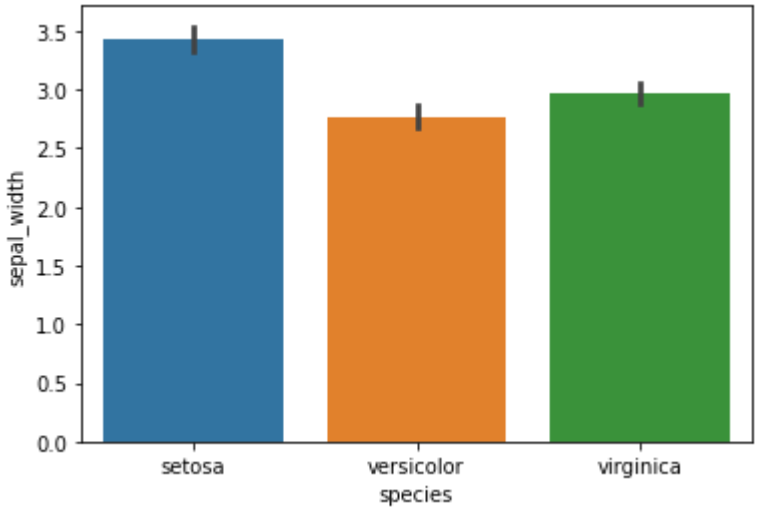
In [ ]:
```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
```

In [ ]:
```
flower= sns.load_dataset("iris")
```

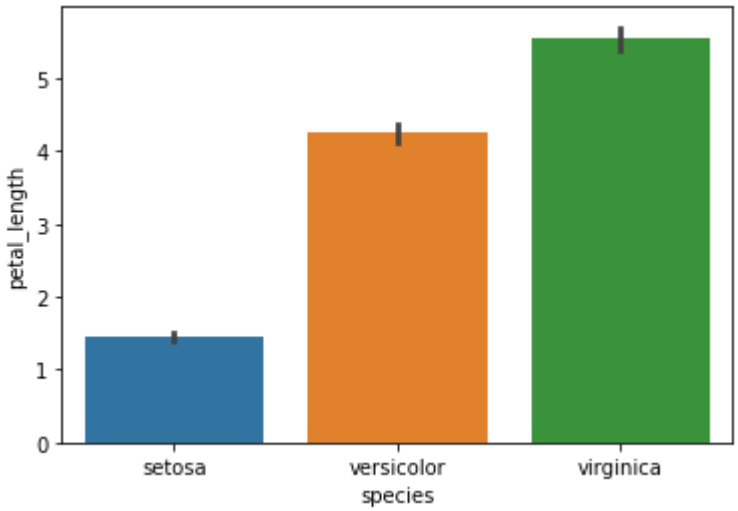
In [ ]:
```
sns.barplot(x="species", y= "sepal_width", data= flower)
plt.show
```

Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [ ]:
```
sns.barplot(x="species", y= "petal_length", data= flower)
plt.show
```

Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



now for grouping you mast need different

datasets

In [ ]:
```
kashti= sns.load_dataset("titanic")
```

In [ ]:
```
kashti
```

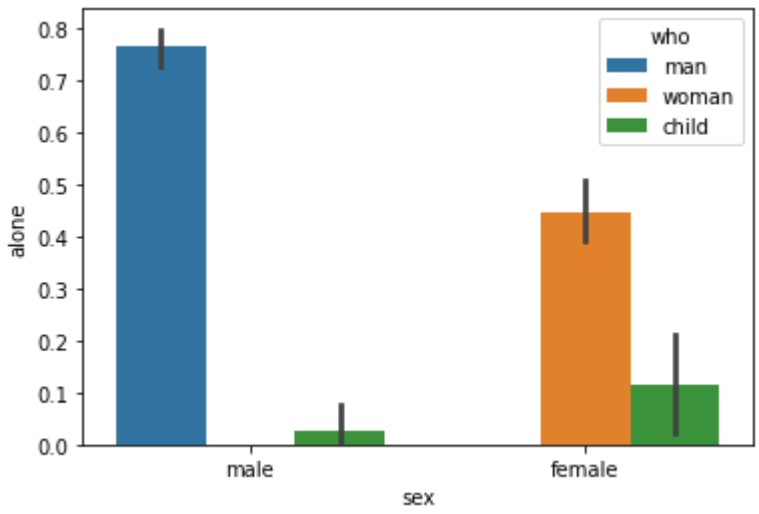
Out[ ]:

	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	I
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	I
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	I
...	...	...	...	...	...	...	...	...	...	...	...	
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True	I
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	I
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	I

891 rows × 15 columns

In [ ]:
```
sns.barplot(x="sex", y= "alone", hue= "who", data= kashti)
plt.show
```

