

titanic

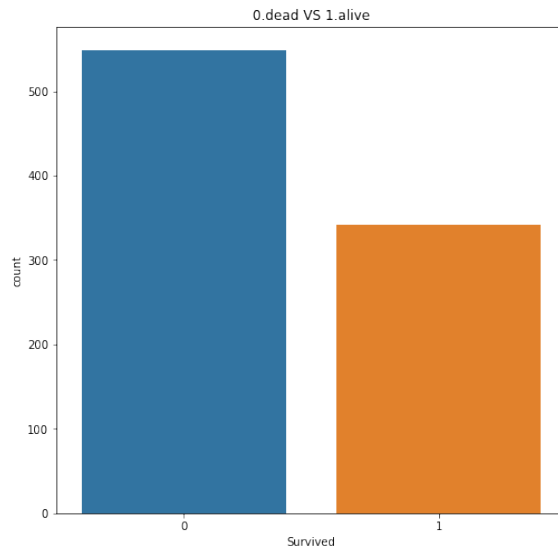
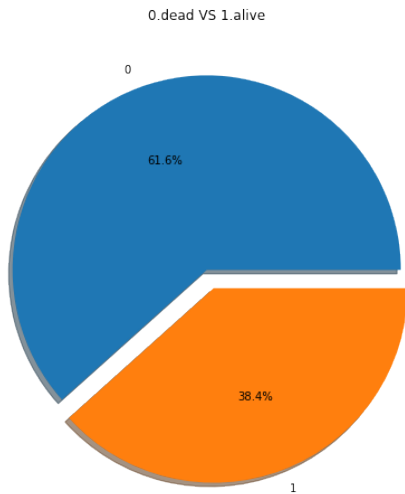
July 30, 2021

```
[1]: import pandas as pd
      from matplotlib import pyplot as plt
      import seaborn as sns
```

```
[3]: this = pd.read_csv("data/train.csv")
```

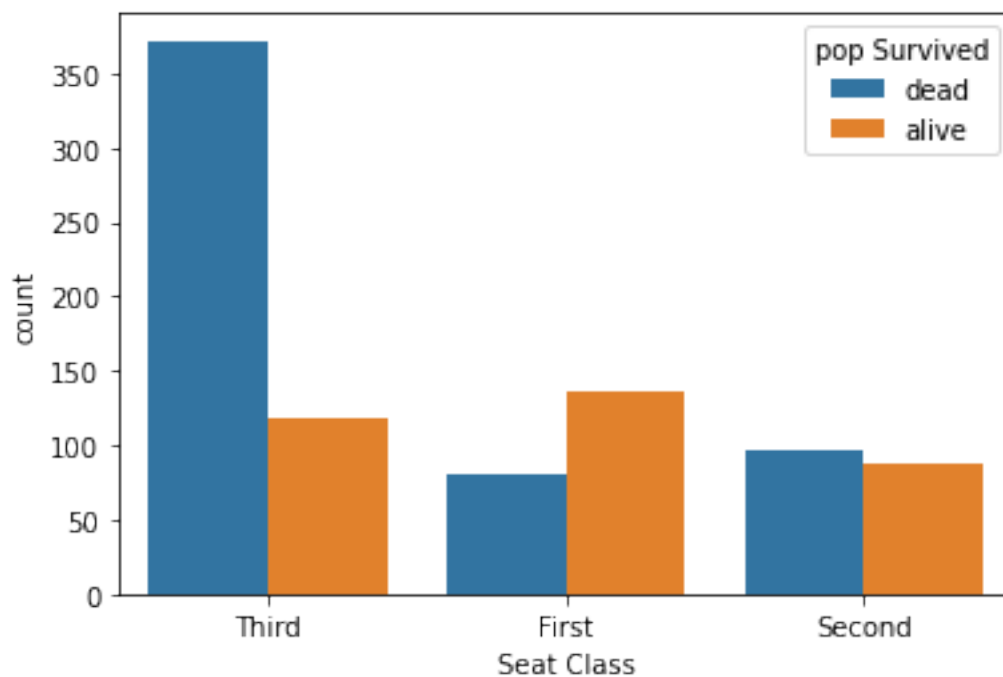
```
[6]: f, ax = plt.subplots(1, 2, figsize=(18, 8)) # f=line, ax=col
      series = this['Survived'].value_counts() # ret data will print in col type =
      ↪df->series
      """print(type(series))
      print(series)"""
      series.plot.pie(explode=[0, 0.1], autopct='%1.1f%%', ax=ax[0], shadow=True)
      ax[0].set_title('0.dead VS 1.alive')
      ax[0].set_ylabel('')
      ax[1].set_title('0.dead VS 1.alive')
      sns.countplot('Survived', data=this, ax=ax[1])
      plt.show()
```

/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning:
Pass the following variable as a keyword arg: x. From version 0.12, the only
valid positional argument will be `data`, and passing other arguments without an
explicit keyword will result in an error or misinterpretation.
warnings.warn(



