-Bar Plot

- Barplot is catagorical graph

In [1]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")
phool

# Draw a line plot
# sns.barplot(x="",y="petal_length",data=phool)
```

Out[1]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

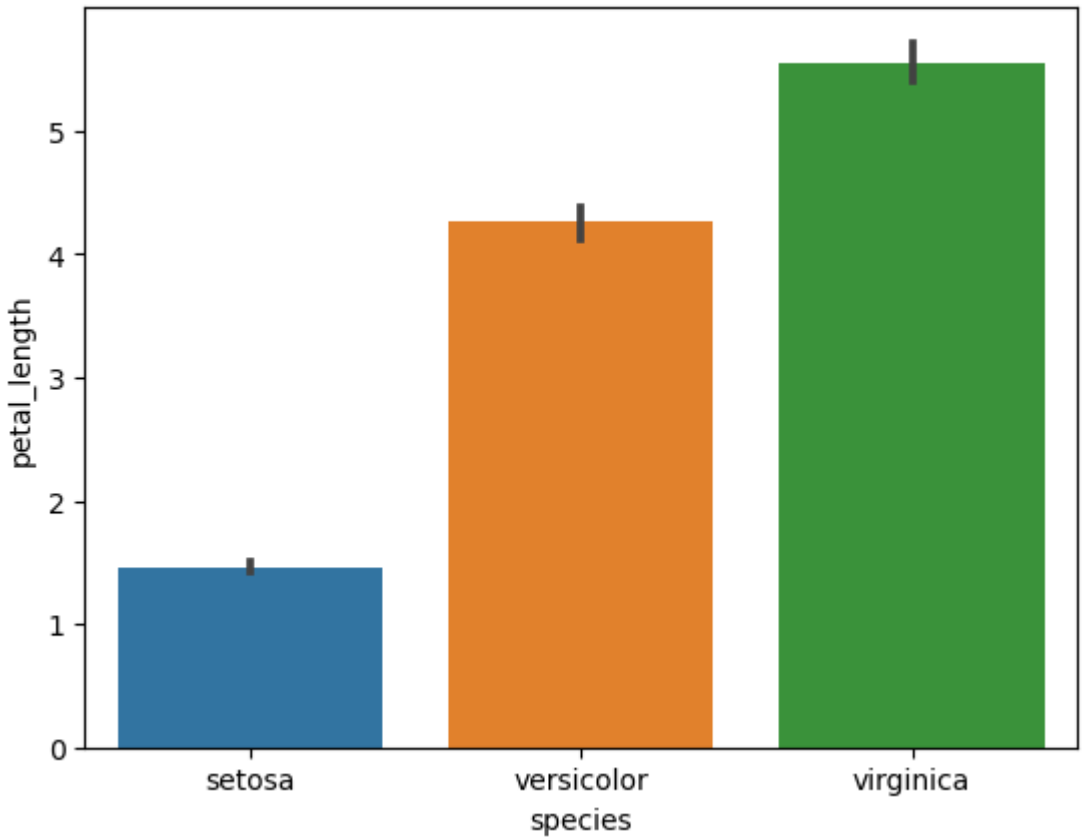
150 rows × 5 columns

In [2]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")
phool

# Draw a line plot
sns.barplot(x="species",y="petal_length",data=phool)
```

