# Part-I Simple Model

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#### Introduction

need intro

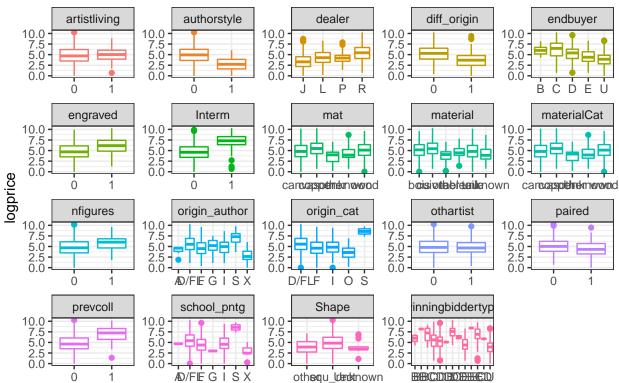
#### Data Manipulation and EDA

Looking at the summary of the dataset (See Appendix), we made following manipulation to the variables:

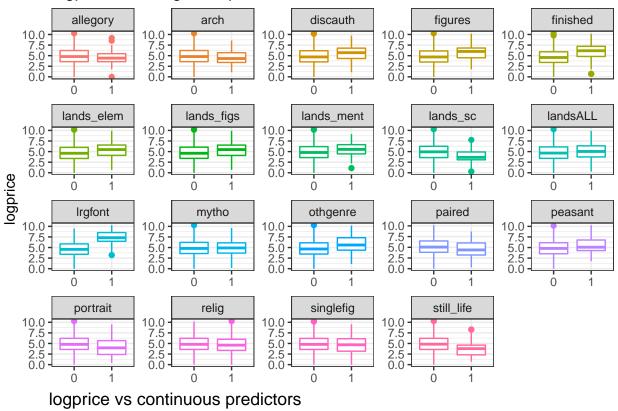
- history, original, type\_intermed, and pastorale have serious class imbalance problem, where certain value is seldomly observed. So we will discard these variables in modeling.
- The variable *authorstyle* contains too many NA's which is not sufficient to do any analysis, which will also be discarded. (need to add description to each variable deleted above, but it actually makes more sense to delete just a few of them before eda, then delete the rest looking at the eda)

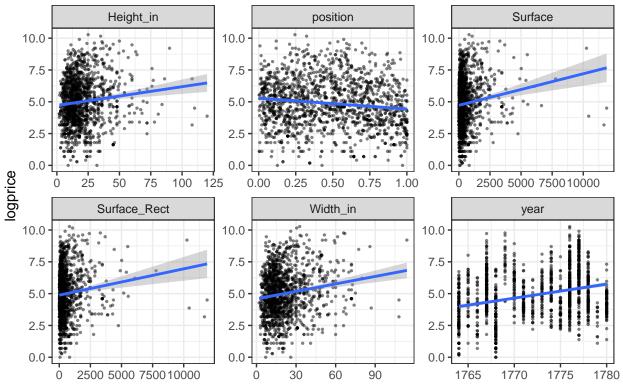
To start with, we first check on the emprirical distribution of the response variable. There are 2 variables, logprice and price. From the histogram (See Appendix), we can see that logprice, which is the logarithm of price, is more normally-distributed. Consider the normality assumption of linear regression, we will use logprice as the response variable.

### logprice vs categorical predictors

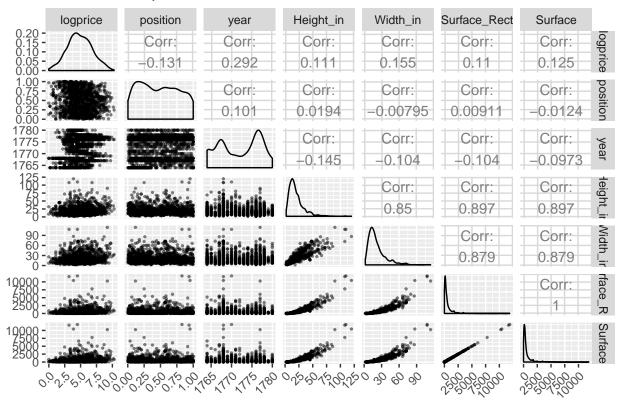


## logprice vs categorical predictors





## Pairwise Comparisons of Continuous Variables



Then we plot *logprice* against all continuous and categorical variables respectively. Here are some interesting findings.

