

Put Your Monet Where Your Mouth Is

Caroline Shi



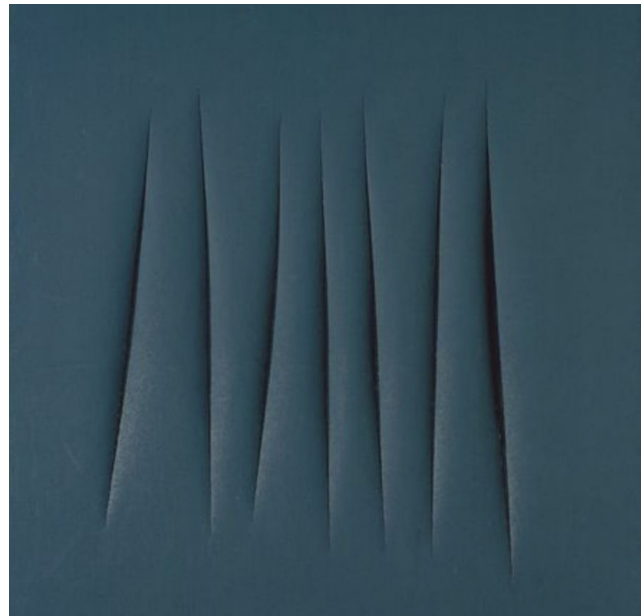
MoMA's dilemma

- 65% drop in visitors since COVID-19
- Budget cut of 45 million
- What does MoMA have a lot of that is popular in the art market?
- Best way to recoup losses by selling art from its collection?



What's our solution?

- Building a predictive model:
 - How much MoMA's art would sell for?
- Measures of success:
 - Non-tech -- layoffs, exhibitions
 - Tech -- accurate model



What do we sell? How do we pick?

- MoMA -- 200,000 artworks
- What artists do they have the most paintings and sculptures of?
- Comparing to art market data from 2017-19
 - What is popular?
 - What sells for the most?
 - What is a guarantee?