Out[2]:
```
<Axes: xlabel='species', ylabel='petal_length'>
```

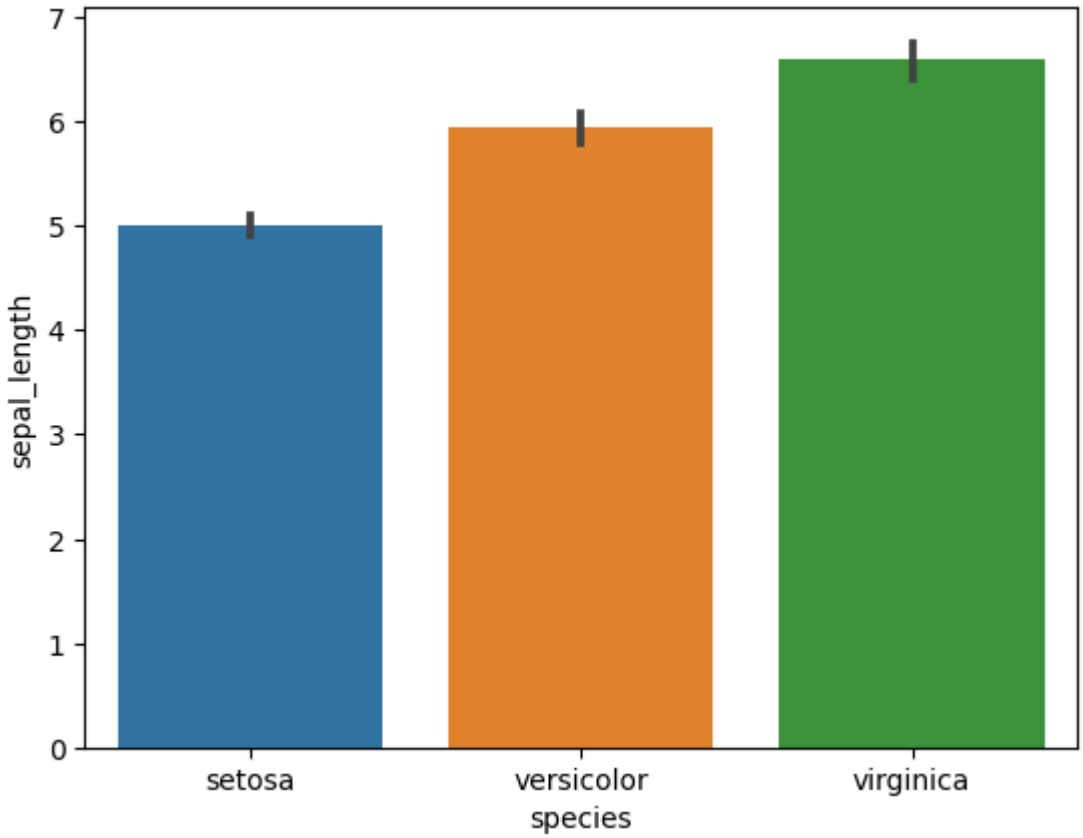


In [4]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
phool = sns.load_dataset("iris")
phool

# Draw a line plot
sns.barplot(x="species",y="sepal_length",data=phool)
```

Out[4]:
```
<Axes: xlabel='species', ylabel='sepal_length'>
```



In [5]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
# sns.barplot(x="species",y="petal_length",data=phool)
```

Out[5]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	d
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	N
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	N
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	N
...	...	...	...	...	...	...	...	...	...	...	...	
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True	N
887	1	1	female	19.0	0	0	30.0000	S	First	woman	False	
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	False	N
889	1	1	male	26.0	0	0	30.0000	C	First	man	True	
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True	N

