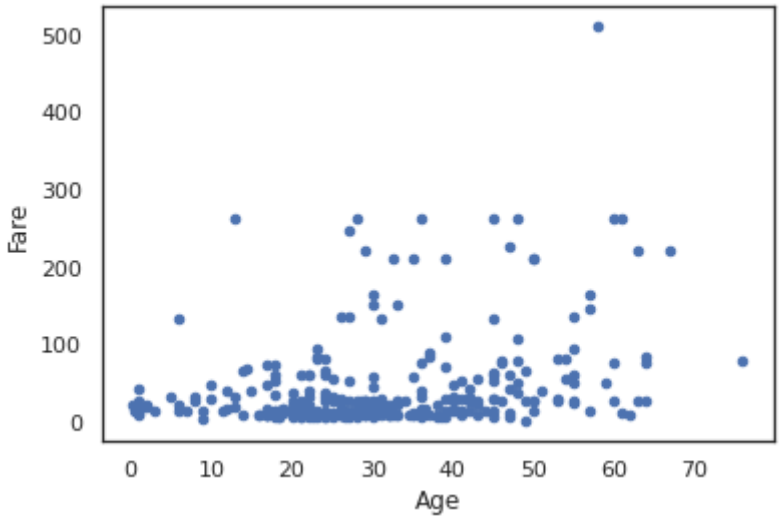
```
import pandas as pd
import matplotlib.pyplot as plt

titanic_filepath = "titanic.csv"
titanic = pd.read_csv(titanic_filepath)
titanic.head()
```

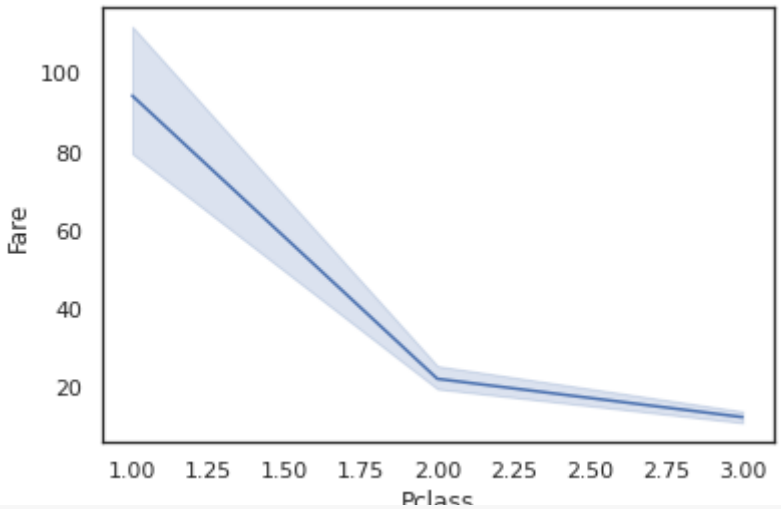
	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	P
0	892	0	3	Kelly, Mr. James	male	34.5	0	
1	893	1	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	
2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	
3	895	0	3	Wirz, Mr. Albert	male	27.0	0	
4	896	1	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	

```
import seaborn as sns
sns.set(style="white",color_codes=True)
titanic.plot(kind="scatter",x="Age",y="Fare")
plt.show()
```

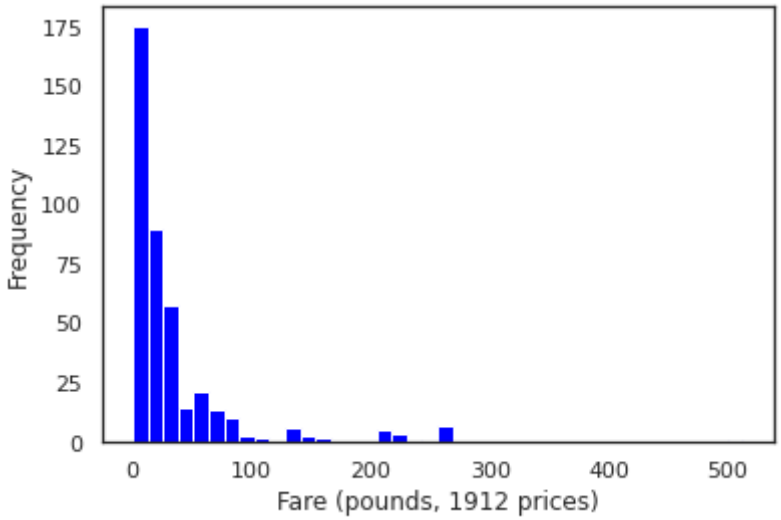
```
WARNING:matplotlib.axes._axes:*c* argument looks like a single numeric RGB or RGBA s
```



