

Exploratory Data Analysis Report

Report by dlookr package

2019-11-18

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1 Introduction

The EDA Report provides exploratory data analysis information on objects that inherit `data.frame` and `data.frame`.

1.1 Information of Dataset

The dataset that generated the EDA Report is an **'data.frame'** object. It consists of **53,940 observations** and **27 variables**.

1.2 Information of Variables

The variable information of the data set that generated the EDA Report is shown in the following table.:

Information of Variables					
variables	types	missing_count	missing_percent	unique_count	unique_rate
carat	numeric	0	0	273	0.0050612
depth	numeric	0	0	184	0.0034112
table	numeric	0	0	127	0.0023545
price	numeric	0	0	11602	0.2150908
x	numeric	0	0	554	0.0102707

variables	types	missing_count	missing_percent	unique_count	unique_rate
y	numeric	0	0	552	0.0102336
z	numeric	0	0	375	0.0069522
cutFair	numeric	0	0	2	0.0000371
cutGood	numeric	0	0	2	0.0000371
cutIdeal	numeric	0	0	2	0.0000371
cutPremium	numeric	0	0	2	0.0000371
cutVery.Good	numeric	0	0	2	0.0000371
colorD	numeric	0	0	2	0.0000371
colorE	numeric	0	0	2	0.0000371
colorF	numeric	0	0	2	0.0000371
colorG	numeric	0	0	2	0.0000371
colorH	numeric	0	0	2	0.0000371
colorI	numeric	0	0	2	0.0000371
colorJ	numeric	0	0	2	0.0000371
clarityI1	numeric	0	0	2	0.0000371
clarityIF	numeric	0	0	2	0.0000371
claritySI1	numeric	0	0	2	0.0000371
claritySI2	numeric	0	0	2	0.0000371
clarityVS1	numeric	0	0	2	0.0000371
clarityVS2	numeric	0	0	2	0.0000371
clarityVVS1	numeric	0	0	2	0.0000371
clarityVVS2	numeric	0	0	2	0.0000371

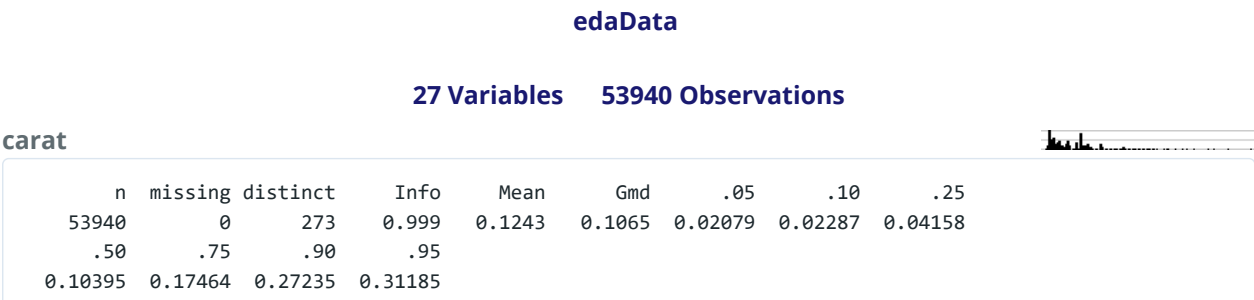
The target variable of the data is **'price'**, and the data type of the variable is **numeric**.

1.3 About EDA Report

EDA reports provide information and visualization results that support the EDA process. In particular, it provides a variety of information to understand the relationship between the target variable and the rest of the variables of interest.

2 Univariate Analysis

2.1 Descriptive Statistics



Frequency	6	1	1	1
Proportion	0.000	0.000	0.000	0.000

n	missing	distinct	Info	Mean	Gmd	.05	.10	.25
53940	0	375	1	0.1113	0.02485	0.08333	0.08459	0.09151
.50	.75	.90	.95					
0.11101	0.12704	0.14214	0.14874					

lowest :	0.00000000	0.03364780	0.04433962	0.04811321	0.06477987
highest:	0.20220126	0.21132075	0.21949686	0.25345912	1.00000000

cutFair

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.087	1610	0.02985	0.05792

cutGood

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.248	4906	0.09095	0.1654

cutIdeal

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.72	21551	0.3995	0.4798

cutPremium

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.571	13791	0.2557	0.3806

cutVery.Good

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.521	12082	0.224	0.3476

colorD

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.329	6775	0.1256	0.2197

colorE

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.446	9797	0.1816	0.2973

colorF

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.437	9542	0.1769	0.2912

colorG

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.497	11292	0.2093	0.331

colorH

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.391	8304	0.1539	0.2605

colorI

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.271	5422	0.1005	0.1808

colorJ

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.148	2808	0.05206	0.0987

clarityI1

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.041	741	0.01374	0.0271

clarityIF

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.096	1790	0.03319	0.06417

claritySI1

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.551	13065	0.2422	0.3671

claritySI2

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.424	9194	0.1704	0.2828

clarityVS1

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.386	8171	0.1515	0.2571

clarityVS2

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.527	12258	0.2273	0.3512

clarityVVS1

n	missing	distinct	Info	Sum	Mean	Gmd
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53940	0	2	0.19	3655	0.06776	0.1263
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clarityVVS2

n	missing	distinct	Info	Sum	Mean	Gmd
53940	0	2	0.255	5066	0.09392	0.1702

2.2 Normality Test of Numerical Variables

2.2.1 Statistics and Visualization of (Sample) Data

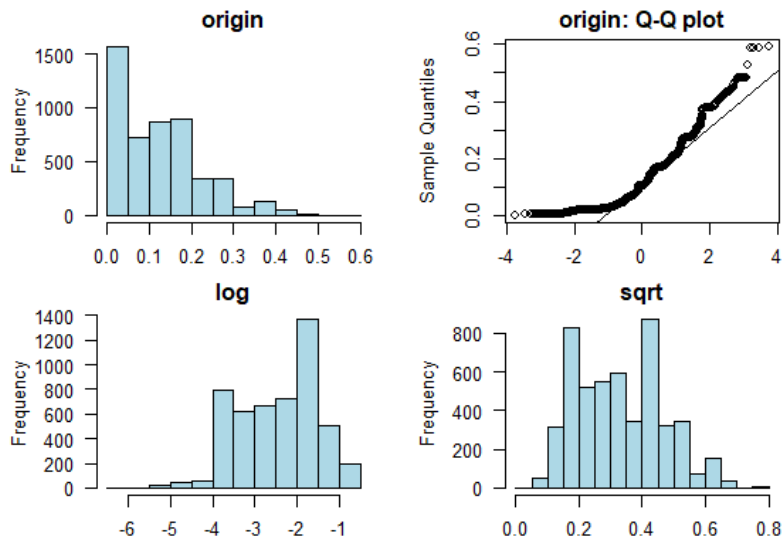
[carat]

normality test : Shapiro-Wilk normality test

statistic : 0.89986, p-value : 3.10829E-49

skewness and kurtosis

type	skewness	kurtosis
original	1.0523051	3.890211
log transformation	-0.4078949	2.300566
sqrt transformation	0.3124253	2.268163

**[depth]**

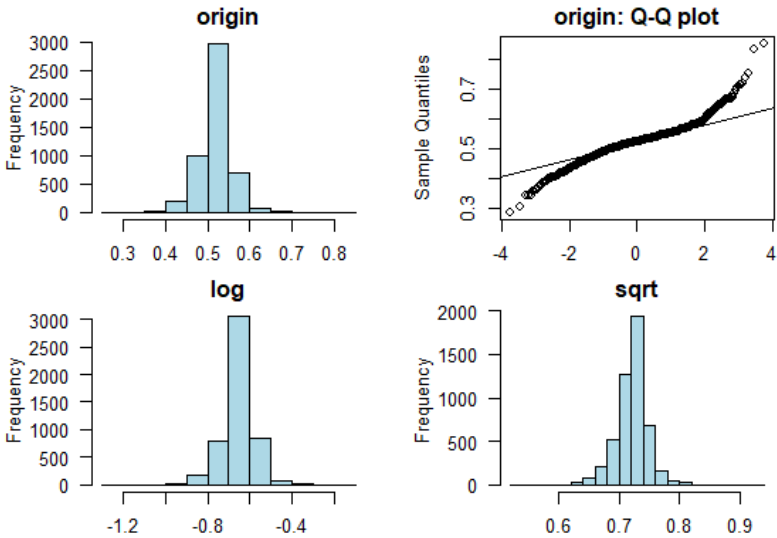
normality test : Shapiro-Wilk normality test

statistic : 0.95047, p-value : 4.01014E-38

skewness and kurtosis

type	skewness	kurtosis
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type	skewness	kurtosis
original	0.0919192	7.422150
log transformation	-0.5896140	7.179345
sqrt transformation	-0.2530753	6.959134

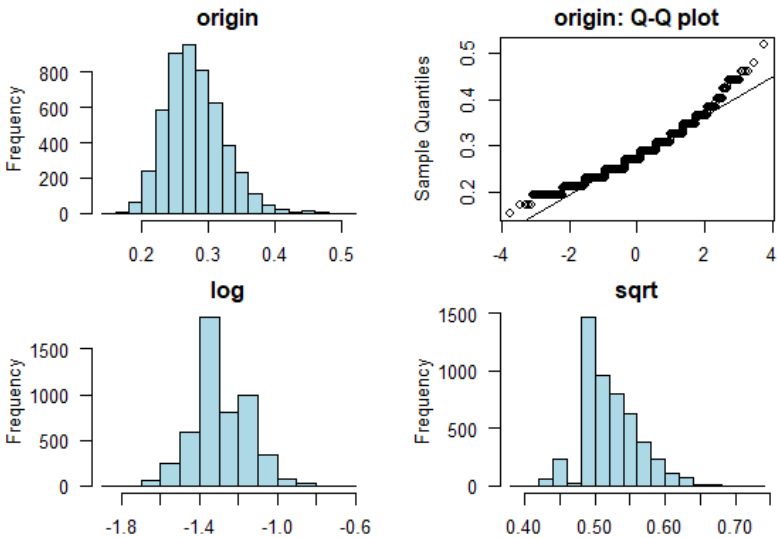


[table]

normality test : Shapiro-Wilk normality test

statistic : 0.96073, p-value : 8.83796E-35

skewness and kurtosis		
type	skewness	kurtosis
original	0.6505231	3.926229
log transformation	0.1605538	3.114571
sqrt transformation	0.3980919	3.390631

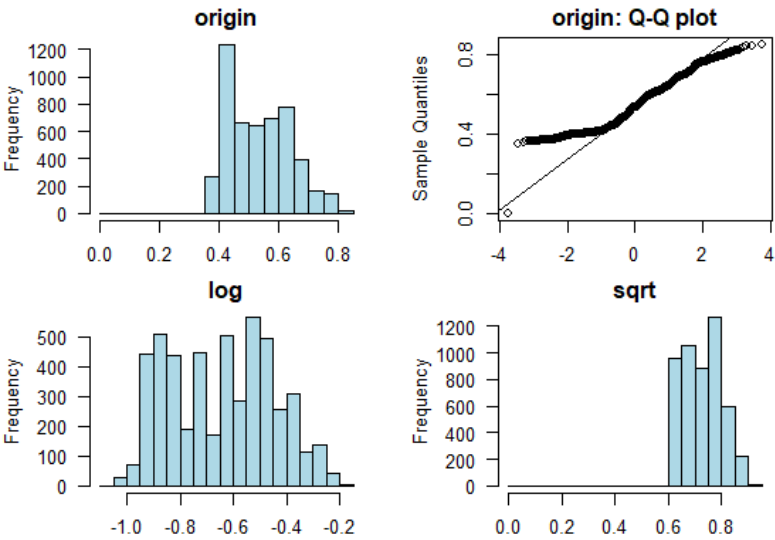


[x]

normality test : Shapiro-Wilk normality test

statistic : 0.95716, p-value : 5.13842E-36

skewness and kurtosis		
type	skewness	kurtosis
original	0.3243524	2.322840
log transformation	NaN	NaN
sqrt transformation	-0.0052365	4.074092

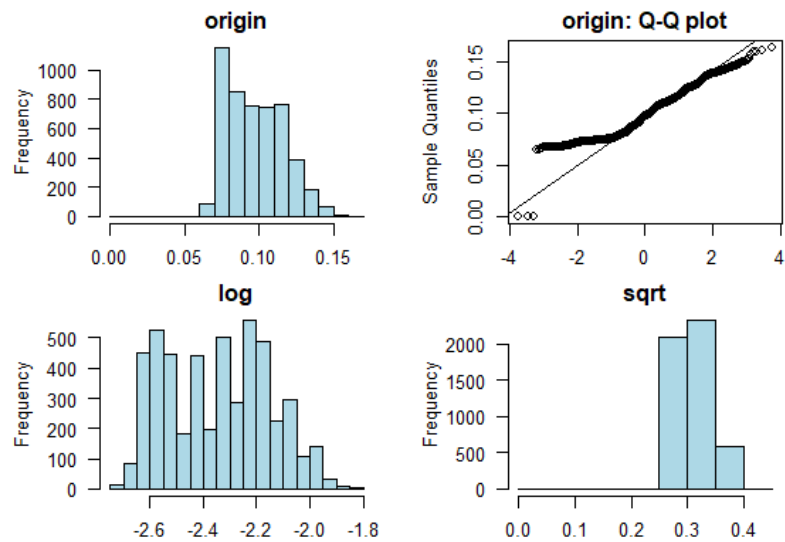


[y]

normality test : Shapiro-Wilk normality test

statistic : 0.95644, p-value : 2.9673E-36

skewness and kurtosis		
type	skewness	kurtosis
original	0.3226067	2.628910
log transformation	NaN	NaN
sqrt transformation	-0.3469685	7.740337

