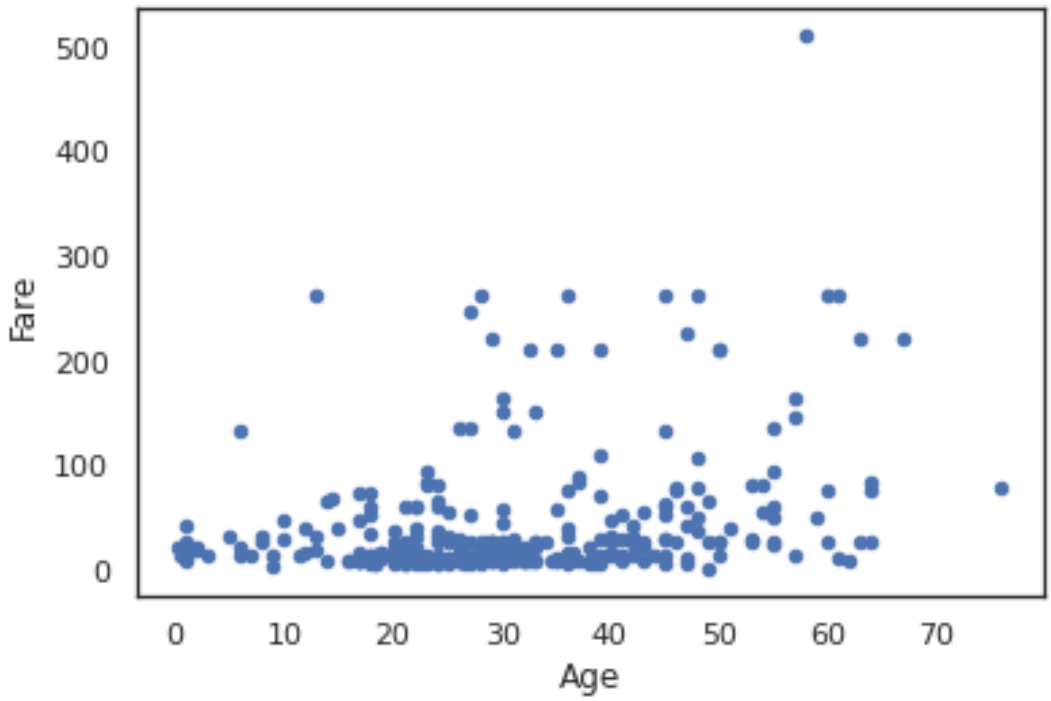
```
import pandas as pd
import matplotlib.pyplot as plt
titanic_filepath = "titanic.csv"
titanic = pd.read_csv(titanic_filepath)
titanic.head()
```

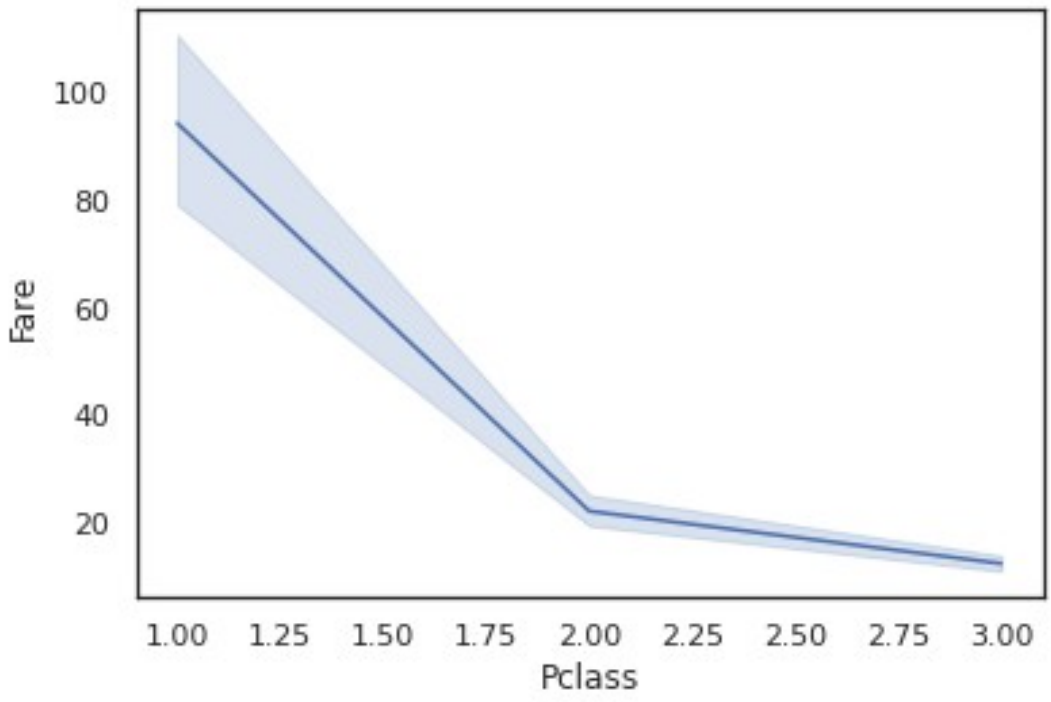
```
   PassengerId  Survived  Pclass  \
0          892         0       3
1          893         1       3
2          894         0       2
3          895         0       3
4          896         1       3

                                          Name     Sex   Age  SibSp
Parch  \
0                              Kelly, Mr. James    male  34.5      0
0
1              Wilkes, Mrs. James (Ellen Needs)  female  47.0      1
0
2                     Myles, Mr. Thomas Francis    male  62.0      0
0
3                              Wirz, Mr. Albert    male  27.0      0
0
4  Hirvonen, Mrs. Alexander (Helga E Lindqvist)  female  22.0      1
1

    Ticket     Fare Cabin Embarked
0   330911   7.8292   NaN        Q
1   363272   7.0000   NaN        S
2   240276   9.6875   NaN        Q
3   315154   8.6625   NaN        S
4  3101298  12.2875   NaN        S
```

