```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

```
import pandas as pd
```

```
df = pd.read_csv('/content/drive/My Drive/diamonds(1).
```

```
df
```

	Unnamed: 0	carat	cut	color	clarity	d
0	1	0.23	Ideal	E	SI2	
1	2	0.21	Premium	E	SI1	
2	3	0.23	Good	E	VS1	
3	4	0.29	Premium	I	VS2	
4	5	0.31	Good	J	SI2	
...	...	...	...	...	...	
53935	53936	0.72	Ideal	D	SI1	
53936	53937	0.72	Good	D	SI1	
53937	53938	0.70	Very Good	D	SI1	
53938	53939	0.86	Premium	H	SI2	
53939	53940	0.75	Ideal	D	SI2	

53940 rows × 11 columns

Next steps: Generate code with df | View recommended plots

```
df.info
```

NameError NameError

Please explain the error:

```
NameError: name 'plt' is not
```

We're currently experiencing technical difficulties. Please try again in a little while.

```
pandas.core.frame.DataFrame.info
def info(verbose: bool | None=None, buf:
WriteBuffer[str] | None=None, max_cols: int |
None=None, memory_usage: bool | str |
None=None, show_counts: bool | None=None) ->
None
```

```
/usr/local/lib/python3.11/dist-packages/panda
Print a concise summary of a DataFrame.

This method prints information about a DataFr
```

```
df.describe()
```

	Unnamed: 0	carat	depth	
count	53940.000000	53940.000000	53940.000000	53
mean	26970.500000	0.797940	61.749405	
std	15571.281097	0.474011	1.432621	
min	1.000000	0.200000	43.000000	
25%	13485.750000	0.400000	61.000000	
50%	26970.500000	0.700000	61.800000	
75%	40455.250000	1.040000	62.500000	
max	53940.000000	5.010000	79.000000	

```
df.shape
```

```
(53940, 11)
```

```
df.head(5)
```

	Unnamed: 0	carat	cut	color	clarity	depth
0	1	0.23	Ideal	E	SI2	61.5
1	2	0.21	Premium	E	SI1	59.8
2	3	0.23	Good	E	VS1	56.9
3	4	0.29	Premium	I	VS2	62.4

Next steps: Generate code with df | View recommended plots

```
df.tail(9)
```

	Unnamed: 0	carat	cut	color	clarity	d
53931	53932	0.71	Premium	F	SI1	
53932	53933	0.70	Very Good	E	VS2	
53933	53934	0.70	Very Good	E	VS2	
53934	53935	0.72	Premium	D	SI1	
53935	53936	0.72	Ideal	D	SI1	
53936	53937	0.72	Good	D	SI1	
53937	53938	0.70	Very Good	D	SI1	
53938	53939	0.86	Premium	H	SI2	
53939	53940	0.75	Ideal	D	SI2	

```
df['cut']
```

	cut
0	Ideal
1	Premium
2	Good
3	Premium
4	Good
...	...
53935	Ideal
53936	Good
53937	Very Good
53938	Premium
53939	Ideal

53940 rows × 1 columns

dtype: object

```
df['cut'].head(20)
```

	cut
0	Ideal
1	Premium
2	Good
3	Premium
4	Good
5	Very Good
6	Very Good
7	Very Good
8	Fair
9	Very Good
10	Good
11	Ideal
12	Premium
13	Ideal
14	Premium
15	Premium
16	Ideal
17	Good
18	Good
19	Very Good

dtype: object

Generate randomly select 5 items fro... Close

```
df[['cut','color']]
```

	cut	color
0	Ideal	E
1	Premium	E
2	Good	E
3	Premium	I
4	Good	J

```
df[['cut','color']].head(20)
```

	cut	color
53935	Ideal	D
53936	Good	D
53938	Premium	H
53940 rows × 2 columns		

	cut	color
0	Ideal	E
1	Premium	E
2	Good	E
3	Premium	I
4	Good	J
5	Very Good	J
6	Very Good	I
7	Very Good	H
8	Fair	E
9	Very Good	H
10	Good	J
11	Ideal	J
12	Premium	F
13	Ideal	J
14	Premium	E
15	Premium	E
16	Ideal	I
17	Good	J
18	Good	J
19	Very Good	J