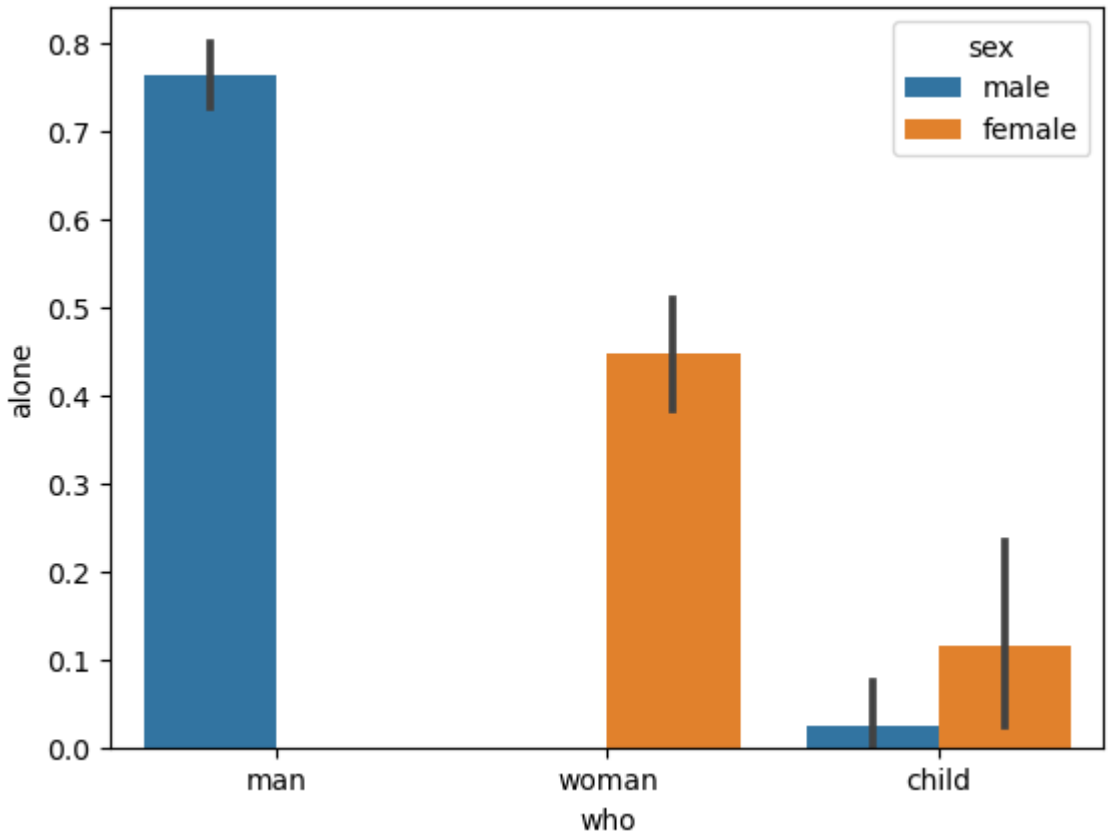
891 rows × 15 columns

In [9]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="who",y="alone", hue = "sex",data=survived)
```

Out[9]:
```
<Axes: xlabel='who', ylabel='alone'>
```

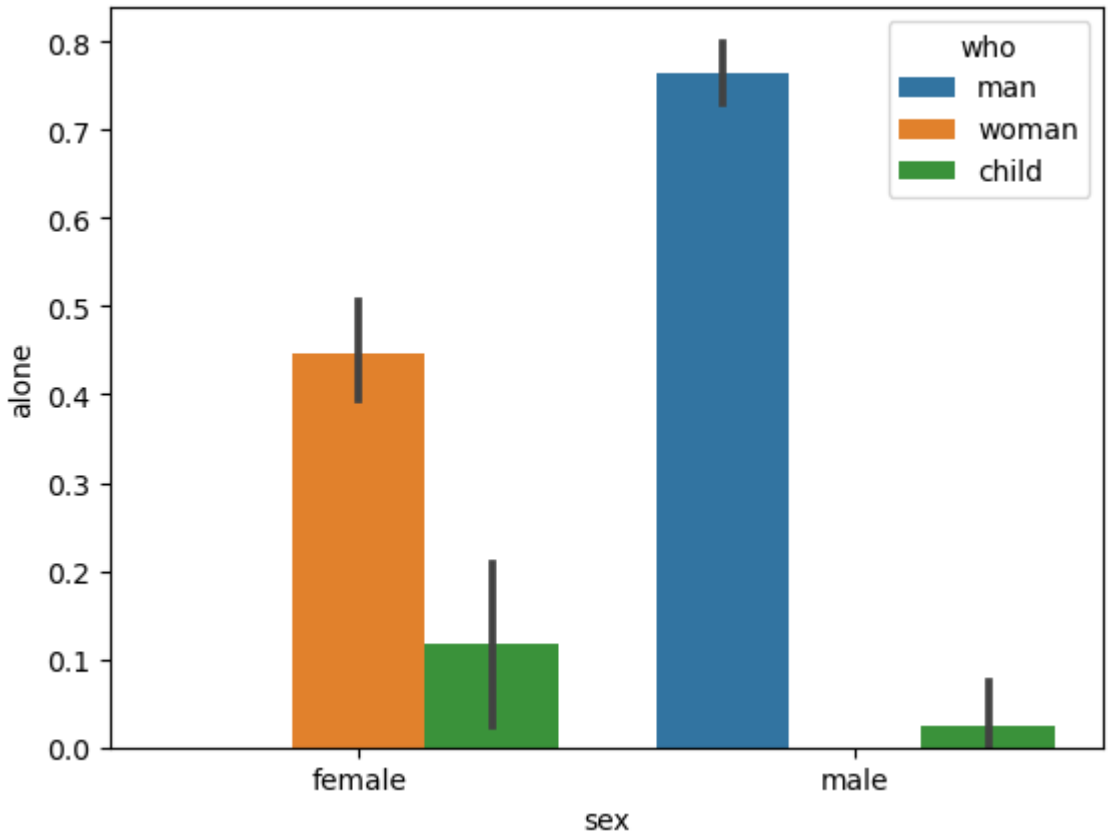


In [13]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="sex",y="alone", hue = "who",data=survived , order= ["female","male"])
```