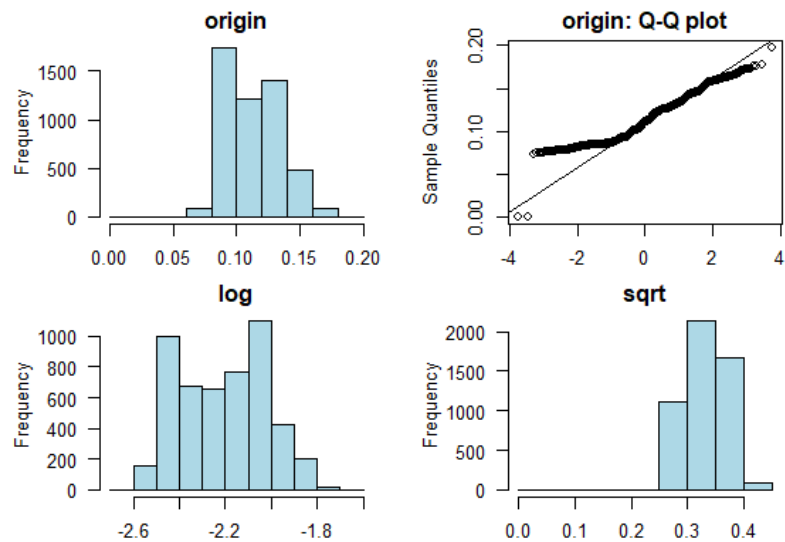


[z]

normality test : Shapiro-Wilk normality test

```
statistic : 0.95619,  p-value : 2.46294E-36
```

skewness and kurtosis		
type	skewness	kurtosis
original	0.3355366	2.522228
log transformation	NaN	NaN
sqrt transformation	-0.1776906	6.094086

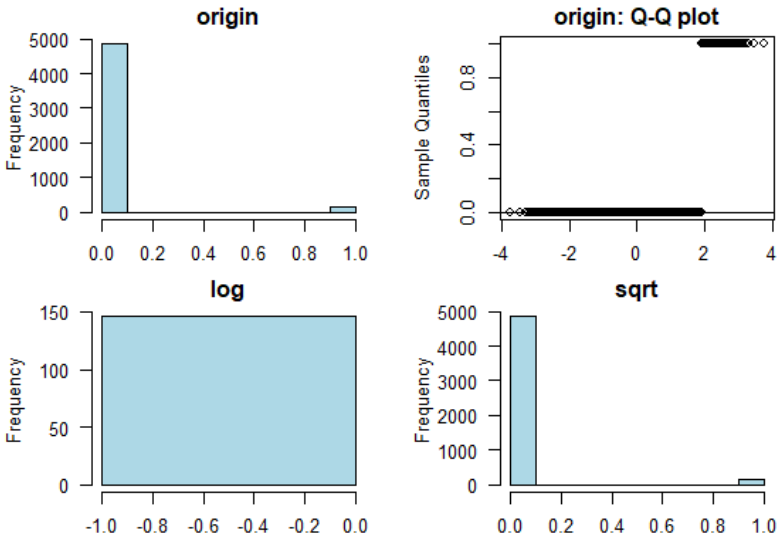


[cutFair]

normality test : Shapiro-Wilk normality test

```
statistic : 0.15612,  p-value : 7.11095E-92
```

skewness and kurtosis		
type	skewness	kurtosis
original	5.592553	32.27665
log transformation	NaN	NaN
sqrt transformation	5.592553	32.27665

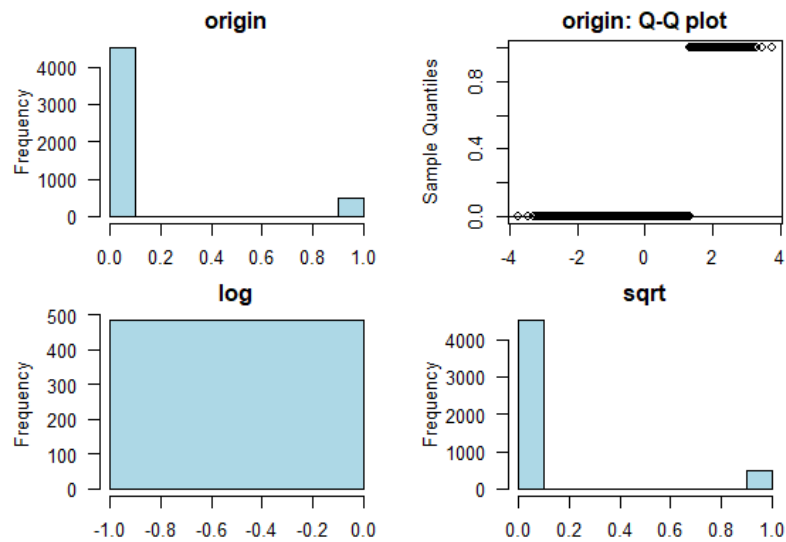


[cutGood]

normality test : Shapiro-Wilk normality test

statistic : 0.33586, p-value : 2.08426E-86

skewness and kurtosis		
type	skewness	kurtosis
original	2.727224	8.437753
log transformation	NaN	NaN
sqrt transformation	2.727224	8.437753

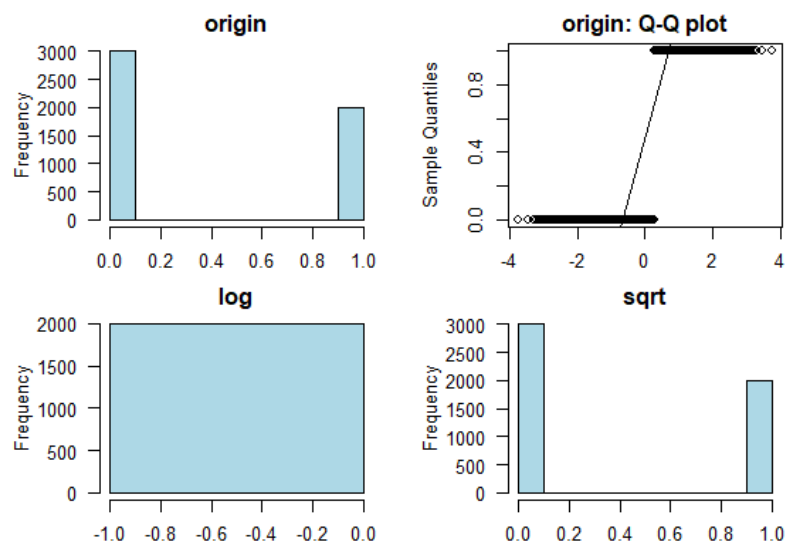


[cutIdeal]

normality test : Shapiro-Wilk normality test

statistic : 0.62162, p-value : 3.07496E-74

skewness and kurtosis		
type	skewness	kurtosis
original	0.4125035	1.170159
log transformation	NaN	NaN
sqrt transformation	0.4125035	1.170159



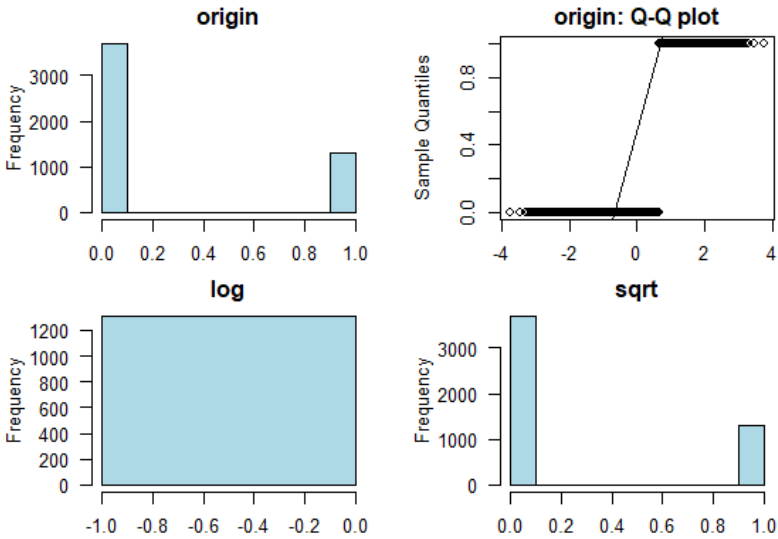
[cutPremium]

normality test : Shapiro-Wilk normality test

statistic : 0.54796, p-value : 5.52485E-78

skewness and kurtosis

type	skewness	kurtosis
original	1.086033	2.179467
log transformation	NaN	NaN
sqrt transformation	1.086033	2.179467



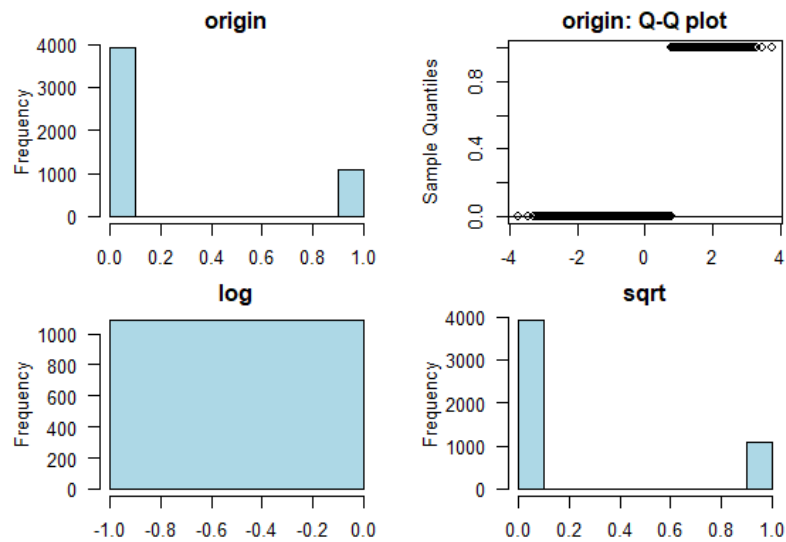
[cutVery.Good]

normality test : Shapiro-Wilk normality test

statistic : 0.50808, p-value : 8.49257E-80

skewness and kurtosis

type	skewness	kurtosis
original	1.371684	2.881517
log transformation	NaN	NaN
sqrt transformation	1.371684	2.881517

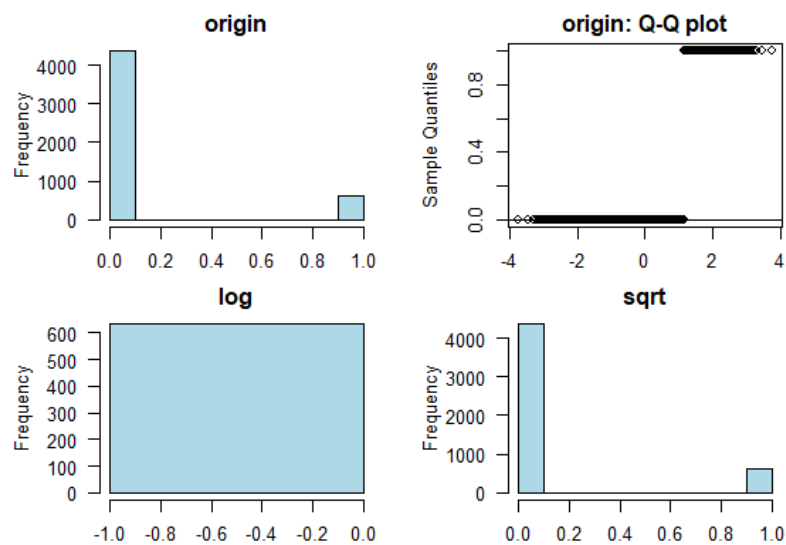


[colorD]

normality test : Shapiro-Wilk normality test

statistic : 0.3904, p-value : 1.71178E-84

skewness and kurtosis		
type	skewness	kurtosis
original	2.243134	6.031648
log transformation	NaN	NaN
sqrt transformation	2.243134	6.031648



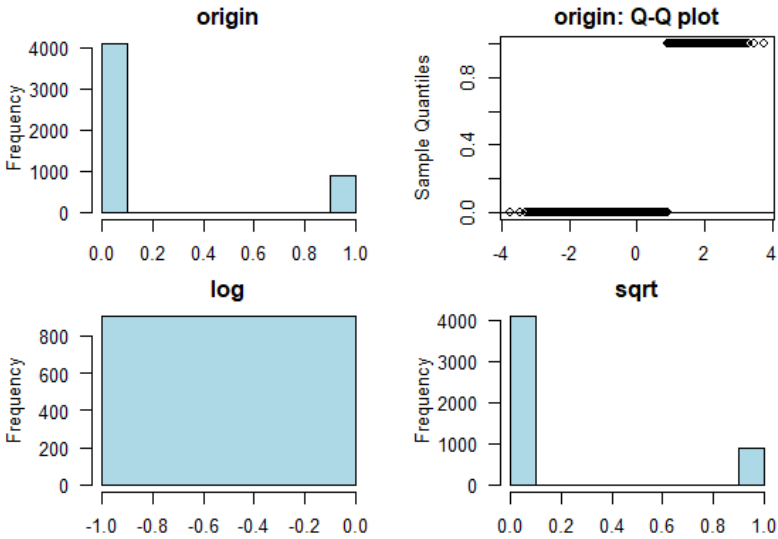
[colorE]

normality test : Shapiro-Wilk normality test

statistic : 0.46745, p-value : 1.6136E-81

skewness and kurtosis

type	skewness	kurtosis
original	1.658818	3.751677
log transformation	NaN	NaN
sqrt transformation	1.658818	3.751677