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

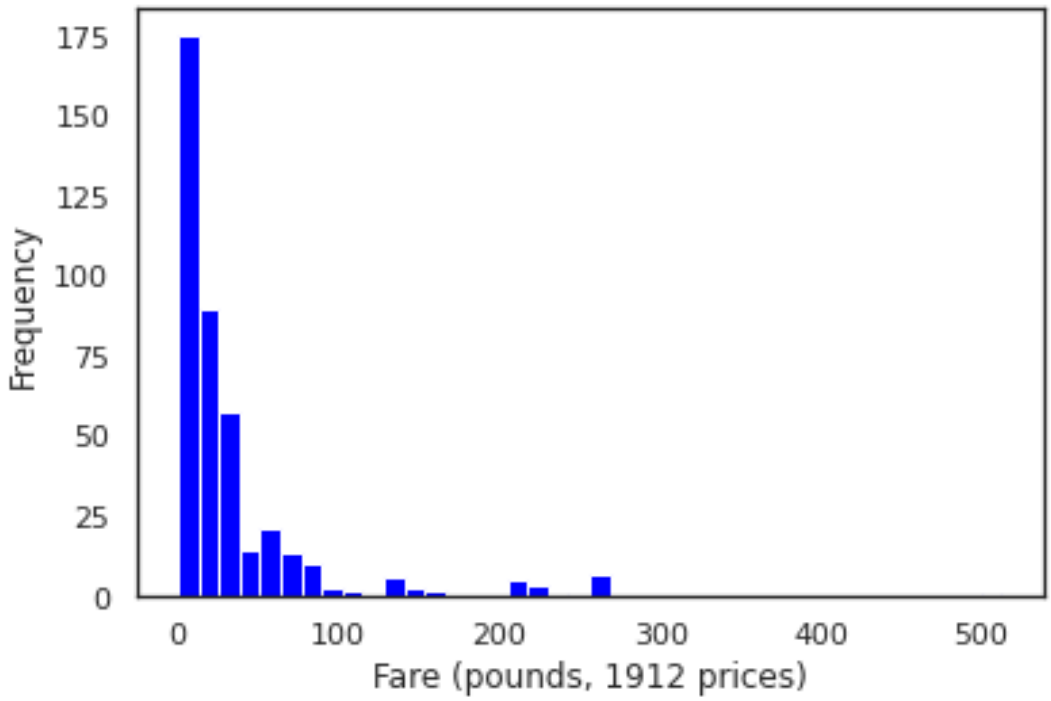
```
WARNING:matplotlib.axes._axes:*c* argument looks like a single numeric
RGB or RGBA sequence, which should be avoided as value-mapping will
have precedence in case its length matches with *x* & *y*.  Please use
the *color* keyword-argument or provide a 2-D array with a single row
if you intend to specify the same RGB or RGBA value for all points.
```