Out[13]:
```
<Axes: xlabel='sex', ylabel='alone'>
```

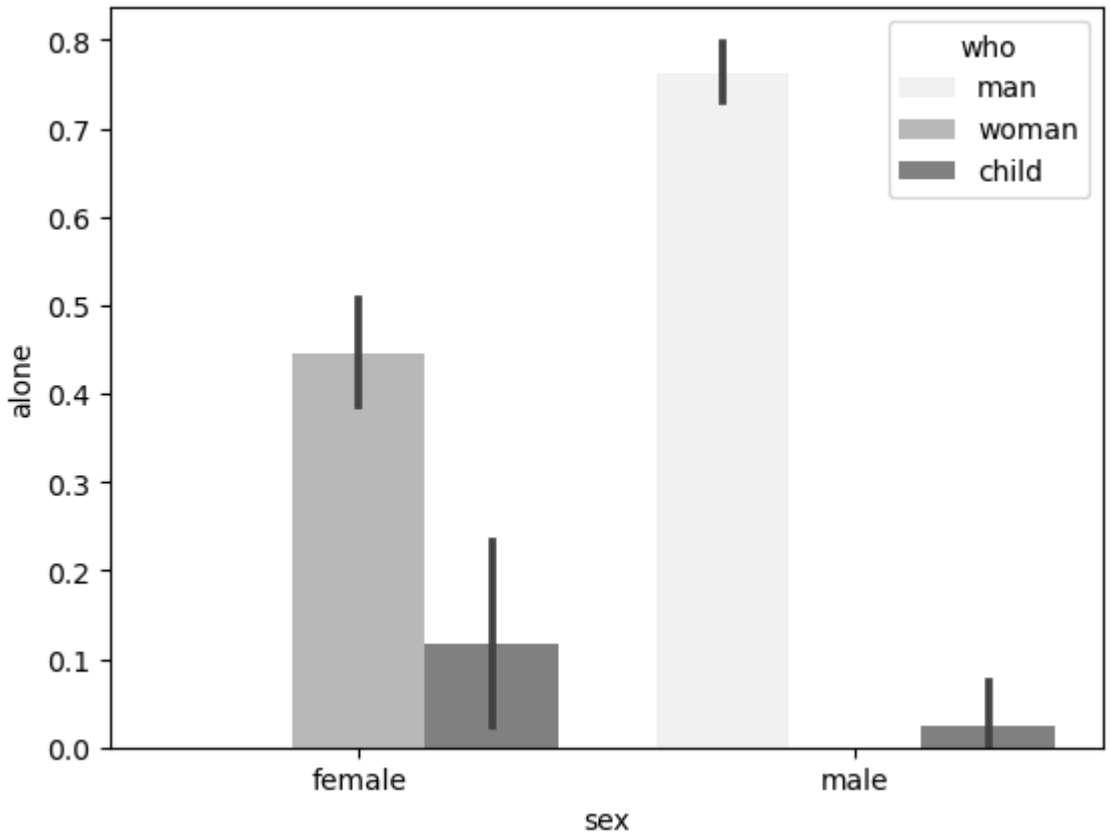


In [14]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="sex",y="alone", hue = "who",data=survived , order= ["female","male"], c
```

Out[14]:
```
<Axes: xlabel='sex', ylabel='alone'>
```

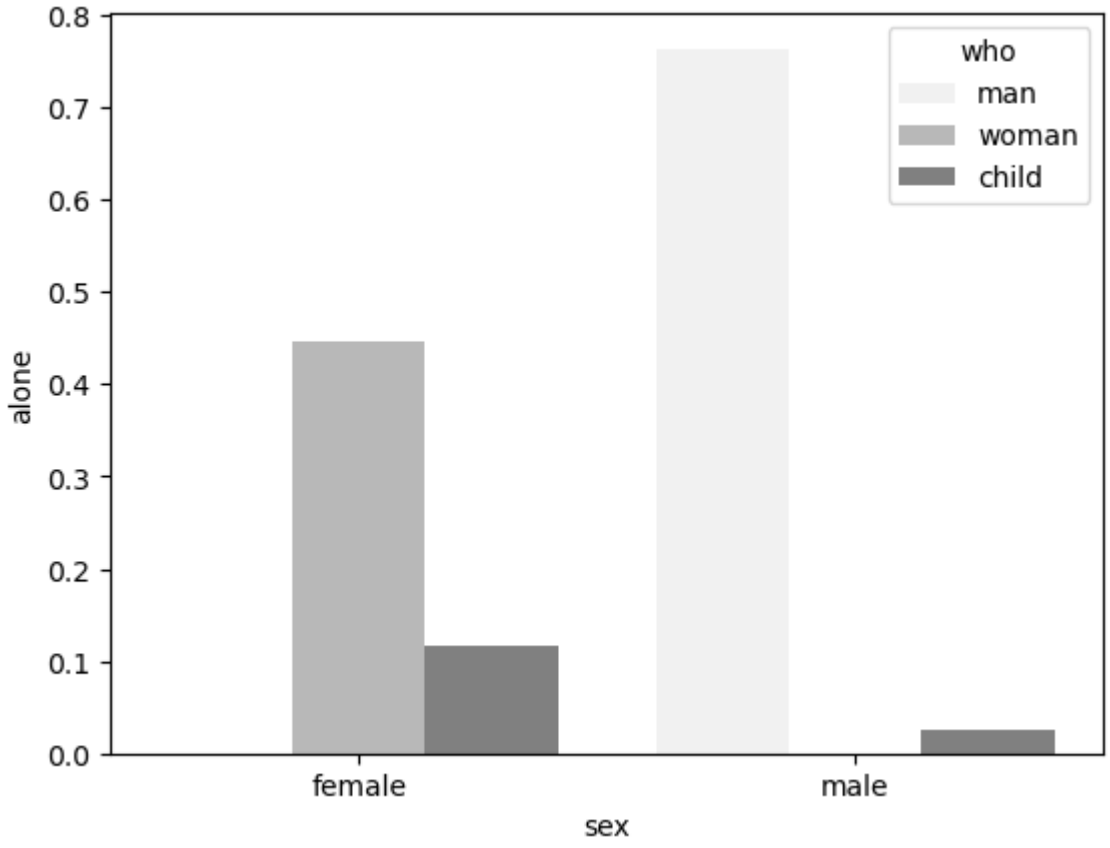


In [19]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="sex",y="alone", hue = "who",data=survived , order= ["female","male"], c
```

Out[19]:
```
<Axes: xlabel='sex', ylabel='alone'>
```

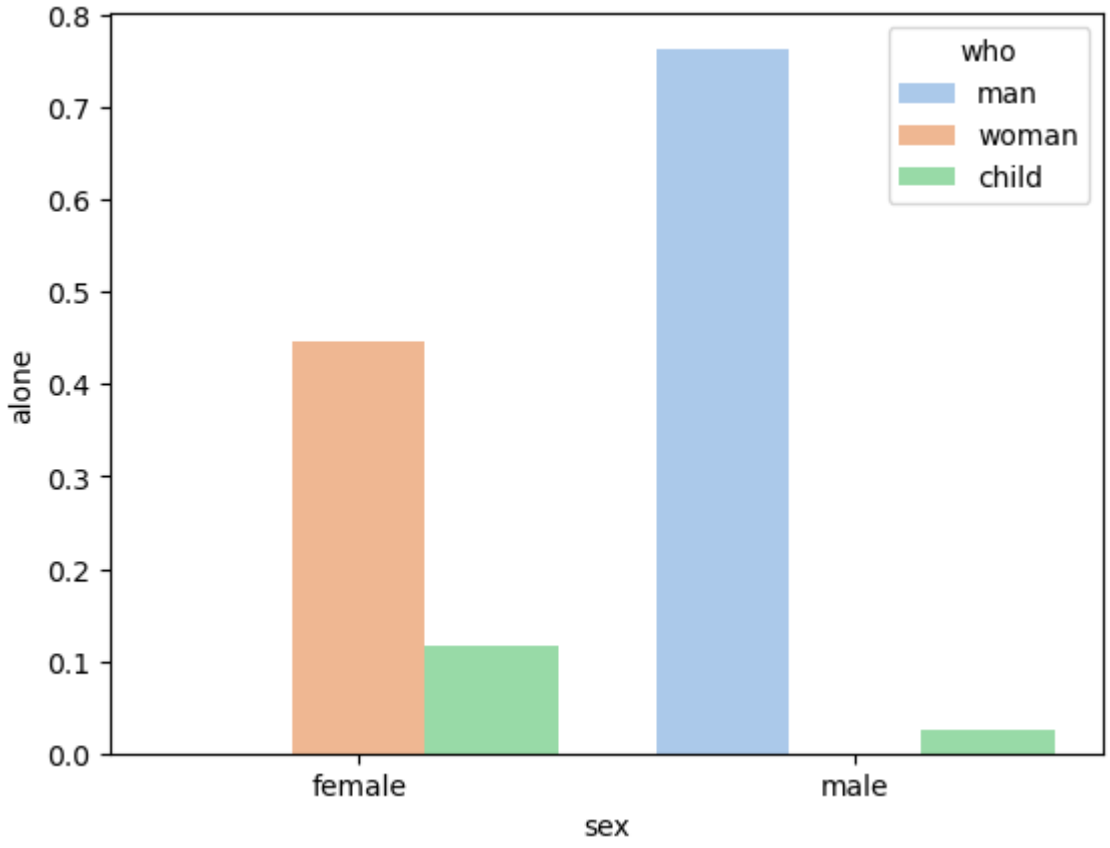


In [22]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="sex",y="alone", hue = "who",data=survived , order= ["female","male"], c
```

Out[22]:
```
<Axes: xlabel='sex', ylabel='alone'>
```

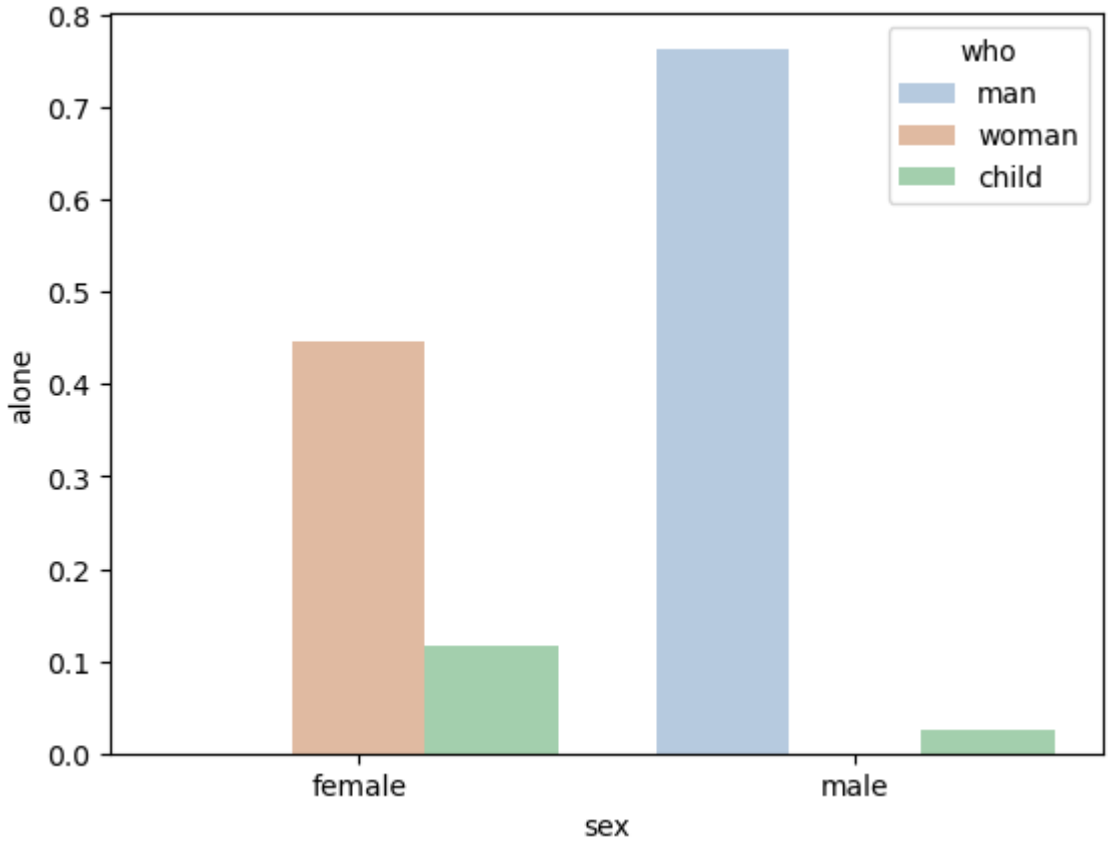


In [23]:
```
# import libraries
import seaborn as sns