#### For categorical variables:

- After cleaning the data, mat, material and materialCat record duplicate features. The Chi-squared test shows a strong correlation between these variables (See Appendix). We will only keep matCat in future analysis since it contains all the information in the other two.
- $origin\_author$  and  $origin\_cat$  record similar features which is suspecious of highly dependent on each other. We implement Chi-squared test (See Appendix) to test the hypothesis, which yield a p-value of 2.2e-16. Thus we will only keep  $origin\_cat$  since it contains less levels.
- At glance, strong predictors included dealer, diff\_origin, discauth, endbuyer, materialCat, interm, finished, engraved, figures, Irgfont, origin\_cat, paired, portrait, prevcoll, lands\_sc, lands\_elem. (Might need adjustments)

#### For continuous variables:

- other and position have most of their values gather around 0 and we cannot observe any obvious pattern.
- Diam-in and Surface Rnd contain too many NA's and therefore should not be included in the model.
- Surface, Surface\_Rnd and Surface\_Rect contain duplicate information, and Surface contains all the information in Surface\_Rect. So we will only keep Surface. Height\_in and Width\_in are discarded for similar reasoning.
- nfigures might need transformations, so I will exponentiate it in the model.
- Additionally, figures, nfigures and siglefig depict duplicate information. Looking at the empirical distribution, we decide to use

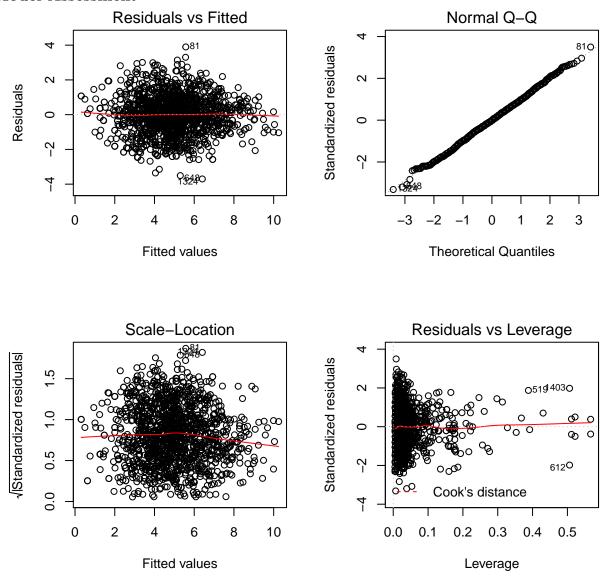
#### **Model Selection**

We first remove some variables because they have very similar levels and thus may not have significant influence on the response.

We use BIC to select the important variables. And we use the BIC result to build a new model and construct all interaction terms and then we use AIC to determine the final model. (may not appear in the write-up for bic part)

We deleted some interactions for the follow reasons. We deleted the interactions lands\_sc:discauth, paired:lands\_sc and artistliving:lands\_sc. First of all, for the interactions related to lands\_sc, we think the lands\_sc—if described as a plain landscape, is a variable describing a single dimension of painting content and we don't think it will interact with the variables describing the dealers' behaviour, the pairing of a painting, or the living info of the artists. Though the Adjusted R-squared decreased a little, from 0.66 to 0.659, we think it worth to make the model more reasonable.

#### Model Assessment



looking at the diagnostic plots, our model 1 seems to satisfy the assumptions of linear regression resonably well. From the Residual vs Fitted plot we can see equally spread residuals around a horizontal line without

any distinct patterns; The Normal Q-Q plot shows the residuals are almost normally-distributed. The Scale-Location plot shows that homoscedasticity is met. The Residual vs Leverage plot shows that most of the points are not influential. There are only very few points that falls outside of Cook's distance line. The plot identified the influential observation as #218 and #1129. We removed these two points and refitted the model. But removing the two points does not improve the R^2 nor does it help with the residual diagnostics plots (See Appendix the residual plot after refitting) So we will set Model 1 to our final model in part-I.

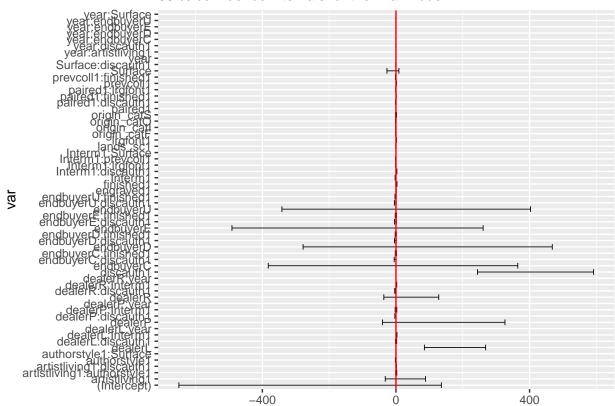
	rstudent	р	bonf.p	signif	cutoff
81	3.510978	0.0004602	0.6894504	FALSE	0.05

We see that one point has a large restudent residual, but given the number of points in the model this is not a very wild residual value, as indicated by the Bonferonni-Adjusted P value of 0.69, indicating that this is not a significantly distant outlier.

We also checked the largest Cook's distance, which is much less than one, indicating that there are no points with very large leverage in this model. From the plot wee that the points with large cook's distance do not appear to be significantly distant from the other points in the dataset, and their influence is not undue.

