

# Zillow Zingzestimate Project

*Presented by Ednalyn C. De Dios, aka "Dd"*

FINDINGS  
ETC.

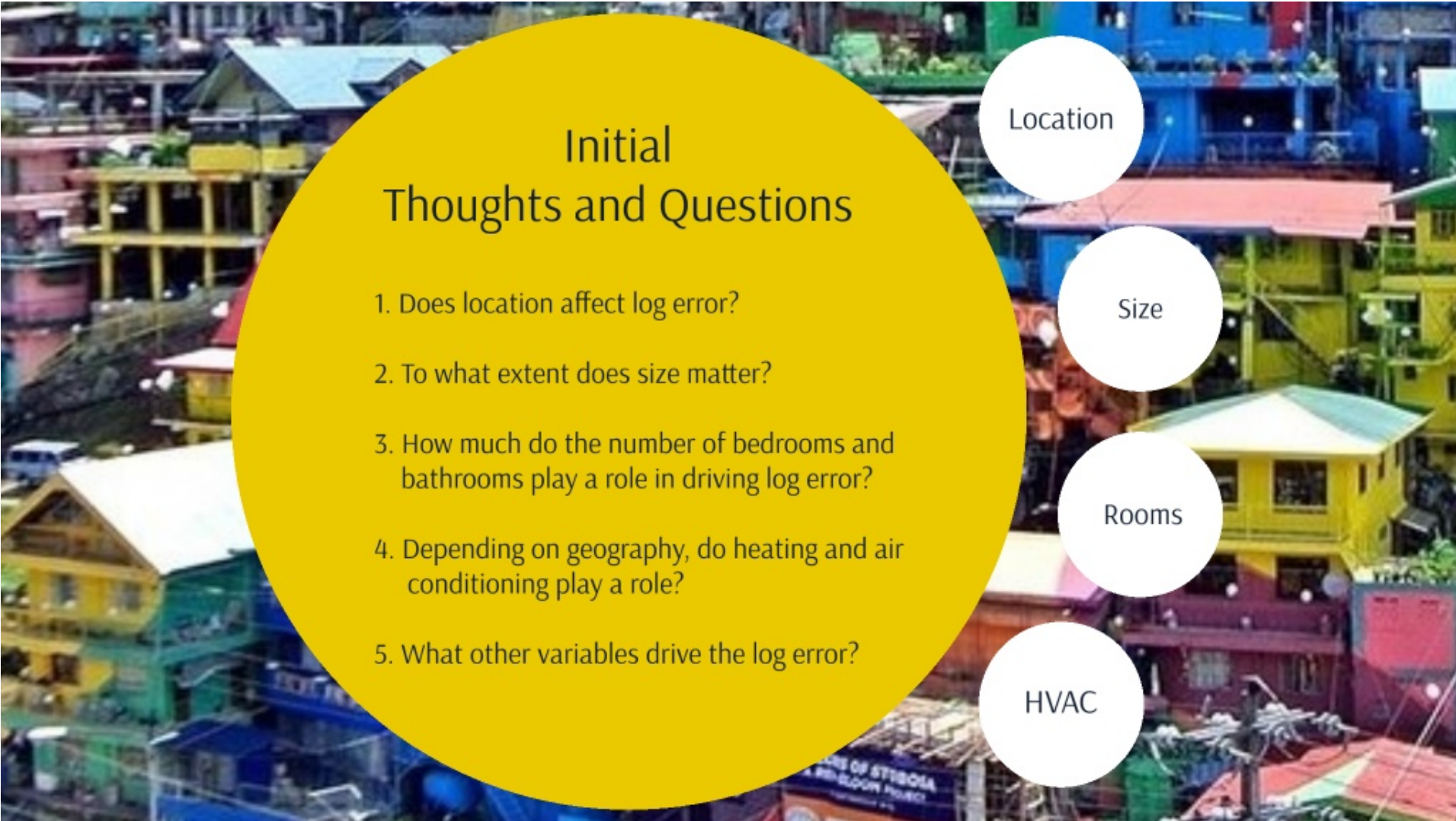
ANSWERS.

