

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

titanic_filepath = "/content/data.csv"

titanic = pd.read_csv(titanic_filepath)

titanic.head()
```

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cab
0	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	Ni
1	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	Ni
2	894	2	Myles, Mr. Thomas	male	62.0	0	0	240276	9.6875	Ni

```
import seaborn as sns
sns.set(style="white", color_codes=True)
```

```
titanic_pclass_fig, titanic_pclass_ax = plt.subplots()
```

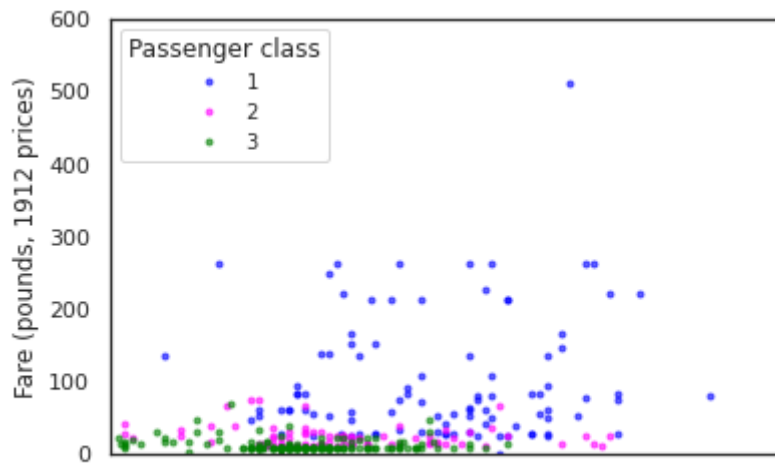
```
color = ['blue', 'magenta', 'green']
```

```
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
```

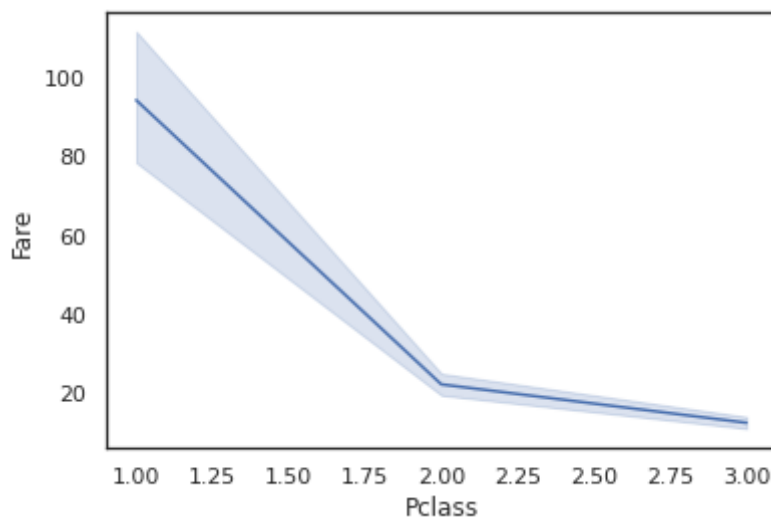
```
titanic_pclass_ax.legend(numpoints=1, title = "Passenger class", fontsize = 10)
```

```
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)
```



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



```
import seaborn as sns
sns.set(style="white",color_codes=True)
```

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

```
plt.show(titanic_hist)
```



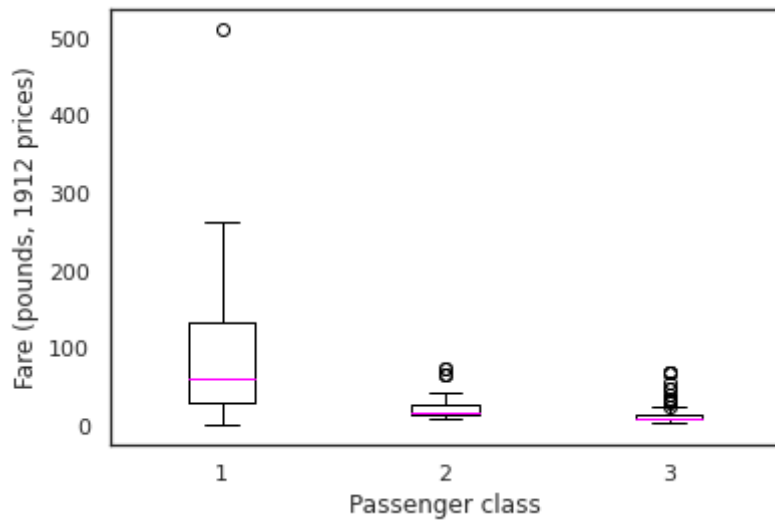
```
pclass_fare_titanic = titanic[['Pclass', 'Fare']].pivot(columns = 'Pclass', values = 'Fare')
```

```
box_color = dict(boxes = 'black',
                  whiskers = 'black',
                  medians = 'magenta',
                  caps = 'black')
```

```
titanic_pclass_boxplot = pclass_fare_titanic.plot.box(color = box_color)
plt.xlabel('Passenger class')
plt.ylabel('Fare (pounds, 1912 prices)')
```

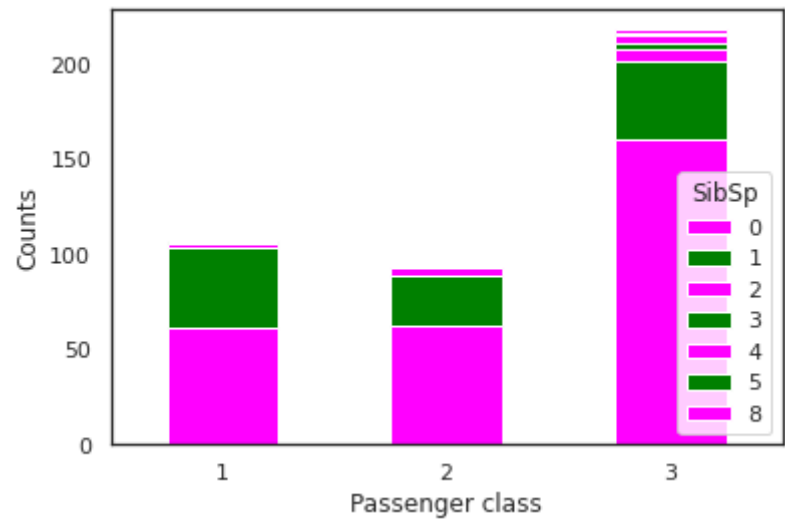
```
plt.show(titanic_pclass_boxplot)
```

```
/usr/local/lib/python3.7/dist-packages/matplotlib/cbook/__init__.py:1376: VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences (which is a common outcome of np.array(...) or np.zeros(...) when ragged nested sequences (lists, tuples) are used as input) is deprecated. If you have data that should be represented by a 2D array, consider using np.asanyarray().
X = np.atleast_1d(X.T if isinstance(X, np.ndarray) else np.asarray(X))
```



```
# bar plot
contingency_titanic = titanic.groupby(['Pclass', 'SibSp']).size().unstack()
titanic_barplot = contingency_titanic.plot.bar(stacked=True,
                                              color = ["magenta", "green"])

plt.ylabel("Counts")
plt.xlabel('Passenger class')
plt.xticks(rotation=0)
plt.show(titanic_barplot)
```



[Colab paid products](#) - [Cancel contracts here](#)

✓ 0s completed at 1:14 PM