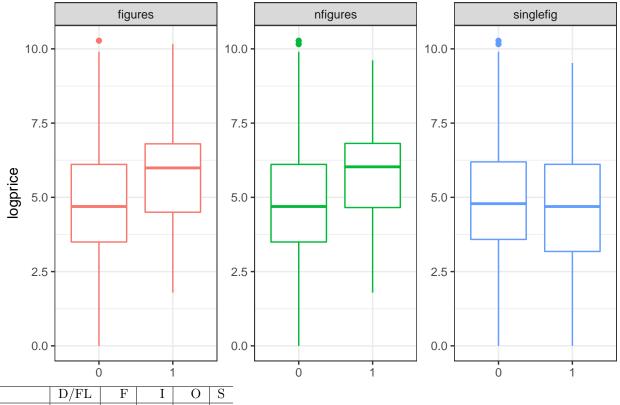
### Sumnmary and conclusions





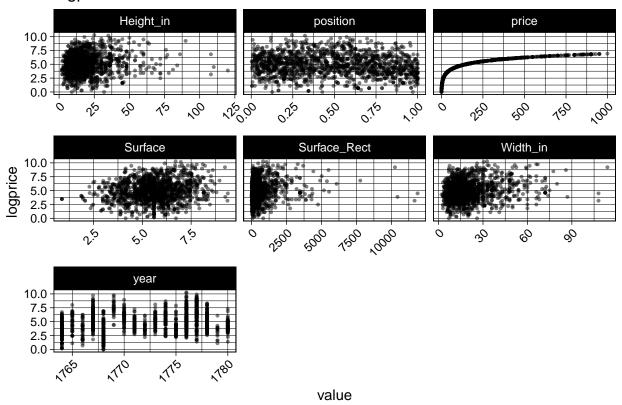
# Appendix

# logprice vs nfigures, figures and singlefig



	D/FL	F	I	О	S
A	6	0	0	1	0
D/FL	520	4	13	53	0
F	9	451	4	114	0
G	25	0	0	1	0
I	4	7	135	13	0
S	0	0	9	0	2
X	30	21	9	69	0

### logprice vs Transformed Quantitative Predictors



Call:  $lm(formula = logprice \sim dealer + year + origin\_cat + artistliving + authorstyle + endbuyer + Interm + Surface + engraved + prevcoll + paired + finished + lrgfont + lands\_sc + discauth + dealer:year + +dealer:Interm + dealer:discauth + year:artistliving + year:endbuyer + year:Surface + year:discauth + artistliving:authorstyle + artistliving:discauth + authorstyle:Surface + endbuyer:finished + endbuyer:discauth + Interm:Surface + Interm:prevcoll + Interm:lrgfont + Interm:discauth + Surface:discauth + prevcoll:finished + paired:lrgfont + paired:discauth, data = paint\_train\_trans)$ 

Residuals: Min 1Q Median 3Q Max -3.6999 -0.6999 -0.0084 0.7264 3.8991

 $Coefficients:\ Estimate\ Std.\ Error\ t\ value\ (Intercept)\ -257.051573\ 200.310123\ -1.283\ dealer L\ 176.843518$ 46.773723 3.781 dealer P143.085605 93.470425 1.531 dealer R45.901034 41.926343 1.095 year 0.146252  $0.113017 \ 1.294 \ \mathrm{origin} \ \mathrm{catF} - 0.652228 \ 0.080201 \ - 8.132 \ \mathrm{origin} \ \mathrm{catI} - 0.697565 \ 0.103330 \ - 6.751 \ \mathrm{origin} \ \mathrm{catO}$  $-1.132467 \ 0.120543 \ -9.395 \ \text{origin} \ \text{catS} \ 0.195315 \ 0.825809 \ 0.237 \ \text{artistliving1} \ 28.075785 \ 30.671354 \ 0.915$ authorstyle1 -0.645780 0.607575 -1.063 endbuyerC -8.782033 190.464908 -0.046 endbuyerD 94.957746190.213178 0.499 endbuyerE -115.030753 191.689435 -0.600 endbuyerU 30.642794 189.725766 0.162 Interm1  $-1.276699\ 0.616342\ -2.071\ \mathrm{Surface}\ -9.119096\ 9.105733\ -1.001\ \mathrm{engraved1}\ 0.727258\ 0.139197\ 5.225\ \mathrm{prevcoll1}$ 1.200293 0.167297 7.175 paired1 -0.259688 0.071736 -3.620 finished1 1.255594 0.901129 1.393 lrgfont1 1.137438 0.149004 7.634 lands sc1 -0.367156 0.112762 -3.256 discauth1 417.902026 88.689923 4.712 dealer L: year  $-0.098900\ 0.026372\ -3.750\ dealer$ P:year  $-0.080285\ 0.052597\ -1.526\ dealer$ R:year  $-0.024808\ 0.023656\ -1.049$ dealerL:Interm1 1.469755 0.810716 1.813 dealerP:Interm1 0.062646 1.242191 0.050 dealerR:Interm1 1.435328 0.478940 2.997 dealer L: discauth 1 0.444092 0.865395 0.513 dealer P: discauth 1 -1.590138 0.890114 -1.786 dealerR:discauth1 -2.812777 0.465821 -6.038 year:artistliving1 -0.015625 0.017296 -0.903 year:endbuyerC  $0.004930\ 0.107468\ 0.046\ year:$ endbuyer D $-0.053660\ 0.107326\ -0.500\ year:$ endbuyer E $-0.064626\ 0.108164\ 0.597$ year:endbuyerU -0.017720 0.107051 -0.166 year:Surface 0.005332 0.005138 1.038 year:discauth1 -0.232575 0.049850 -4.666 artistliving 1:authorstyle 1 0.868333 0.822690 1.055 artistliving 1:discauth 1 0.671771 0.463023 1.451 authorstyle1:Surface -0.047213 0.103586 -0.456 endbuyerC:finished1 -0.323477 0.914014 -0.354 endbuyer er D:finished<br/>1 -0.595502 0.910978 -0.654 endbuyer E:finished<br/>1 -0.339537 0.940883 -0.361 endbuyer U:finished<br/>1 -0.595502 0.910978 -0.654 endbuyer E:finished -1.069766 0.917325 -1.166 endbuyer C: discauth 1 -2.510757 1.441472 -1.742 endbuyer D: discauth 1 -1.766001

