GE ASSIGNMET 7(SEM2).py - C:/Users/Harsh/AppData/Local/Programs/Python/Python311/GE ASSIGNMET 7(SEM2).py (3.11.0)

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```
import seaborn as sns
diamonds=sns.load_dataset('diamonds')
print(diamonds)
import matplotlib.pyplot as plt
sns.lineplot(x='price',y='carat',hue='cut',data=diamonds)
plt.title('Price vs. Carat')
plt.xlabel('Price')
plt.ylabel('Carat')
plt.show()

import matplotlib.pyplot as plt
sns.scatterplot(x='price',y='carat',hue='cut',size='color',data=diamonds)
plt.title('carat vs price')
plt.xlabel('price')
plt.ylabel('carat')
plt.show()

g = sns.FacetGrid(diamonds, row='color', col='cut', margin_titles=True)
g.map(sns.scatterplot, 'carat', 'price')
g.tight_layout()
plt.show()


# Create the bar plot using seaborn
sns.barplot(x='cut', y='price', data=diamonds)
plt.xlabel('Cut')
plt.ylabel('Mean Price')
plt.title('Mean Price of Diamonds by Cut')
plt.show()
```

Ln: 3 Col: 15

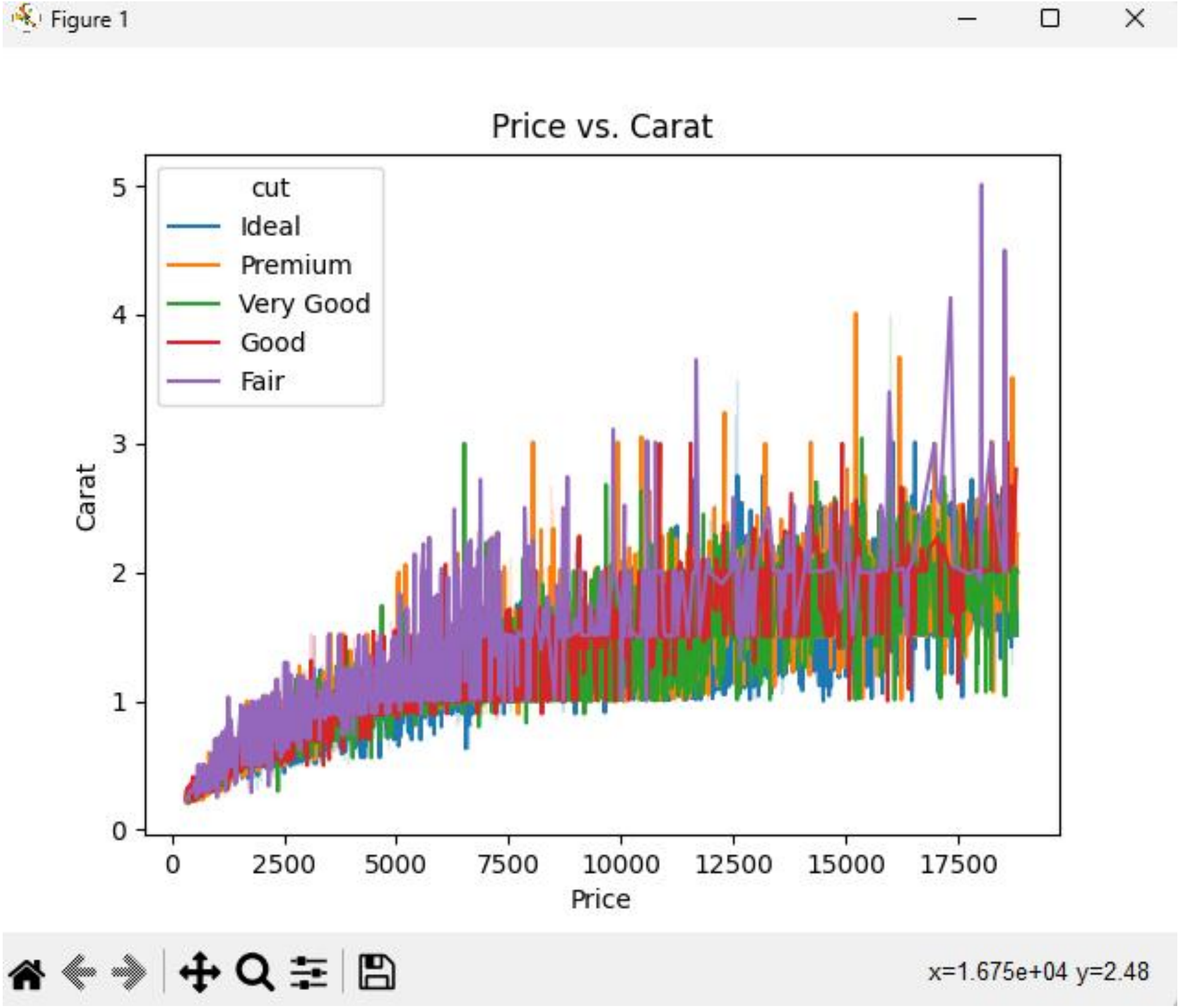


Figure 1
Price vs. Carat
cut
Ideal
Premium
Very Good
Good
Fair
Carat
Price
0
1
2
3
4
5
0
2500
5000
7500
10000
12500
15000
17500
x=1.675e+04 y=2.48

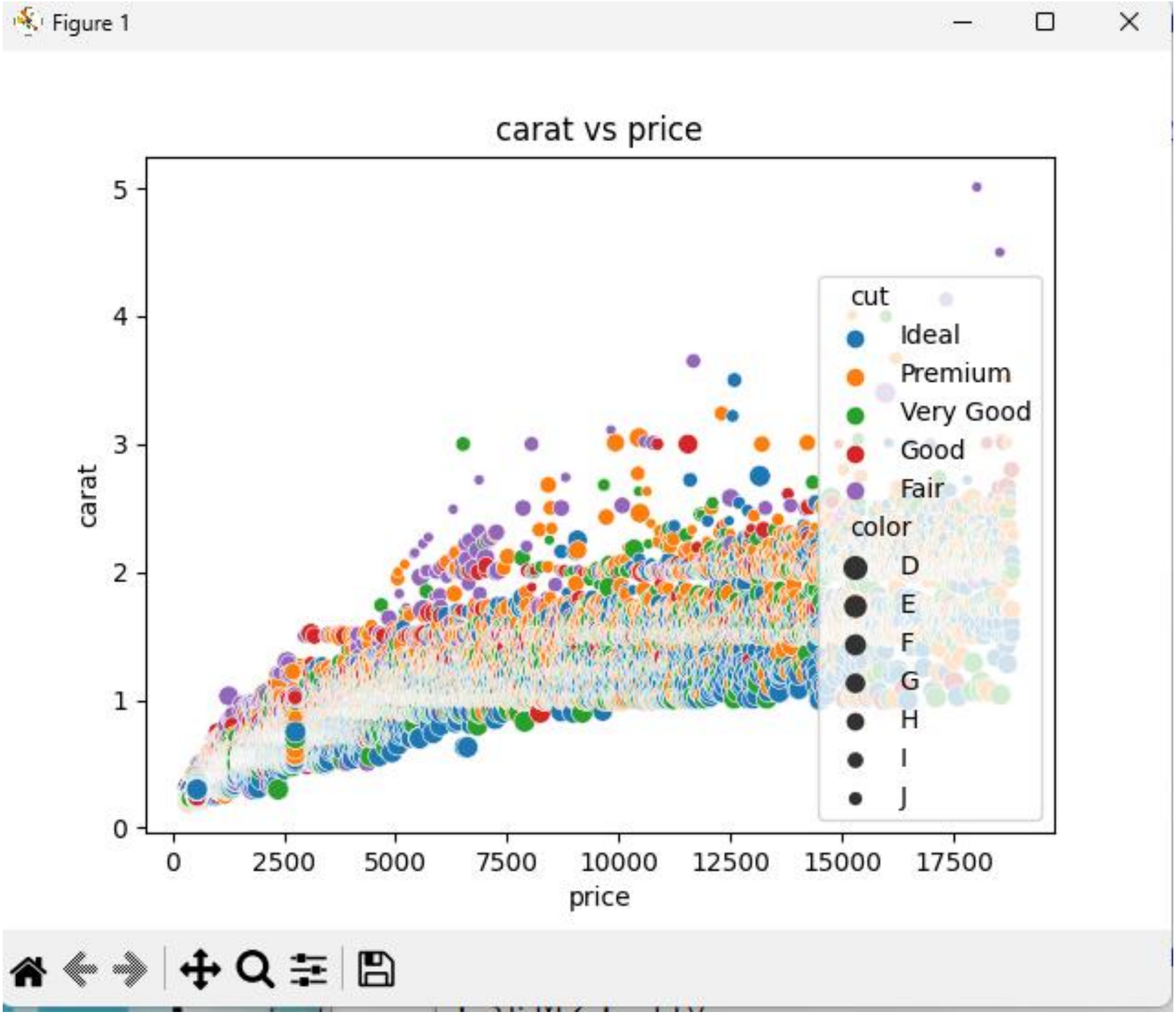


Figure 1
carat vs price
carat
price