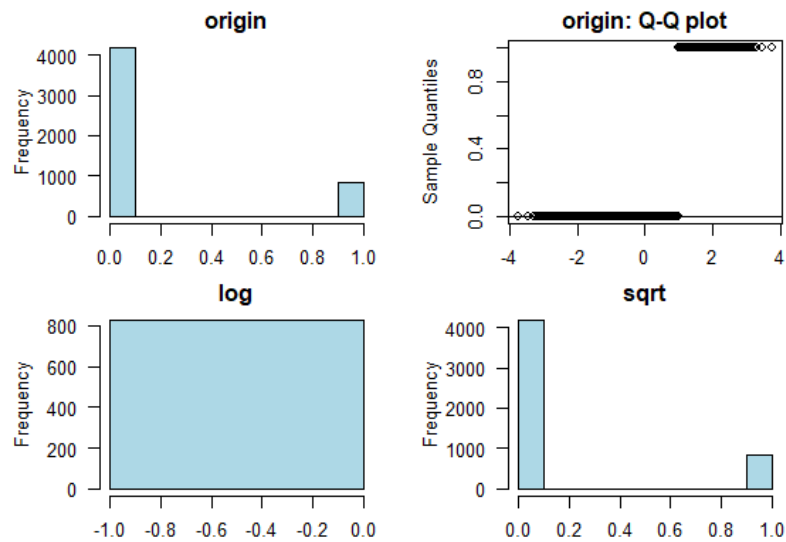
[colorF]

normality test : Shapiro-Wilk normality test

statistic : 0.44749, p-value : 2.53099E-82

skewness and kurtosis

type	skewness	kurtosis
original	1.803098	4.251161
log transformation	NaN	NaN
sqrt transformation	1.803098	4.251161

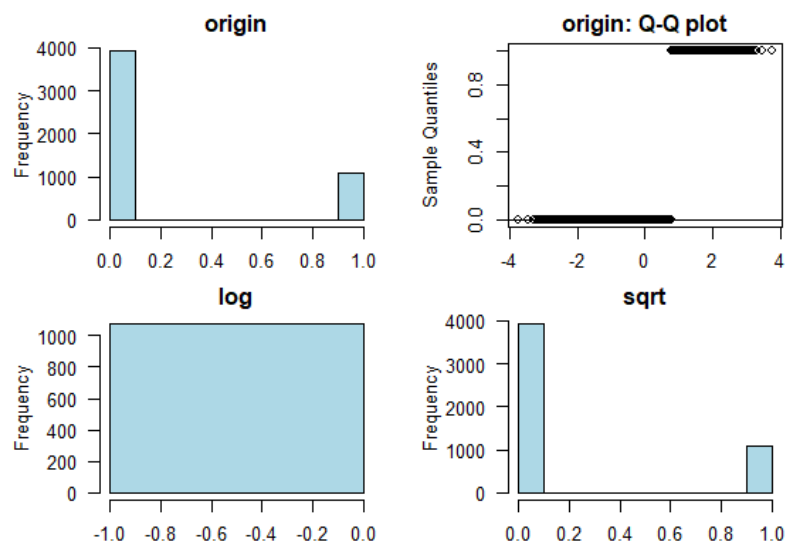


[colorG]

normality test : Shapiro-Wilk normality test

statistic : 0.50563, p-value : 6.63779E-80

skewness and kurtosis		
type	skewness	kurtosis
original	1.388904	2.929054
log transformation	NaN	NaN
sqrt transformation	1.388904	2.929054

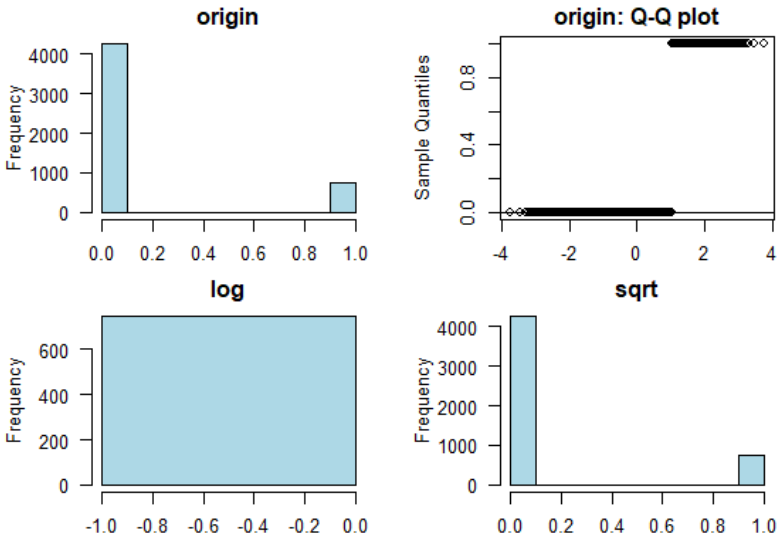


[colorH]

normality test : Shapiro-Wilk normality test

statistic : 0.42519, p-value : 3.41585E-83

skewness and kurtosis		
type	skewness	kurtosis
original	1.969207	4.877777
log transformation	NaN	NaN
sqrt transformation	1.969207	4.877777

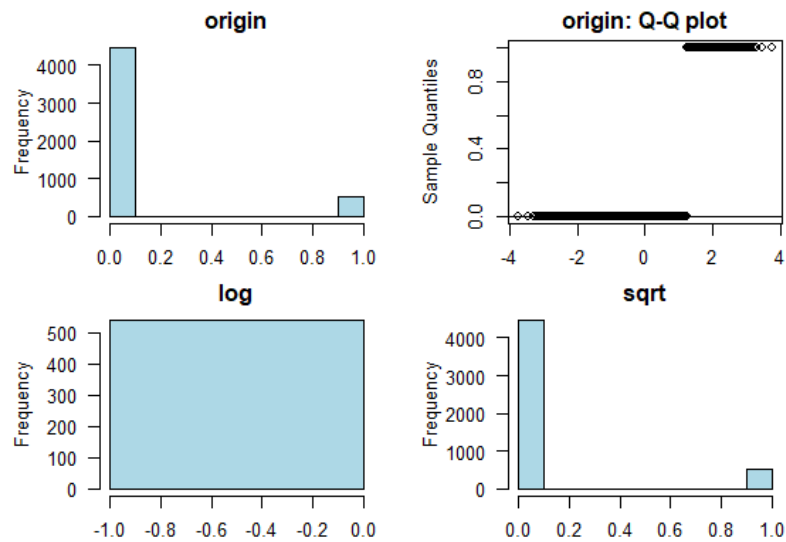


[colorI]

normality test : Shapiro-Wilk normality test

statistic : 0.35706, p-value : 1.11287E-85

skewness and kurtosis		
type	skewness	kurtosis
original	2.529281	7.397263
log transformation	NaN	NaN
sqrt transformation	2.529281	7.397263

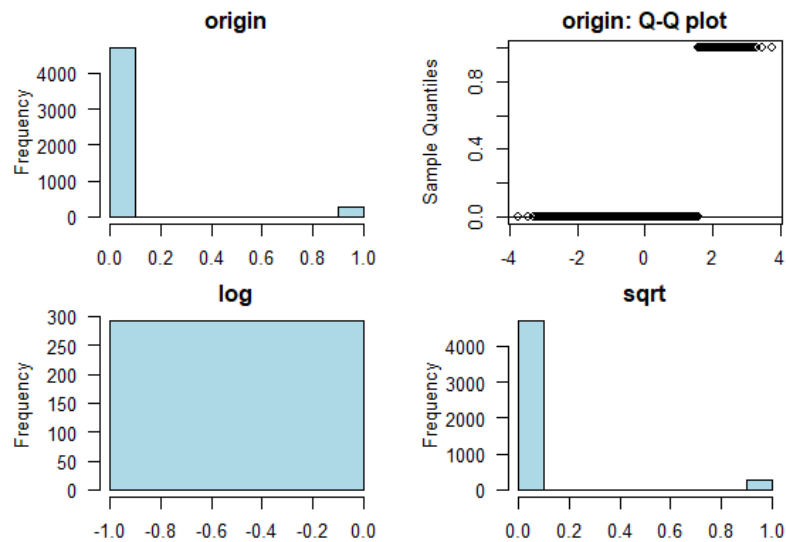


[colorJ]

normality test : Shapiro-Wilk normality test

statistic : 0.2473, p-value : 3.04331E-89

skewness and kurtosis		
type	skewness	kurtosis
original	3.766339	15.18531
log transformation	NaN	NaN
sqrt transformation	3.766339	15.18531



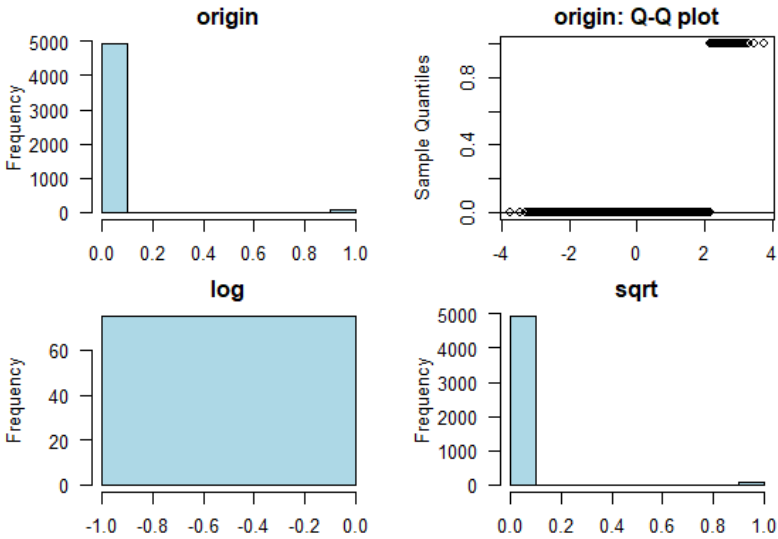
[clarityI1]

normality test : Shapiro-Wilk normality test

statistic : 0.09704, p-value : 1.89034E-93

skewness and kurtosis

type	skewness	kurtosis
original	7.980094	64.6819
log transformation	NaN	NaN
sqrt transformation	7.980094	64.6819



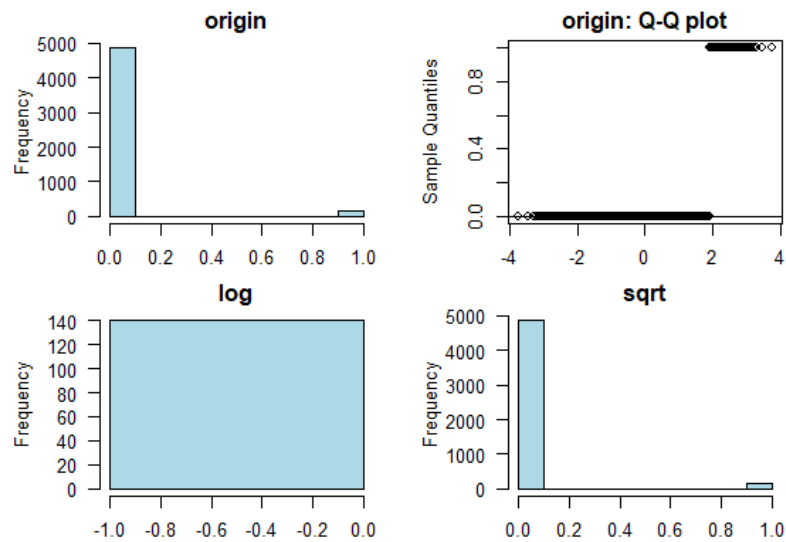
[clarityIF]

normality test : Shapiro-Wilk normality test

statistic : 0.15164, p-value : 5.36146E-92

skewness and kurtosis

type	skewness	kurtosis
original	5.722158	33.74309
log transformation	NaN	NaN
sqrt transformation	5.722158	33.74309

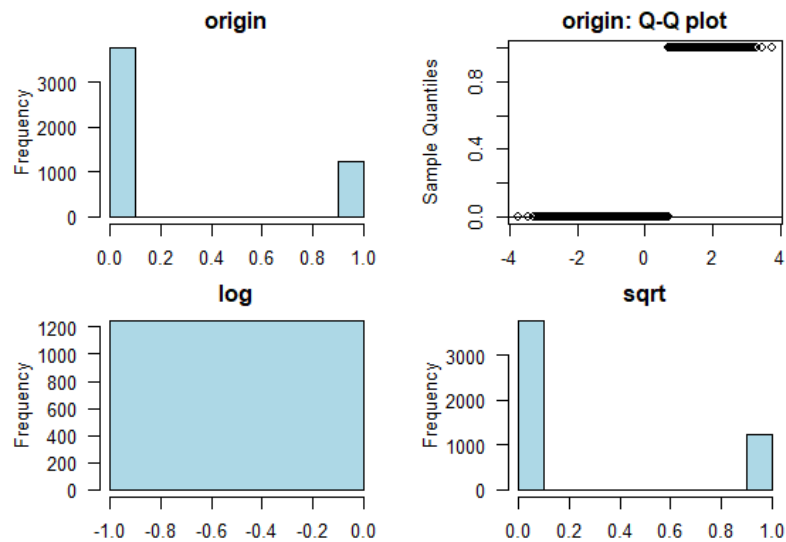


[claritySI1]

normality test : Shapiro-Wilk normality test

statistic : 0.53754, p-value : 1.80134E-78

skewness and kurtosis		
type	skewness	kurtosis
original	1.162108	2.350496
log transformation	NaN	NaN
sqrt transformation	1.162108	2.350496