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1.375047 -1.284 endbuyerE:discauth1 -1.428412 1.398124 -1.022 endbuyerU:discauth1 -2.007086 1.393734
-1.440 Interm1:Surface 0.139416 0.087021 1.602 Interm1:prevcoll1 -0.505839 0.337125 -1.500 Interm1:lrgfont1
-0.560115\ 0.263296\ -2.127\ Interm1: discauth1\ 1.637538\ 0.549741\ 2.979\ Surface: discauth1\ -0.320604\ 0.121026
-2.649 \; prevcoll1: finished1 \; -1.015843 \; 0.311686 \; -3.259 \; paired1: finished1 \; 0.595253 \; 0.195932 \; 3.038 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; 1.015843 \; 0.311686 \; -3.259 \; paired1: lrg font1 \; -3.259 \; paired1: lrg font2 
-0.564608\ 0.235559\ -2.397\ paired1:discauth1\ -0.721266\ 0.342301\ -2.107\ Pr(>|t|)
(Intercept) 0.199605
dealerL 0.000163 dealerP 0.126036
dealer R 0.273787
year \ 0.195850
 origin\_catF 0.000000000000000899
                                                                                          origin cat<br/>I0.000000000021246902
                                                                                                                                                                       origin\_catO <
 0.00000000000000002 origin catS 0.813068
artistliving1 0.360148
authorstyle1 0.288014
endbuyer
C<br/> 0.963230
endbuyerD 0.617702
endbuyerE 0.548541
endbuyerU 0.871714
Interm1 0.038498 *
Surface 0.316769
engraved 1.000000200077269666 prevcoll 1.000000000001156275 paired 1.000305 finished 1.000305
 0.163727
lrgfont1\ 0.00000000000001342\ \ lands\_sc1\ 0.001156\ ^{**}\ discauth1\ 0.000002690714331104\ \ dealerL: year
0.000184 dealerP:year 0.127125
dealerR:vear 0.294488
dealerL:Interm1\ 0.070054 .
dealerP:Interm1 0.959785
dealerR:Interm1 0.002774 ** dealerL:discauth1 0.607914
dealer P: discauth 1 0.074238.
dealerR:discauth1 0.00000001978434753 year:artistliving1 0.366480
year:endbuyerC 0.963417
year:endbuyerD 0.617172
 year:endbuyerE 0.550276
 year:endbuyerU~0.868548
year:Surface 0.299596
 year:discauth1 0.000003364146190320 artistliving1:authorstyle1 0.291383
artistliving1:discauth1 0.147043
authorstyle1:Surface 0.648612
endbuyerC:finished1 0.723460
endbuyerD:finished1 0.513412
endbuyerE:finished1 0.718249
endbuyerU:finished1 0.243735
endbuyerC:discauth1 0.081757 .
endbuverD:discauth1 0.199236
endbuyerE:discauth1 0.307112
endbuyerU:discauth1 0.150062
Interm1:Surface 0.109351
Interm1:prevcoll1 0.133718
Interm1:lrgfont1 0.033563 *
Interm1:discauth1 0.002943 ** Surface:discauth1 0.008160 ** prevcoll1:finished1 0.001143 ** paired1:finished1
0.002424 ** paired1:lrgfont1 0.016662 *
paired1:discauth1 0.035280 *
— Signif. codes: 0 '' 0.001 '' 0.01 " 0.05 '' 0.1 '' 1
```

Residual standard error: 1.12 on 1440 degrees of freedom Multiple R-squared: 0.6727, Adjusted R-squared:

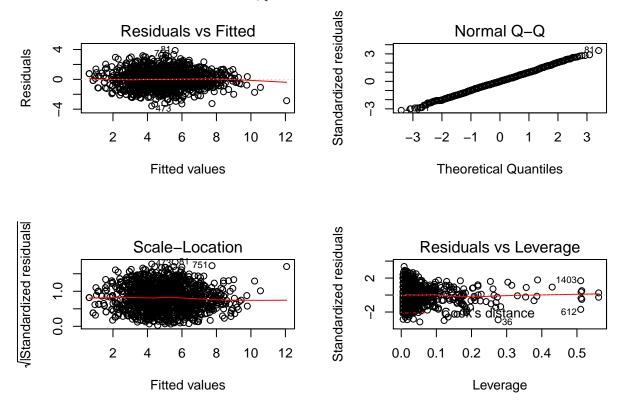


Table 1: Coefficient Summary for Final Model

cestimate   std.error   statistic   p.value   conf.low   conf.log   clustercept   -257.052   200.310   -1283   0.200   -649.982   335.879   dealerL   176.844   46.774   3.781   0.000   85.092   268.595   dealerR   45.901   41.926   1.055   0.274   -36.342   128.144   year   0.146   0.113   1.294   0.196   -0.075   0.368   origin_catF   -0.652   0.080   -8.132   0.000   -0.090   -0.495   origin_catF   -0.652   0.080   -8.132   0.000   -0.900   -0.495   origin_catF   0.1652   0.080   -8.132   0.000   -0.900   -0.495   origin_catS   0.195   0.826   0.237   0.813   -1.425   1.815   origin_catS   0.195   0.826   0.237   0.813   -1.425   1.815   artistiving   28.076   30.671   0.915   0.360   -32.090   88.241   authorstyle1   -0.646   0.608   -1.063   0.288   -1.838   0.546   endbuyerD   94.958   190.213   0.499   0.618   -278.167   468.082   endbuyerD   30.643   189.726   0.162   0.872   -341.526   402.811   Interm1   -1.277   0.616   -2.071   0.038   -2.486   -0.068   0.084   -49.105   260.990   endbuyerD   0.727   0.139   5.225   0.000   0.454   1.000   prevcoll1   1.200   0.167   7.175   0.000   0.454   1.000   prevcoll1   1.226   0.901   1.333   0.164   -0.512   3.023   prevcoll1   1.236   0.901   1.333   0.164   -0.512   3.023   prevcoll1   1.236   0.901   1.333   0.164   -0.512   3.023   prevcoll1   1.137   0.149   -0.886   0.000   0.454   1.030   and   a	Table 1: Coefficient Summary for Final Model								
dealer		estimate	std.error	statistic	p.value	conf.low	conf.high		
dealerP									
dealerR									
year         0.146         0.113         1.294         0.196         -0.075         0.368           origin_catF         -0.652         0.080         -8.132         0.000         -0.810         -0.495           origin_catO         -1.132         0.121         -9.395         0.000         -1.369         -0.896           origin_catS         0.195         0.826         0.237         0.813         -1.425         1.815           artistiving1         28.076         30.671         0.915         0.360         -23200         88.241           authorstyle1         -0.646         0.608         -1.063         0.288         -1.838         0.546           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerU         30.643         189.726         0.162         0.872         -31.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         -2.486         -0.088           Surface         -9.119         9.106         -1.001         0.317         -26.981									