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

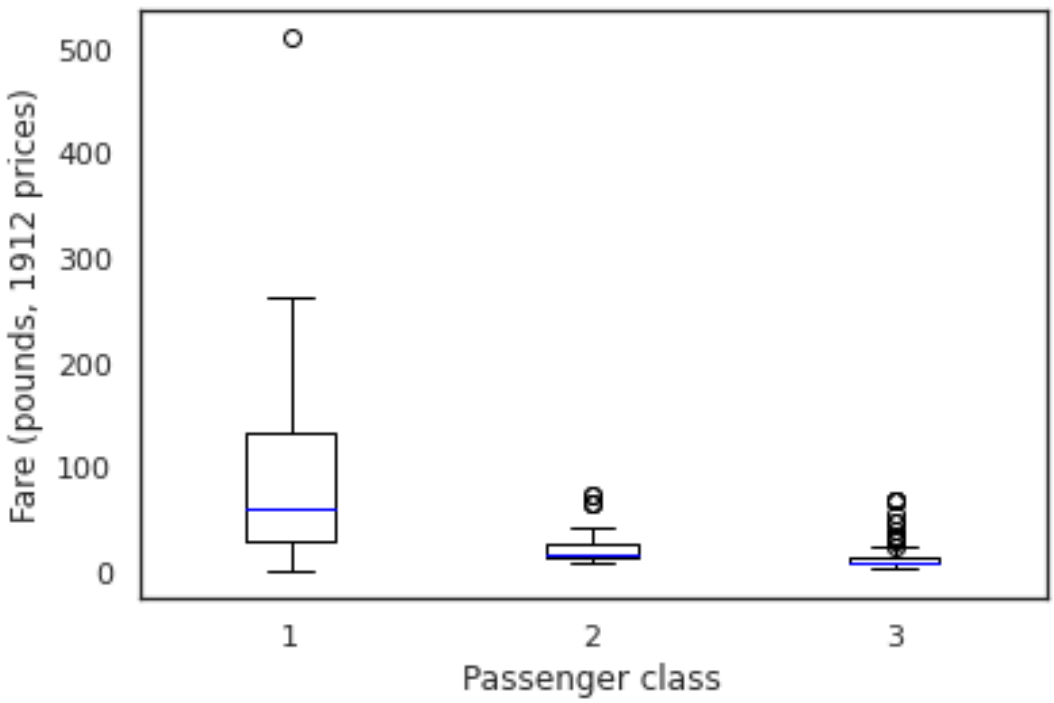



```
titanic_hist = titanic.Fare.plot.hist(bins = 40, color = 'blue')
plt.xlabel('Fare (pounds, 1912 prices)')
plt.show(titanic_hist)
```

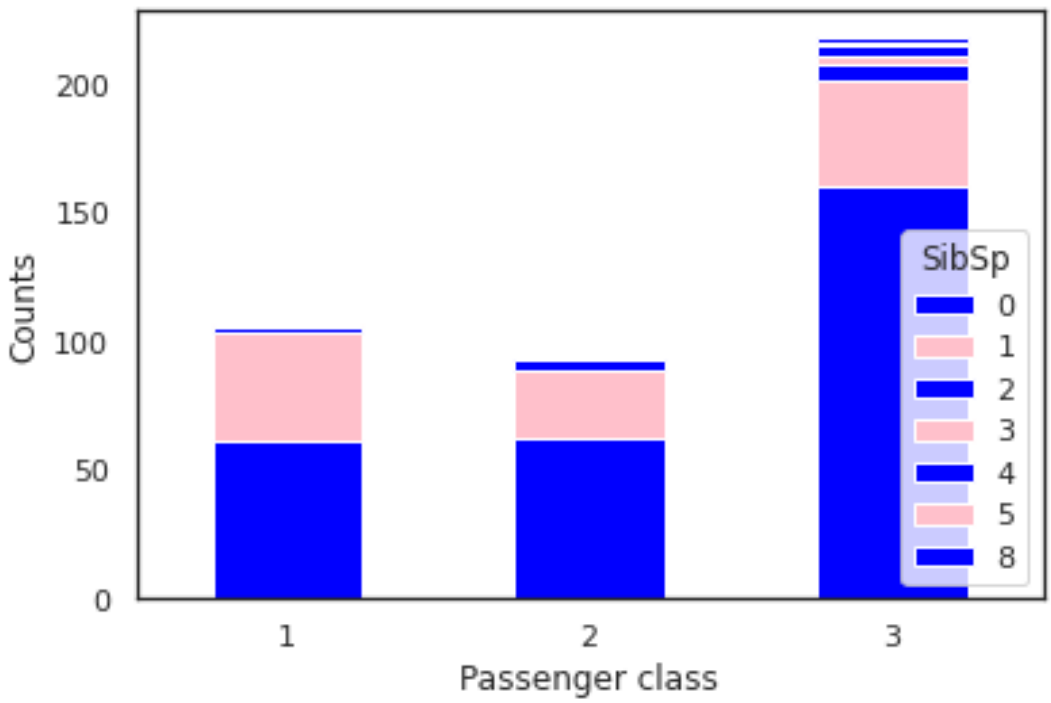



```
pclass_fare_titanic = titanic[['Pclass', 'Fare']].pivot(columns =
'Pclass', values = 'Fare')
box_color = dict(boxes = 'black',
whiskers = 'black',
medians = 'blue',
caps = 'black')
titanic_pclass_boxplot = pclass_fare_titanic.plot.box(color =
box_color)
plt.xlabel('Passenger class')
plt.ylabel('Fare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

```
/usr/local/lib/python3.7/dist-packages/matplotlib/cbook/
__init__.py:1376: VisibleDeprecationWarning: Creating an ndarray from
ragged nested sequences (which is a list-or-tuple of lists-or-tuples-
or ndarrays with different lengths or shapes) is deprecated. If you
meant to do this, you must specify 'dtype=object' when creating the
ndarray.
  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)
```


200
150
100
50
0
Counts
1
2
3
Passenger class
SibSp
0
1
2
3
4
5
8