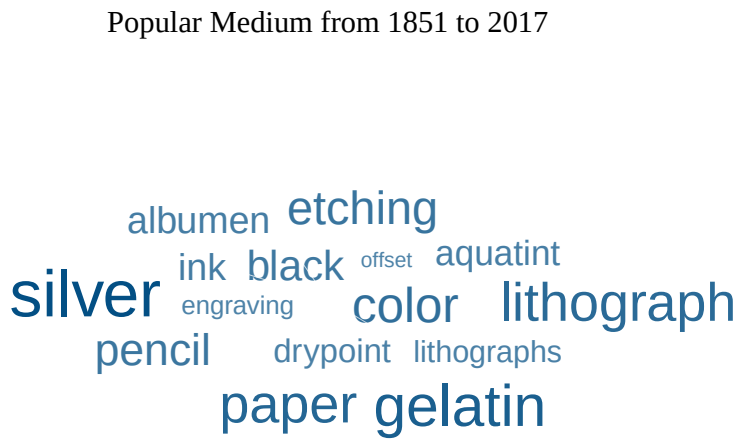


EDA: Gender and Medium

More artworks are created by male artists than female.

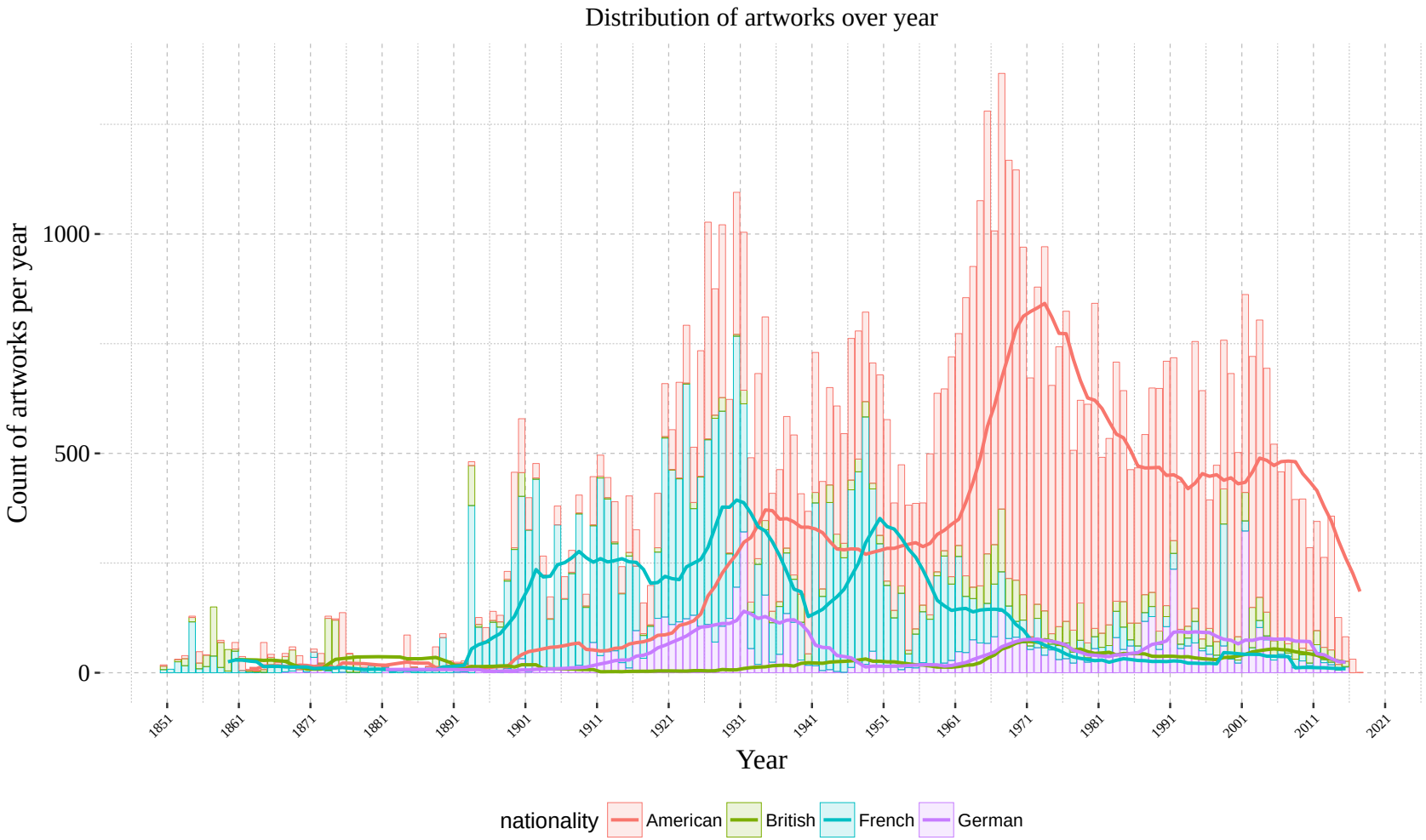
Most popular medium: silver, gelatin, lithograph