origin_catI         -0.652         0.080         -8.132         0.000         -0.810         -0.495           origin_catI         -0.698         0.103         -6.751         0.000         -0.900         -0.495           origin_catO         -1.132         0.121         -9.395         0.000         -1.369         -0.896           origin_catS         0.195         0.826         0.237         0.813         -1.425         1.815           artistliving1         28.076         30.671         0.915         0.360         -32.090         88.241           authorstyle1         -0.646         0.608         -1.063         0.288         -1.838         0.546           endbuyerC         -8.782         190.465         -0.046         0.963         -382.400         364.836           endbuyerE         -115.031         191.689         -0.600         0.549         491.051         260.990           endbuyerU         30.643         189.726         0.162         0.872         -341.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         -2.486         -0.088           Surface         -9.119         9.106         -1.010         0.317 <td< td=""><td>dealerR</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	dealerR								
origin_catI         -0.698         0.103         -6.751         0.000         -0.900         -0.495           origin_catS         0.132         0.121         -9.395         0.000         -1.369         -0.896           origin_catS         0.195         0.826         0.237         0.813         1.425         1.815           artistliving1         28.076         30.671         0.915         0.360         -32.090         88.241           authorstyle1         -0.646         0.608         -1.033         0.288         -1.838         0.546           endbuyerD         -9.4958         190.213         0.499         0.618         -278.167         468.082           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerU         30.643         189.726         0.162         0.872         341.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         -2.486         -0.082           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           Interm1         1.277         0.616         -2.071         0.038         2.486 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
origin_catS         0.195         0.826         0.237         0.813         -1.425         1.816           origin_catS         0.195         0.826         0.237         0.813         -1.425         1.815           artistliving1         28.076         30.671         0.915         0.360         -32.909         88.241           authorstyle1         -0.646         0.608         -1.063         0.288         -1.838         0.546           endbuyerD         -9.458         190.213         0.499         0.618         -278.167         468.082           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerD         30.3643         189.726         0.600         0.549         -491.051         260.990           endbuyerE         -115.031         191.689         -0.600         0.549         -491.051         260.990           endbuyerE         -1119         9.106         -1.001         0.317         -26.881         8.743           endbuyerE         -9.119         9.106         -1.001         0.317									
origin_catS         0.195         0.826         0.237         0.813         -1.425         1.815           artistliving1         28.076         30.671         0.915         0.360         -32.090         88.241           authorstyle1         -0.646         0.608         -1.063         0.288         -1.838         0.546           endbuyerD         94.958         190.213         -0.406         0.963         -382.400         364.836           endbuyerE         -115.031         191.689         -0.600         0.549         -491.051         260.990           endbuyerU         30.643         189.726         0.162         0.872         -341.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         -2.486         -0.068           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           engravedl         0.727         0.139         5.225         0.000         0.454         1.000           prevcoll1         1.200         0.167         7.175         0.000         0.872         1.528           pairedl         -0.256         0.072         -3.620         0.000         -0.451		-0.698	0.103	-6.751	0.000	-0.900	-0.495		
artistliving1         28.076         30.671         0.915         0.360         -32.090         88.241           authorstyle1         -0.646         0.608         -1.063         0.288         -1.838         0.546           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerE         -115.031         191.689         -0.600         0.549         -491.051         260.990           endbuyerU         30.643         188.726         0.162         0.872         -341.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         -2.486         -0.068           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           engraved1         0.727         0.139         5.225         0.000         0.454         1.000           pired1         1.200         0.167         7.175         0.000         0.872         1.528           paired1         -0.260         0.072         -3.620         0.000         -0.400         -0.119           finished1         1.137         0.149         7.634         0.000         0.845	origin_catO	-1.132	0.121	-9.395	0.000	-1.369	-0.896		
authorstyle1         -0.646         0.608         -1.063         0.288         -1.838         0.546           endbuyerD         -8.782         190.465         -0.046         0.963         -382.400         364.882           endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerU         30.643         189.726         0.162         0.872         -341.526         402.811           IntermI         -1.277         0.616         -2.071         0.038         -2.486         -0.068           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           engravedI         0.727         0.139         5.225         0.000         0.454         1.000           prevcoll1         1.200         0.167         7.175         0.000         0.454         1.000           prevcoll1         1.200         0.072         -3.620         0.000         -0.482         1.528           pairedI         -0.260         0.072         -3.620         0.000         -0.484         1.430           finishedI         1.256         0.901         1.333         0.164         -0.512         3.	origin_catS	0.195	0.826	0.237	0.813	-1.425	1.815		
