```
import seaborn as sns
```

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

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

```
import pandas as pd
```

```
data=pd.read_csv("titanic.csv")
data.head(7)
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282
3	4	1	1	Futrelle, Mrs. Jacques Heath	female	35.0	1	0	113803

```
data["Pclass"].value_counts()
```

```
3    491
1    216
2    184
Name: Pclass, dtype: int64
```

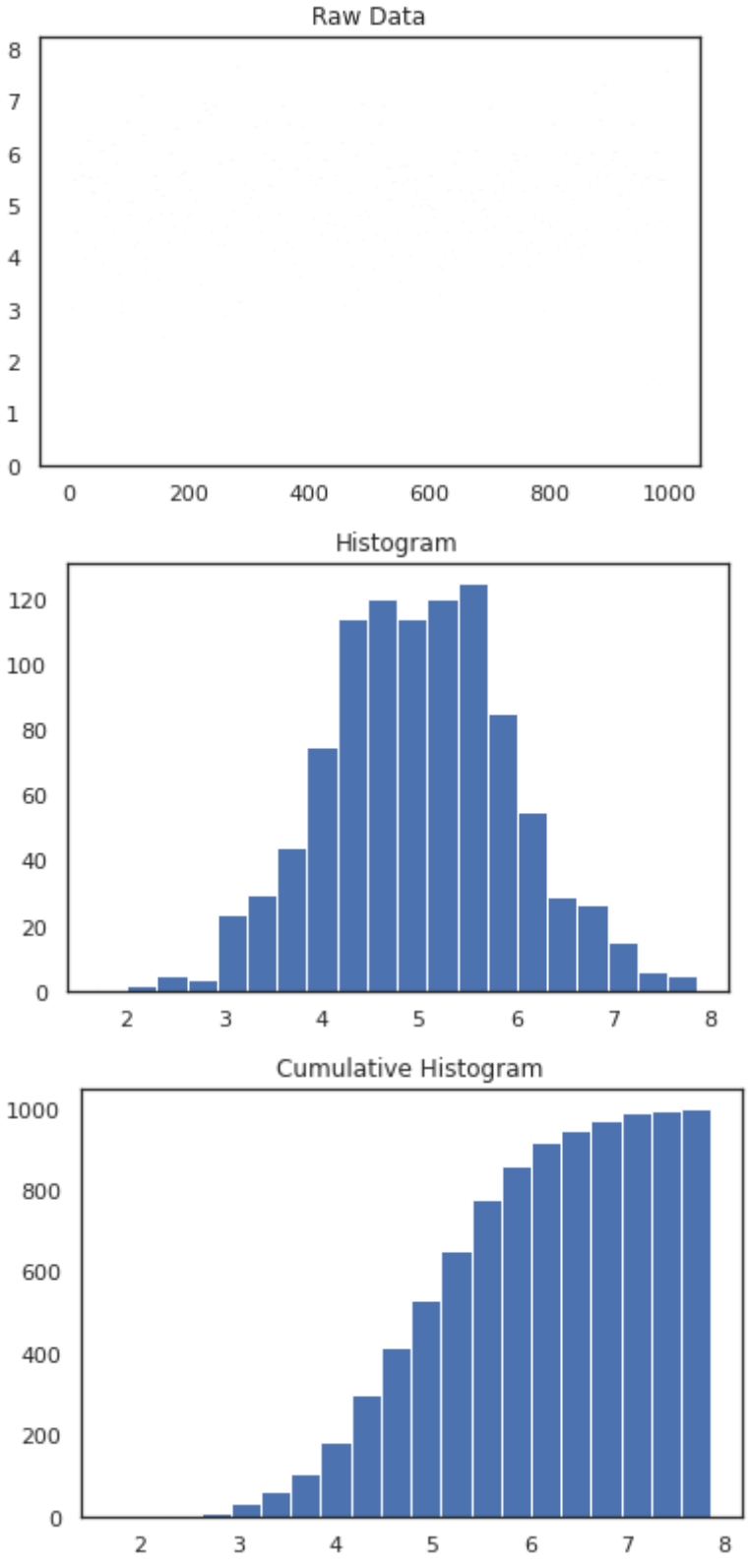
```
import matplotlib.pyplot as plt
import numpy as np