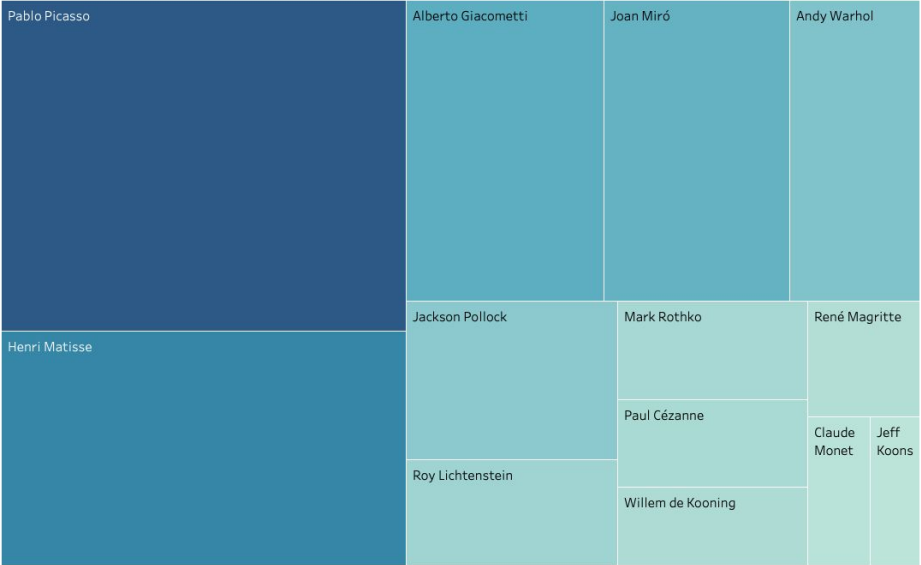


Risks & Assumptions

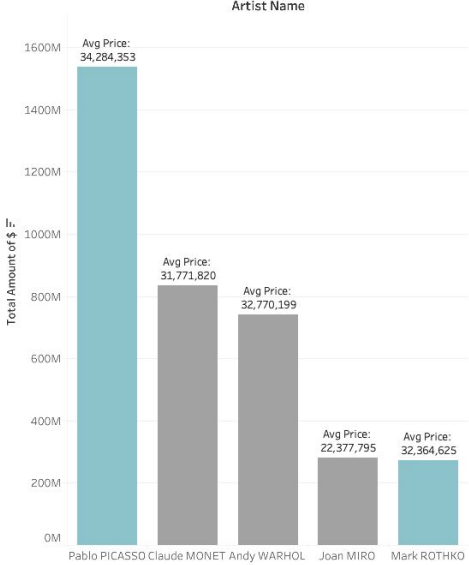
- Artist's career
- Painting provenance
- How to quantify human interest and subjective taste
- \$ driven up by competitive bidding
- How do we predict something that hinges so heavily on human feeling?