```
df[['cut','color','price']].head(20)
```

	cut	color	price
0	Ideal	E	326
1	Premium	E	326
2	Good	E	327
3	Premium	I	334
4	Good	J	335
5	Very Good	J	336
6	Very Good	I	336
7	Very Good	H	337
8	Fair	E	337
9	Very Good	H	338
10	Good	J	339
11	Ideal	J	340
12	Premium	F	342
13	Ideal	J	344
14	Premium	E	345
15	Premium	E	345
16	Ideal	I	348
17	Good	J	351
18	Good	J	351
19	Very Good	J	351

Double-click (or enter) to edit

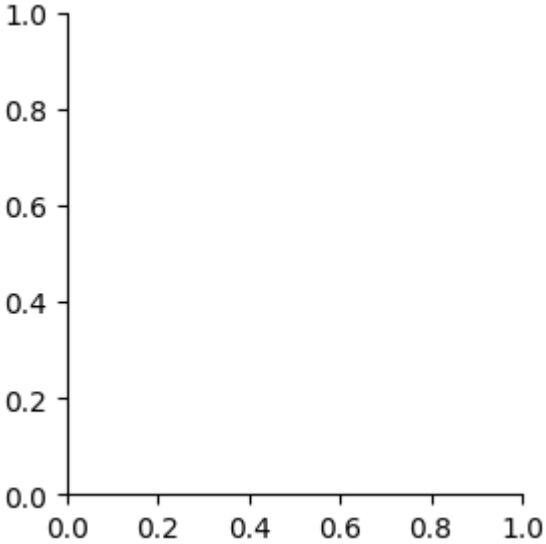
```
df[['cut','color','x','y','z']].head(20)
```

	cut	color	x	y	z
0	Ideal	E	3.95	3.98	2.43
1	Premium	E	3.89	3.84	2.31
2	Good	E	4.05	4.07	2.31
3	Premium	I	4.20	4.23	2.63
4	Good	J	4.34	4.35	2.75
5	Very Good	J	3.94	3.96	2.48
6	Very Good	I	3.95	3.98	2.47
7	Very Good	H	4.07	4.11	2.53
8	Fair	E	3.87	3.78	2.49
9	Very Good	H	4.00	4.05	2.39
10	Good	J	4.25	4.28	2.73
11	Ideal	J	3.93	3.90	2.46
12	Premium	F	3.88	3.84	2.33
13	Ideal	J	4.35	4.37	2.71
14	Premium	E	3.79	3.75	2.27
15	Premium	E	4.38	4.42	2.68
16	Ideal	I	4.31	4.34	2.68
17	Good	J	4.23	4.29	2.70
18	Good	J	4.23	4.26	2.71
19	Very Good	J	4.21	4.27	2.66

```
import seaborn as sns
```

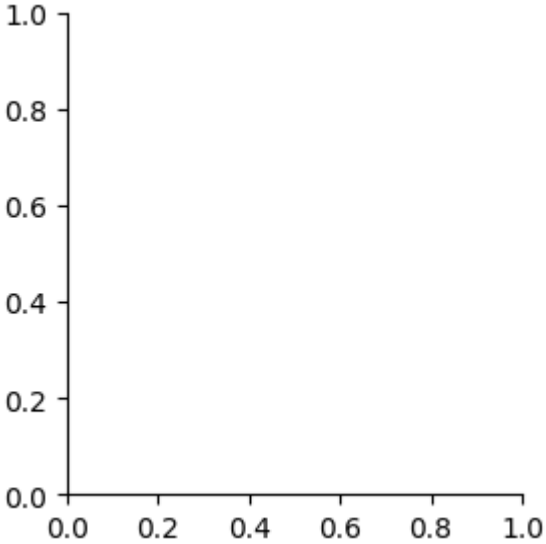
```
sns.FacetGrid(df)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f7185d7e110>
```




