The Titanic

DATA VISUALISATION WITH SEABORN
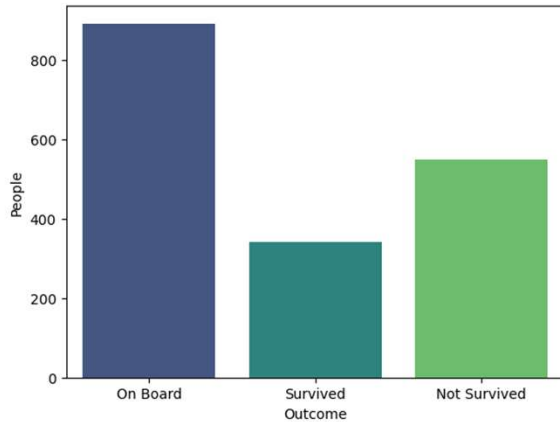
Burhan

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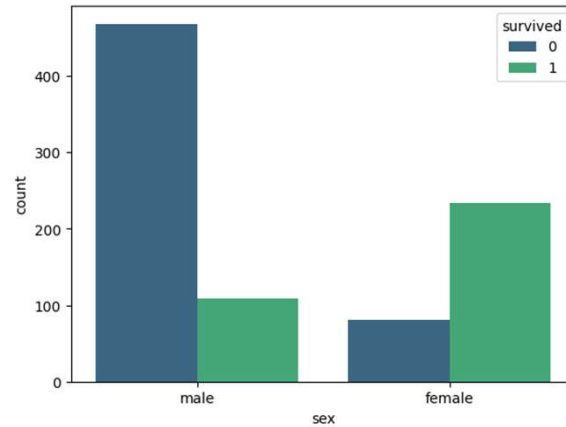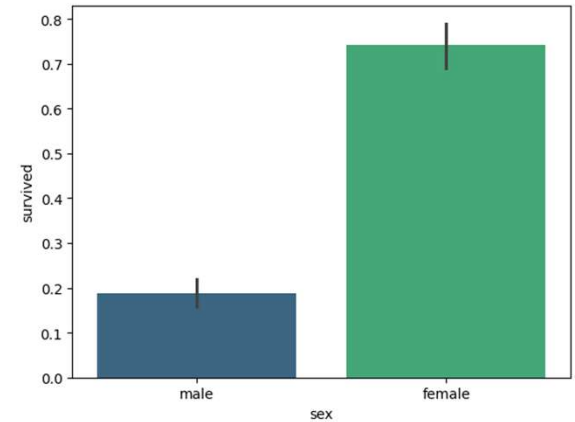Jan 2025

Analysis of survival rate

Shows the survival rate of 890 individuals on the ship as a bar chart.

```
titanic = sns.load_dataset('titanic')
total_on_board = len(titanic)
survived = titanic['survived'].sum()
not_survived = total_on_board - survived
data = {
   'Outcome': ['On Board', 'Survived', 'Not Survived'],
   'People': [total_on_board, survived, not_survived]
}
sns.barplot(
   data=data,
   x='Outcome',
   y='People',
   palette='viridis'
)
```


Shows the survival rate of men compared to women in absolute numbers as a bar chart.
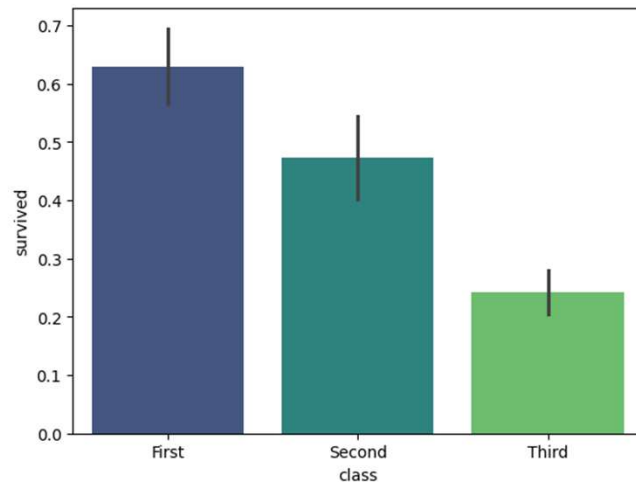
```
titanic = sns.load_dataset('titanic')sns.barplot(
data=titanic,   x='class',   y='survived',
estimator='mean',   palette='viridis')
```