endbuyerD         -8.782         190.465         -0.046         0.963         382.400         364.86           endbuyerD         94.958         190.213         0.499         0.618         -278.167         486.826           endbuyerE         -115.031         191.689         -0.600         0.549         491.051         260.990           endbuyerU         30.643         189.726         0.162         0.872         -341.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         2.486         -0.068           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           engraved1         0.727         0.139         5.225         0.000         0.454         1.000           percoll1         1.200         0.167         7.175         0.000         0.872         1.528           paired1         1.256         0.901         1.339         0.164         -0.512         3.023           lrgfont1         1.137         0.149         7.634         0.000         0.845         1.430           lands sc1         -0.367         0.113         -3.256         0.001         -0.588         -0.14	artistliving1	28.076	30.671	0.915	0.360	-32.090	88.241		
endbuyerD         94.958         190.213         0.499         0.618         -278.167         468.082           endbuyerE         -115.031         191.689         -0.600         0.549         491.051         260.981           endbuyerU         30.643         189.726         0.162         0.872         -341.526         402.811           Interm1         -1.277         0.616         -2.071         0.038         -2.486         -0.068           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           engravedI         0.727         0.139         5.225         0.000         0.454         1.000           prevcoll1         1.200         0.167         7.175         0.000         0.454         1.000           pairedI         -0.260         0.072         -3.620         0.000         -0.400         -0.119           finishedI         1.256         0.901         1.393         0.164         -0.512         3.023           lrgfont1         1.137         0.149         7.634         0.000         0.855         1.430           lands_scI         -0.367         0.113         -3.256         0.001         -0.588         -0.146	authorstyle1	-0.646	0.608	-1.063	0.288	-1.838	0.546		
endbuyerE         -115.031         191.689         -0.600         0.549         4491.051         260.990           endbuyerU         30.643         189.726         0.162         0.872         -341.526         402.811           IntermI         -1.277         0.616         -2.071         0.038         -2.486         -0.068           Surface         -9.119         9.106         -1.001         0.317         -26.981         8.743           engraved1         0.727         0.139         5.225         0.000         0.454         1.000           percoll1         1.200         0.167         7.175         0.000         0.454         1.000           paired1         -0.260         0.072         -3.620         0.000         -0.400         -0.119           finished1         1.256         0.901         1.333         0.164         -0.512         3.023           lrgfont1         1.137         0.149         7.634         0.000         0.845         1.430           discauth1         417.902         88.690         4.712         0.000         243.927         591.877           dealerLyear         -0.099         0.026         -3.750         0.000         -0.151         -0.04	endbuyerC	-8.782	190.465	-0.046	0.963	-382.400	364.836		
Intermal	endbuyerD	94.958	190.213	0.499	0.618	-278.167	468.082		
Interm1	endbuyerE	-115.031	191.689	-0.600	0.549	-491.051	260.990		
Interm1	endbuyerU	30.643	189.726	0.162	0.872	-341.526	402.811		
engraved1         0.727         0.139         5.225         0.000         0.454         1.000           prevcoll1         1.200         0.167         7.175         0.000         0.872         1.528           paired1         -0.260         0.072         -3.620         0.000         -0.400         -0.119           finished1         1.256         0.901         1.393         0.164         -0.512         3.023           lrgfont1         1.137         0.149         7.634         0.000         0.845         1.430           lands_scl         -0.367         0.113         -3.256         0.001         -0.588         -0.146           discauth1         417.992         88.690         4.712         0.000         243.927         591.877           dealerLyear         -0.099         0.026         -3.750         0.000         -0.151         -0.047           dealerR:year         -0.080         0.053         -1.526         0.127         -0.183         0.023           dealerR:year         -0.025         0.024         -1.049         0.294         -0.071         0.022           dealerR:Interm1         1.470         0.811         1.813         0.070         -0.121         3.0		-1.277	0.616		0.038	-2.486	-0.068		
