

BAR PLOT

(X variable in categorical form & Y is in numeric)

```
In [33]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="dark")

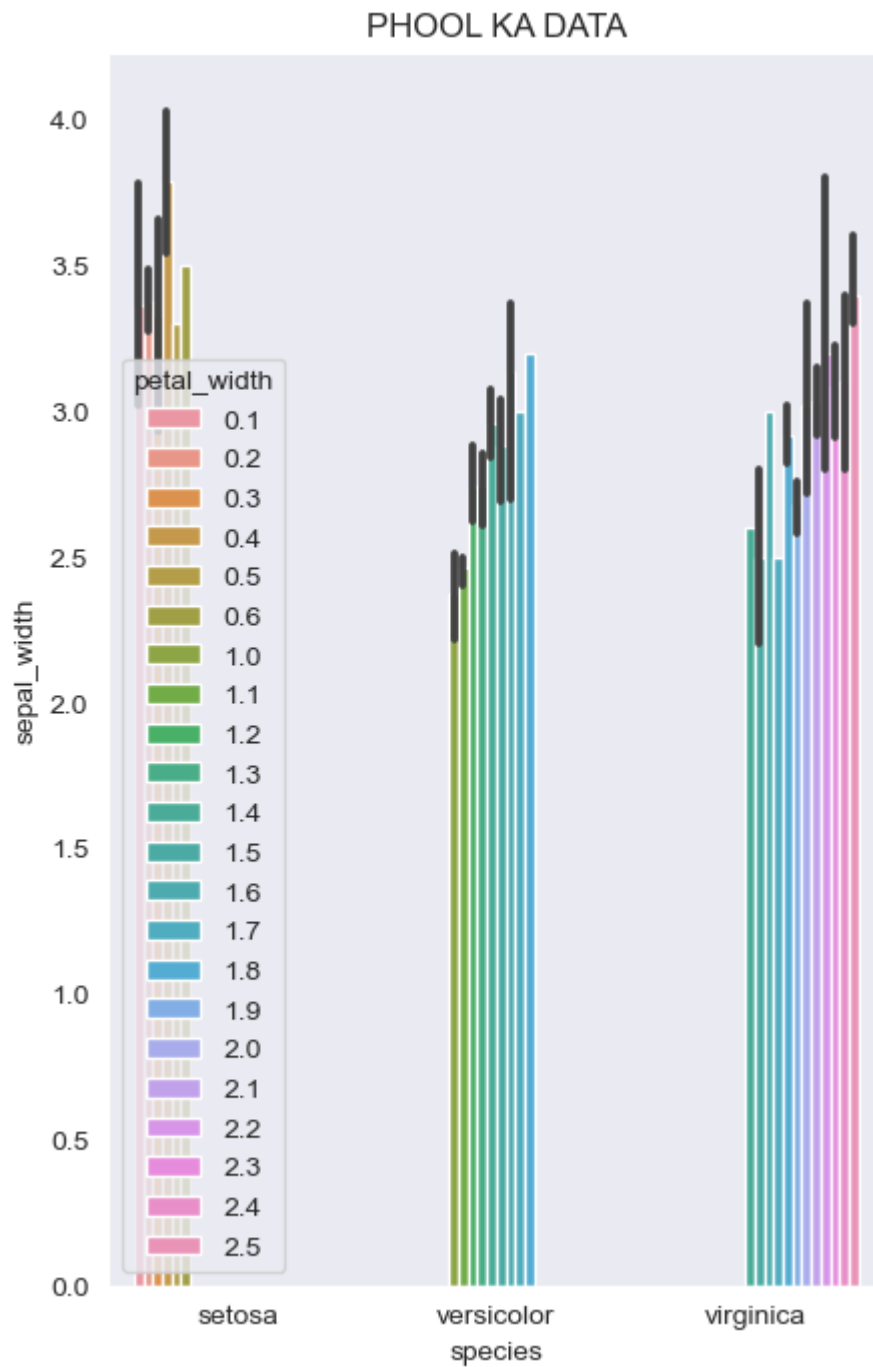
phool=sns.load_dataset("iris")
print(phool)

plt.figure(figsize=(5,8))

P=sns.barplot(x="species", y="sepal_width", data=phool, hue="petal_width")
P.set_title("PHOOL KA DATA")
plt.show()
```

	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 x 5 columns]



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

sns.set_style(style="white")

khashti = sns.load_dataset("titanic")
print(khashti)