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="sex",y="alone", hue = "who",data=survived , order= ["female","male"], c
```

Out[23]:
```
<Axes: xlabel='sex', ylabel='alone'>
```

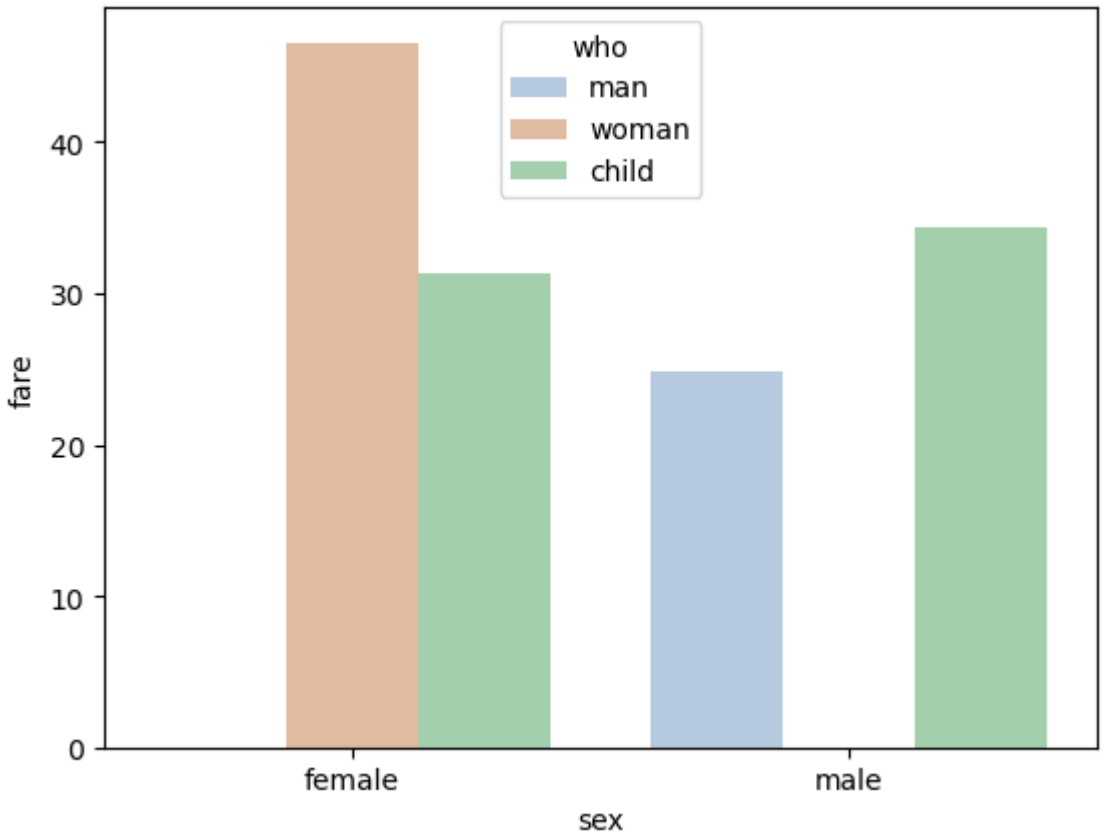


In [28]:
```
# import libraries
import seaborn as sns
from numpy import mean
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="sex",y="fare", hue = "who",data=survived , order= ["female","male"], co
