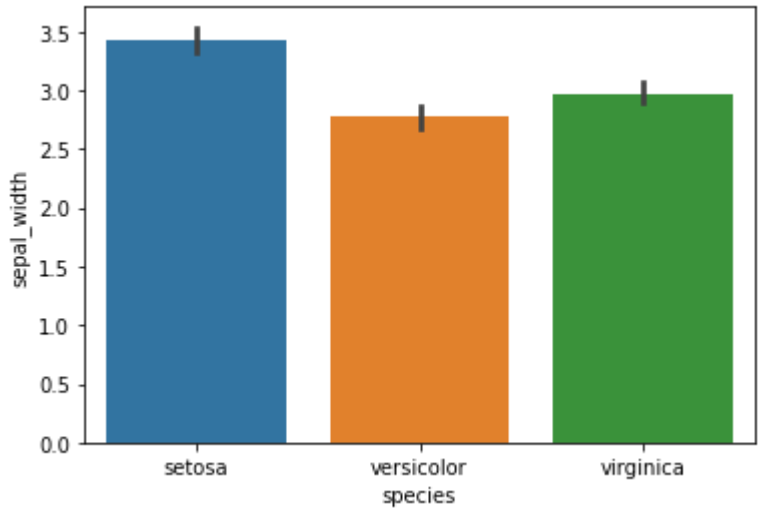
In [1]:
```
#import libraries
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
phool= sns.load_dataset("iris")
phool
#NOW I WILL DRAW BARPLOT OF THIS DATA
sns.barplot(x="species", y="sepal_width", data= phool) #THERE ARE 3 SPECIES
plt.show()
```



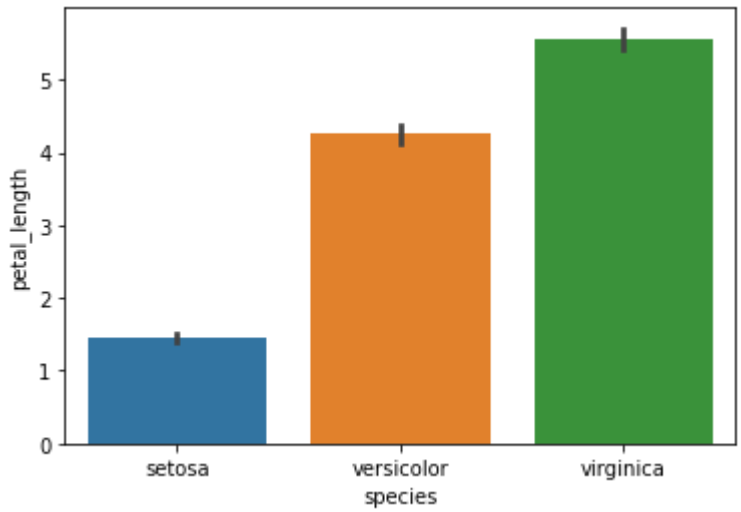
In [2]:
```
phool
```

Out[2]:

	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 [3]:
```
#import libraries
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
phool= sns.load_dataset("iris")
phool
#NOW I WILL DRAW LINEPLOT OF THIS DATA
sns.barplot(x="species", y="petal_length", data= phool) #THERE ARE 3 SPECIES #I l
plt.show()
```



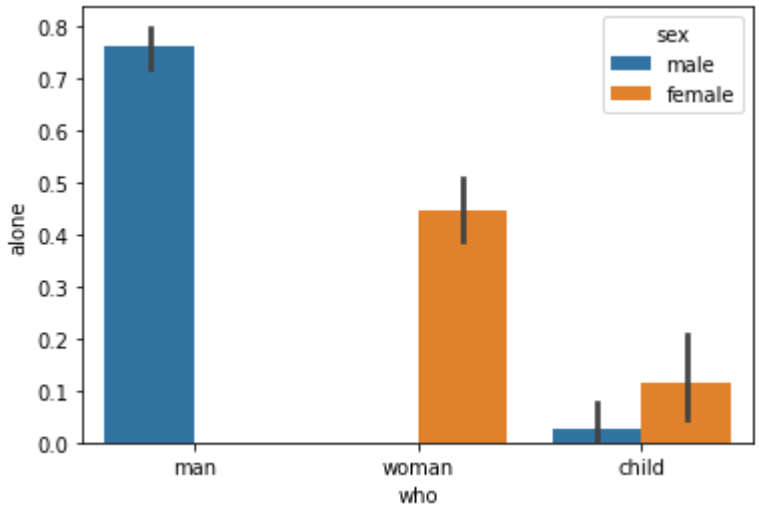
In [4]:
```
#import libraries
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
```