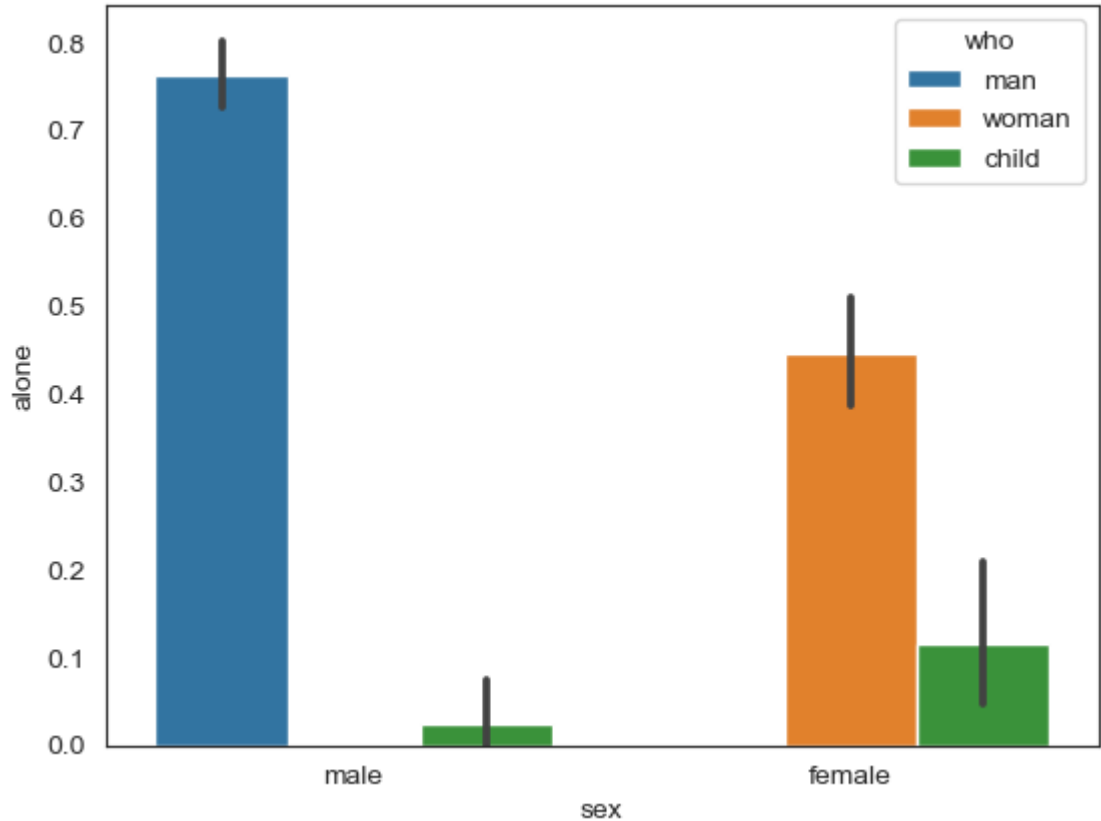
P=sns.barplot(x="sex", y="alone", hue="who", data=khashti)
P.set_title("PHOOL KA DATA")
plt.show()
```

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

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True
..
886	man	True	NaN	Southampton	no	True
887	woman	False	B	Southampton	yes	True
888	woman	False	NaN	Southampton	no	False
889	man	True	C	Cherbourg	yes	True
890	man	True	NaN	Queenstown	no	True

[891 rows x 15 columns]

PHOOL KA DATA



SET ORDER

```
In [25]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