# Use numpy to generate a bunch of random data in a bell curve around 5.
n = 5 + np.random.randn(1000)

m = [m for m in range(len(n))]
plt.bar(m, n)
plt.title("Raw Data")
plt.show()
```

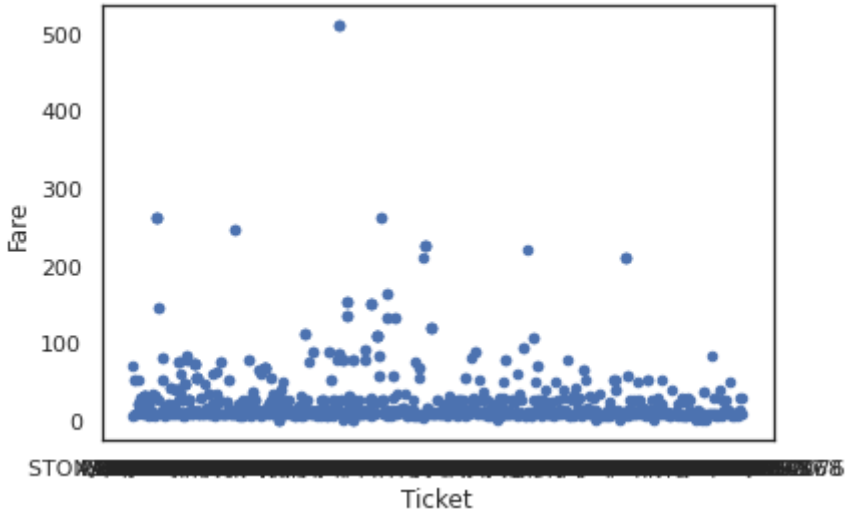
```
plt.hist(n, bins=20)
plt.title("Histogram")
plt.show()

plt.hist(n, cumulative=True, bins=20)
plt.title("Cumulative Histogram")
plt.show()
```



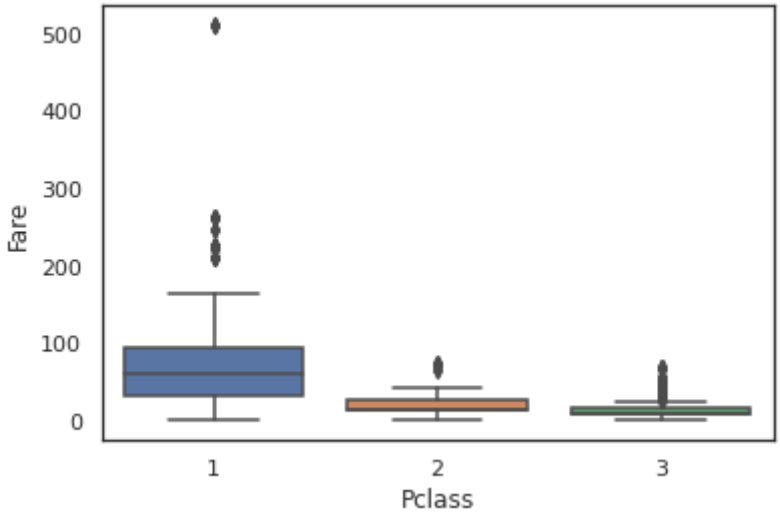

```
data.plot(kind="scatter",x="Ticket",y="Fare")
```

```
WARNING:matplotlib.axes._axes:*c* argument looks like a single numeric RGB or RGBA
<matplotlib.axes._subplots.AxesSubplot at 0x7ffa3a7996d0>
```

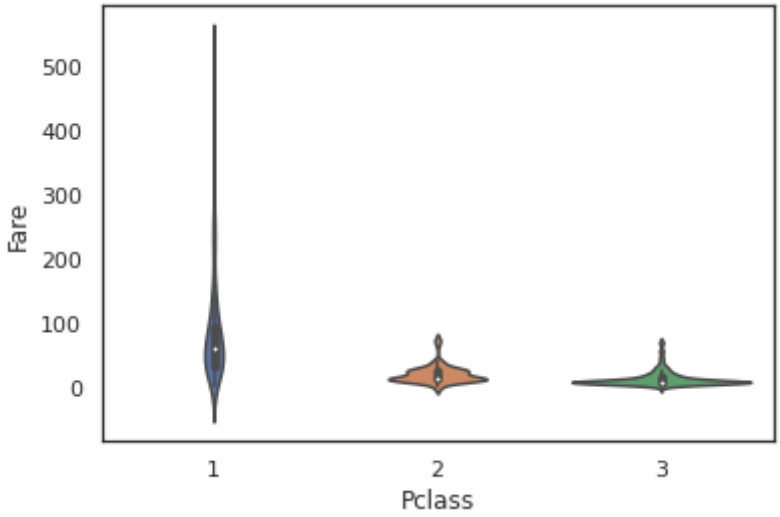