Out[4]:

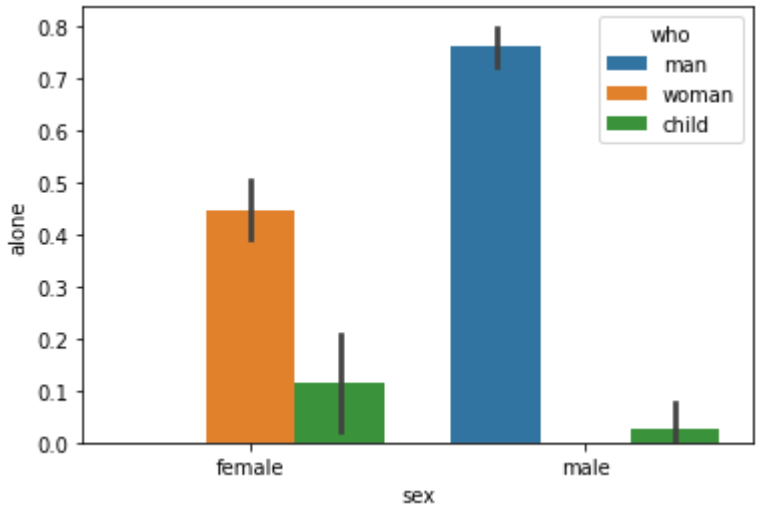
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True
...	...	...	...	...	...	...	...	...	...	...	...
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True
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
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

891 rows × 15 columns

In [7]:
```
#import libraries
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="who", y="alone",hue="sex", data= kashti)
plt.show()
```

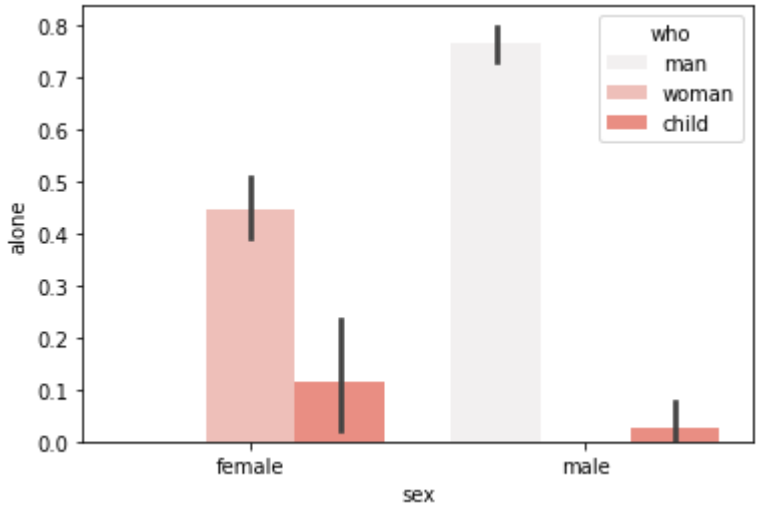


In [10]:
```
#import libraries  #HERE WE WILL SET ORDER OF THE DATA
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="sex", y="alone",hue="who", data= kashti, order=["female", "male"])
plt.show()
```