```
sns.FacetGrid(df)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f71846f9850>
```

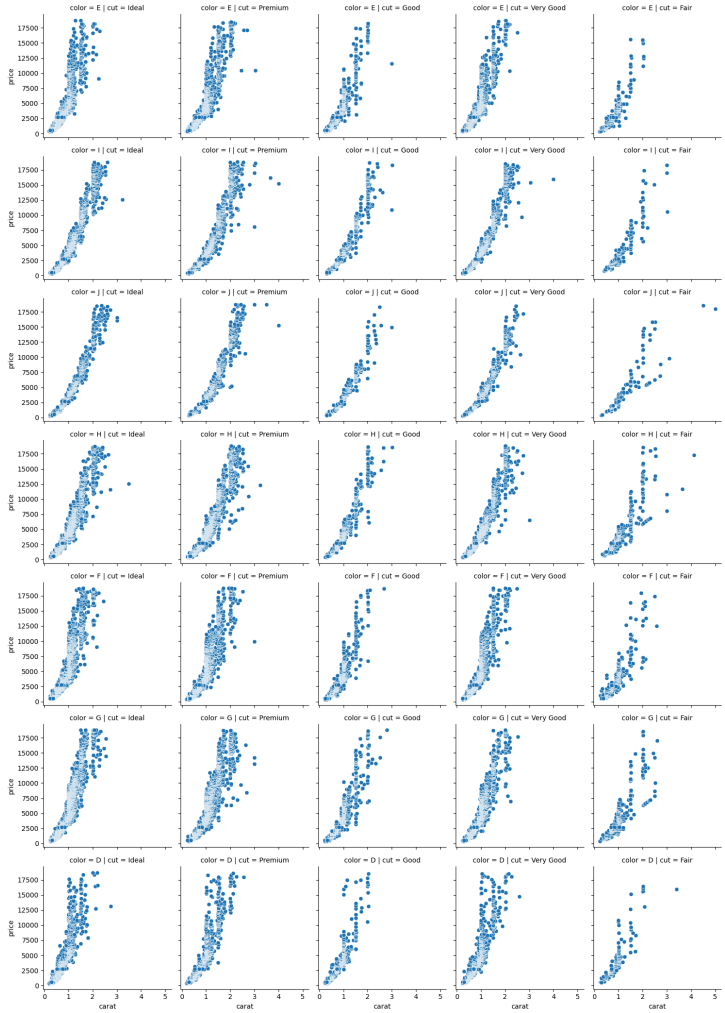



```
g = sns.FacetGrid(df, col='cut', row='color')
```


```
g = sns.FacetGrid(df, col='cut', row='color')
g.map(sns.scatterplot, "carat", "price")
```

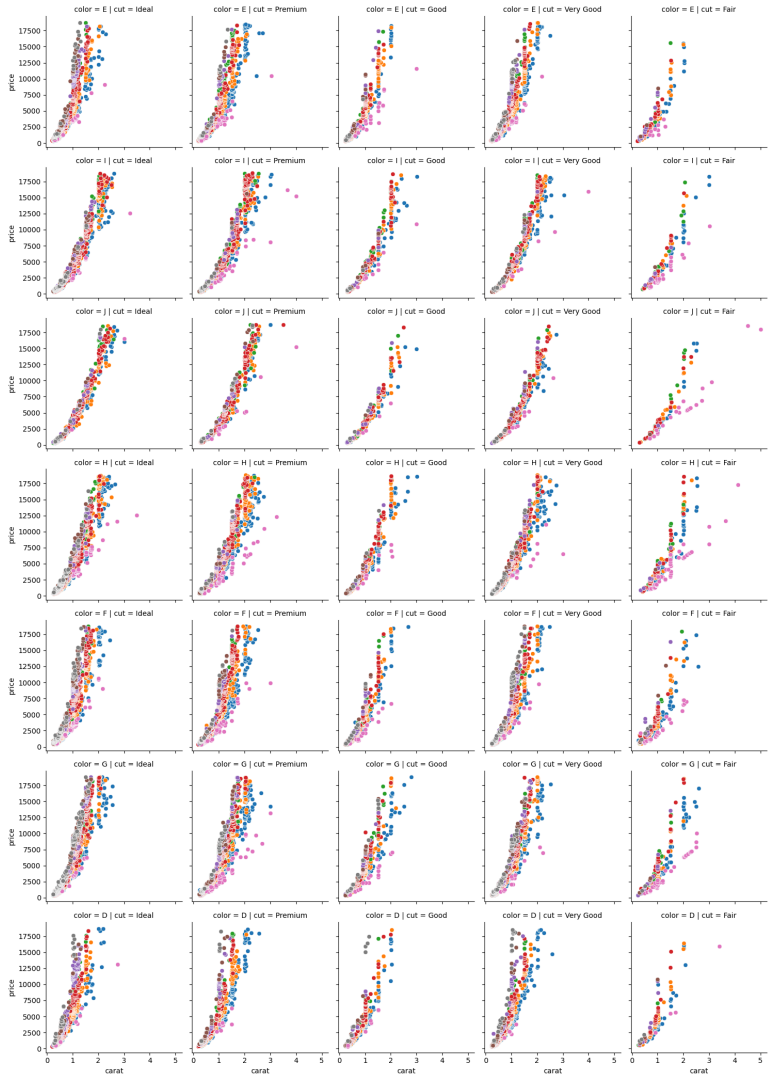
```
g.map(sns.scatterplot, "carat", "price")
```