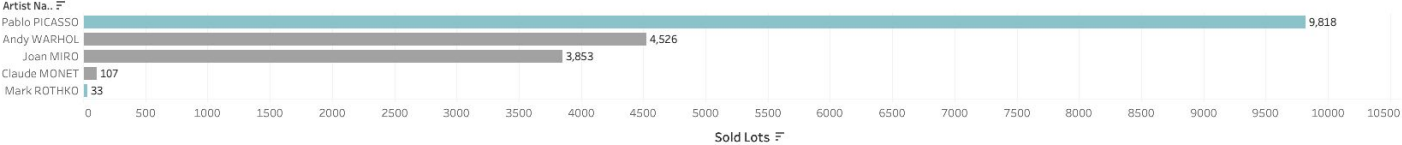
MoMA Paintings and Sculptures



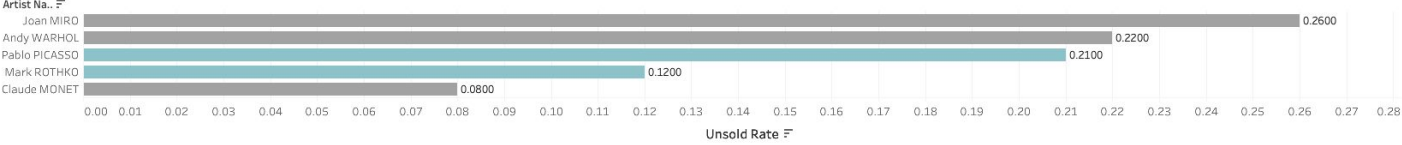
Total Amount of \$ Made at Auction



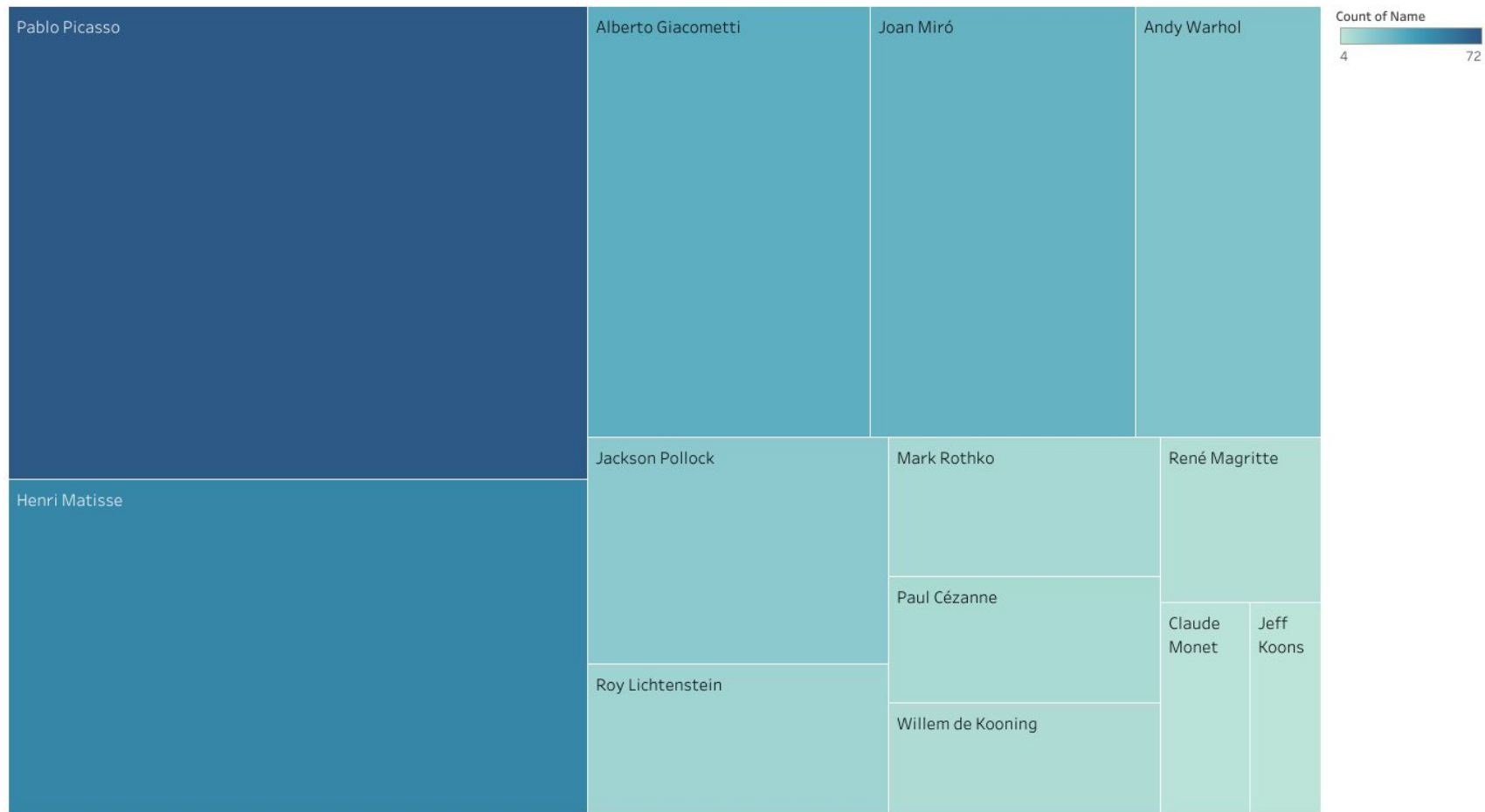
Most Lots Sold at Auction