0
1
2
3
4
5
0
2500
5000
7500
10000
12500
15000
17500
cut
Ideal
Premium
Very Good
Good
Fair
color
D
E
F
G
H
I
J

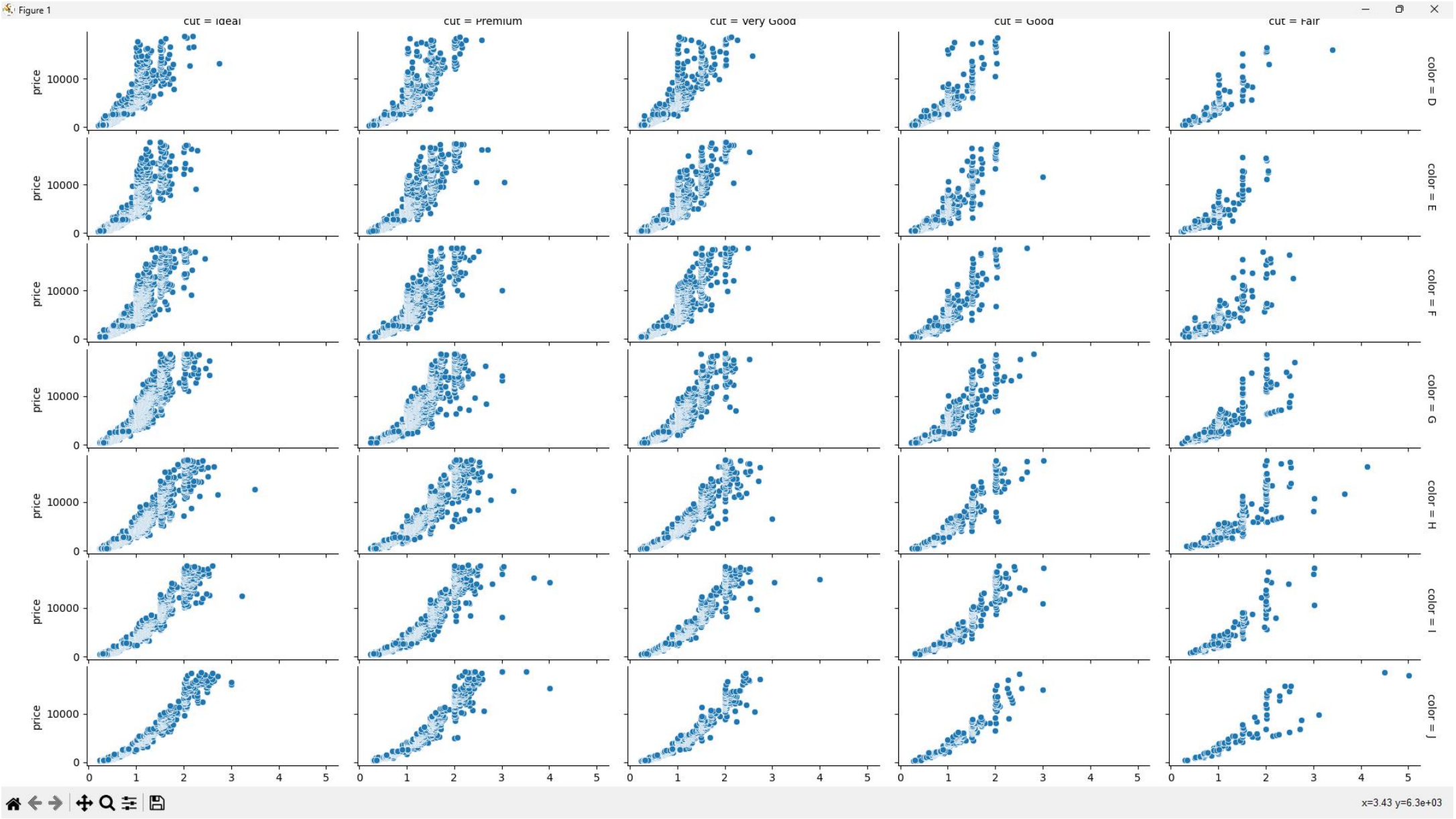
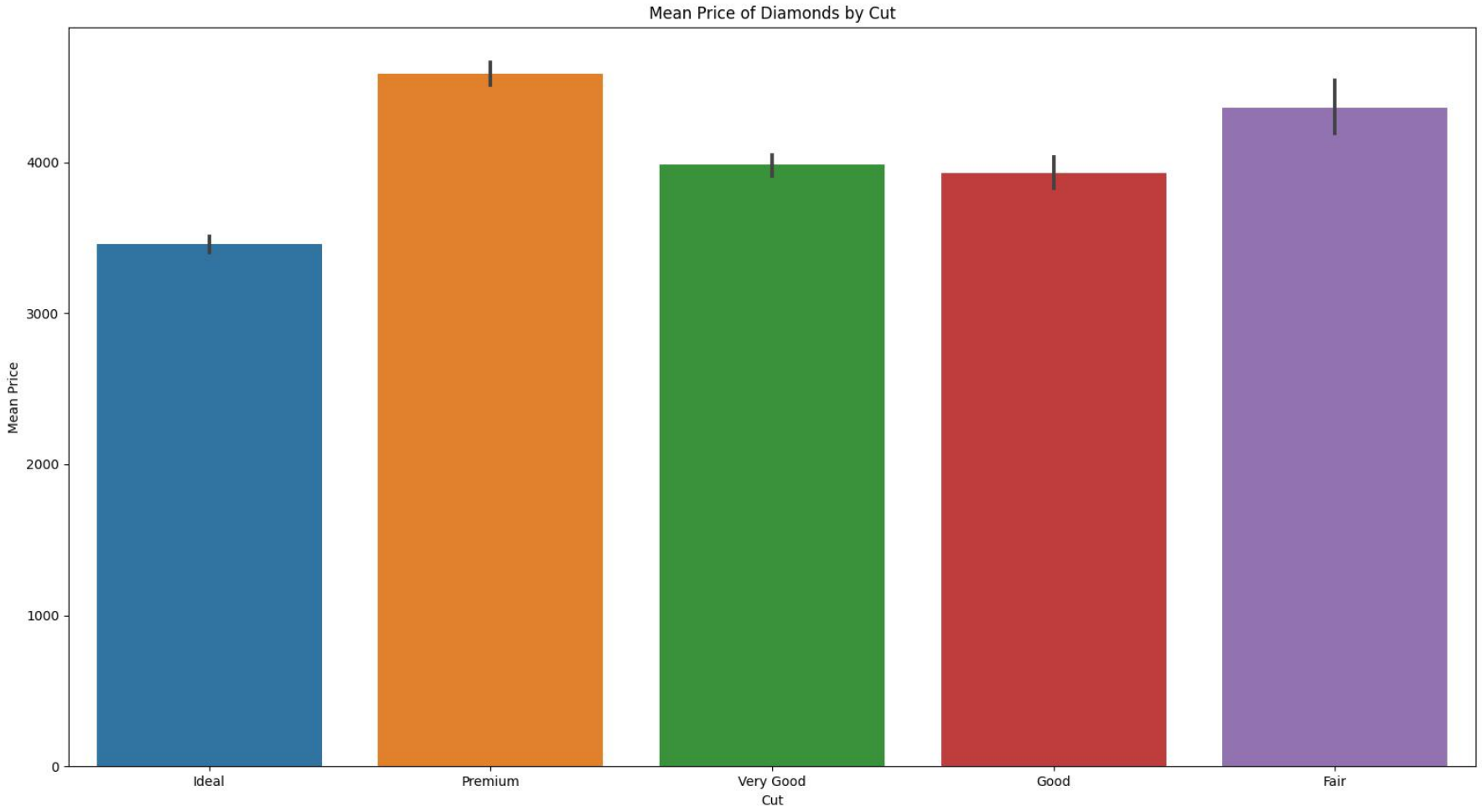


Figure 1
cut = Ideal
cut = Premium
cut = Very Good
cut = Good
cut = Fair
color = D
color = E
color = F
color = G
color = H
color = I
color = J
price
10000
0
0
1
2
3
4
5
x=3.43 y=6.3e+03

Figure 1



x= y=4229.