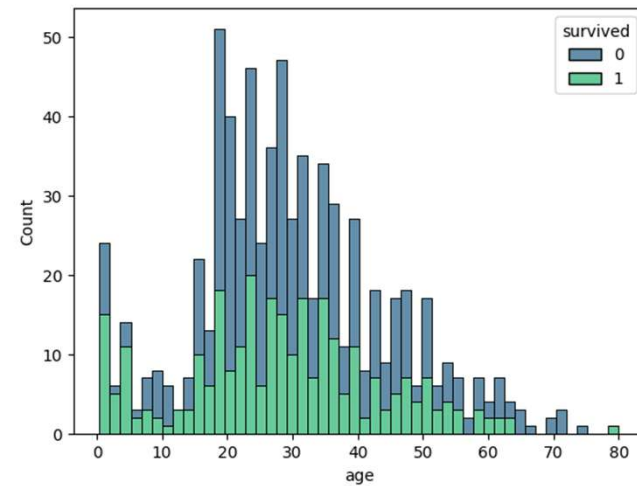**Shows the survival rate of men compared to women as a bar chart.**

```
import seaborn as sns
titanic = sns.load_dataset('titanic')
sns.barplot(
   data=titanic,
   x='sex',
   y='survived',
   estimator='mean',
   palette='viridis'
)
```

Survival due to ticket classification and age

Survival by ticket classification presented as a bar chart.

```
titanic = sns.load_dataset('titanic')
sns.barplot(
    data=titanic,
    x='class',
    y='survived',
    estimator='mean',
    palette='viridis'
)
```
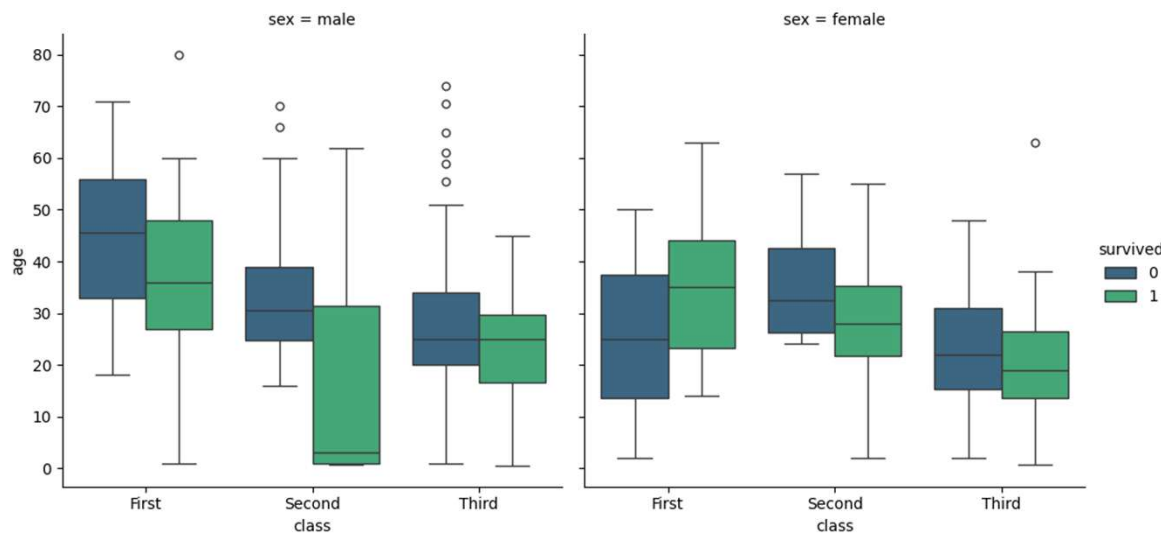

Survival by age as a histogram distribution.

```
titanic = sns.load_dataset('titanic')

sns.histplot(
    data=titanic,
    x='age',
    hue='survived',
    multiple='stack',
    palette='viridis',
    bins=50
)
```

The interplay of sex, class and age on survival

The relationship between sex, class, and age as a box plot.

```
sns.catplot(
    data=titanic,
    x='class',
    y='age',
    hue='survived',
    col='sex',
    kind='box',
    palette='viridis'
)
```

THANK YOU

Any questions

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