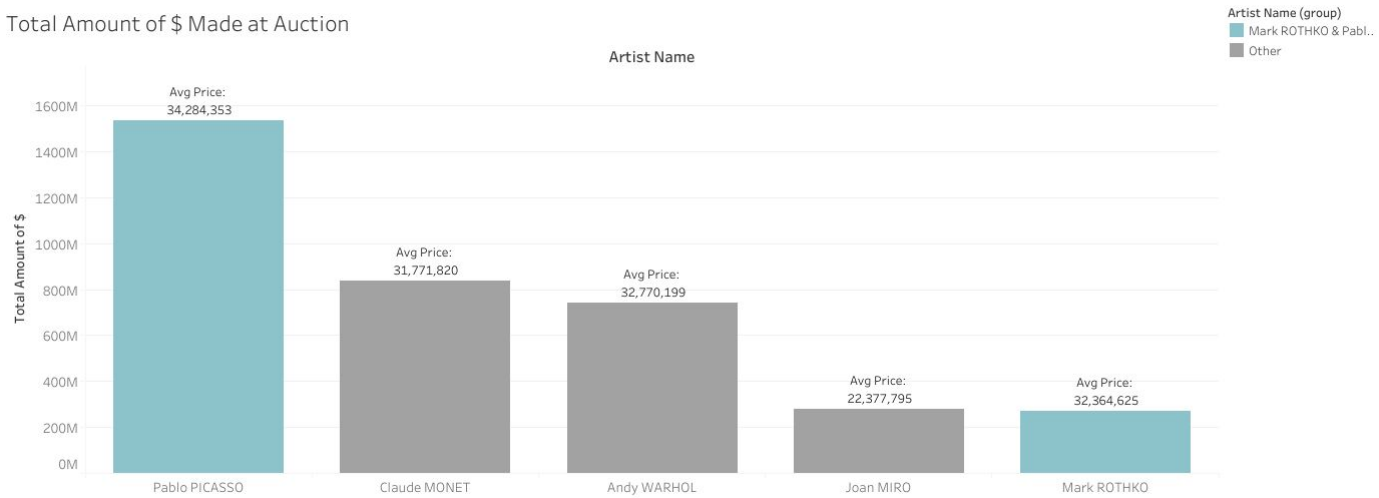
Unsold Rate at Auction



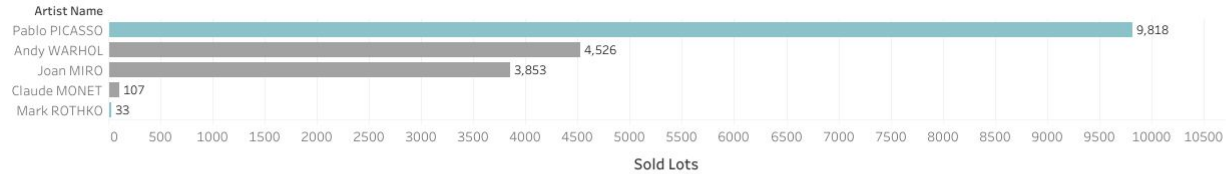
MoMA Paintings and Sculptures



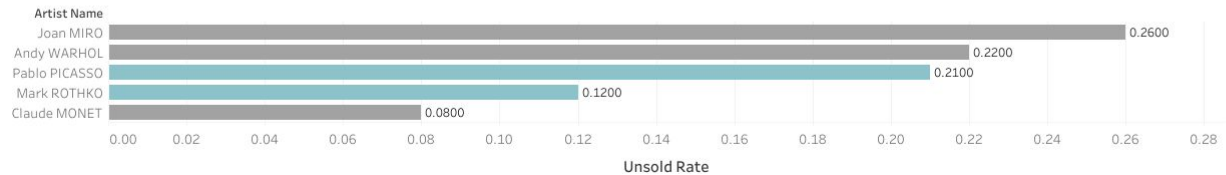
Total Amount of \$ Made at Auction



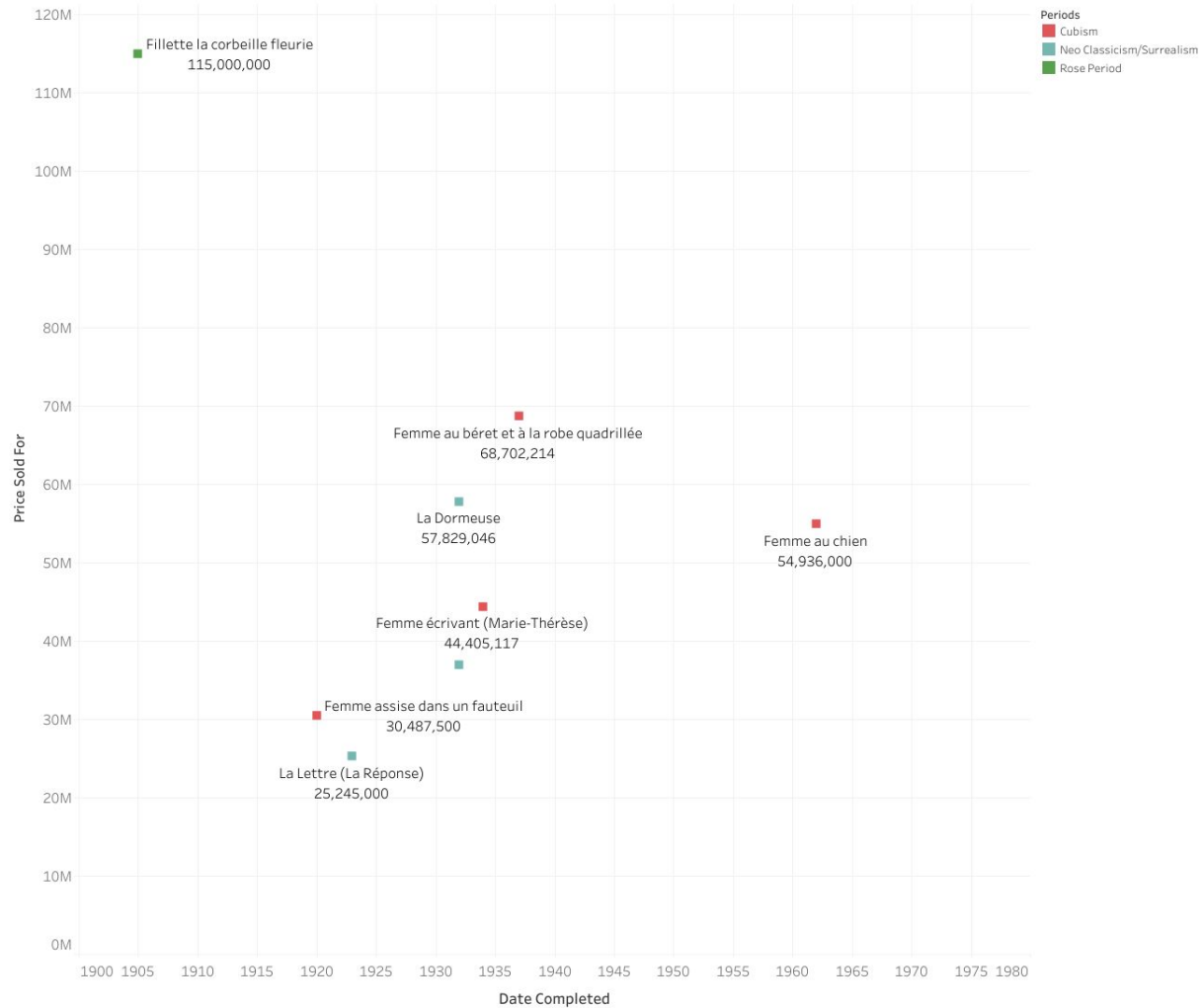
Most Lots Sold at Auction



Unsold Rate at Auction



Picasso at Auction



Future Work

When building a predictive model:

- Collecting more auction data
- More research into artists
 - Stylistic periods
 - Subject matter
 - Rarity of work