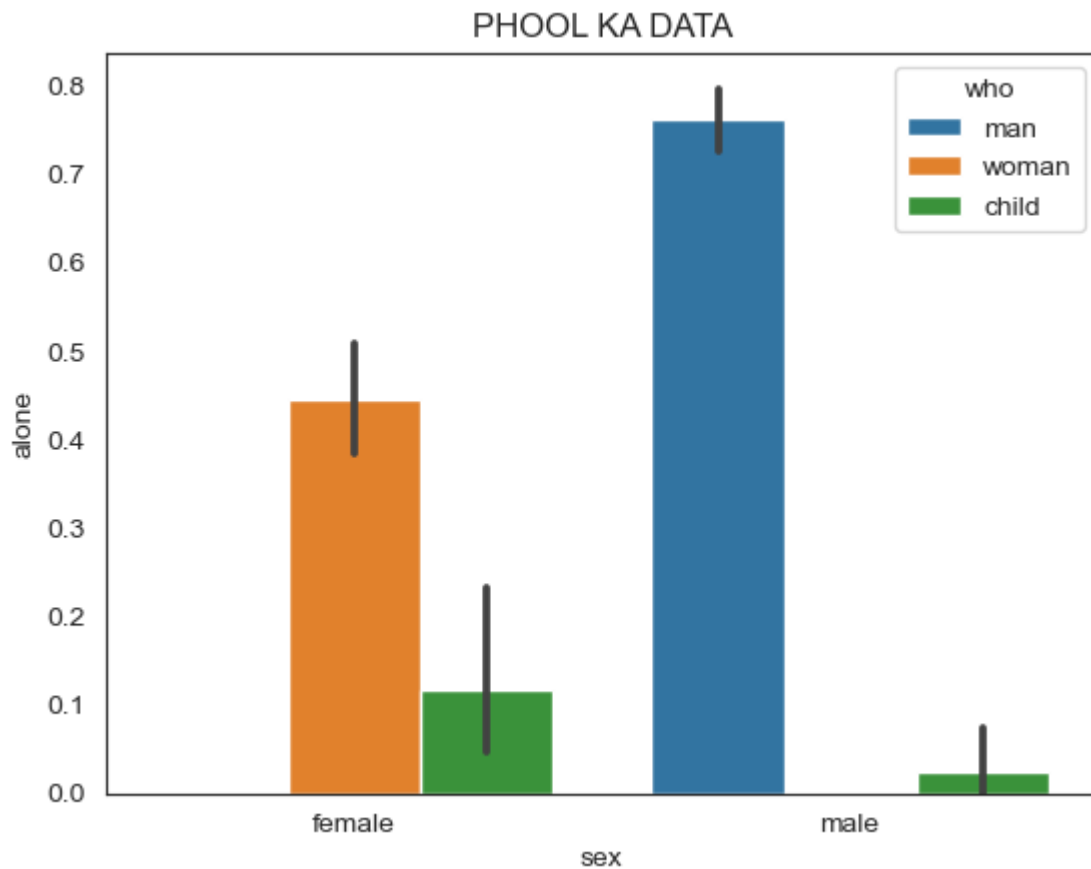
khashti = sns.load_dataset("titanic")
print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"])
P.set_title("PHOOL KA DATA")
plt.show()
```

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

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True
..
886	man	True	NaN	Southampton	no	True
887	woman	False	B	Southampton	yes	True
888	woman	False	NaN	Southampton	no	False
889	man	True	C	Cherbourg	yes	True
890	man	True	NaN	Queenstown	no	True

[891 rows x 15 columns]



SET COLOR