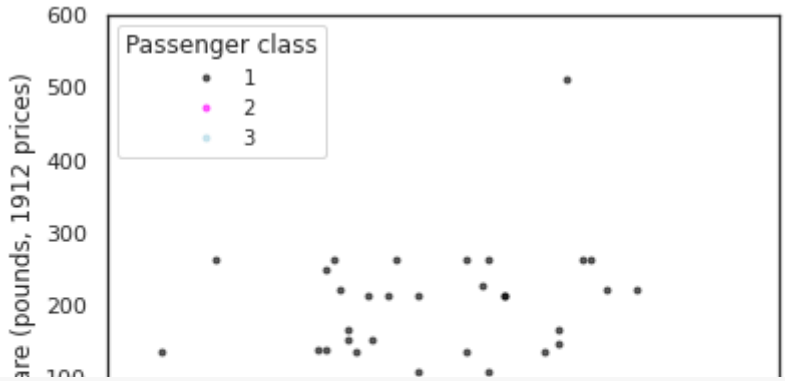

```
sns.lineplot(x="Pclass",y="Fare",data=titanic)
plt.show()
```




```
titanic_hist = titanic.Fare.plot.hist(bins = 40, color = 'blue')
plt.xlabel('Fare (pounds, 1912 prices)')
plt.show(titanic_hist)
```

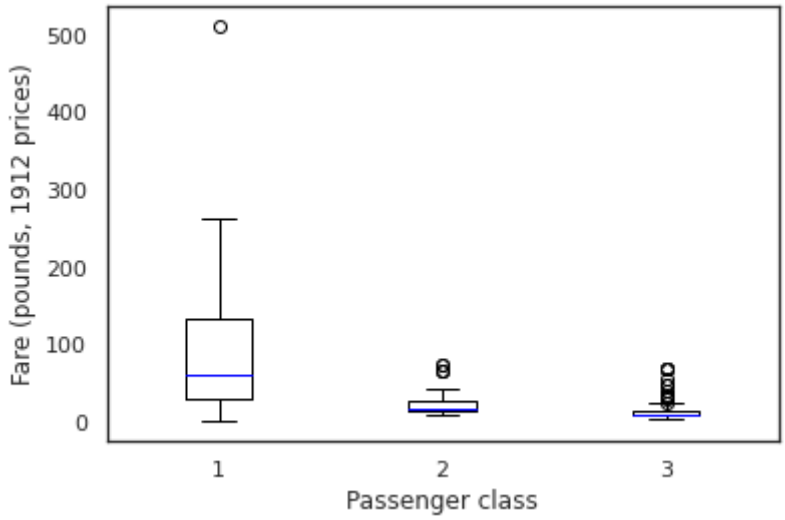



```
titanic_pclass_fig, titanic_pclass_ax = plt.subplots()
color = ['black', 'magenta', 'lightblue']
count = 0
for name, group in titanic.groupby('Pclass'):
 titanic_pclass_ax.plot(group.Age, group.Fare, '.',
 label = name, alpha = 0.6,
 c = color[count])
 count += 1
titanic_pclass_ax.legend(numpoints=1, title = "Passenger class",
fontsize = 10)
plt.xlabel('Age (years)')
plt.ylabel('Fare (pounds, 1912 prices)')
titanic_pclass_ax.set_xlim(-1, 85)
titanic_pclass_ax.set_ylim(-1, 600)
plt.show(titanic_pclass_fig)
```

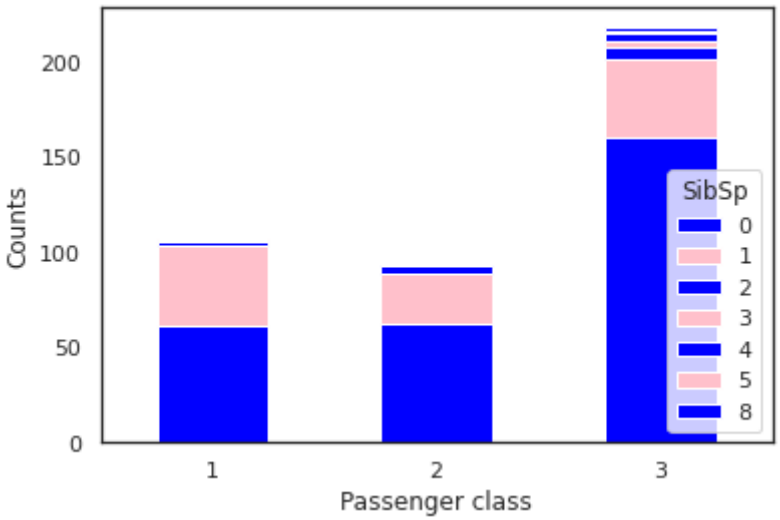



```
pclass_fare_titanic = titanic[['Pclass', 'Fare']].pivot(columns =
'Pclass', values = 'Fare')
box_color = dict(boxes = 'black',
 whiskers = 'black',
 medians = 'blue',
 caps = 'black')
titanic_pclass_boxplot = pclass_fare_titanic.plot.box(color =
box_color)
plt.xlabel('Passenger class')
plt.ylabel('Fare (pounds, 1912 prices)')
plt.show(titanic_pclass_boxplot)
```

```
/usr/local/lib/python3.7/dist-packages/matplotlib/cbook/__init__.py:1376: VisibleDep
  X = np.atleast_1d(X.T if isinstance(X, np.ndarray) else np.asarray(X))
```




```
contingency_titanic = titanic.groupby(['Pclass',
'SibSp']).size().unstack()
titanic_barplot = contingency_titanic.plot.bar(stacked=True,
 color = ["blue",
"pink"])
plt.ylabel("Counts")
plt.xlabel('Passenger class')
plt.xticks(rotation=0)
plt.show(titanic_barplot)
```



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