engraved1         0.727         0.139         5.225         0.000         0.454         1.000           prevcoll1         1.200         0.167         7.175         0.000         0.872         1.528           paired1         -0.260         0.072         -3.620         0.000         -0.400         -0.119           finished1         1.256         0.901         1.393         0.164         -0.512         3.023           lrgfont1         1.137         0.149         7.634         0.000         0.845         1.430           lands_scl         -0.367         0.113         -3.256         0.001         -0.588         -0.146           discauth1         417.992         88.690         4.712         0.000         243.927         591.877           dealerLyear         -0.099         0.026         -3.750         0.000         -0.151         -0.047           dealerR:year         -0.080         0.053         -1.526         0.127         -0.183         0.023           dealerR:year         -0.025         0.024         -1.049         0.294         -0.071         0.022           dealerR:Interm1         1.470         0.811         1.813         0.070         -0.121         3.0	Surface								
Direction									
Paired1									
Inished1	-								
Ingfont1									
lands_sc1									
discauth1         417.902         88.690         4.712         0.000         243.927         591.877           dealerL:year         -0.099         0.026         -3.750         0.000         -0.151         -0.047           dealerP:year         -0.080         0.053         -1.526         0.127         -0.183         0.023           dealerL:Interm1         1.470         0.811         1.813         0.070         -0.121         3.060           dealerP:Interm1         0.063         1.242         0.050         0.960         -2.374         2.499           dealerR:Interm1         1.435         0.479         2.997         0.003         0.496         2.375           dealerP:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerR:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         -0.040         <									
dealerL:year         -0.099         0.026         -3.750         0.000         -0.151         -0.047           dealerP:year         -0.080         0.053         -1.526         0.127         -0.183         0.023           dealerR:year         -0.025         0.024         -1.049         0.294         -0.071         0.022           dealerL:Interm1         1.470         0.811         1.813         0.070         -0.121         3.060           dealerR:Interm1         0.063         1.242         0.050         0.960         -2.374         2.499           dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         -0.903         0.366         -0.050         0.216           year:endbuyerD         -0.054         0.107         -0.500									
dealerP:year         -0.080         0.053         -1.526         0.127         -0.183         0.023           dealerR:year         -0.025         0.024         -1.049         0.294         -0.071         0.022           dealerL:Interm1         1.470         0.811         1.813         0.070         -0.121         3.060           dealerP:Interm1         0.063         1.242         0.050         0.960         -2.374         2.499           dealerR:Interm1         1.435         0.479         2.997         0.003         0.496         2.375           dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:arbdbuyerC         0.005         0.107         -0.903         0.366         -0.050         0.018           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.									
dealerR:year         -0.025         0.024         -1.049         0.294         -0.071         0.022           dealerL:Interm1         1.470         0.811         1.813         0.070         -0.121         3.060           dealerP:Interm1         0.063         1.242         0.050         0.960         -2.374         2.499           dealerR:Interm1         1.435         0.479         2.997         0.003         0.496         2.375           dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         -0.903         0.366         -0.050         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         <									
dealerL:Interm1         1.470         0.811         1.813         0.070         -0.121         3.060           dealerP:Interm1         0.063         1.242         0.050         0.960         -2.374         2.499           dealerR:Interm1         1.435         0.479         2.997         0.003         0.496         2.375           dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         -0.903         0.366         -0.050         0.018           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:endbuyerU         -0.018         0.107         -0.166									
dealerP:Interm1         0.063         1.242         0.050         0.960         -2.374         2.499           dealerR:Interm1         1.435         0.479         2.997         0.003         0.496         2.375           dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         -0.903         0.366         -0.050         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:surface         0.005         0.005         1.038         0.300         -0.055         0.015           year:discauth1         -0.233         0.050         -4.666 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
dealerR:Interm1         1.435         0.479         2.997         0.003         0.496         2.375           dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         0.046         0.963         -0.206         0.216           year:endbuyerB         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:discauth1         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:discauth1         -0.233         0.050         -4.666									
dealerL:discauth1         0.444         0.865         0.513         0.608         -1.253         2.142           dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         -0.904         0.963         -0.206         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:endbuyerU         -0.018         0.107         -0.166									