```
In [26]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

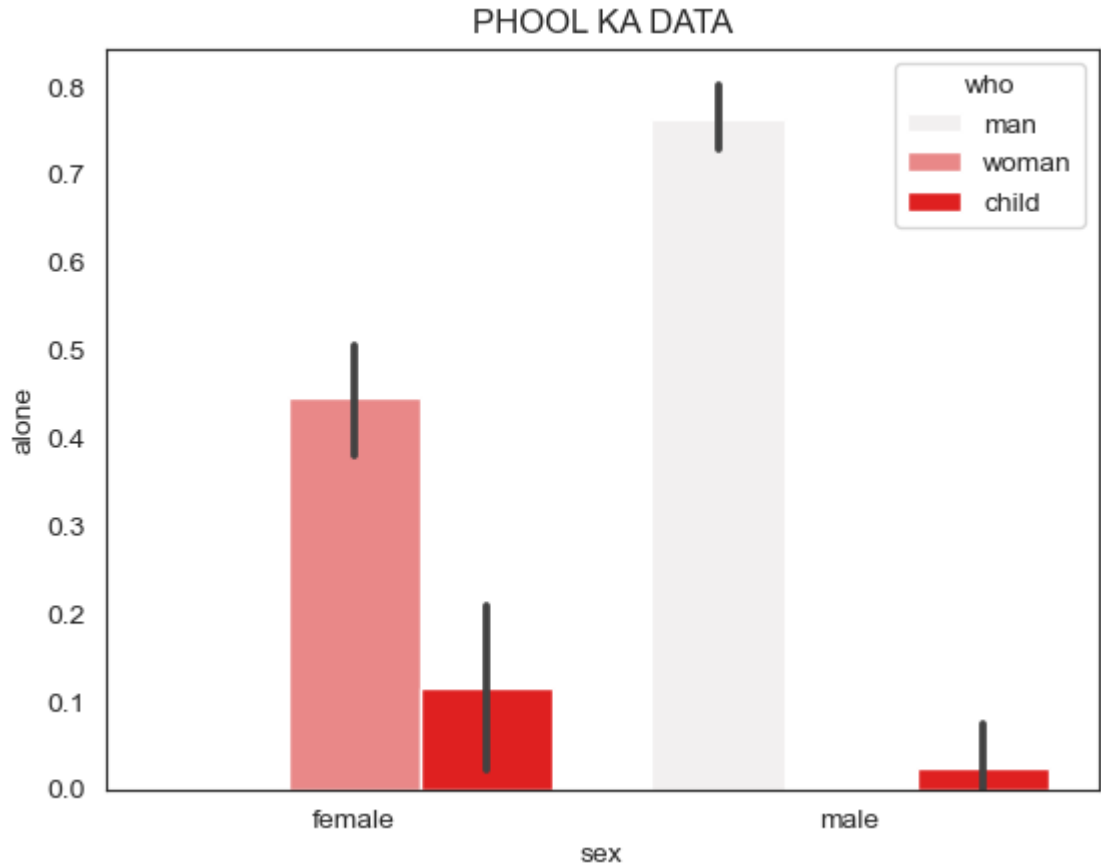
khashti = sns.load_dataset("titanic")
print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
plt.show()
```

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

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True
..
886	man	True	NaN	Southampton	no	True
887	woman	False	B	Southampton	yes	True
888	woman	False	NaN	Southampton	no	False
889	man	True	C	Cherbourg	yes	True
890	man	True	NaN	Queenstown	no	True

[891 rows x 15 columns]



REMOVE ERROR BARS

