

March 30, 2024

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

df = sns.load_dataset('titanic')
df= df[['sex', 'age', 'survived']]
print(df.head())
print("\n\n", df.dtypes)
```

	sex	age	survived
0	male	22.0	0
1	female	38.0	1
2	female	26.0	1
3	female	35.0	1
4	male	35.0	0

```
sex          object
age          float64
survived     int64
dtype: object
```

```
[2]: # Create a new figure and a set of subplots
plt.figure(figsize=(10, 6))

# Create a box plot for 'sex' and 'age' with a custom color palette
sns.boxplot(x='sex', y='age', data=df, palette='coolwarm')

# Set the title of the box plot
plt.title('Box plot of Age by Sex')

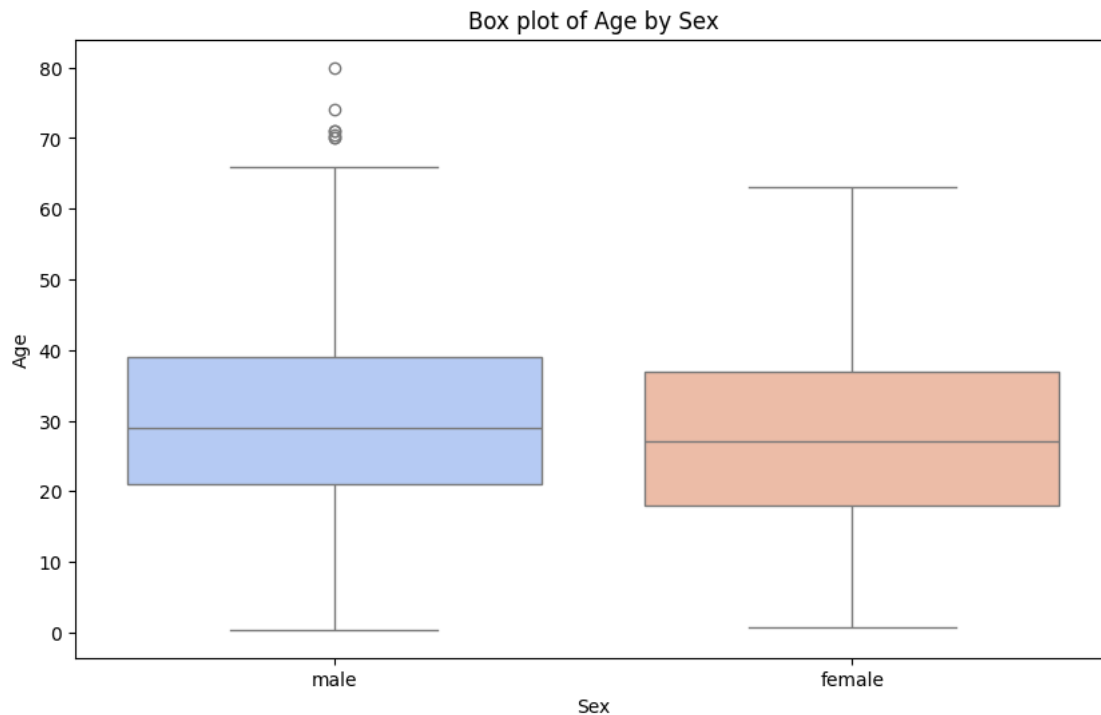
# Set the x and y axis labels
plt.xlabel('Sex')
plt.ylabel('Age')

# Display the box plot
plt.show()
```

<ipython-input-2-73f186ad524b>:5: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

```
sns.boxplot(x='sex', y='age', data=df, palette='coolwarm')
```



```
[3]: # Create a new figure and a set of subplots
plt.figure(figsize=(10, 6))

# Create a box plot for 'sex' and 'age' with 'survived' as hue and a custom
    ↪ color palette
sns.boxplot(x='sex', y='age', hue='survived', data=df, palette='coolwarm')

# Set the title of the box plot
plt.title('Box plot of Age by Sex with Survived as hue')

# Set the x and y axis labels
plt.xlabel('Sex')
plt.ylabel('Age')

# Display the box plot
plt.show()
```



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