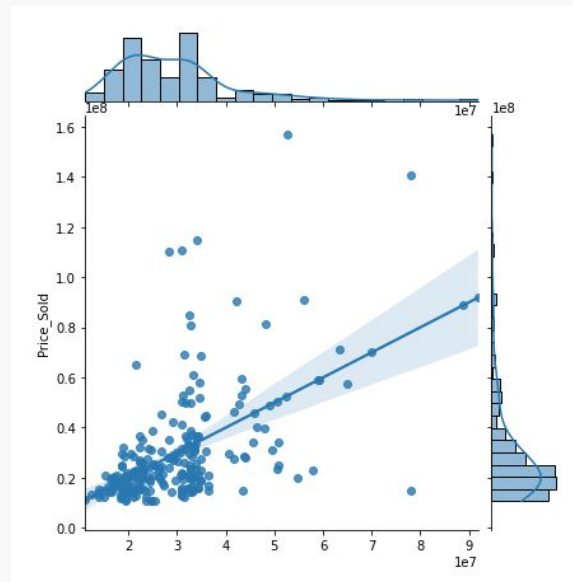
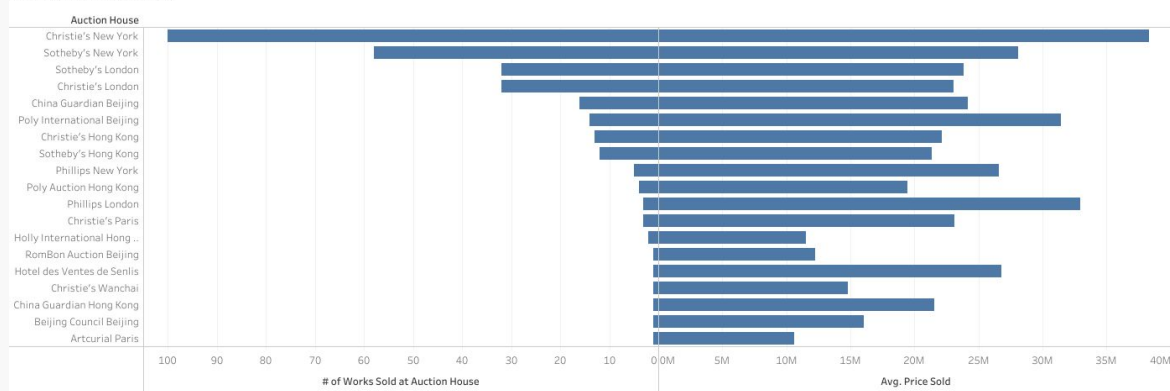




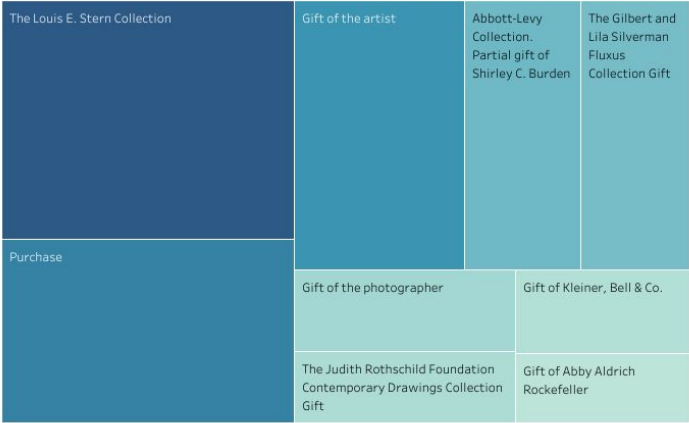
Thank you

appendix

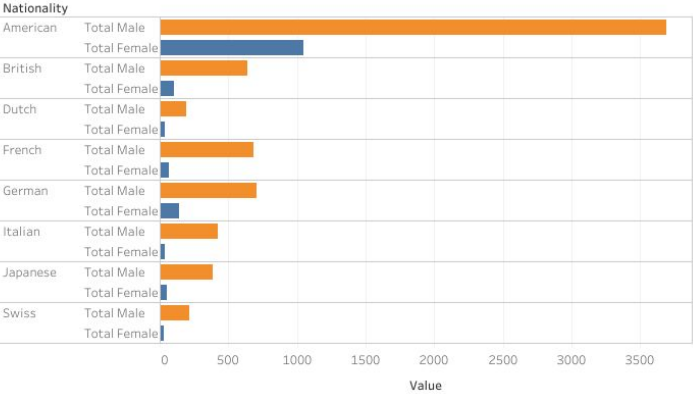
Auction House Stats



MoMA Acquisition Credits



Gender and Nationality



appendix 2

Acquisitions per Year