```
In [28]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

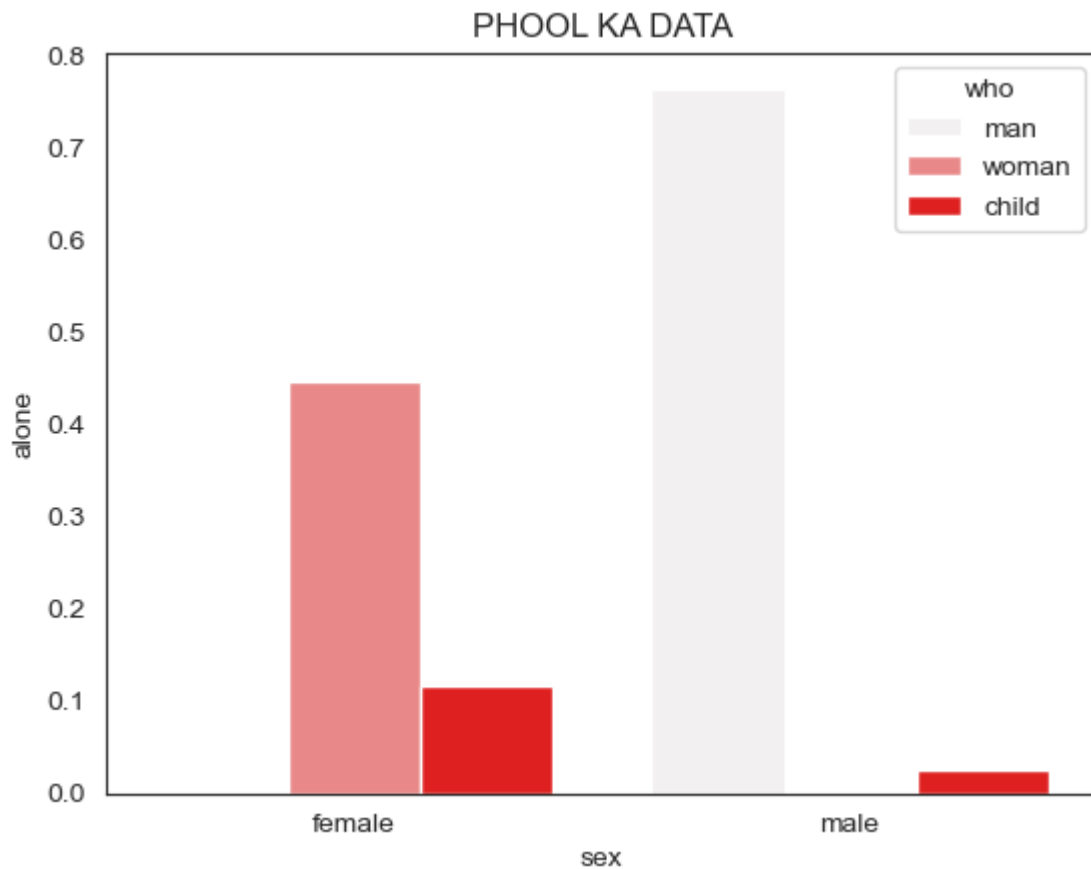
khashti = sns.load_dataset("titanic")
print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
plt.show()
```

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

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True
..
886	man	True	NaN	Southampton	no	True
887	woman	False	B	Southampton	yes	True
888	woman	False	NaN	Southampton	no	False
889	man	True	C	Cherbourg	yes	True
890	man	True	NaN	Queenstown	no	True

[891 rows x 15 columns]



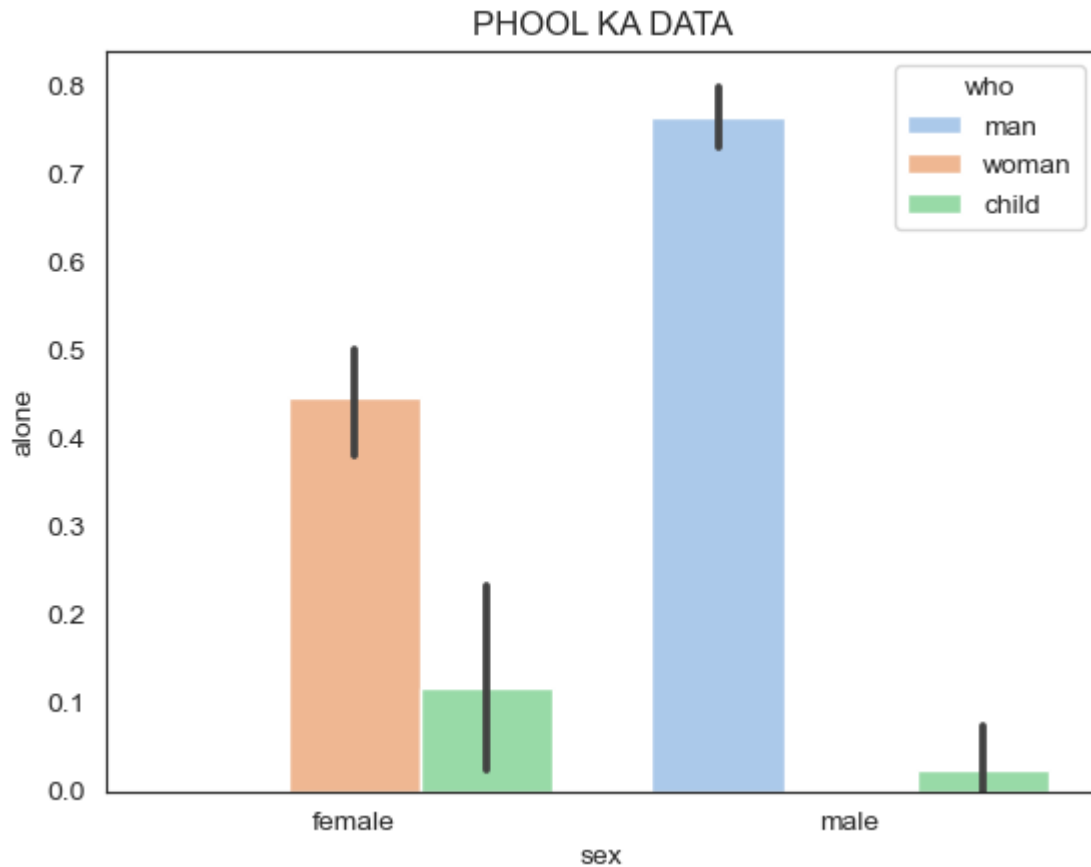
DIFFERENT PALLETE