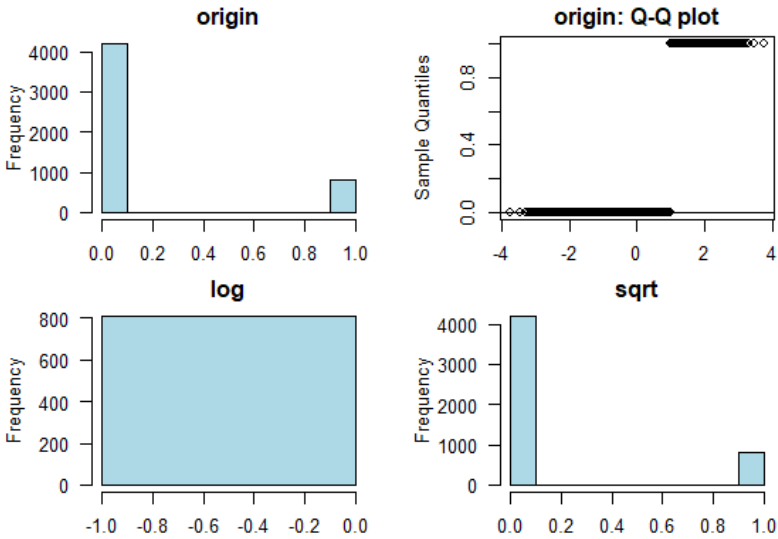
[claritySI2]

normality test : Shapiro-Wilk normality test

statistic : 0.44291, p-value : 1.66854E-82

skewness and kurtosis

type	skewness	kurtosis
original	1.83671	4.373502
log transformation	NaN	NaN
sqrt transformation	1.83671	4.373502



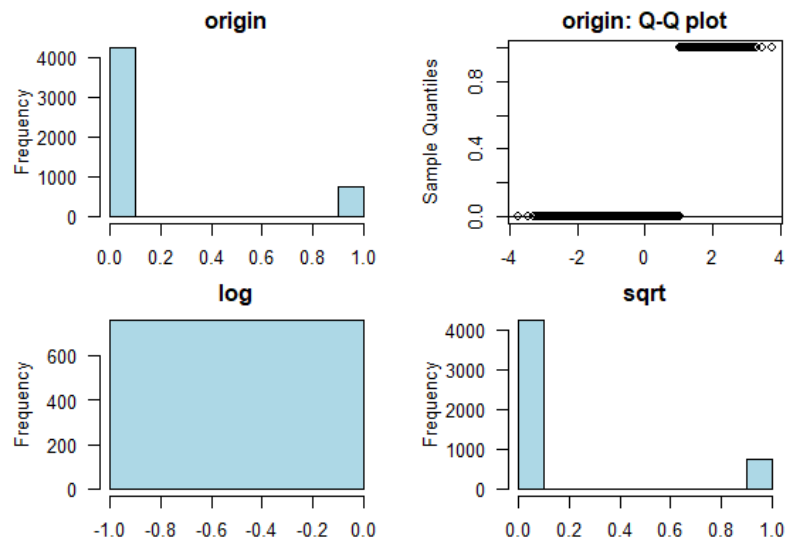
[clarityVS1]

normality test : Shapiro-Wilk normality test

statistic : 0.42837, p-value : 4.52777E-83

skewness and kurtosis

type	skewness	kurtosis
original	1.945104	4.783431
log transformation	NaN	NaN
sqrt transformation	1.945104	4.783431

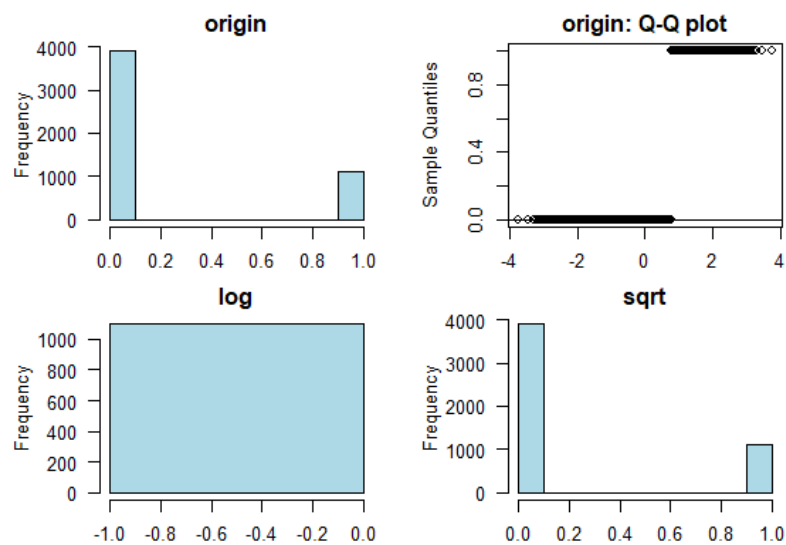


[clarityVS2]

normality test : Shapiro-Wilk normality test

statistic : 0.51069, p-value : 1.10653E-79

skewness and kurtosis		
type	skewness	kurtosis
original	1.35326	2.831313
log transformation	NaN	NaN
sqrt transformation	1.35326	2.831313



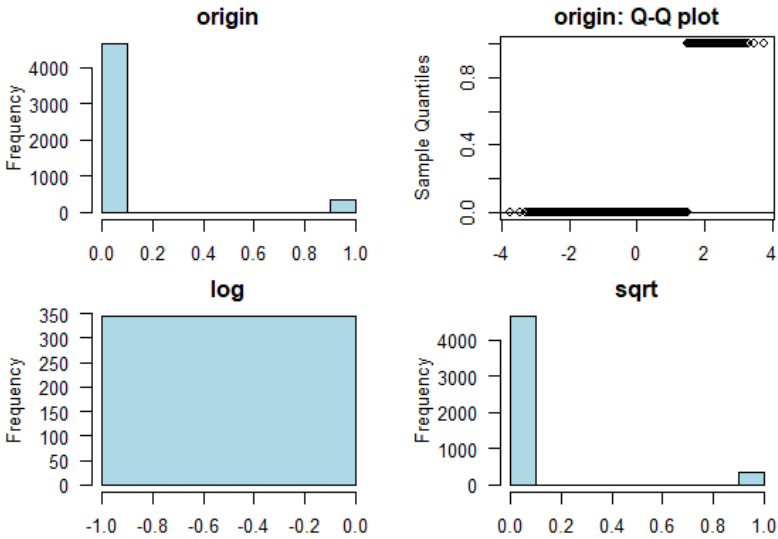
[clarityVVS1]

normality test : Shapiro-Wilk normality test

statistic : 0.27396, p-value : 2.01804E-88

skewness and kurtosis

type	skewness	kurtosis
original	3.407164	12.60877
log transformation	NaN	NaN
sqrt transformation	3.407164	12.60877



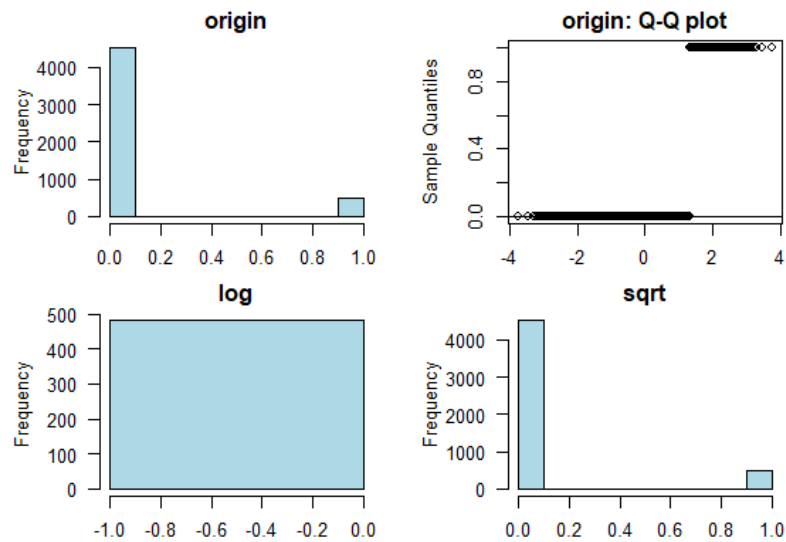
[clarityVVS2]

normality test : Shapiro-Wilk normality test

statistic : 0.33506, p-value : 1.95835E-86

skewness and kurtosis

type	skewness	kurtosis
original	2.734982	8.480128
log transformation	NaN	NaN
sqrt transformation	2.734982	8.480128



3 Relationship Between Variables

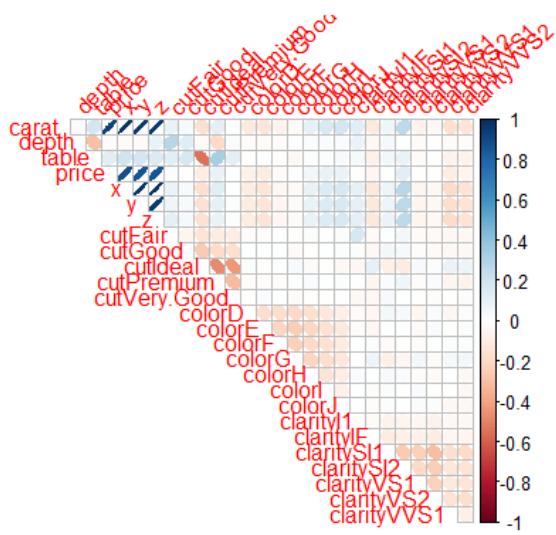
3.1 Correlation Coefficient

3.1.1 Correlation Coefficient by Variable Combination

Table of correlation coefficients (0.5 or more)

Variable1	Variable2	Correlation Coefficient
x	carat	0.9750942
y	x	0.9747015
z	x	0.9707718
z	carat	0.9533874
z	y	0.9520057
y	carat	0.9517222
price	carat	0.9215913
x	price	0.8844352
y	price	0.8654209
z	price	0.8612494
cutIdeal	table	-0.5495988

3.1.2 Correlation Plot of Numerical Variables



4 Target based Analysis

4.1 Grouped Descriptive Statistics

4.1.1 Grouped Numerical Variables

[carat]

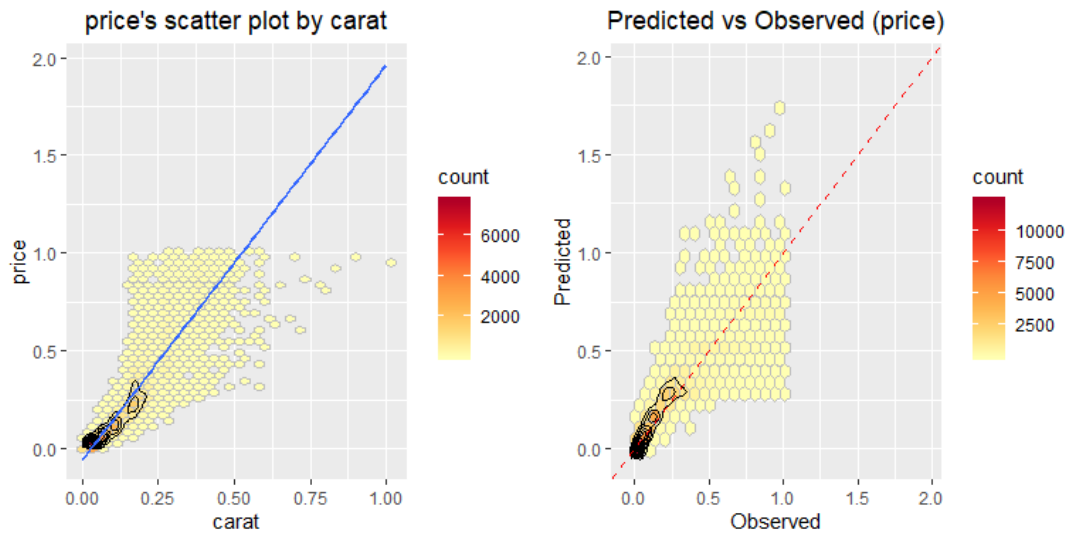
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom Multiple R-squared: 0.84933, Adjusted R-squared: 0.84933 F-statistic: 304051 on 1 and 53938 DF, p-value: 0

Coefficients:

Simple Linear Model coefficients : carat				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.06	0	-96.06	0
carat	2.02	0	551.41	0

Visualization:



[depth]

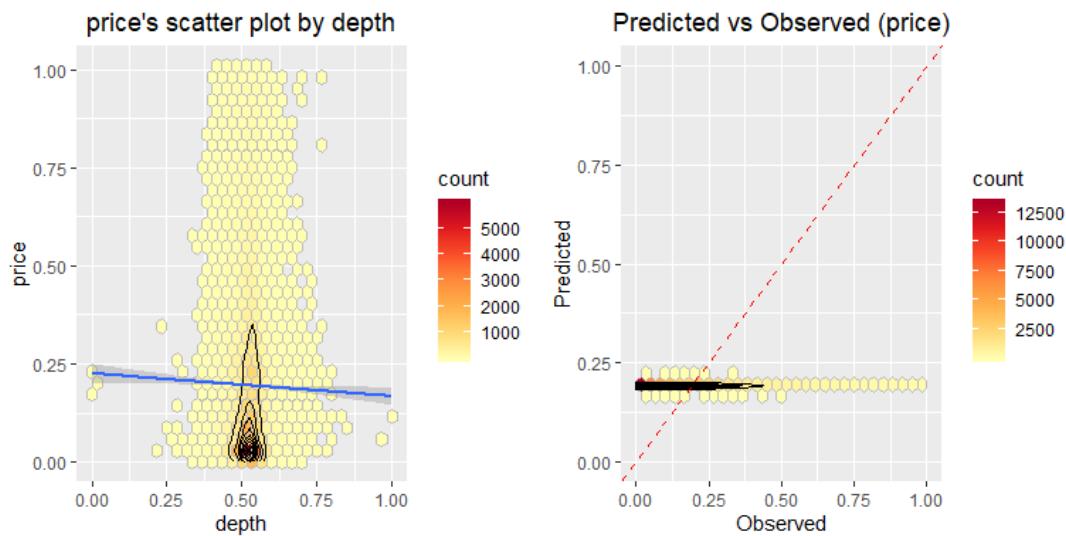
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00011, Adjusted R-squared: 9e-05
F-statistic: 6 on 1 and 53938 DF, p-value: 0.0134032490126328