```
<seaborn.axisgrid.FacetGrid at 0x7f71740fb590>
```



```
g = sns.FacetGrid(df, col='cut', row='color', hue='clari
g.map(sns.scatterplot, "carat", "price")
```

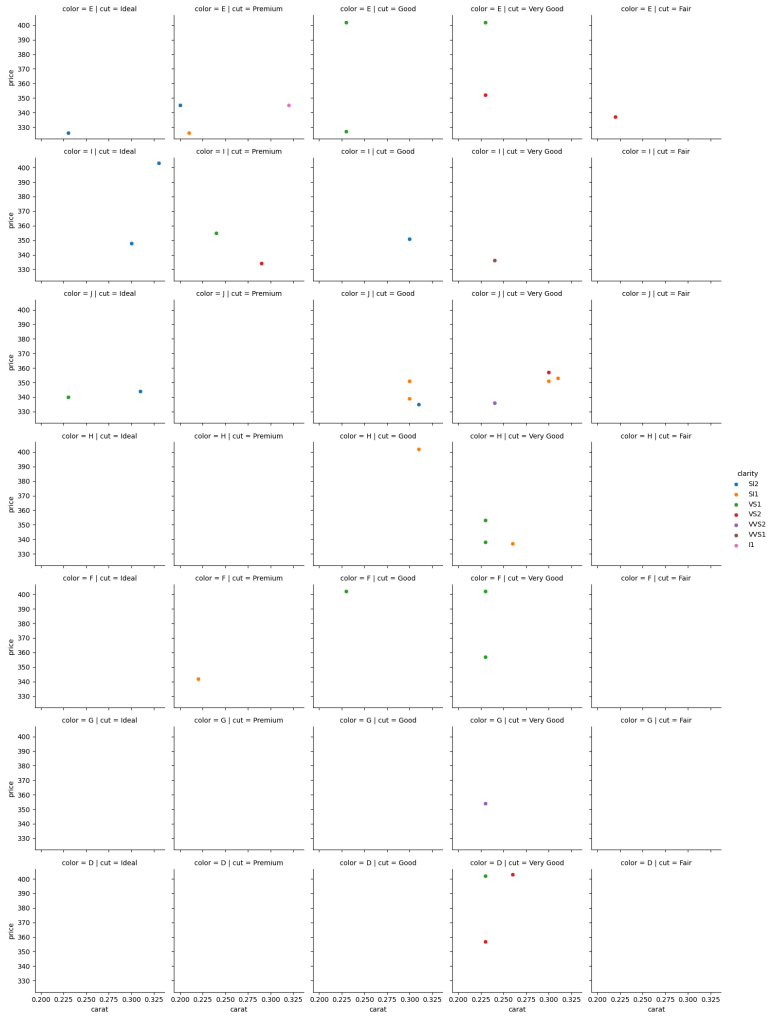
```
<seaborn.axisgrid.FacetGrid at 0x7f7171c1ba90>
```