dealerP:discauth1         -1.590         0.890         -1.786         0.074         -3.336         0.156           dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         0.046         0.963         -0.206         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:endbuyerU         -0.018         0.107         -0.166									
dealerR:discauth1         -2.813         0.466         -6.038         0.000         -3.727         -1.899           year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         0.046         0.963         -0.206         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:discauth1         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:discauth1         -0.233         0.050         -4.666         0.000         -0.030         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104									
year:artistliving1         -0.016         0.017         -0.903         0.366         -0.050         0.018           year:endbuyerC         0.005         0.107         0.046         0.963         -0.206         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:Surface         0.005         0.005         1.038         0.300         -0.005         0.015           year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
year:endbuyerC         0.005         0.107         0.046         0.963         -0.206         0.216           year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:Surface         0.005         0.005         1.038         0.300         -0.005         0.015           year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerE:finished1         -0.596         0.911 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
year:endbuyerD         -0.054         0.107         -0.500         0.617         -0.264         0.157           year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:Surface         0.005         0.005         1.038         0.300         -0.005         0.015           year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941									
year:endbuyerE         0.065         0.108         0.597         0.550         -0.148         0.277           year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:Surface         0.005         0.005         1.038         0.300         -0.005         0.015           year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
year:endbuyerU         -0.018         0.107         -0.166         0.869         -0.228         0.192           year:Surface         0.005         0.005         1.038         0.300         -0.005         0.015           year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.									
year:Surface         0.005         0.005         1.038         0.300         -0.005         0.015           year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerE:discauth1         -1.428         <									
year:discauth1         -0.233         0.050         -4.666         0.000         -0.330         -0.135           artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerU:discauth1         -2.007									
artistliving1:authorstyle1         0.868         0.823         1.055         0.291         -0.745         2.482           artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007 </td <td>_ v</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_ v								
artistliving1:discauth1         0.672         0.463         1.451         0.147         -0.237         1.580           authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139									
authorstyle1:Surface         -0.047         0.104         -0.456         0.649         -0.250         0.156           endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310									
endbuyerC:finished1         -0.323         0.914         -0.354         0.723         -2.116         1.469           endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310									
endbuyerD:finished1         -0.596         0.911         -0.654         0.513         -2.382         1.191           endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310									
endbuyerE:finished1         -0.340         0.941         -0.361         0.718         -2.185         1.506           endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310									
endbuyerU:finished1         -1.070         0.917         -1.166         0.244         -2.869         0.730           endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310									
endbuyerC:discauth1         -2.511         1.441         -1.742         0.082         -5.338         0.317           endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310		-0.340	0.941	-0.361	0.718	-2.185	1.506		
endbuyerD:discauth1         -1.766         1.375         -1.284         0.199         -4.463         0.931           endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310									
endbuyerE:discauth1         -1.428         1.398         -1.022         0.307         -4.171         1.314           endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310		-2.511	1.441	-1.742	0.082	-5.338	0.317		
endbuyerU:discauth1         -2.007         1.394         -1.440         0.150         -4.741         0.727           Interm1:Surface         0.139         0.087         1.602         0.109         -0.031         0.310		-1.766	1.375	-1.284		-4.463	0.931		
Interm1:Surface 0.139 0.087 1.602 0.109 -0.031 0.310		-1.428	1.398	-1.022	0.307	-4.171	1.314		
10	endbuyerU:discauth1	-2.007	1.394	-1.440	0.150	-4.741	0.727		
Interm1:prevcoll1 -0.506 0.337 -1.500 0.134 -1.167 0.155	Interm1:Surface	0.139		1.602	0.109	-0.031	0.310		
	Interm1:prevcoll1	-0.506	0.337	-1.500	0.134	-1.167	0.155		
Interm1:lrgfont1 -0.560 0.263 -2.127 0.034 -1.077 -0.044									
Interm1:discauth1 1.638 0.550 2.979 0.003 0.559 2.716									
Surface:discauth1 -0.321 0.121 -2.649 0.008 -0.558 -0.083									