            errorbar=None, palette='pastel',saturation=0.5, estimator=mean)
```

Out[28]:
```
<Axes: xlabel='sex', ylabel='fare'>
```

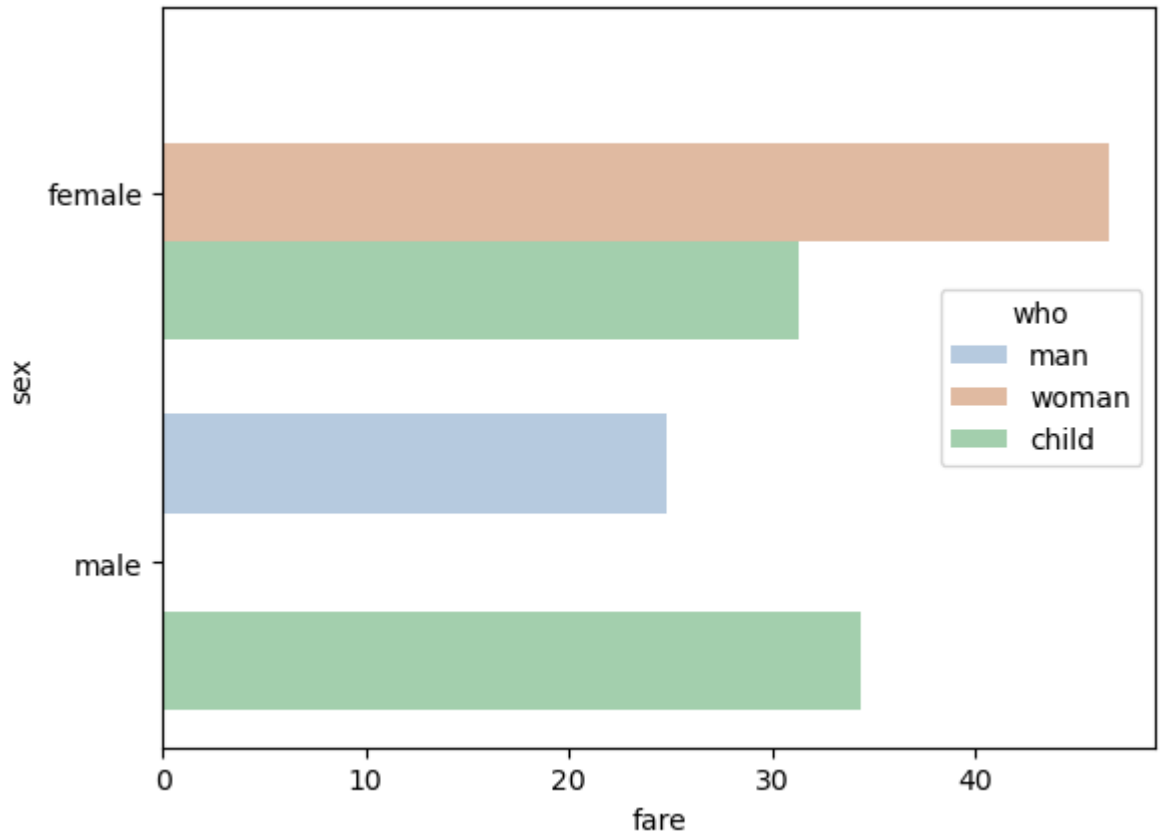


In [29]:
```
# Horizental graph/plot
# import libraries
import seaborn as sns
from numpy import mean
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")
survived