Coefficients:

Simple Linear Model coefficients : depth				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.23	0.01	18.46	0.00
depth	-0.06	0.02	-2.47	0.01

Visualization:



[table]

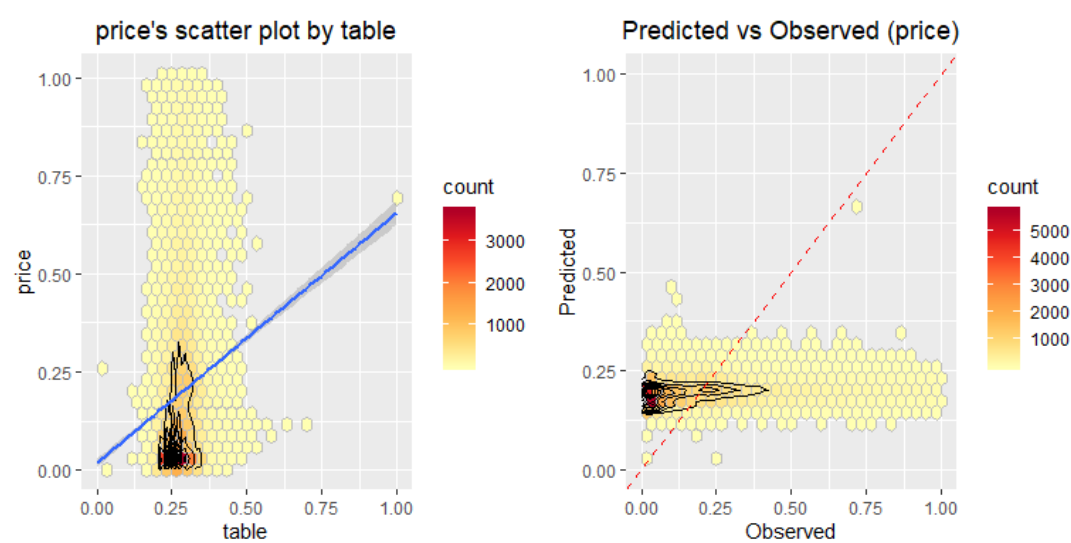
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.01616, Adjusted R-squared: 0.01614
F-statistic: 886 on 1 and 53938 DF, p-value: 3.76153391341822e-193

Coefficients:

Simple Linear Model coefficients : table				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.02	0.01	2.92	0
table	0.64	0.02	29.77	0

Visualization:



[x]

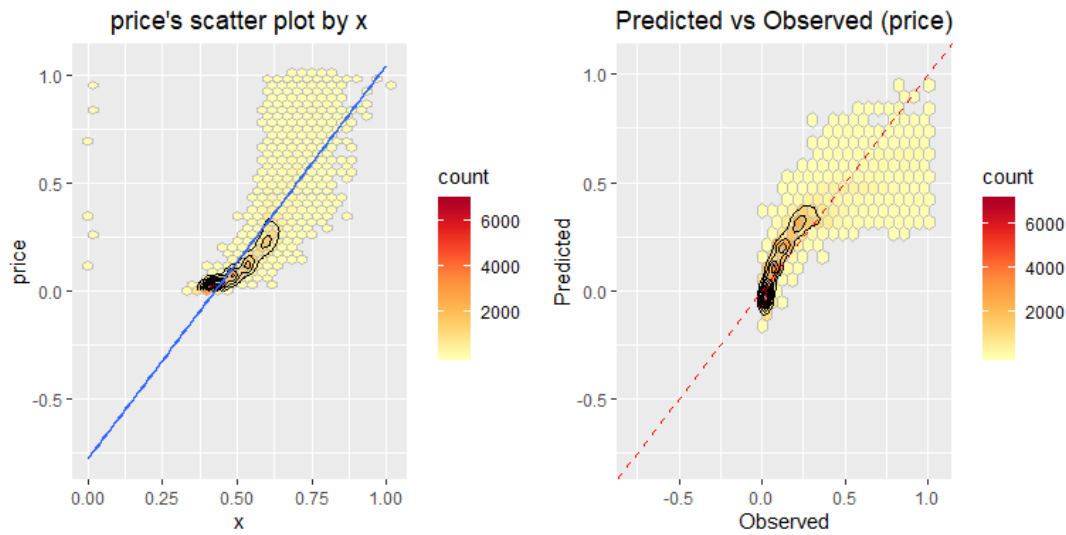
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.78223, Adjusted R-squared: 0.78222
F-statistic: 193740 on 1 and 53938 DF, p-value: 0

Coefficients:

Simple Linear Model coefficients : x				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.78	0	-345.54	0
x	1.83	0	440.16	0

Visualization:



[y]

Simple Linear Model Information

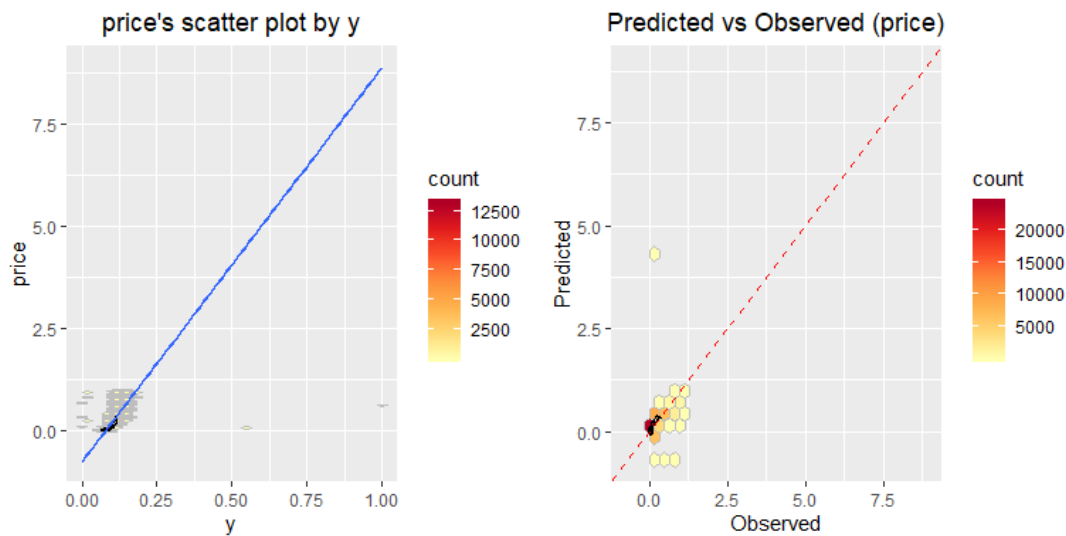
Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.74895, Adjusted R-squared: 0.74895
F-statistic: 160914 on 1 and 53938 DF, p-value: 0

Coefficients:

Simple Linear Model coefficients : y

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.74	0.00	-311.56	0
y	9.63	0.02	401.14	0

Visualization:



[z]

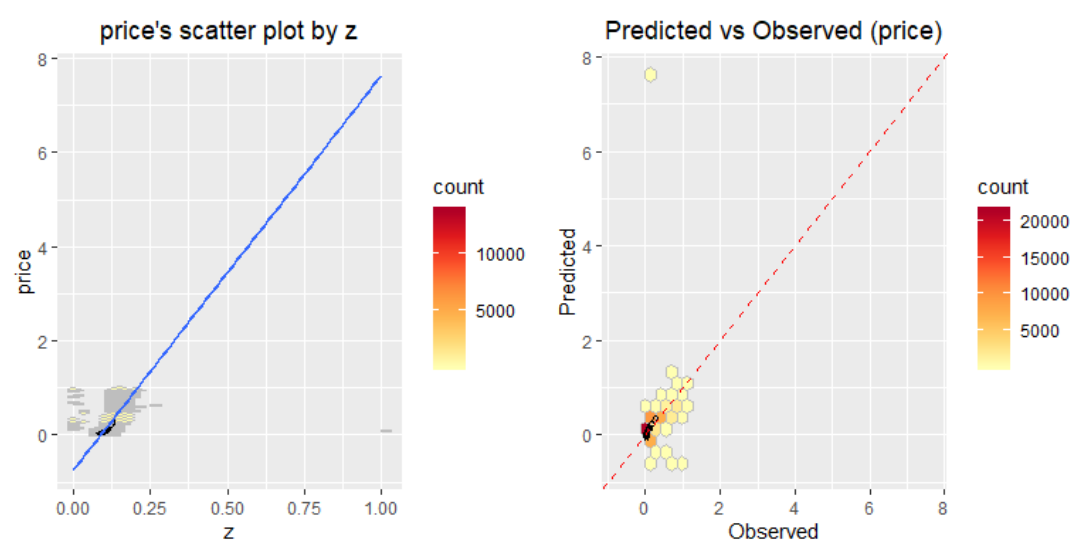
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.74175, Adjusted R-squared: 0.74175
F-statistic: 154922 on 1 and 53938 DF, p-value: 0

Coefficients:

Simple Linear Model coefficients : z				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	-0.74	0.00	-305.2	0
z	8.37	0.02	393.6	0

Visualization:



[cutFair]

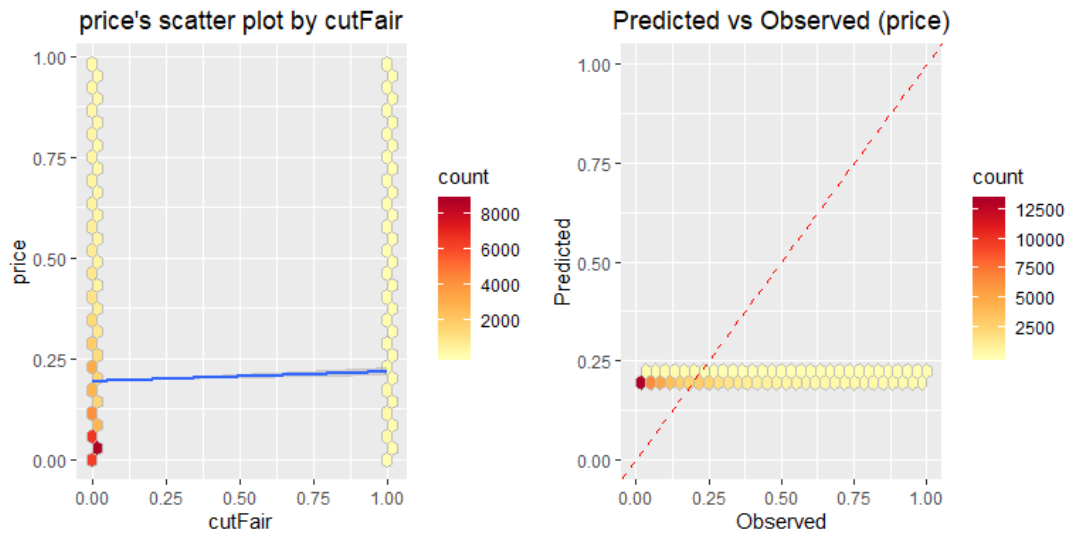
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00035, Adjusted R-squared: 0.00033
F-statistic: 19 on 1 and 53938 DF, p-value: 1.36195086376903e-05

Coefficients:

Simple Linear Model coefficients : cutFair				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0.00	206.10	0
cutFair	0.02	0.01	4.35	0

Visualization:



[cutGood]

Simple Linear Model Information

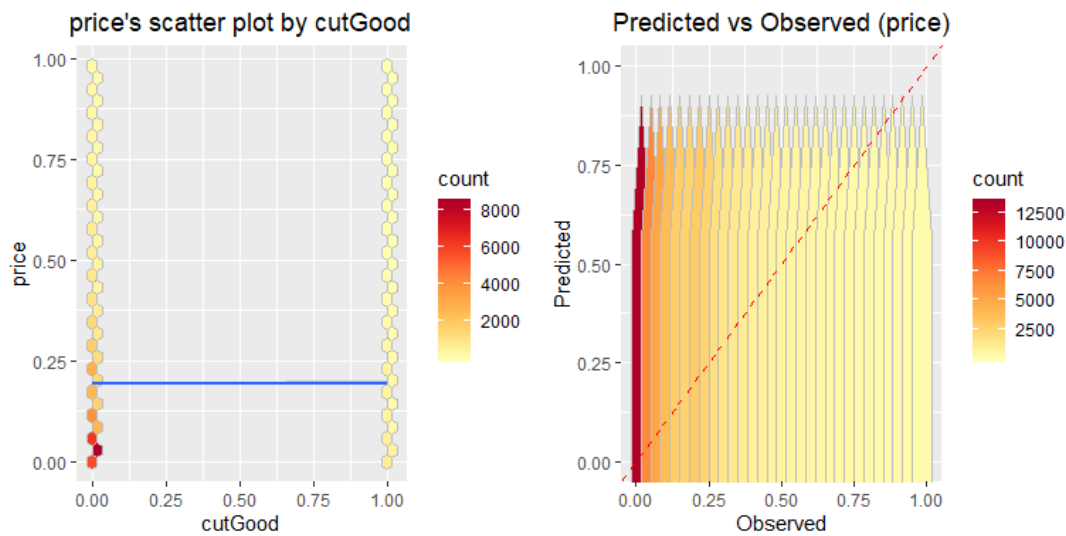
Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0, Adjusted R-squared: -2e-05
F-statistic: 0 on 1 and 53938 DF, p-value: 0.94223200332364