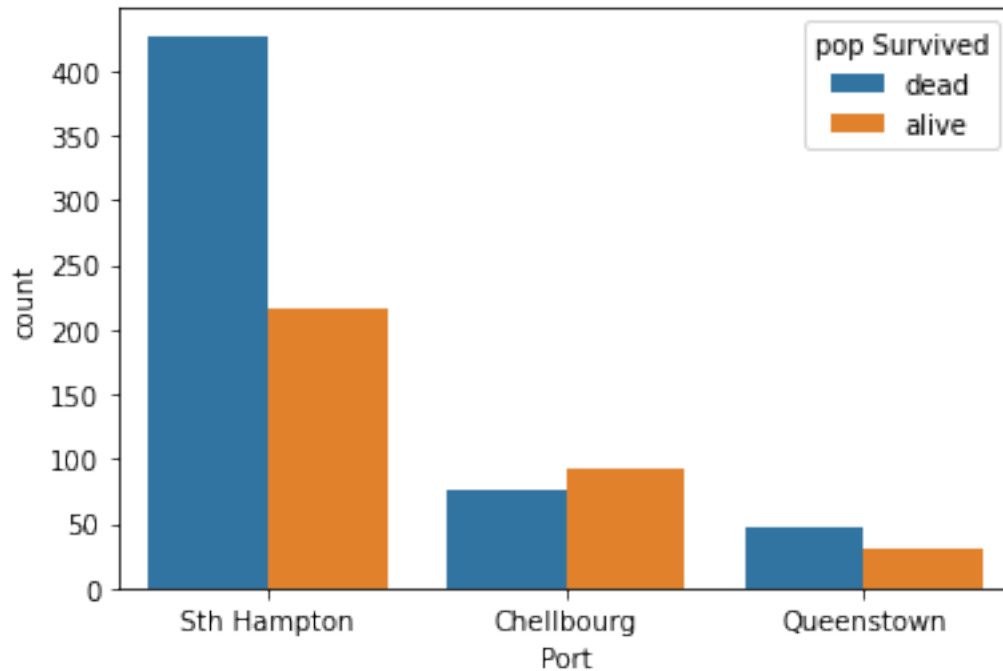
```
[7]: this['pop Survived'] = this['Survived'].replace(0, 'dead').replace(1, 'alive')
this['Seat Class'] = this['Pclass'].replace(1, 'First').replace(2, 'Second').
    ↳replace(3, 'Third')
sns.countplot(data=this, x='Seat Class', hue='pop Survived')
```

```
[7]: <AxesSubplot:xlabel='Seat Class', ylabel='count'>
```



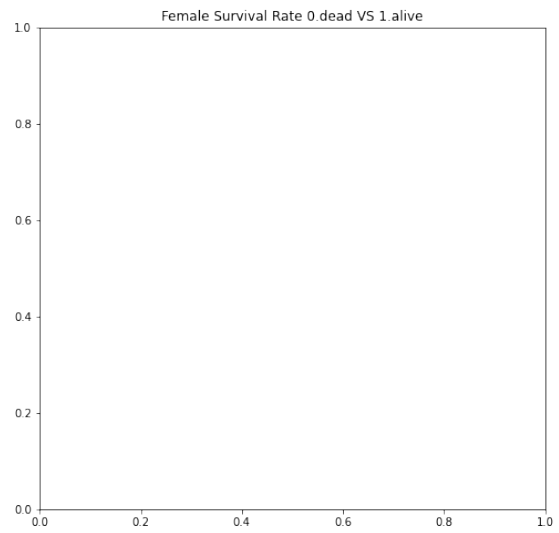
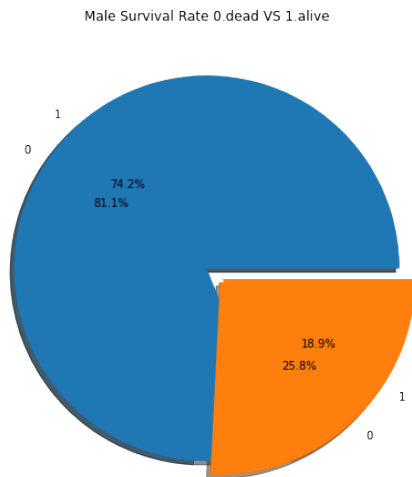
```
[8]: this['pop Survived'] = this['Survived'].replace(0, 'dead').replace(1, 'alive')
this['Port'] = this['Embarked'].replace('C', 'Chellbourg').replace('S', 'Sth_
↳ Hampton').replace('Q', 'Queenstown')
sns.countplot(data=this, x='Port', hue='pop Survived')
```

```
[8]: <AxesSubplot:xlabel='Port', ylabel='count'>
```



```
[9]: f, ax = plt.subplots(1, 2, figsize=(18, 8))
male_series = this['Survived'][this['Sex'] == 'male'].value_counts()
female_series = this['Survived'][this['Sex'] == 'female'].value_counts()
male_series.plot.pie(explode=[0, 0.1], autopct='%1.1f%%', ax=ax[0], shadow=True)
female_series.plot.pie(explode=[0, 0.1], autopct='%1.1f%%', ax=ax[0],
↳ shadow=True)
ax[0].set_title('Male Survival Rate 0.dead VS 1.alive')
ax[0].set_ylabel('')
ax[1].set_title('Female Survival Rate 0.dead VS 1.alive')
```

```
[9]: Text(0.5, 1.0, 'Female Survival Rate 0.dead VS 1.alive')
```



[]: