

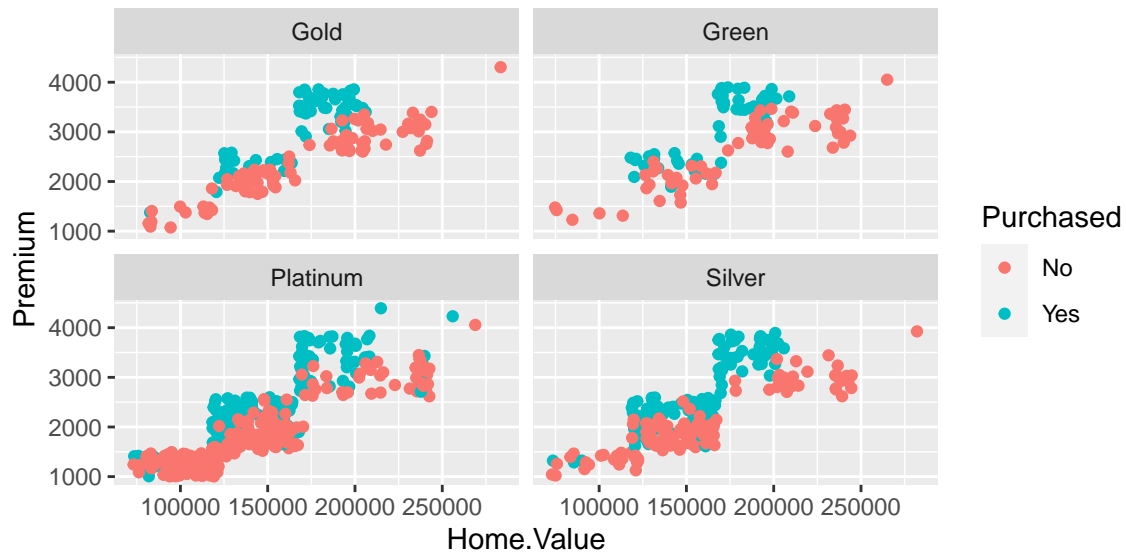
DA2 Resampling Homework

Data

Premiums3.csv summarizes the an insurance company website showing customer data and whether or not they purchased a policy. The following dimensions are provided:

- Premium (*Quoted Premium by Site*)
- Size (*Home Size*)
- Home.Value (*Home Value*)
- Credit (*Credit Rating*)
- Exterior (*Home Exterior*)
- Auto (*Auto Policy with Company*)
- Tier (*Projected Customer Tier*)
- Purchased (*Policy was Purchased*)

A visualization of Home.Value, Tier, Premium quoted, and Purchase outcome is shown below:



Deliverables:

Evaluate (*using Balanced Accuracy*) at least 3 models for predicting Purchase. Show your evaluation and discuss the strengths and weaknesses of each model.