Coefficients:

Simple Linear Model coefficients : cutGood

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.2	0	200.22	0.00
cutGood	0.0	0	-0.07	0.94

Visualization:



[cutIdeal]

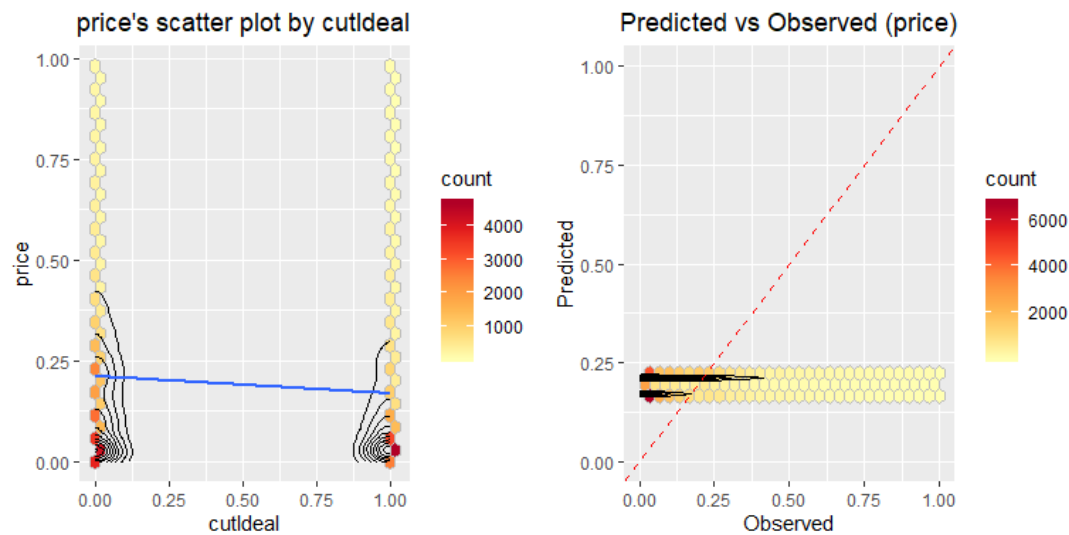
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00944, Adjusted R-squared: 0.00942
F-statistic: 514 on 1 and 53938 DF, p-value: 2.63270266414303e-113

Coefficients:

Simple Linear Model coefficients : cutIdeal				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.21	0	177.81	0
cutIdeal	-0.04	0	-22.68	0

Visualization:



[cutPremium]

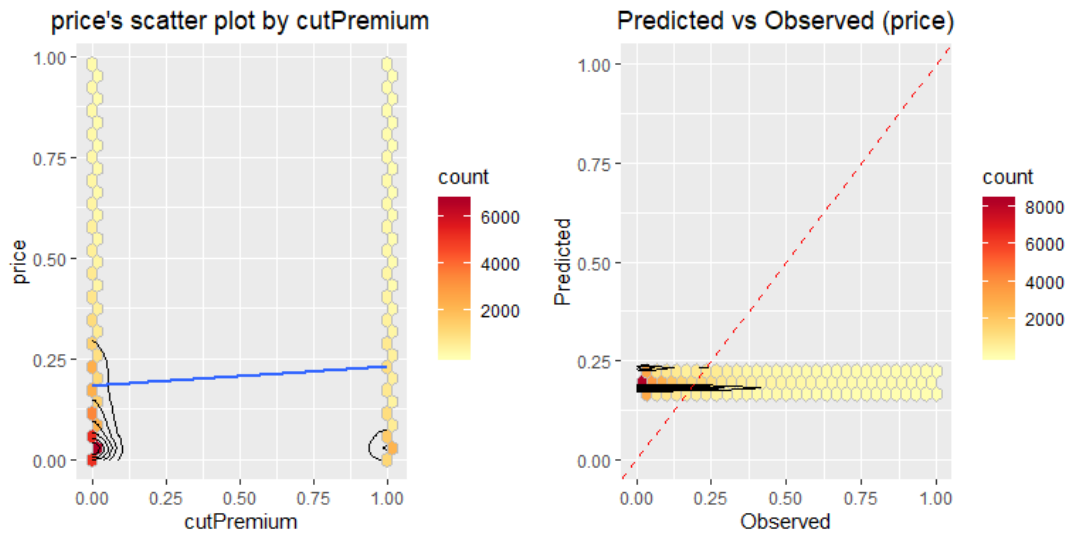
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00916, Adjusted R-squared: 0.00914
F-statistic: 499 on 1 and 53938 DF, p-value: 5.99431748578085e-110

Coefficients:

Simple Linear Model coefficients : cutPremium				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.18	0	170.70	0
cutPremium	0.05	0	22.33	0

Visualization:



[cutVery.Good]

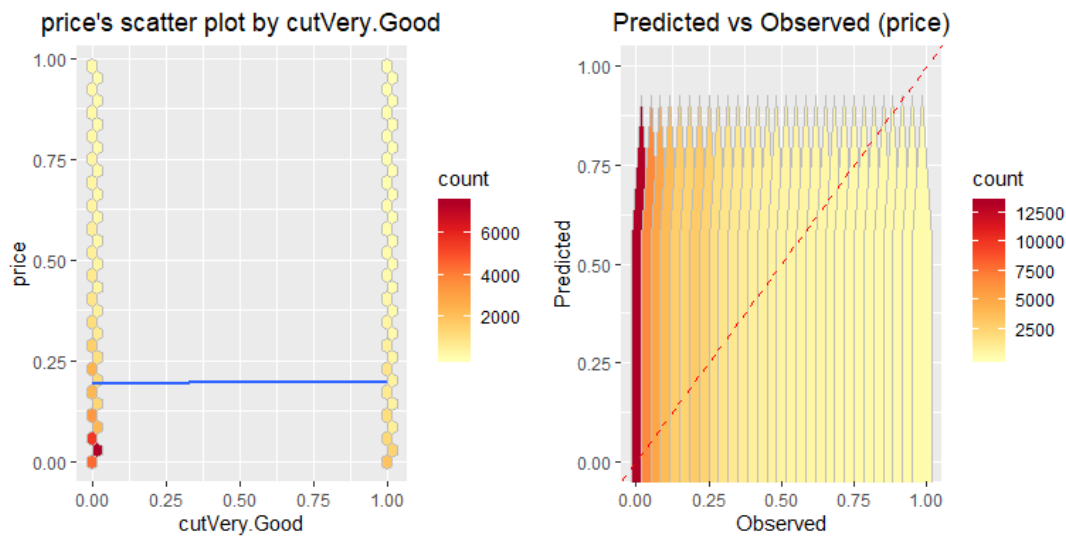
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 4e-05, Adjusted R-squared: 2e-05
F-statistic: 2 on 1 and 53938 DF, p-value: 0.125690870103525

Coefficients:

Simple Linear Model coefficients : cutVery.Good				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0	184.25	0.00
cutVery.Good	0.00	0	1.53	0.13

Visualization:



[colorD]

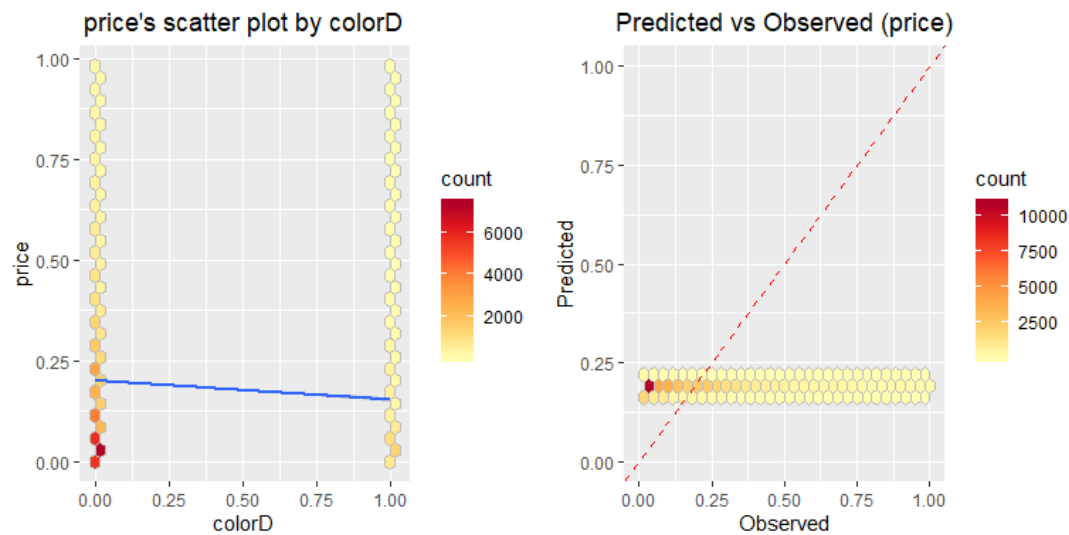
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00525, Adjusted R-squared: 0.00523
F-statistic: 285 on 1 and 53938 DF, p-value: 9.88645356147312e-64

Coefficients:

Simple Linear Model coefficients : colorD				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.20	0	202.84	0
colorD	-0.05	0	-16.88	0

Visualization:



[colorE]

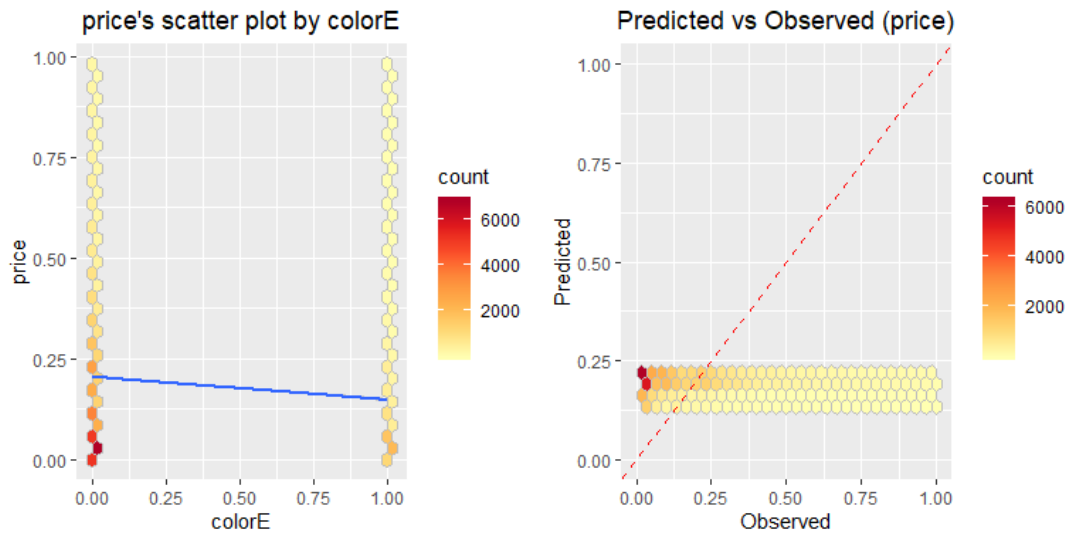
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.01022, Adjusted R-squared: 0.0102
F-statistic: 557 on 1 and 53938 DF, p-value: 1.67543029465086e-122

Coefficients:

Simple Linear Model coefficients : colorE				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.21	0	200.98	0
colorE	-0.06	0	-23.60	0

Visualization:



[colorF]

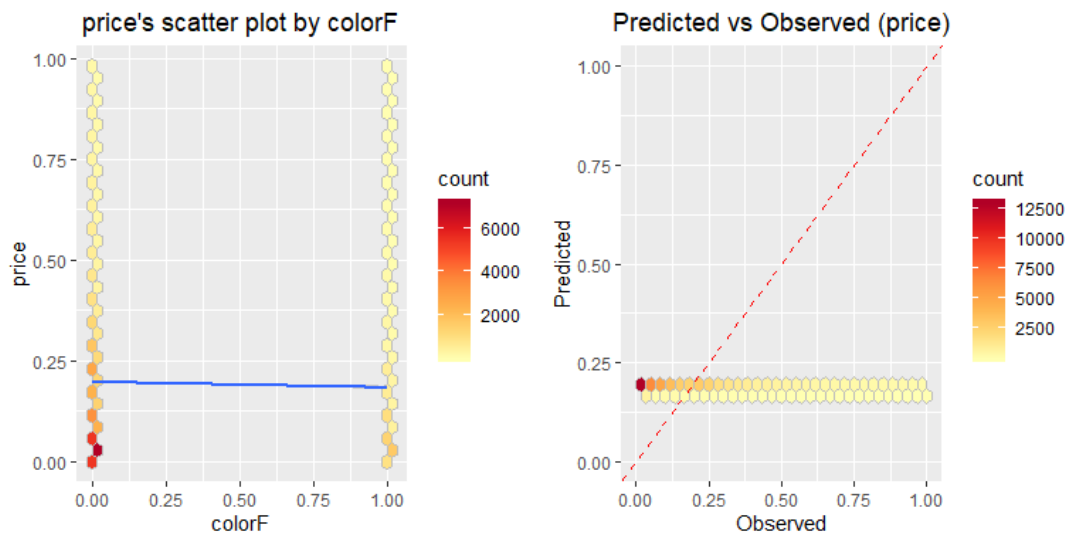
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00058, Adjusted R-squared: 0.00057
F-statistic: 32 on 1 and 53938 DF, p-value: 1.99947932659754e-08

Coefficients:

Simple Linear Model coefficients : colorF				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.20	0	192.91	0
colorF	-0.01	0	-5.61	0

Visualization:



[colorG]

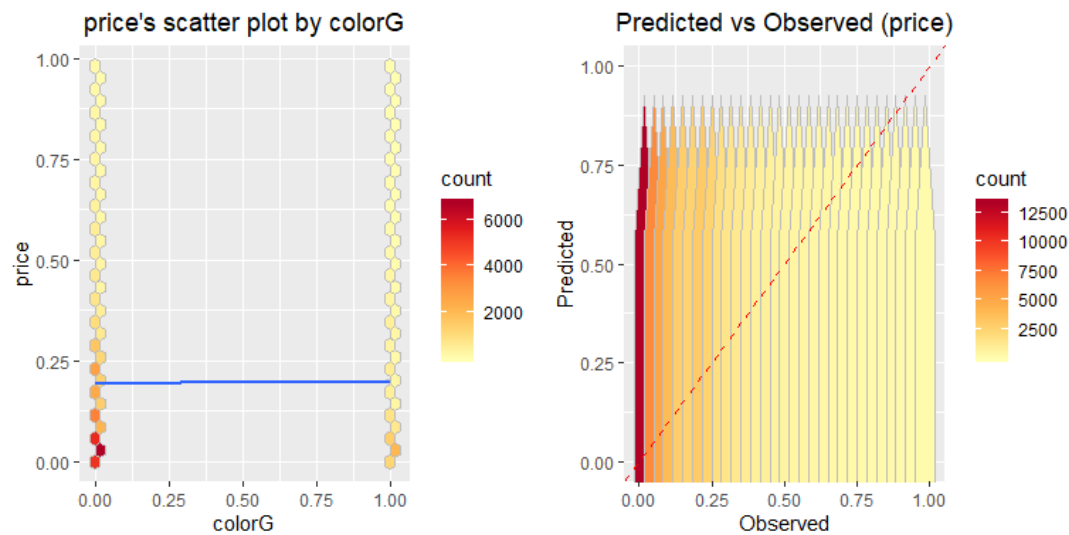
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 7e-05, Adjusted R-squared: 5e-05
F-statistic: 4 on 1 and 53938 DF, p-value: 0.046905842974847

Coefficients:

Simple Linear Model coefficients : colorG				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0	185.80	0.00
colorG	0.00	0	1.99	0.05

Visualization:



[colorH]

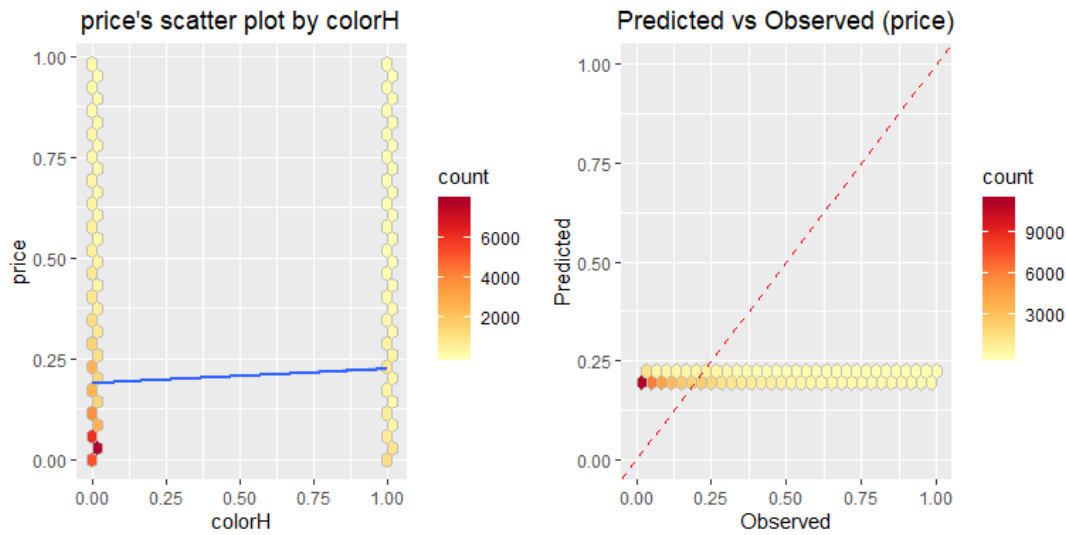
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00351, Adjusted R-squared: 0.00349
F-statistic: 190 on 1 and 53938 DF, p-value: 4.06688973807318e-43

Coefficients:

Simple Linear Model coefficients : colorH				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0	188.07	0
colorH	0.04	0	13.78	0

Visualization:



[colorI]

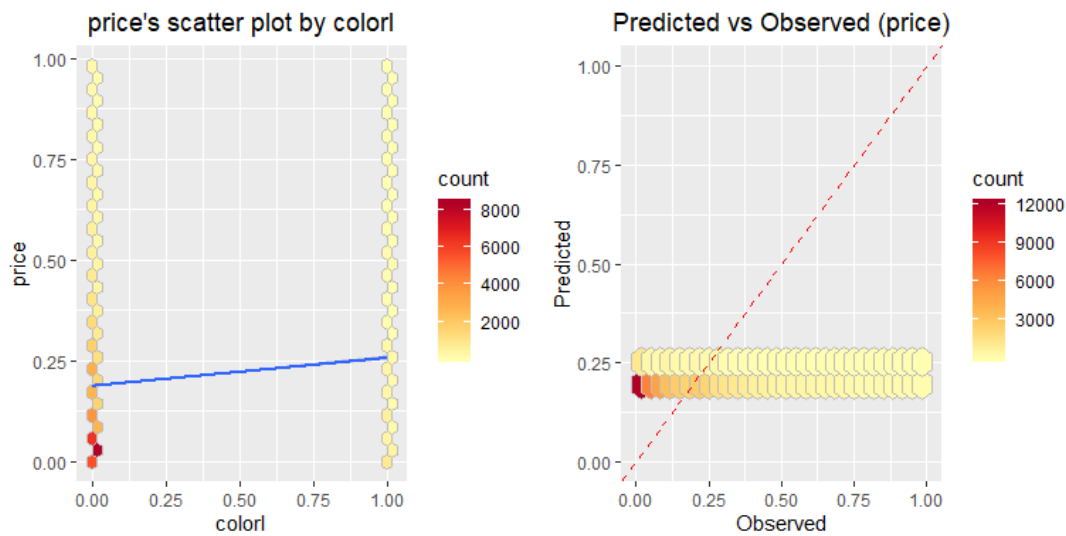
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00943, Adjusted R-squared: 0.00941
F-statistic: 514 on 1 and 53938 DF, p-value: 3.43443829392871e-113

Coefficients:

Simple Linear Model coefficients : colorI				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0	192.90	0
colorI	0.07	0	22.66	0

Visualization:



[colorJ]

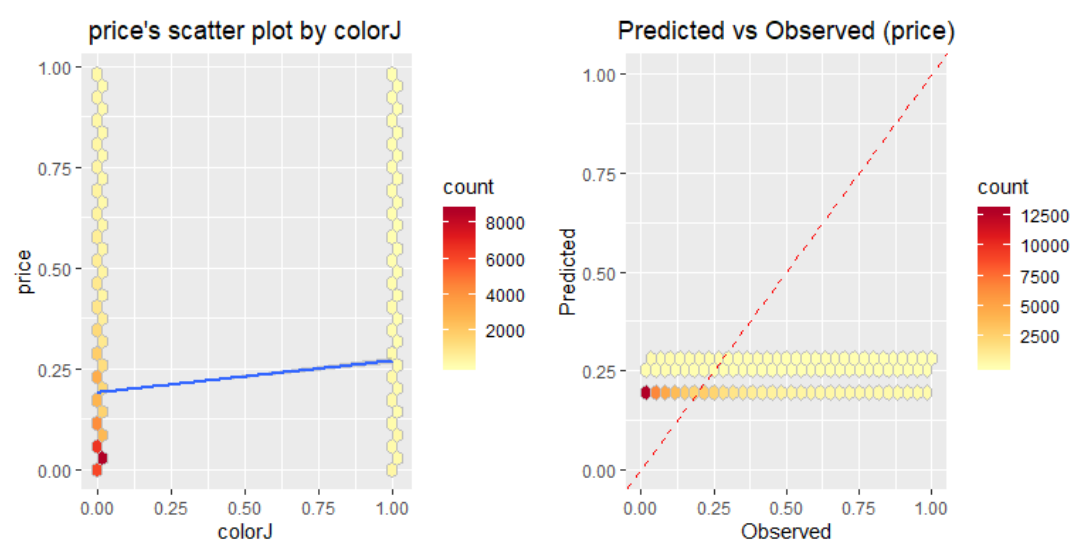
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00668, Adjusted R-squared: 0.00666
F-statistic: 363 on 1 and 53938 DF, p-value: 1.44846492916451e-80

Coefficients:

Simple Linear Model coefficients : colorJ				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0	200.78	0
colorJ	0.08	0	19.04	0

Visualization:



[clarityI1]

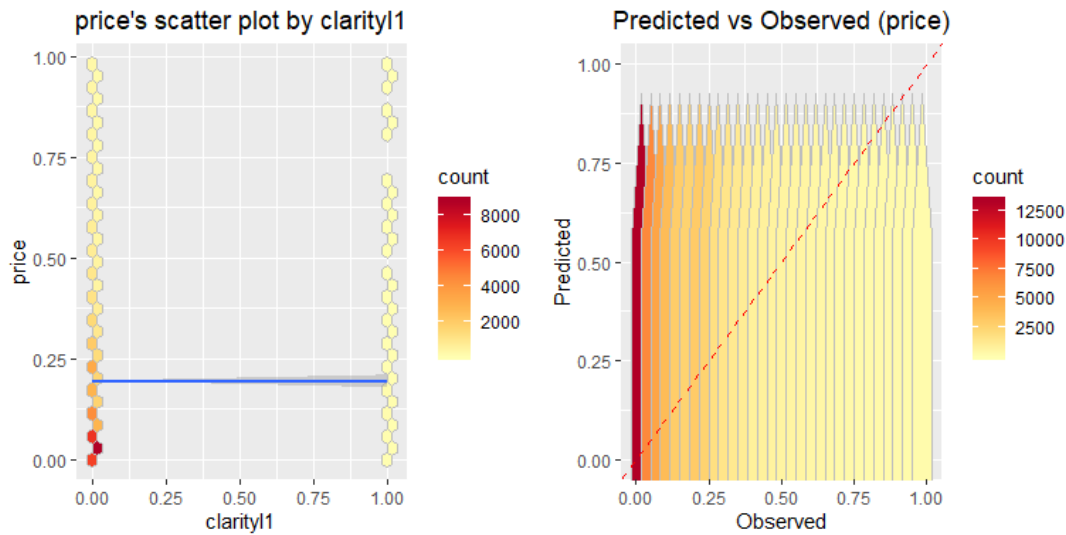
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0, Adjusted R-squared: -2e-05
F-statistic: 0 on 1 and 53938 DF, p-value: 0.952712847846628

Coefficients:

Simple Linear Model coefficients : clarityI1				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.2	0.00	208.53	0.00
clarityI1	0.0	0.01	-0.06	0.95

Visualization:



[clarityIF]

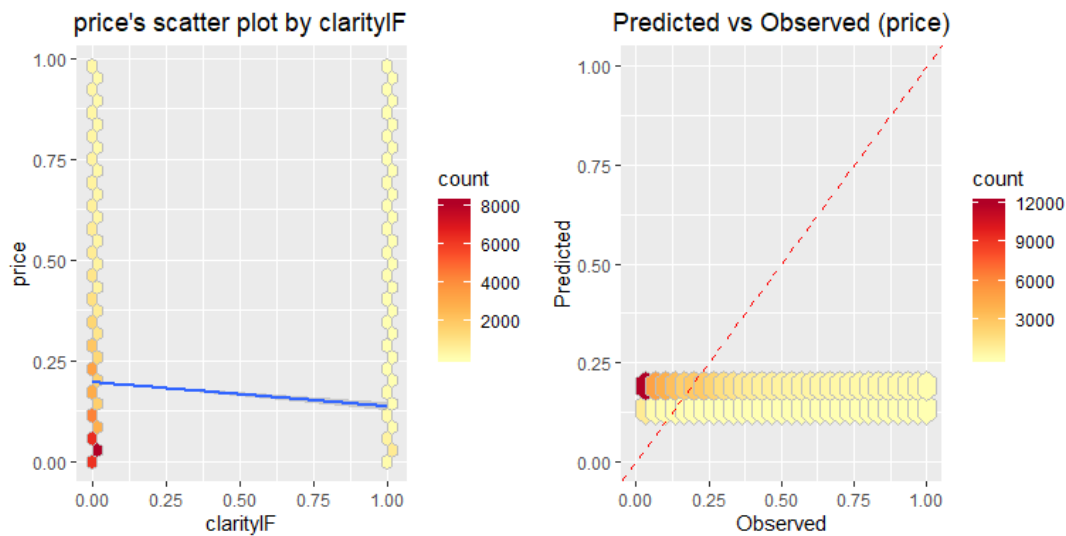
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00246, Adjusted R-squared: 0.00244
F-statistic: 133 on 1 and 53938 DF, p-value: 9.81503533910171e-31

Coefficients:

Simple Linear Model coefficients : clarityIF				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.20	0.00	208.81	0
clarityIF	-0.06	0.01	-11.53	0

Visualization:



[claritySI1]