```
In [30]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

khashti = sns.load_dataset("titanic")
# print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
plt.show()
```

APPLY ESTIMATOR

```
In [37]: import seaborn as sns
import matplotlib.pyplot as plt
import numpy

sns.set_style(style="white")

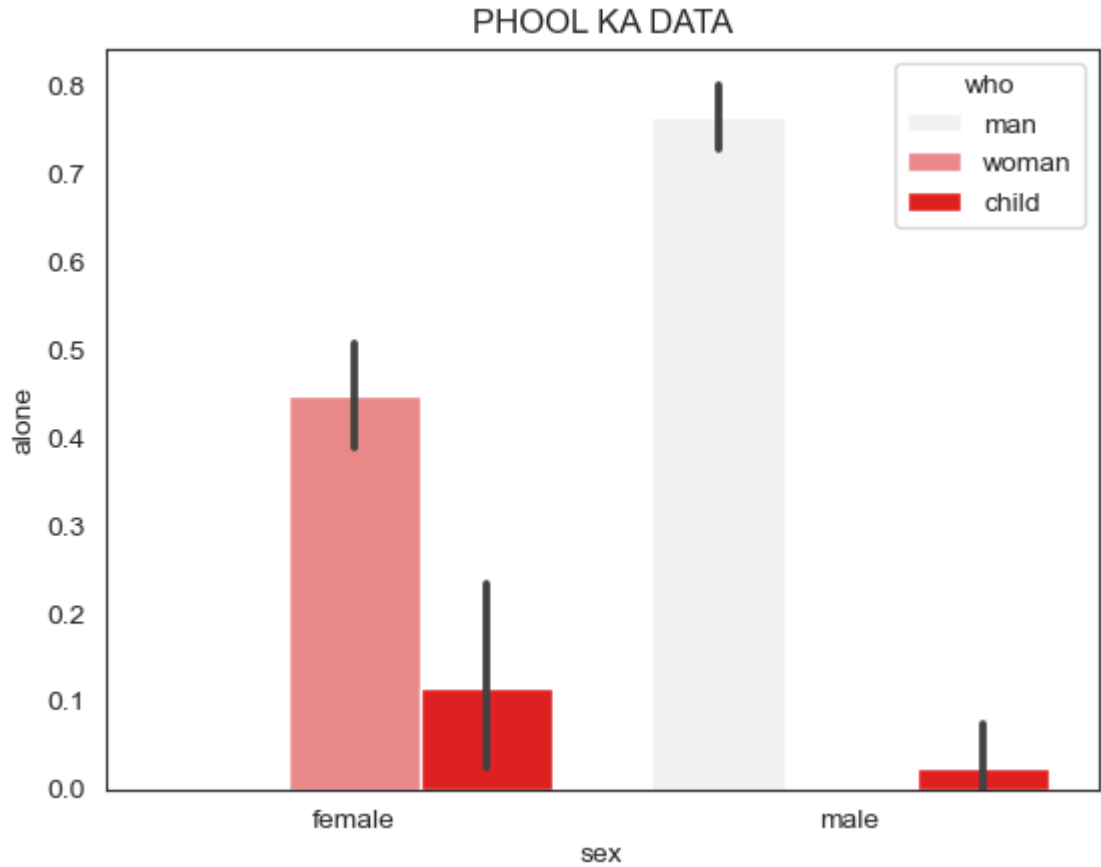
khashti = sns.load_dataset("titanic")
print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
plt.show()
```

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

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True
..
886	man	True	NaN	Southampton	no	True
887	woman	False	B	Southampton	yes	True
888	woman	False	NaN	Southampton	no	False
889	man	True	C	Cherbourg	yes	True
890	man	True	NaN	Queenstown	no	True

[891 rows x 15 columns]



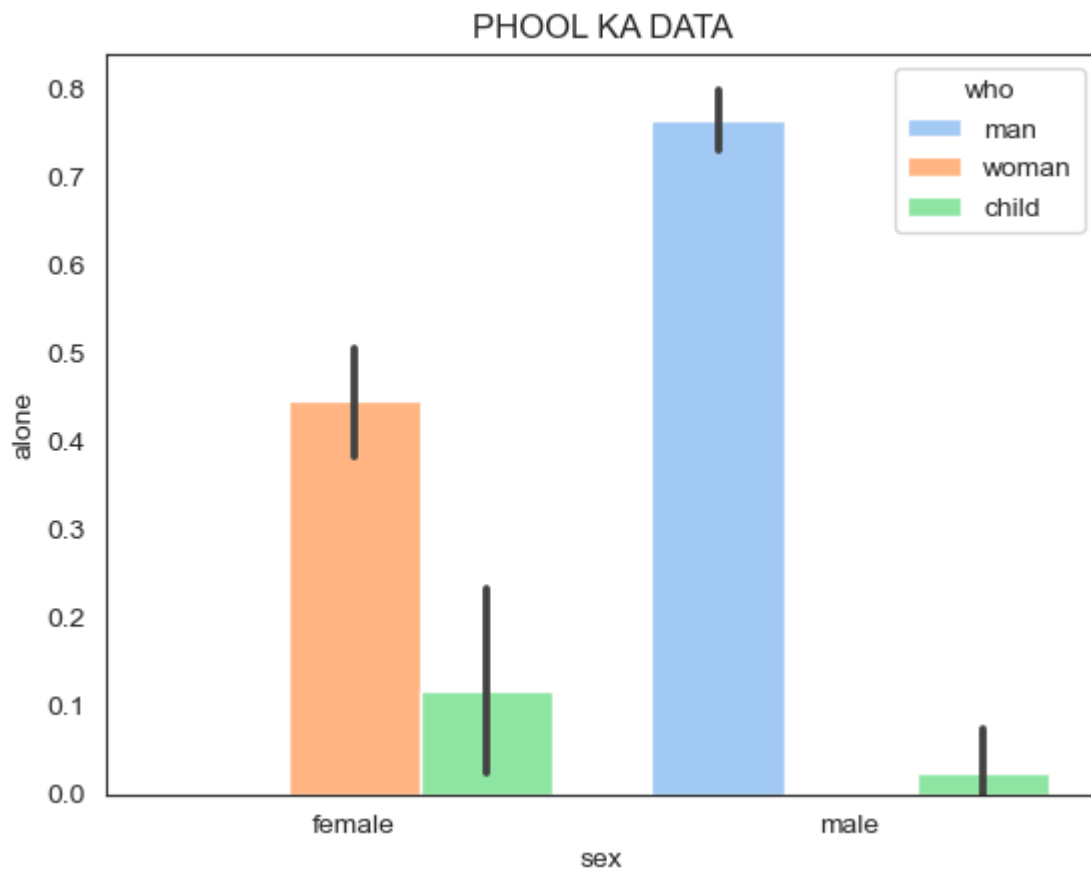
SET SATURATION

