Team 9

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Summary of Data



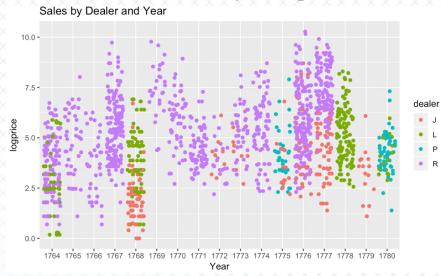
Key Takeaways

These predictors fit into several relatively well-defined categories:

- · Artist Characteristics
- Auction Characteristics
- Painting Content and Physical Features

Sparsely populated categories can easily lead to overfitting

Clean Data, Messy Interpretation





Text Analysis & Subject

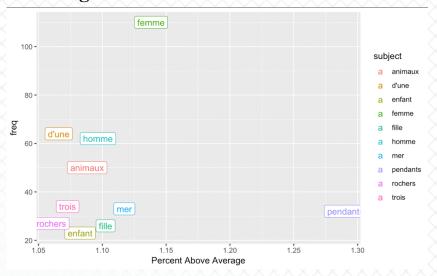


Summary

- Split into individual words
 - le chat est petit
- Remove stop words
 - le chat est petit
- Remove words that are not present in at least .5% of subjects
 - le chat est petit

89 Features Remained

High-Cost Words





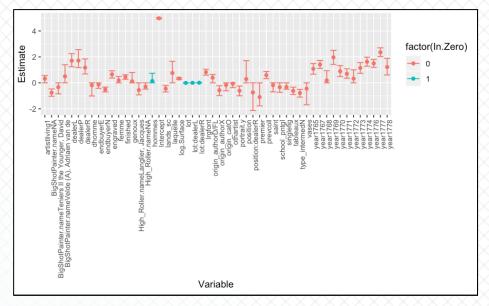
Model Choice



- 1. BART
- 2. XGBoost
- 3. Random Forest
- 4. BMA

Same performance on holdout as BMA

VARIABLES WITH POSTERIOR INCLUSION PROBABILITIES OVER .2







Top 3 Paintings