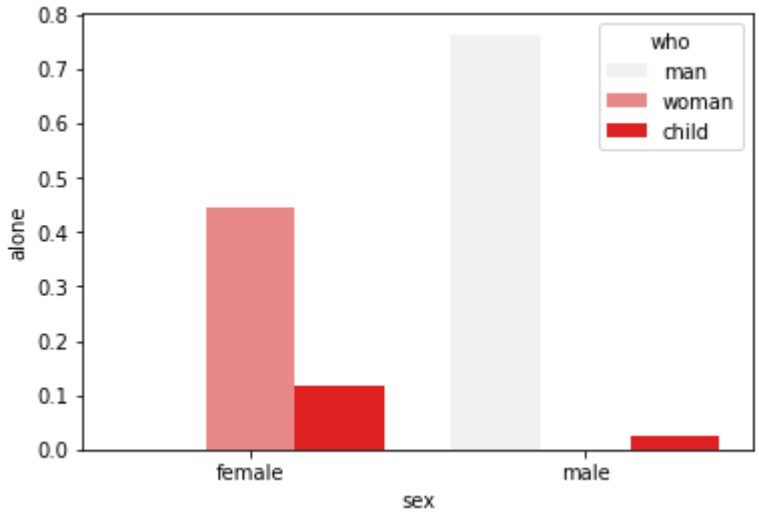
CHANGING COLOR OF GRAPH

In [11]:
```
#import libraries
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="sex", y="alone",hue="who", data= kashti, order=["female", "male"],
plt.show()
```

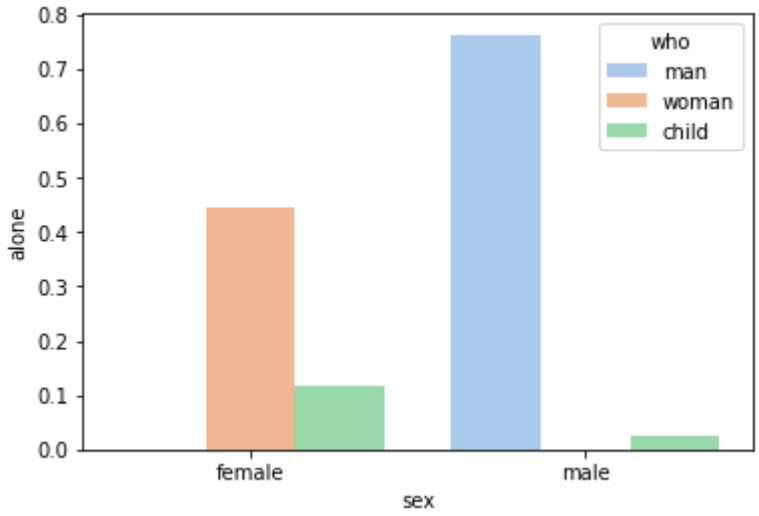


CONFIDENCE INTERVAL #We can remove error bars

In [12]:
```
#import libraries  #HERE WE WILL REMOVE ERROR OF THE DATA
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="sex", y="alone",hue="who", data= kashti, order=["female", "male"],
plt.show()
```

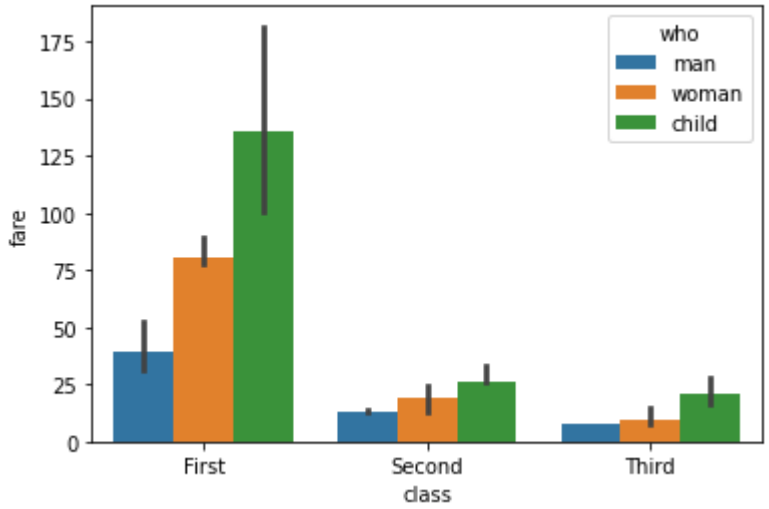


In [16]:
```
#import libraries  #HERE WE WILL ADD PALETTE OF THE DATA
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="sex", y="alone",hue="who", data= kashti, order=["female", "male"],
plt.show()
```