```
sns.boxplot(x="Pclass",y="Fare",data=data)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7ffa34b10390>
```

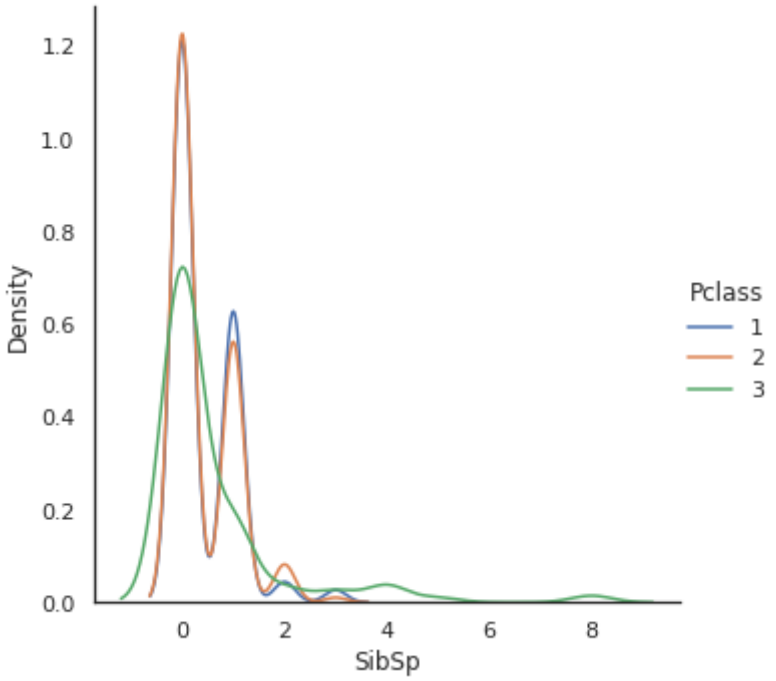



```
sns.violinplot(x="Pclass",y="Fare",data=data,size=6)
plt.show()
```



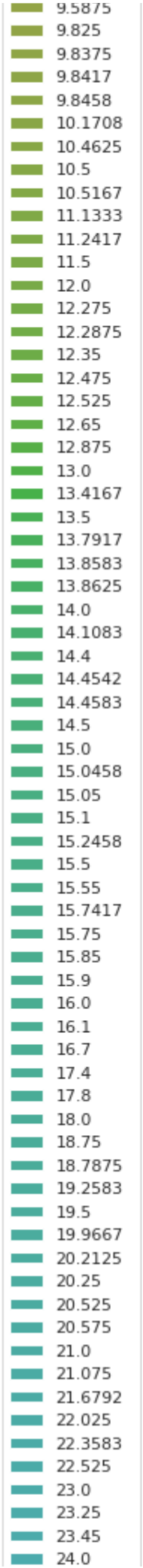
```
sns.FacetGrid(data,hue="Pclass",size=5).map(sns.kdeplot,"SibSp").add_legend()
plt.show()
```

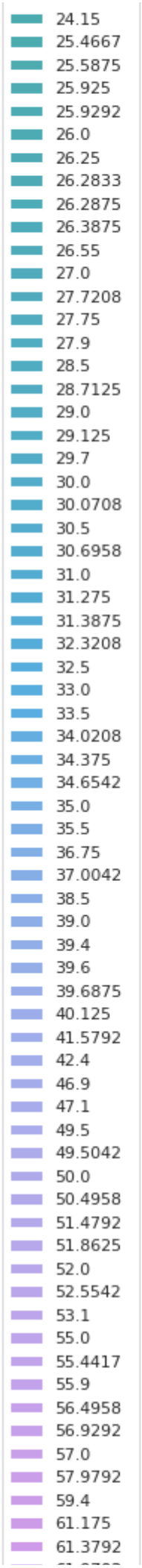
```
/usr/local/lib/python3.7/dist-packages/seaborn/axisgrid.py:337: UserWarning: The `
  warnings.warn(msg, UserWarning)
```

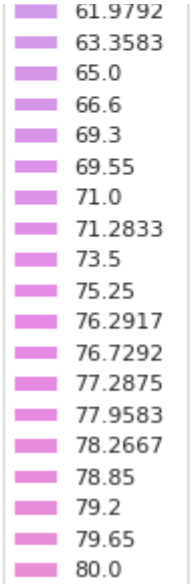