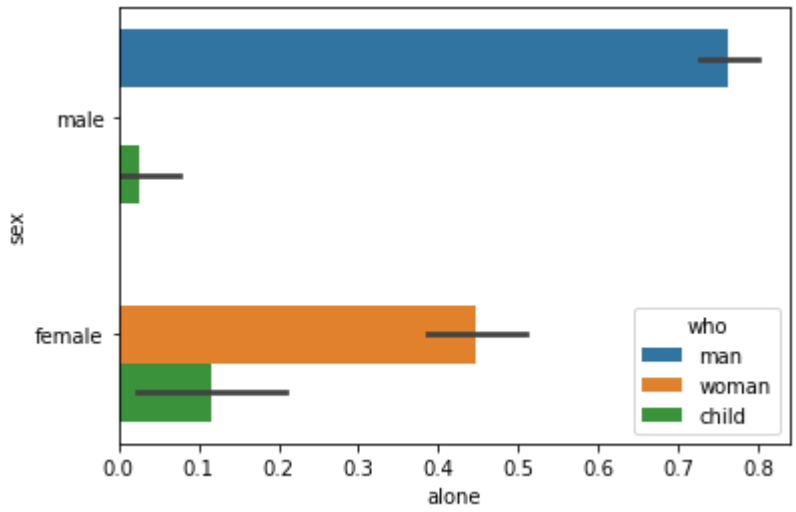
Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



Horizantal plot

In [ ]:
```
#you have to just change the x and yaxis of catogries
sns.barplot(x="alone", y= "sex", hue= "who", data= kashti)
plt.show
```

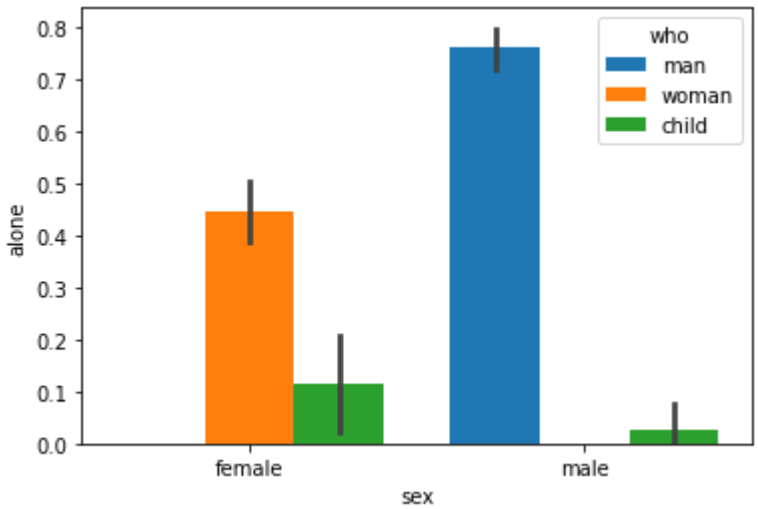
Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



Now how to set ordering the group

In [ ]:
```
sns.barplot(x="sex", y= "alone", hue= "who", data= kashti,
order=["female", "male"], saturation=1)
plt.show
```

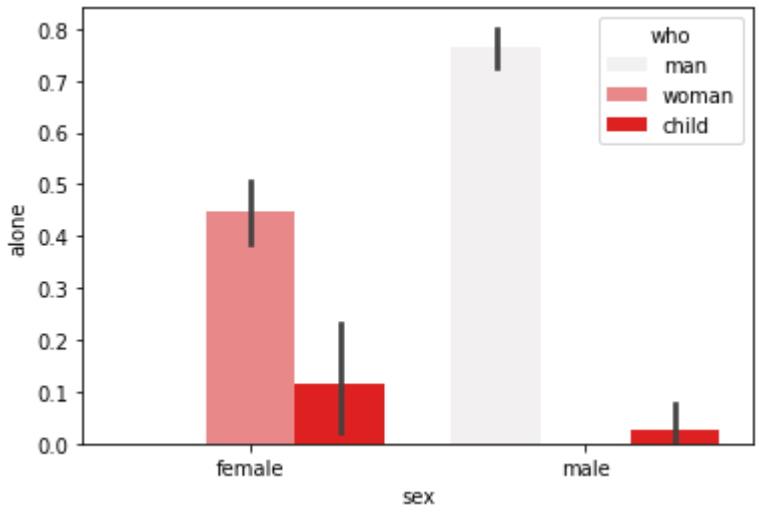
Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