QUESTIONS  
???

DATA  
DICTIONARY

<https://bit.ly/ZingDd>





## Initial Thoughts and Questions

1. Does location affect log error?
2. To what extent does size matter?
3. How much do the number of bedrooms and bathrooms play a role in driving log error?
4. Depending on geography, do heating and air conditioning play a role?
5. What other variables drive the log error?

Location

Size

Rooms

HVAC











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# DATA DICTIONARY

**We will be using 2016 data.**

logerror: log function of the error between Zestimate and sale price of a home.

bathroomcnt: Number of bathrooms in home including fractional bathrooms.

bedroomcnt: Number of bedrooms in home.

calculatedfinishedsquarefeet: Calculated total finished living area of the home.

fullbathcnt: Number of full bathrooms (sink, shower + bathtub, and toilet) in home.

garagecarcnt: Total number of garages on the lot including an attached garage.

roomcnt: Total number of rooms in the principal residence.

yearbuilt: The Year the principal residence was built.

taxvaluedollarcnt: The total tax assessed value of the parcel.

taxamount: The total property tax assessed for that assessment year.



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## FINDINGS ET CETERA



A few outliers had to be removed.



Correlation coefficients similar with drivers of log error.



Residual plot indicates need for more investigation.

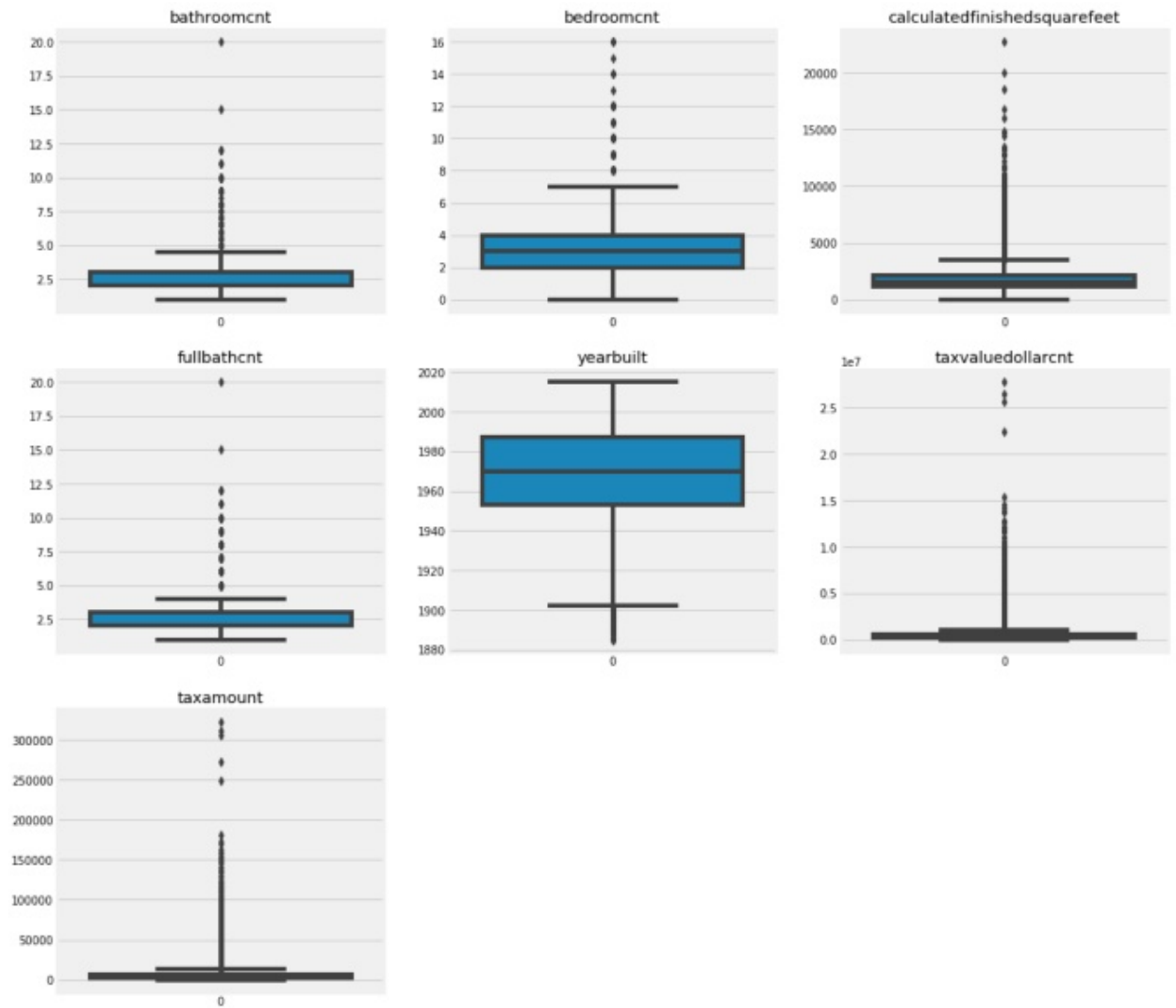
OUTLIERS

CORRELATION  
COEFFICIENTS

DRIVERS

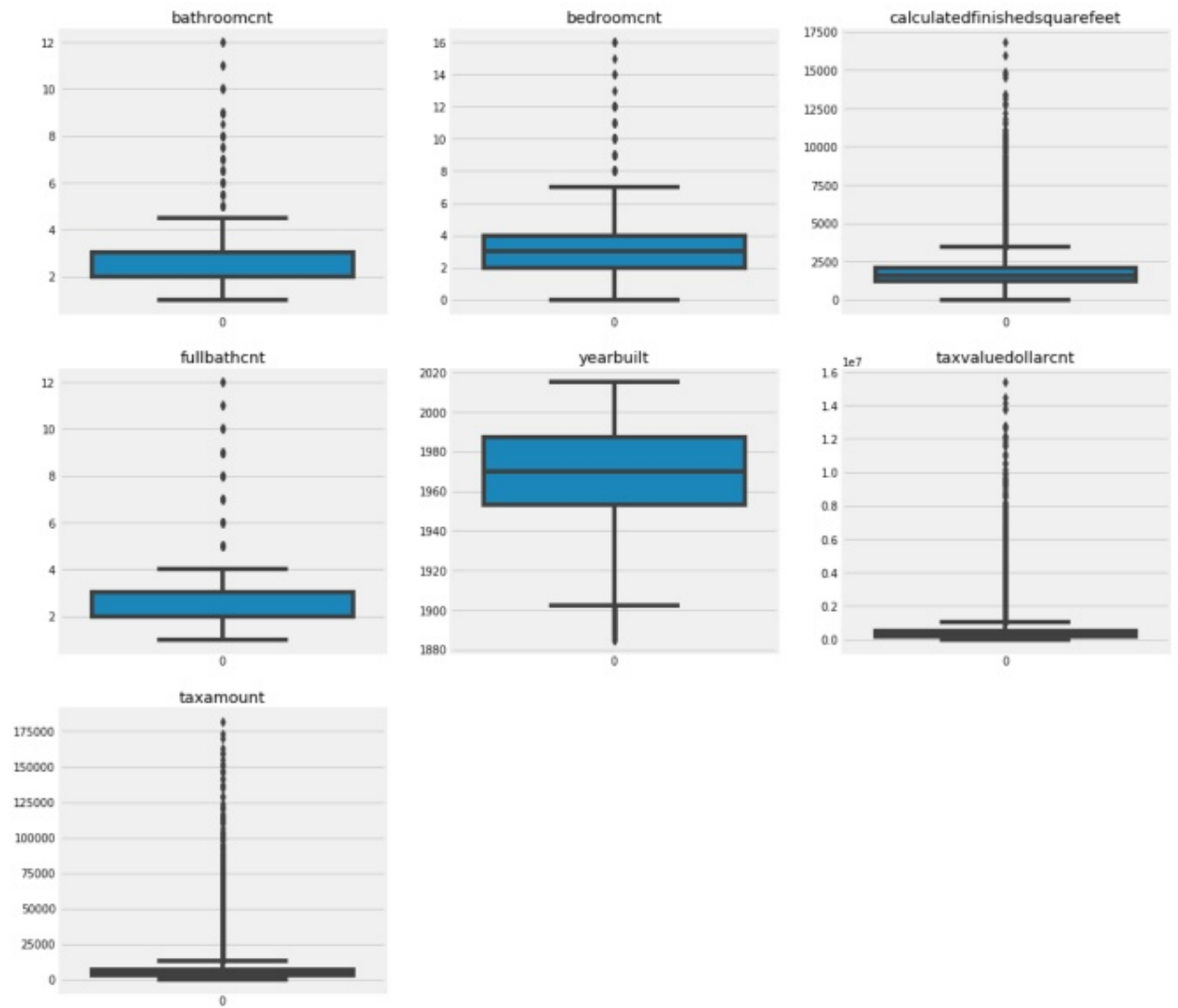
RESIDUALS

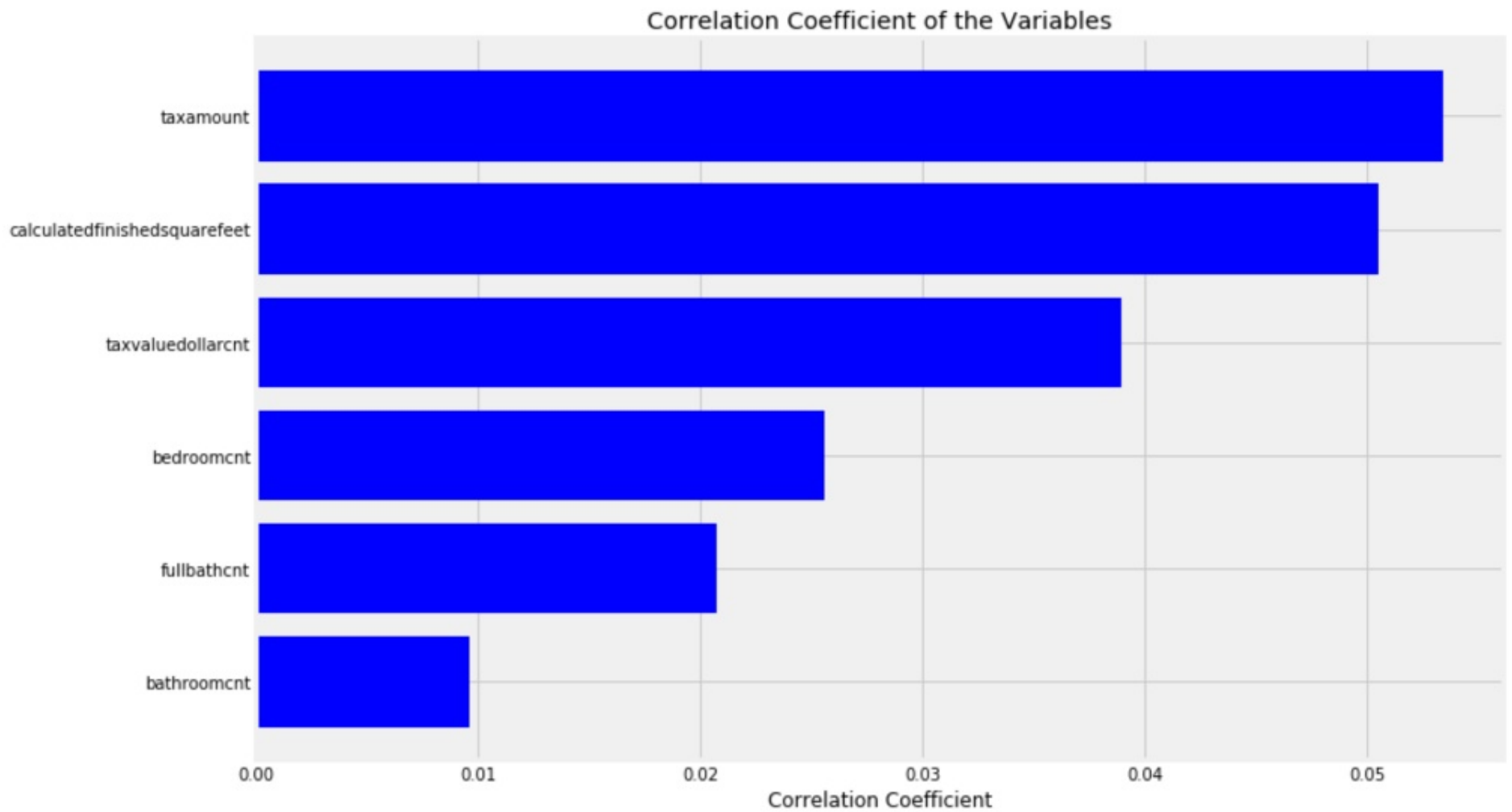
# WITH OUTLIERS



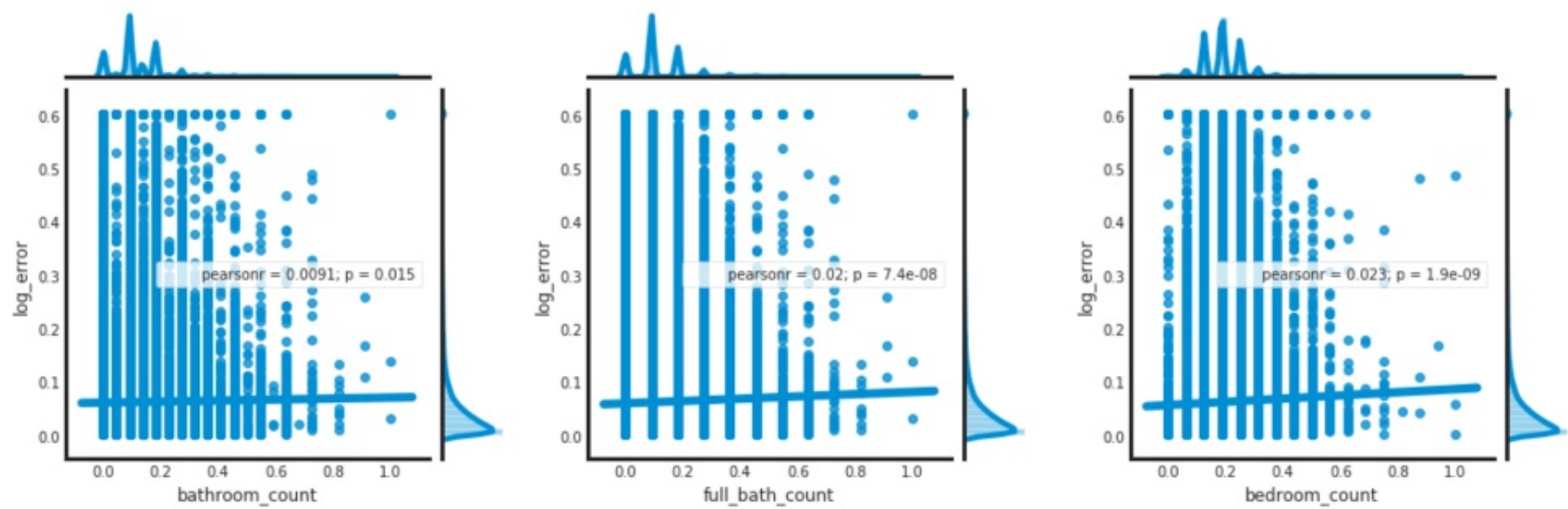