```
newdf=df.head(40)
g = sns.FacetGrid(newdf, col='cut',
```

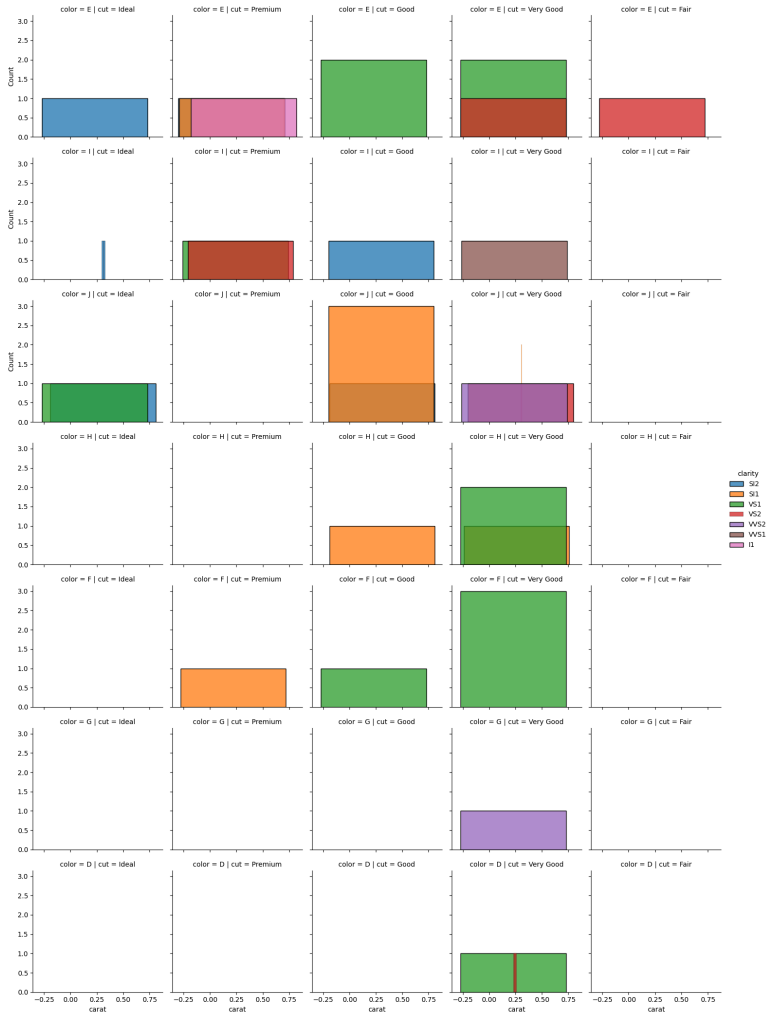
```
row='color', hue='clarity')
g.map(sns.scatterplot, "carat", "price")
g.add_legend()
```

```
<seaborn.axisgrid.FacetGrid at 0x7f7175573b50>
```



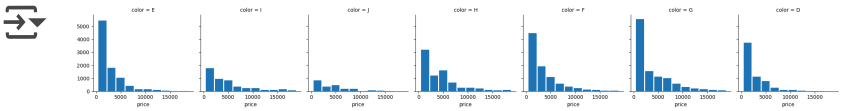
```
newdf=df.head(40)
g = sns.FacetGrid(newdf, col='cut', row='color', hue='
g.map(sns.histplot, "carat")
g.add_legend()
```

```
<seaborn.axisgrid.FacetGrid at 0x7f717116df10>
```

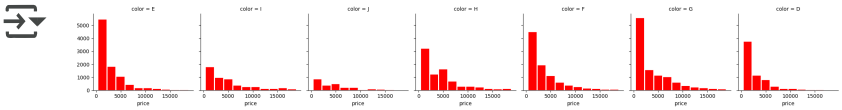



```
import matplotlib.pyplot as plt
```

```
g = sns.FacetGrid(df, col="color")
g = g.map(plt.hist, "price", edgecolor ='w', linewidth
```




```
g = sns.FacetGrid(df, col="color")
g = g.map(plt.hist, "price", edgecolor ='w',linewidth=
```




```
g = sns.FacetGrid(df, col='cut', row='color', height=4
g.map(plt.scatter, "carat", "price")
```

Enter a prompt here

0/2000

```
<seaborn.axisgrid.FacetGrid at 0x7f716e3df1d0>
```