```
In [40]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

khashti = sns.load_dataset("titanic")
# print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
plt.show()
```



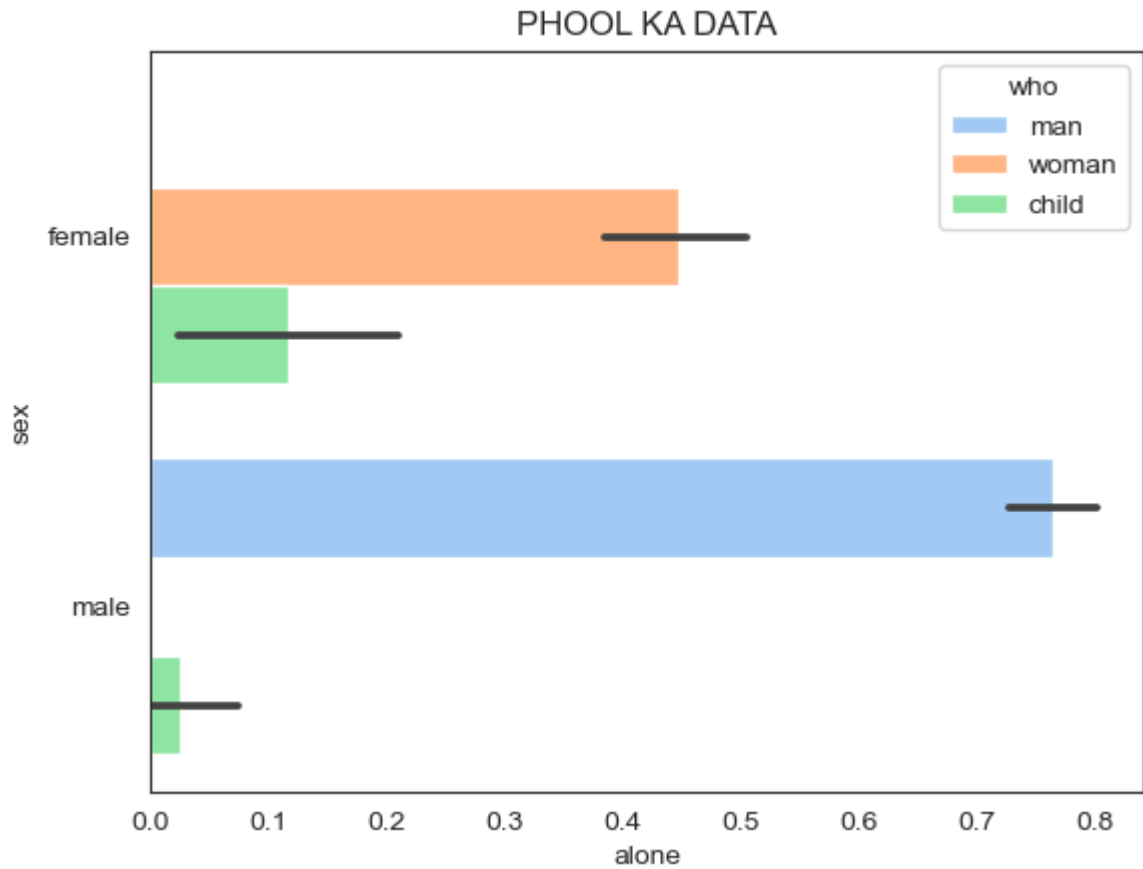
CHANGE GRAPH SHAPE HORIZONTAL

```
In [41]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

khashti = sns.load_dataset("titanic")
# print(khashti)

P=sns.barplot(x="alone", y="sex", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
plt.show()
```



LINE WIDTH/ FACE COLOR/ ERROR COLOR/

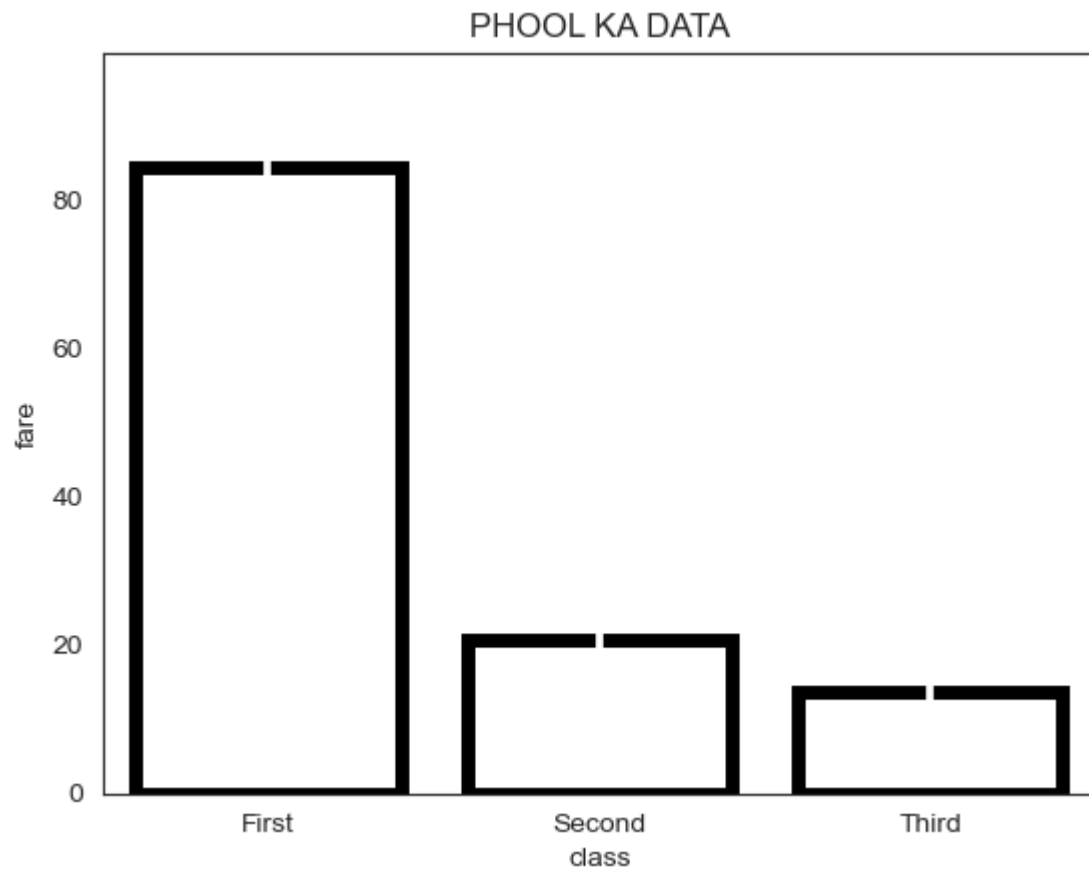
EDGE COLOR (1 for white & 0 for black)