for colouring colour pelet

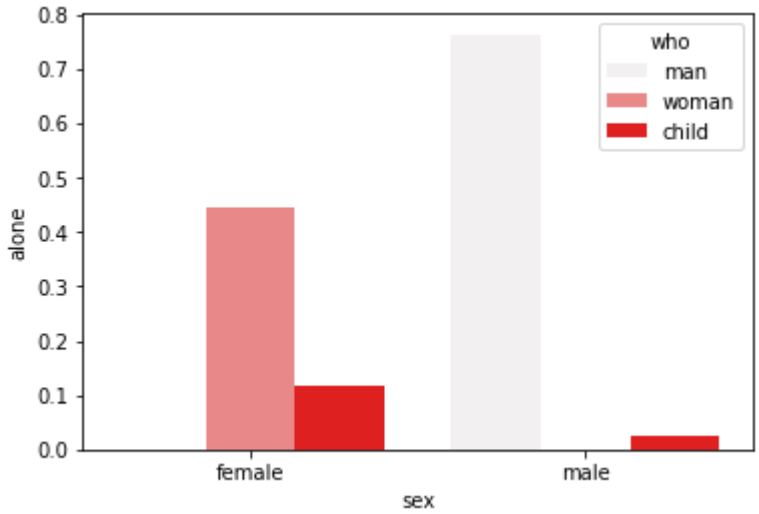
In [ ]:
```
sns.barplot(x="sex", y= "alone", hue= "who", data= kashti,
order=["female", "male"], color= "red")
plt.show
```

Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



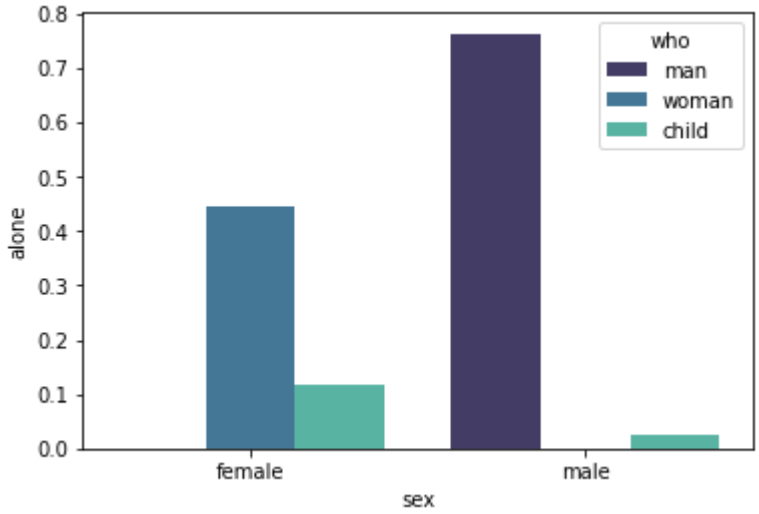
In [ ]:
```
sns.barplot(x="sex", y= "alone", hue= "who", data= kashti,
order=["female", "male"], color= "red", ci=None) #ci = None is used for eror bor
plt.show
```

Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



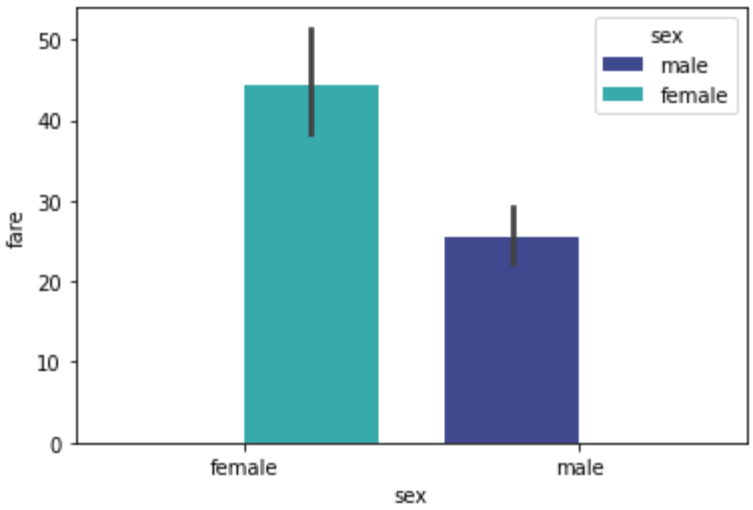
In [ ]:
```
# already develp pllet seaborn palette
#some example are "tab10", "pastel", "muted", "bright", "colorblind", "dark"
# "Set2", "husl", "hls", "Set2", "paired", "rocket", "mako"

sns.barplot(x="sex", y= "alone", hue= "who", data= kashti,
order=["female", "male"], color= "red", ci=None,
palette="mako") #ci = None is used for eror bor
plt.show
```

Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [ ]:
```
# estimator we use as a numerical value n saturation
from numpy import mean
sns.barplot(x="sex", y= "fare", hue= "sex", data= kashti,
order=["female", "male"], color= "red", estimator=mean,
palette="mako", saturation=1) #ci = None is used for eror bor
plt.show
```

Out[ ]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [ ]:
```
kashti.columns
```

Out[ ]:
```
Index(['survived', 'pclass', 'sex', 'age', 'sibsp', 'parch', 'fare',
       'embarked', 'class', 'who', 'adult_male', 'deck', 'embark_town',
       'alive', 'alone'],
      dtype='object')
```

In [ ]:
```
plt.figure(figsize= (15,3))
sns.lineplot(x="age", y= "fare", hue= "who", data= kashti)
sns.barplot(x="age", y= "fare", hue= "who", data= kashti)
plt.show
```

Out[ ]: <function matplotlib.pyplot.show(close=None, block=None)>