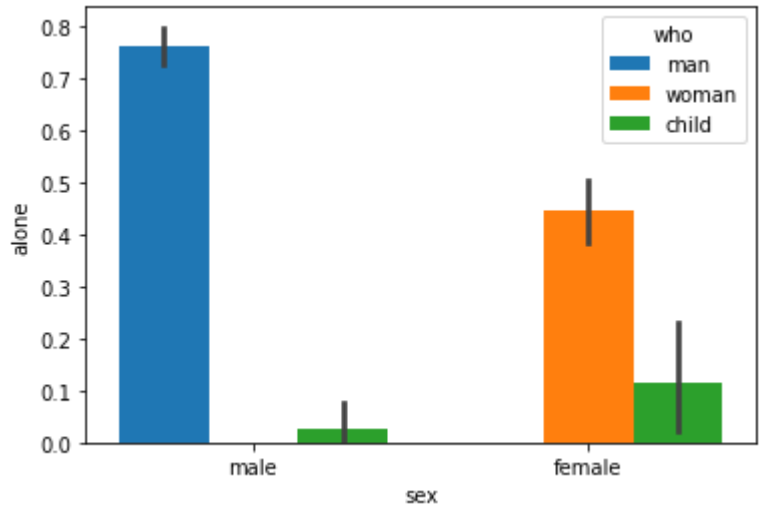
USING ESTIMATOR #HERE WE HAD TO TAKE A NUMERICAL VARIABLE OTHERWISE THERE WILL BE ERROR

In [18]:
```
#import libraries  #HERE WE WILL REMOVE ERROR OF THE DATA #ALSO IMPORT A LIBRARY
import seaborn as sns
import matplotlib.pyplot as plt
from numpy import median
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="class", y="fare",hue="who", data= kashti, estimator= median)
plt.show()
```



Color Saturation

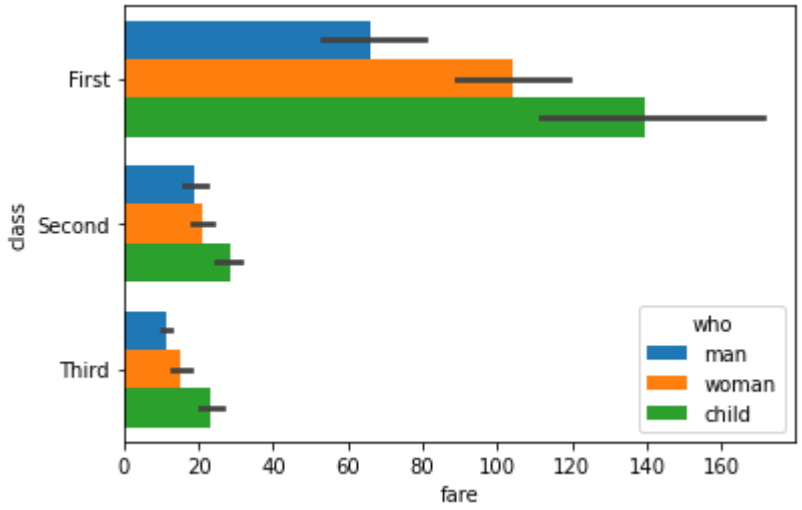
In [19]:
```
#import libraries  #HERE WE WILL REMOVE ERROR OF THE DATA
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="sex", y="alone",hue="who", data= kashti, saturation=3.5)
plt.show()
```



Drawing in Horiontal direction

- For this, the numeric parameter should be on x axis

In [20]:
```
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="fare", y="class",hue="who", data= kashti, saturation=3.5)
plt.show()
```



In [3]:
```
#import libraries  #HERE WE WILL REMOVE ERROR OF THE DATA
import seaborn as sns
import matplotlib.pyplot as plt
#LOAD DATA SHEET
kashti= sns.load_dataset("titanic")
kashti
sns.barplot(x="sex", y="alone",hue="who", data= kashti, saturation=3.5)
plt.show()
```