```
In [58]: import seaborn as sns
import matplotlib.pyplot as plt
import numpy

sns.set_style(style="white")

khashti = sns.load_dataset("titanic")
# print(khashti)

P=sns.barplot(x="class", y="fare", data=khashti, linewidth=5, facecolor=(1, 1, 1, 0),
P.set_title("PHOOL KA DATA")
plt.show()
```



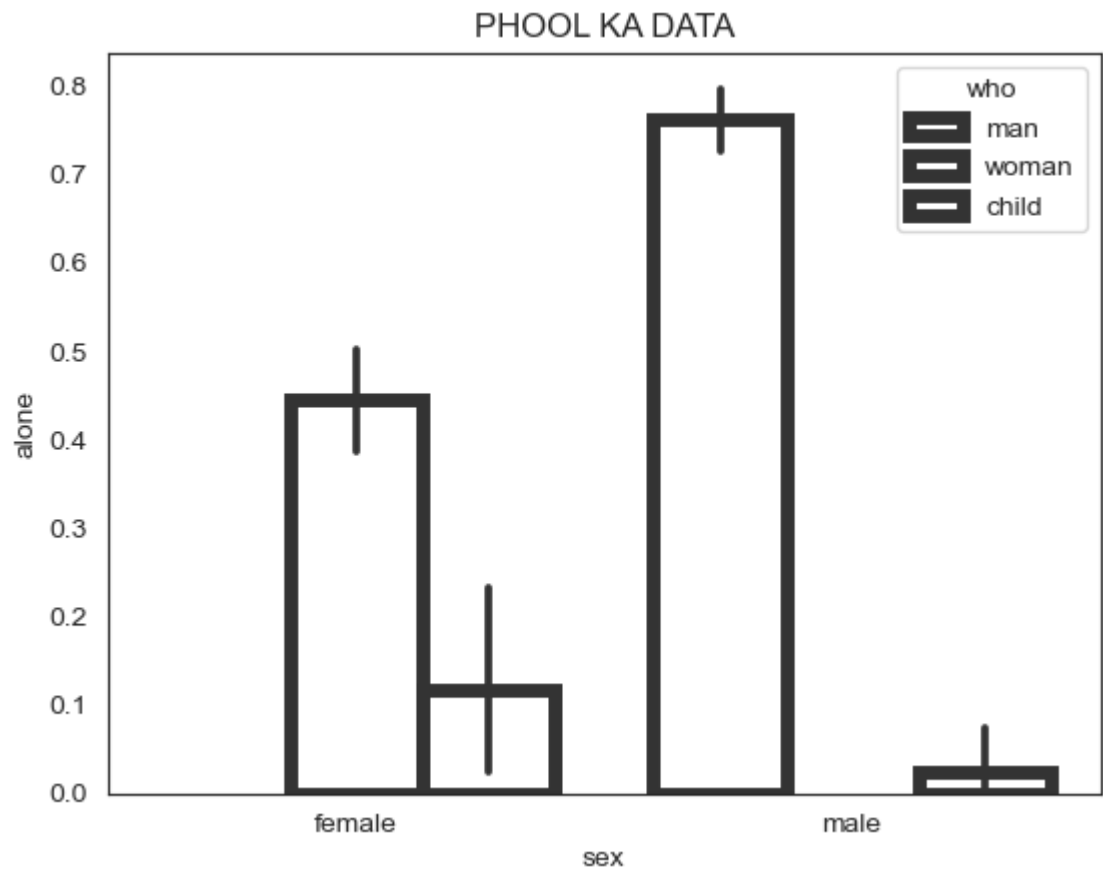
```
In [52]: import seaborn as sns
import matplotlib.pyplot as plt

sns.set_style(style="white")

khashti = sns.load_dataset("titanic")
# print(khashti)

P=sns.barplot(x="sex", y="alone", hue="who", data=khashti, order=["female", "male"], c
P.set_title("PHOOL KA DATA")
```

```
Out[52]: Text(0.5, 1.0, 'PHOOL KA DATA')
```



```
In [ ]:
```