WITHOUT  
OUTLIERS



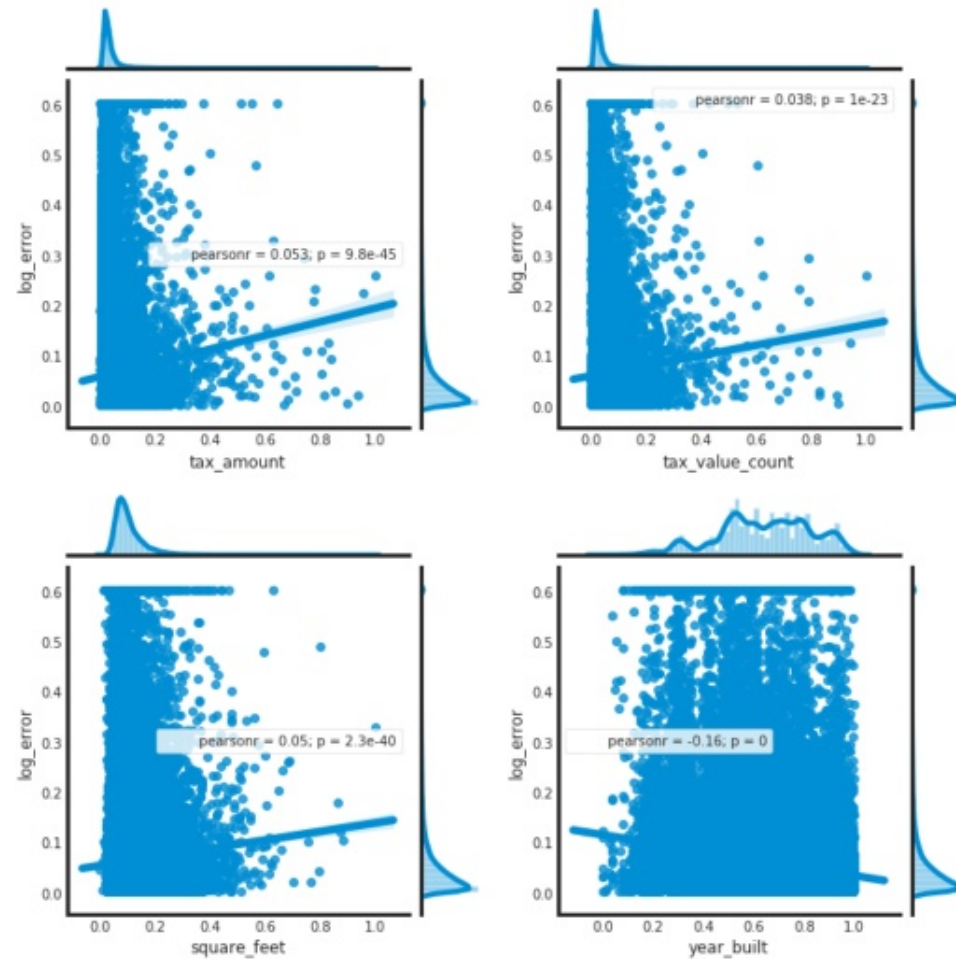


# EXHIBIT A

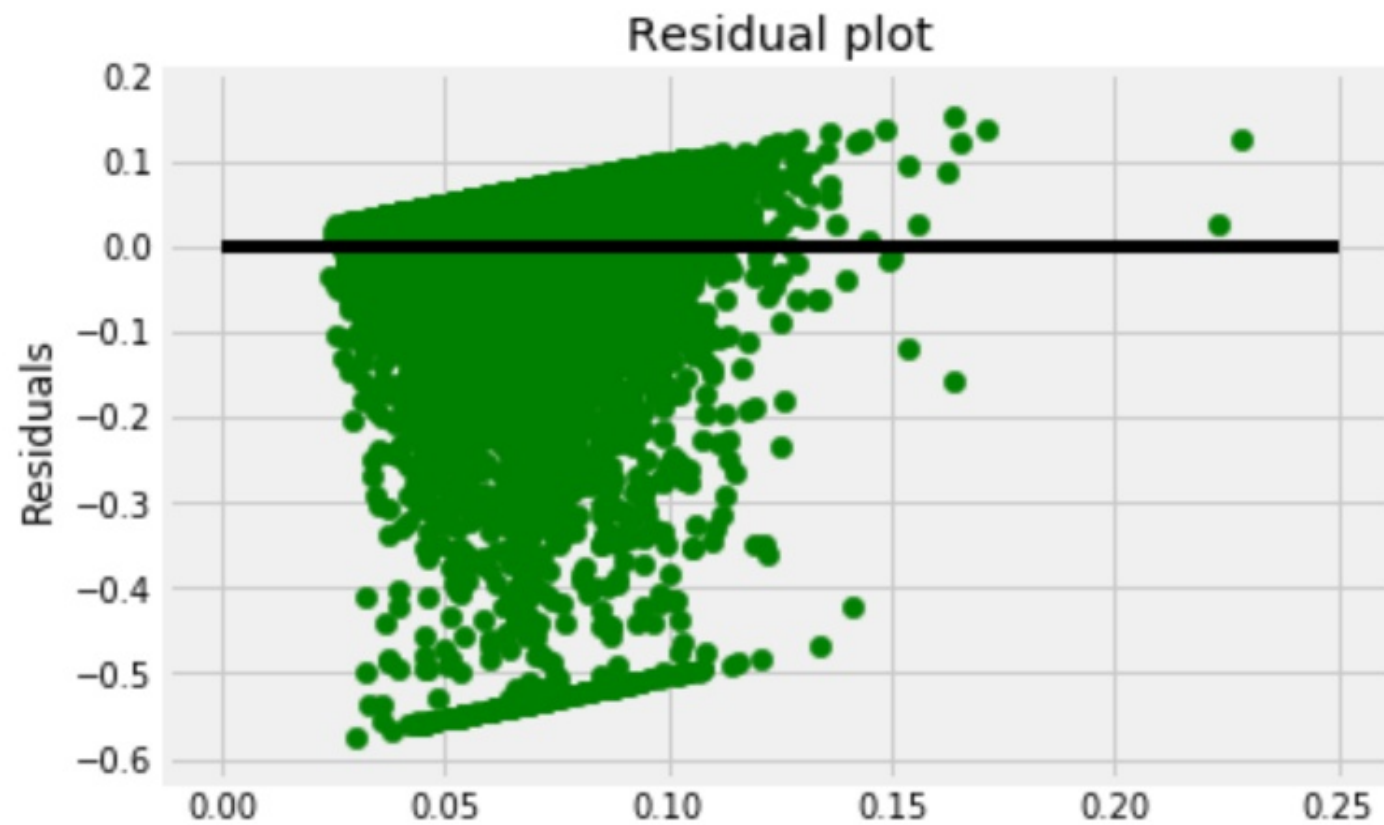




# EXHIBIT B



# RESIDUALS



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## ANSWERS.

1. Logerrors follow a normal distribution.
2. Taxes and square feet are the biggest drivers.
3. # of bathrooms and bedrooms do very little.

'calculatedfinishedsquarefeet'	0.25%
'bathroomcnt', 'fullbathcnt'	0.40%
'bedroomcnt'	0.05%
'calculatedfinishedsquarefeet', 'bathroomcnt', 'fullbathcnt', 'bedroomcnt', 'taxvaluedollarcnt', 'taxamount'	1.21%
'taxvaluedollarcnt', 'taxamount'	0.51%
'calculatedfinishedsquarefeet', 'taxvaluedollarcnt', 'taxamount', 'yearbuilt'	3.48%
'regionidzip'	0.00%
'airconditioningtypeid', 'heatingorsystemtypeid'	0.06%



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