```
sns.barplot(x="Pclass",y="PassengerId",data=data,hue="Fare")
plt.show()
```

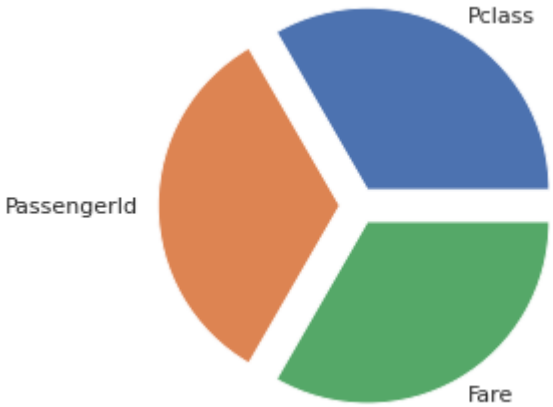
Fare
0.0
4.0125
5.0
6.2375
6.4375
6.45
6.4958
6.75
6.8583
6.95
6.975
7.0458
7.05
7.0542
7.125
7.1417
7.225
7.2292
7.25
7.3125
7.4958
7.5208
7.55
7.6292
7.65
7.725
7.7292
7.7333
7.7375
7.7417
7.75
7.775
7.7875
7.7958
7.8
7.8292
7.8542
7.875
7.8792
7.8875
7.8958
7.925
8.0292
8.05
8.1125
8.1375
8.1583
8.3
8.3625
8.4042
8.4333
8.4583
8.5167
8.6542
8.6625
8.6833
8.7125
8.85
9.0
9.2167
9.225
9.35
9.475
9.4833
9.5


9.5875
9.825
9.8375
9.8417
9.8458
10.1708
10.4625
10.5
10.5167
11.1333
11.2417
11.5
12.0
12.275
12.2875
12.35
12.475
12.525
12.65
12.875
13.0
13.4167
13.5
13.7917
13.8583
13.8625
14.0
14.1083
14.4
14.4542
14.4583
14.5
15.0
15.0458
15.05
15.1
15.2458
15.5
15.55
15.7417
15.75
15.85
15.9
16.0
16.1
16.7
17.4
17.8
18.0
18.75
18.7875
19.2583
19.5
19.9667
20.2125
20.25
20.525
20.575
21.0
21.075
21.6792
22.025
22.3583
22.525
23.0
23.25
23.45
24.0


24.15
25.4667
25.5875
25.925
25.9292
26.0
26.25
26.2833
26.2875
26.3875
26.55
27.0
27.7208
27.75
27.9
28.5
28.7125
29.0
29.125
29.7
30.0
30.0708
30.5
30.6958
31.0
31.275
31.3875
32.3208
32.5
33.0
33.5
34.0208
34.375
34.6542
35.0
35.5
36.75
37.0042
38.5
39.0
39.4
39.6
39.6875
40.125
41.5792
42.4
46.9
47.1
49.5
49.5042
50.0
50.4958
51.4792
51.8625
52.0
52.5542
53.1
55.0
55.4417
55.9
56.4958
56.9292
57.0
57.9792
59.4
61.175
61.3792

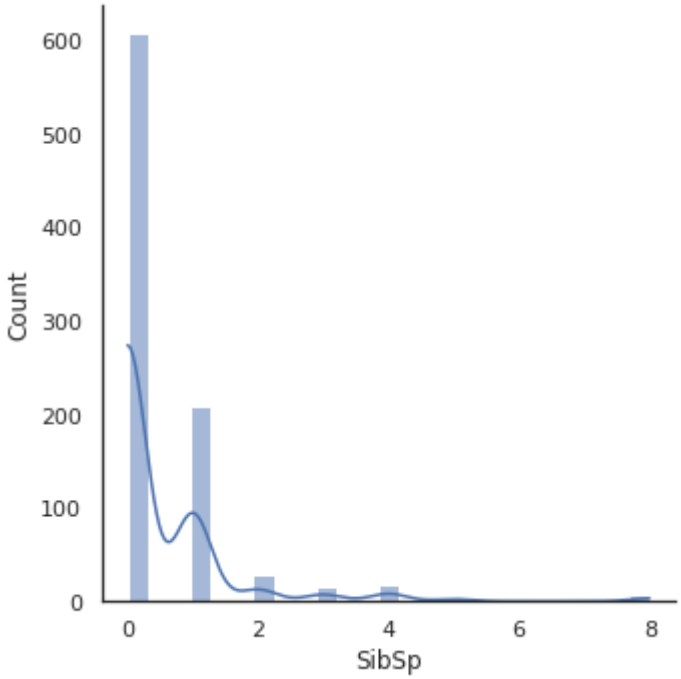



```
labels = ["Pclass","PassengerId","Fare"]
sizes = [50,50,50]
plt.pie(sizes,labels=labels,explode=(0.1,0.1,0.1))
plt.axis("equal")
plt.show()
```




```
sns.displot(data["SibSp"],bins=25,kde=True)
```

```
<seaborn.axisgrid.FacetGrid at 0x7ffa3218c310>
```



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