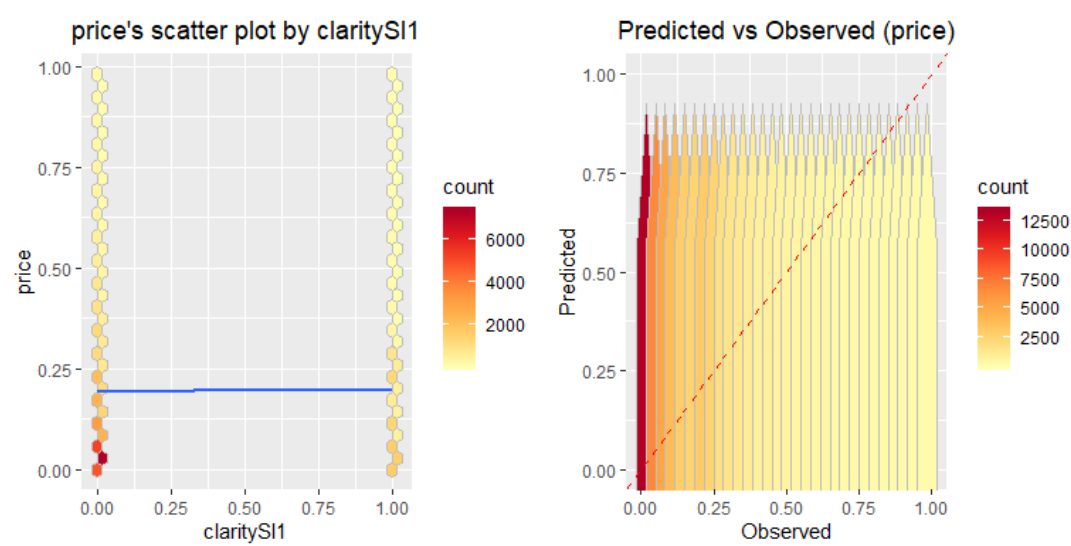
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 8e-05, Adjusted R-squared: 6e-05
F-statistic: 4 on 1 and 53938 DF, p-value: 0.0375098957404741

Coefficients:

Simple Linear Model coefficients : claritySI1				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.19	0	181.77	0.00
claritySI1	0.00	0	2.08	0.04

Visualization:



[claritySI2]

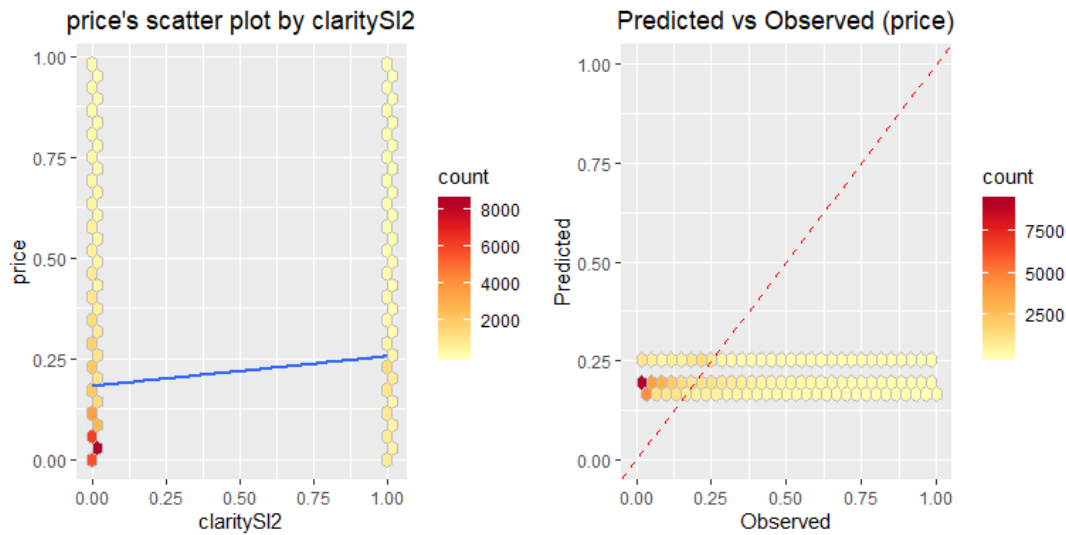
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.01649, Adjusted R-squared: 0.01647
F-statistic: 904 on 1 and 53938 DF, p-value: 4.53624465727249e-197

Coefficients:

Simple Linear Model coefficients : claritySI2				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.18	0	180.42	0
claritySI2	0.07	0	30.07	0

Visualization:



[clarityVS1]

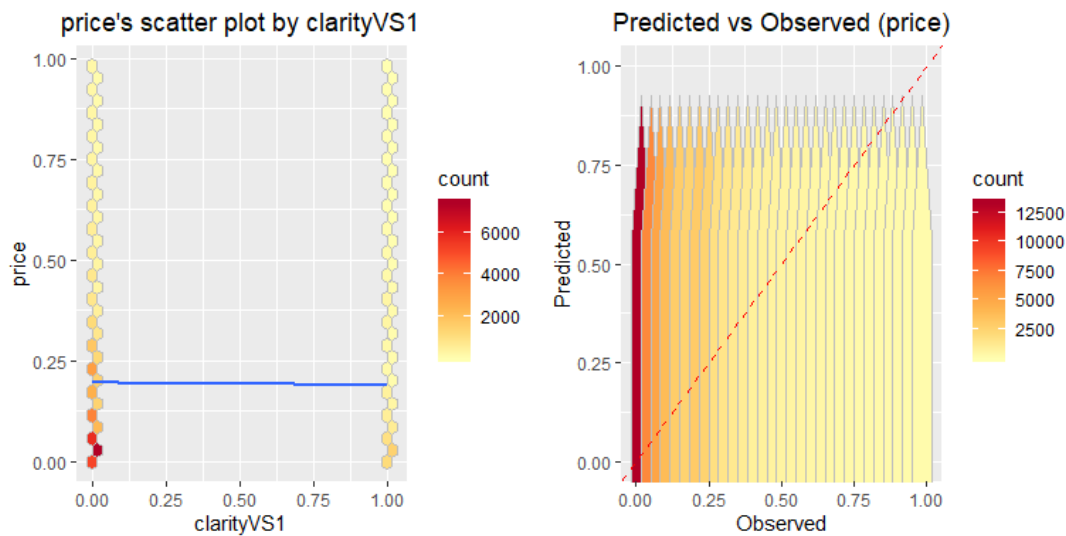
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 1e-04, Adjusted R-squared: 8e-05
F-statistic: 5 on 1 and 53938 DF, p-value: 0.021671017491959

Coefficients:

Simple Linear Model coefficients : clarityVS1				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.20	0	194.32	0.00
clarityVS1	-0.01	0	-2.30	0.02

Visualization:



[clarityVS2]

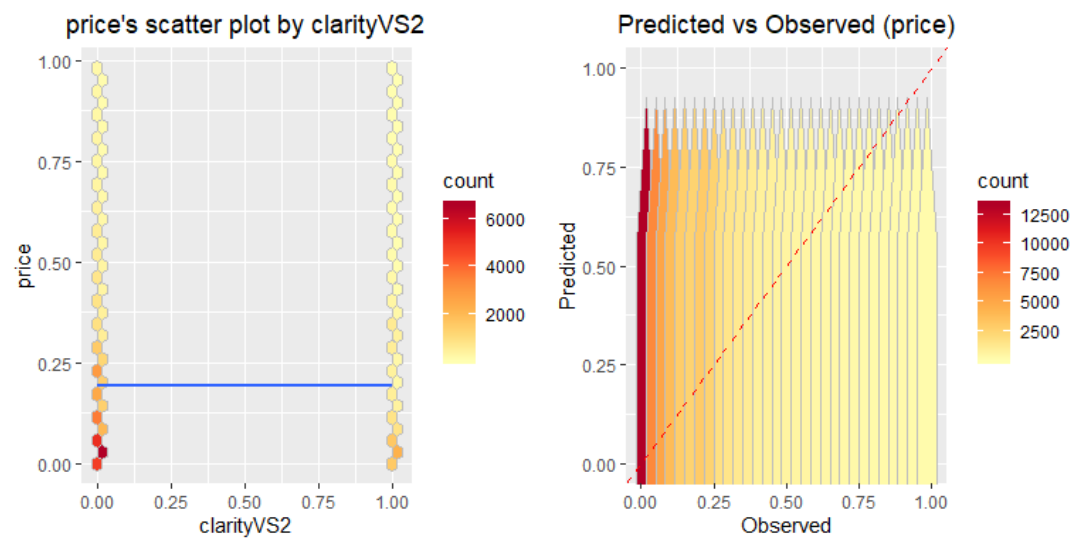
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0, Adjusted R-squared: -2e-05
F-statistic: 0 on 1 and 53938 DF, p-value: 0.805240068913232

Coefficients:

Simple Linear Model coefficients : clarityVS2				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.2	0	184.70	0.00
clarityVS2	0.0	0	-0.25	0.81

Visualization:



[clarityVVS1]

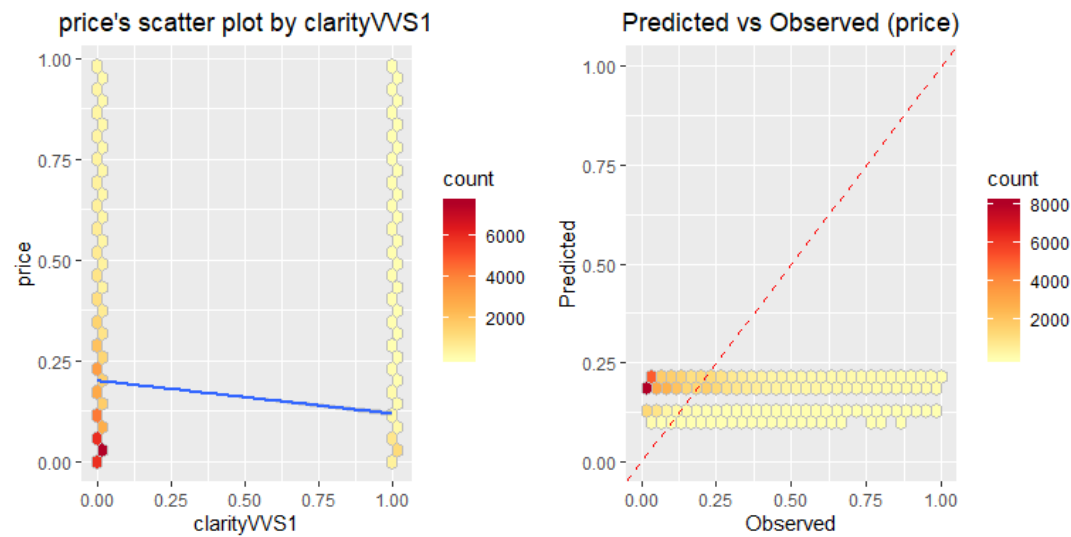
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00908, Adjusted R-squared: 0.00906
F-statistic: 494 on 1 and 53938 DF, p-value: 5.92278254156925e-109

Coefficients:

Simple Linear Model coefficients : clarityVVS1				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.20	0	209.45	0
clarityVVS1	-0.08	0	-22.23	0

Visualization:



[clarityVVS2]

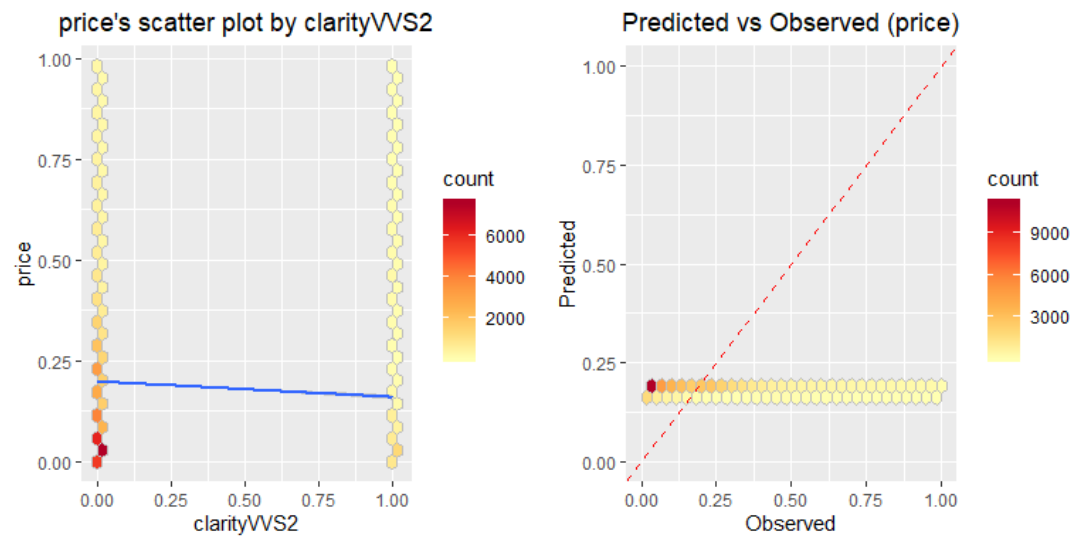
Simple Linear Model Information

Residual standard error: 0 on 53938 degrees of freedom
Multiple R-squared: 0.00274, Adjusted R-squared: 0.00273
F-statistic: 148 on 1 and 53938 DF, p-value: 4.30146025897724e-34

Coefficients:

Simple Linear Model coefficients : clarityVVS2				
	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.20	0	203.88	0
clarityVVS2	-0.04	0	-12.18	0

Visualization:



4.1.2 Grouped Categorical Variables

There is no categorical variable.

4.2 Grouped Relationship Between Variables

4.2.1 Grouped Correlation Coefficient

Numerical target variables are not supported.

4.2.2 Grouped Correlation Plot of Numerical Variables

Numerical target variables are not supported.