# Draw a line plot
sns.barplot(x="fare",y="sex", hue = "who",data=survived , order= ["female","male"], co
            errorbar=None, palette='pastel',saturation=0.5, estimator=mean)
```

Out[29]:
```
<Axes: xlabel='fare', ylabel='sex'>
```

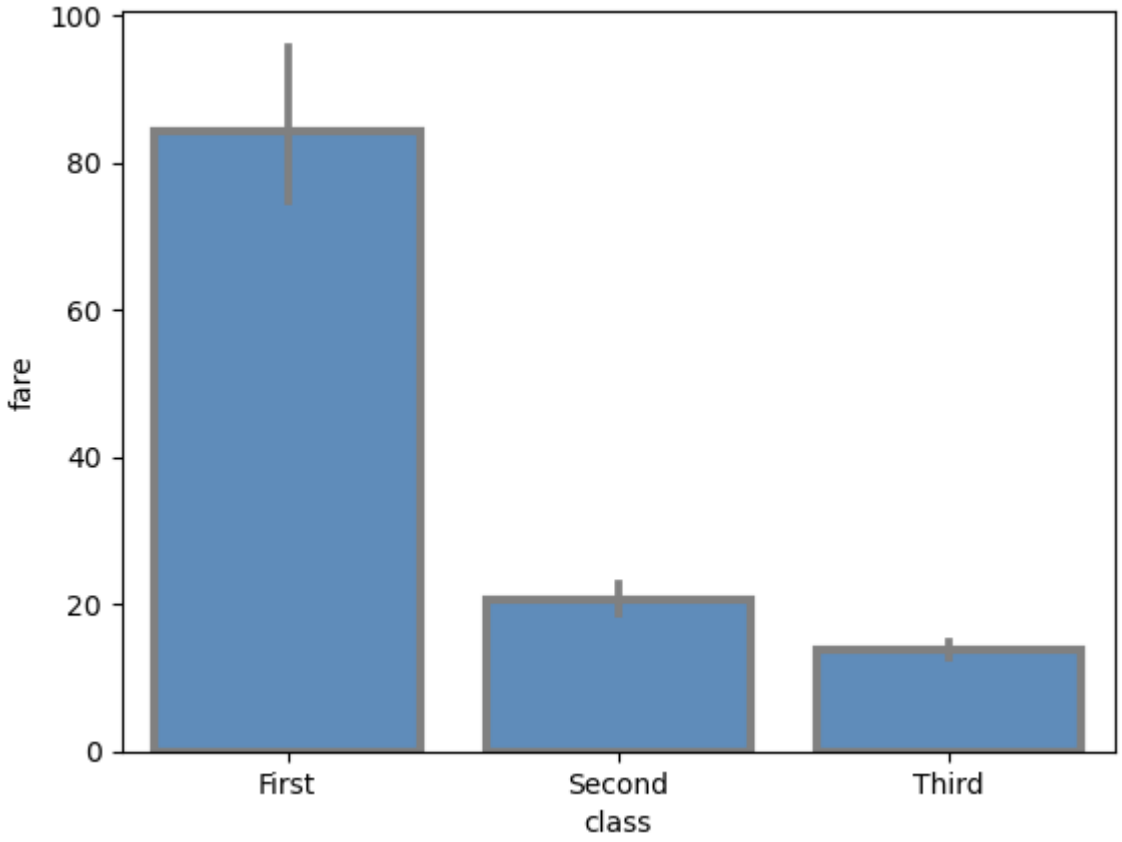


In [38]:
```
# Horizental graph/plot
# import libraries
import seaborn as sns
from numpy import mean
import matplotlib.pyplot as plt

# load data set
survived = sns.load_dataset("titanic")

sns.barplot(x="class",y="fare", data=survived,
            linewidth=3,facecolor=(0.3,0.5,0.7,0.9),
            errcolor="0.5",edgecolor="0.5")
```

Out[38]:
```
<Axes: xlabel='class', ylabel='fare'>
```


100
80
60
40
20
0
fare
First
Second
Third
class