```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

# Settings for plots
sns.set_style('whitegrid')
plt.rcParams['figure.figsize'] = (8,5)

# Load dataset
df = pd.read_csv("tested.csv") # change filename if different
df.head()
```

→		PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Far
	0	892	0	3	Kelly, Mr. James	male	34.5	0	0	330911	7.829
	1	893	1	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.000
	2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.687
	3	895	0	3	Wirz, Mr. Albert	male	27.0	0	0	315154	8.662
	4	896	1	3	Hirvonen, Mrs. Alexander	female	22.0	1	1	3101298	12.287

Next steps:

Generate code with df

View recommended plots

New interactive sheet

df.shape
df.info()
df.describe()



<pr RangeIndex: 418 entries, 0 to 417

Data columns (total 12 columns):

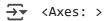
#	Column	Non-Null Count	Dtype					
0	PassengerId	418 non-null	int64					
1	Survived	418 non-null	int64					
2	Pclass	418 non-null	int64					
3	Name	418 non-null	object					
4	Sex	418 non-null	object					
5	Age	332 non-null	float64					
6	SibSp	418 non-null	int64					
7	Parch	418 non-null	int64					
8	Ticket	418 non-null	object					
9	Fare	417 non-null	float64					
10	Cabin	91 non-null	object					
11	Embarked	418 non-null	object					
dtvp	dtypes: float64(2), int64(5), object(5)							

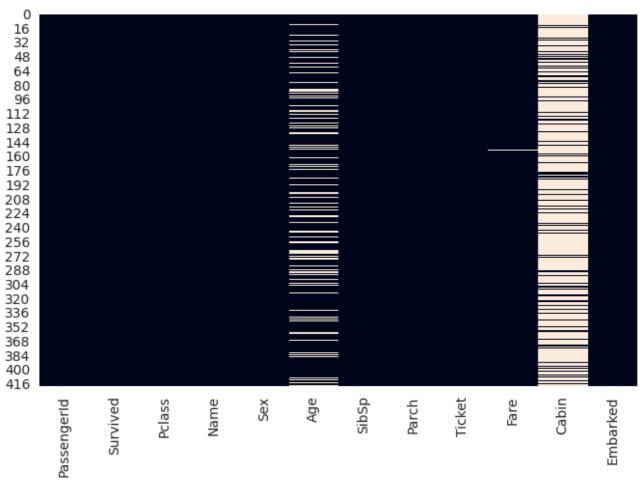
dtypes: float64(2), int64(5), object(5)

memory usage: 39.3+ KB

	PassengerId	Survived	Pclass	Age	SibSp	Parch	Fi
count	418.000000	418.000000	418.000000	332.000000	418.000000	418.000000	417.0000
mean	1100.500000	0.363636	2.265550	30.272590	0.447368	0.392344	35.627 ⁻
std	120.810458	0.481622	0.841838	14.181209	0.896760	0.981429	55.907
min	892.000000	0.000000	1.000000	0.170000	0.000000	0.000000	0.0000
25%	996.250000	0.000000	1.000000	21.000000	0.000000	0.000000	7.8958
50%	1100.500000	0.000000	3.000000	27.000000	0.000000	0.000000	14.4542
75%	1204.750000	1.000000	3.000000	39.000000	1.000000	0.000000	31.5000
max	1309.000000	1.000000	3.000000	76.000000	8.000000	9.000000	512.3292

#missing values df.isnull().sum() sns.heatmap(df.isnull(), cbar=False)

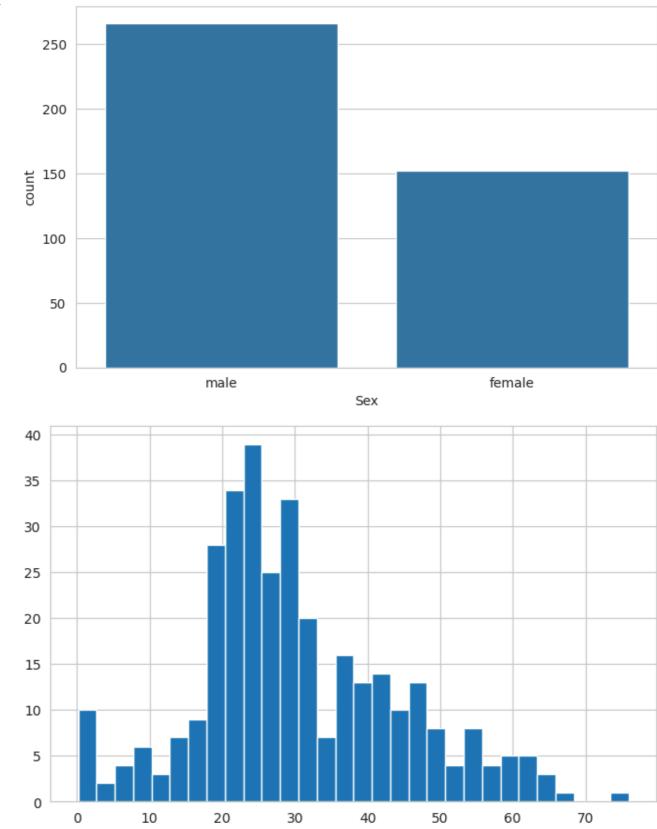




```
#univariate analysis
sns.countplot(x='Sex', data=df)
plt.show()

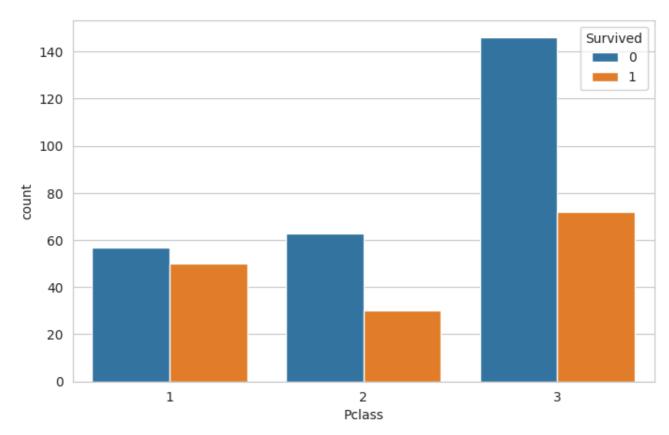
df['Age'].hist(bins=30)
plt.show()
```





```
#bivariate analysis
sns.countplot(x='Pclass', hue='Survived', data=df)
plt.show()
```





#correlation
corr = df.corr(numeric_only=True)
sns.heatmap(corr, annot=True, cmap='coolwarm')
plt.show()

→ ▼										
_	PassengerId	1	-0.023	-0.027	-0.034	0.0038	0.043	0.0082		- 0.8
	Survived	-0.023	1	-0.11	-1.3e-05	0.1	0.16	0.19		0.6