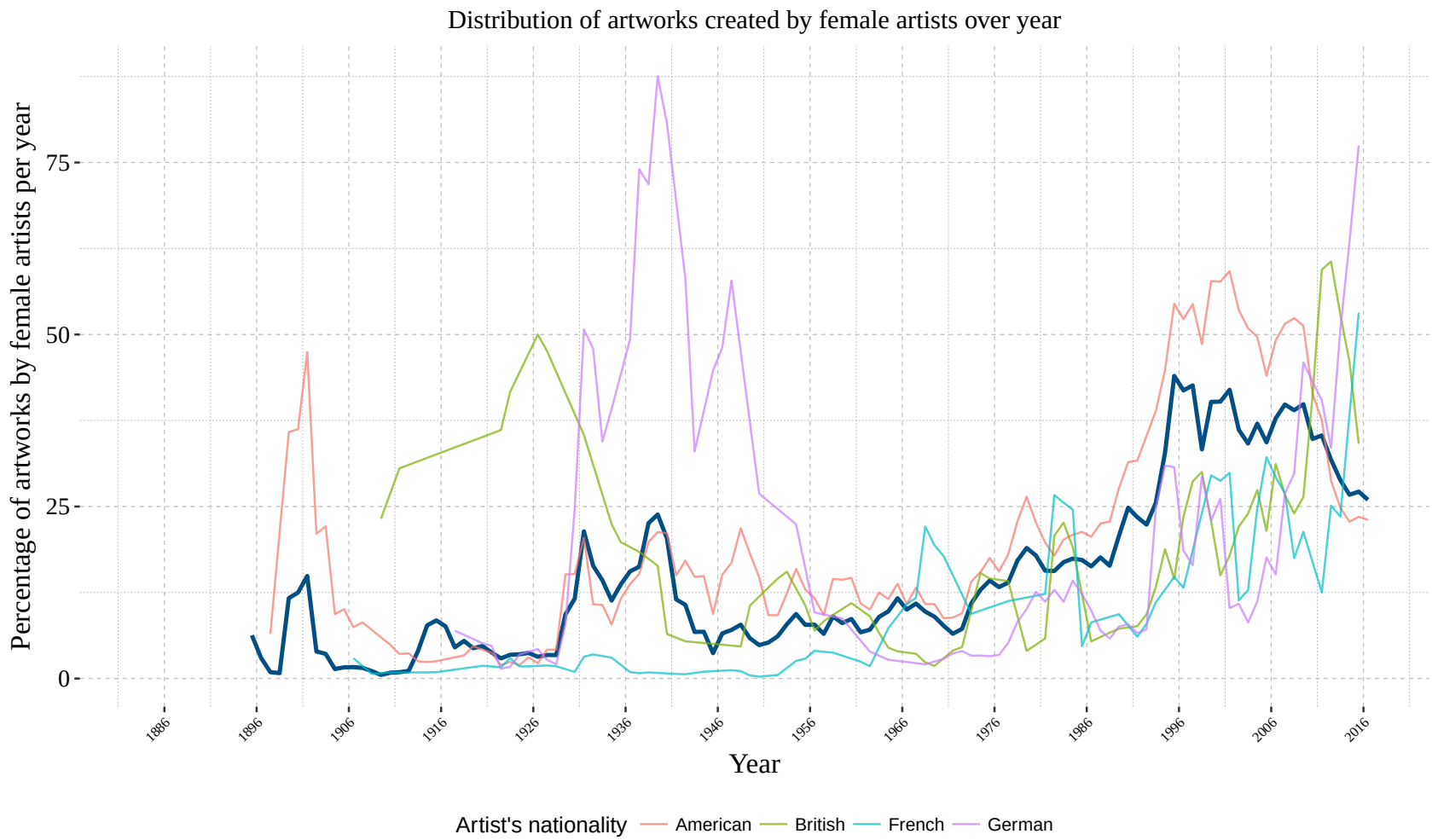
Graph 1: Nationality over time

French artists led the modern art movements in the early twentieth century, and America became the center of art since 1950s.



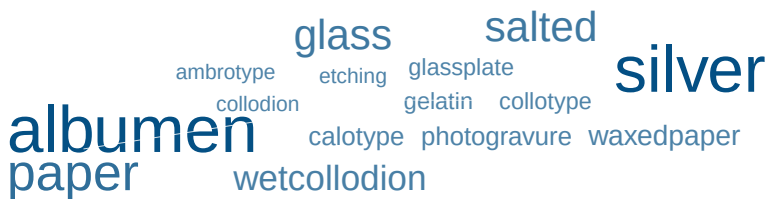
Graph 2: Gender over time

The percentage of artworks created by female artists increases over time.



Graph 3: Medium over time

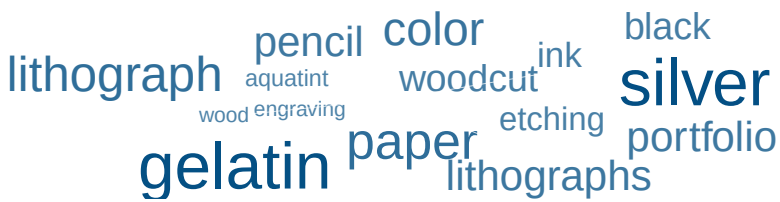
Popular Medium in 1850s



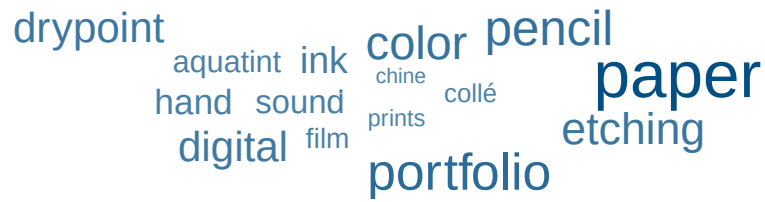
Popular Medium in 1910s



Popular Medium in 1950s



Popular Medium in 2000s



Discussion

- Limitations:
  - The count of artwork by eastern European artists are missing on the world map because of the split of Yugoslavia and Czechoslovakia.
- Future directions:
  - Faceted word clouds by variables other than time, such as classification or gender
  - Create subsets for different modern art movements ("Cubism", "Neo-impressionism", and etc.)
  - Explore the relationship between the year when artwork was created and the acquisition date by MoMA