Learning Portfolio: Update

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```
241
            expensive
17398
           affordable
36608
           affordable
44731
             adequate
18104 very expensive
. . .
11284
            expensive
44732
             adequate
             adequate
38158
            expensive
860
15795 very expensive
[36139 rows x 10 columns]
```

data.corr()

By having turned cut into a numerical variable, we are now able to analyze its effect on other variables.

		carat	cut	depth	table	x	У	7
car	at	1.000000	-0.139938	0.033351	0.175629	0.975212	0.948318	0.945965
С	ut	-0.139938	1.000000	-0.169529	-0.409105	-0.131307	-0.125194	-0.148888
dep	th	0.033351	-0.169529	1.000000	-0.297566	-0.020945	-0.026081	0.098007
tab	ole	0.175629	-0.409105	-0.297566	1.000000	0.190703	0.178906	0.144665
	x	0.975212	-0.131307	-0.020945	0.190703	1.000000	0.970684	0.962937
	у	0.948318	-0.125194	-0.026081	0.178906	0.970684	1.000000	0.940992
	z	0.945965	-0.148888	0.098007	0.144665	0.962937	0.940992	1.000000

The following familiarity many and a second second

```
from sklearn.compose import ColumnTransformer
from sklearn.pipeline import make_pipeline
from sklearn.preprocessing import FunctionTransformer
from sklearn.preprocessing import StandardScaler
import numpy as np
from sklearn.preprocessing import OneHotEncoder
default_num_pipeline = make_pipeline(StandardScaler())
```

