How to create Sebaorn Scatter Plot?

```python
# Import libraries
import seaborn as sns # for Data visualization
import matplotlib.pyplot as plt # for Data visualization
import pandas as pd

#Import dataset from GitHub Seborn Repository
titanic_df = sns.load_dataset("titanic")
titanic_df
```

```
      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
5            0       3    male   NaN      0      0    8.4583        Q
Third
6            0       1    male  54.0      0      0   51.8625        S
First
7            0       3    male   2.0      3      1   21.0750        S
Third
8            1       3  female  27.0      0      2   11.1333        S
Third
9            1       2  female  14.0      1      0   30.0708        C
Second
10           1       3  female   4.0      1      1   16.7000        S
Third
11           1       1  female  58.0      0      0   26.5500        S
First
12           0       3    male  20.0      0      0    8.0500        S
Third
13           0       3    male  39.0      1      5   31.2750        S
Third
14           0       3  female  14.0      0      0    7.8542        S
Third
15           1       2  female  55.0      0      0   16.0000        S
Second
16           0       3    male   2.0      4      1   29.1250        Q
Third
17           1       2    male   NaN      0      0   13.0000        S
Second
```

18	0	3	female	31.0	1	0	18.0000	S	Third
19	1	3	female	NaN	0	0	7.2250	C	Third
20	0	2	male	35.0	0	0	26.0000	S	Second
21	1	2	male	34.0	0	0	13.0000	S	Second
22	1	3	female	15.0	0	0	8.0292	Q	Third
23	1	1	male	28.0	0	0	35.5000	S	First
24	0	3	female	8.0	3	1	21.0750	S	Third
25	1	3	female	38.0	1	5	31.3875	S	Third
26	0	3	male	NaN	0	0	7.2250	C	Third
27	0	1	male	19.0	3	2	263.0000	S	First
28	1	3	female	NaN	0	0	7.8792	Q	Third
29	0	3	male	NaN	0	0	7.8958	S	Third
..	...	...	...	...	...	...	...	...	...
861	0	2	male	21.0	1	0	11.5000	S	Second
862	1	1	female	48.0	0	0	25.9292	S	First
863	0	3	female	NaN	8	2	69.5500	S	Third
864	0	2	male	24.0	0	0	13.0000	S	Second
865	1	2	female	42.0	0	0	13.0000	S	Second
866	1	2	female	27.0	1	0	13.8583	C	Second
867	0	1	male	31.0	0	0	50.4958	S	First
868	0	3	male	NaN	0	0	9.5000	S	Third
869	1	3	male	4.0	1	1	11.1333	S	Third
870	0	3	male	26.0	0	0	7.8958	S	Third
871	1	1	female	47.0	1	1	52.5542	S	First
872	0	1	male	33.0	0	0	5.0000	S	First

873	0	3	male	47.0	0	0	9.0000	S
Third								
874	1	2	female	28.0	1	0	24.0000	C
Second								
875	1	3	female	15.0	0	0	7.2250	C
Third								
876	0	3	male	20.0	0	0	9.8458	S
Third								
877	0	3	male	19.0	0	0	7.8958	S
Third								
878	0	3	male	NaN	0	0	7.8958	S
Third								
879	1	1	female	56.0	0	1	83.1583	C
First								
880	1	2	female	25.0	0	1	26.0000	S
Second								
881	0	3	male	33.0	0	0	7.8958	S
Third								
882	0	3	female	22.0	0	0	10.5167	S
Third								
883	0	2	male	28.0	0	0	10.5000	S
Second								
884	0	3	male	25.0	0	0	7.0500	S
Third								
885	0	3	female	39.0	0	5	29.1250	Q
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
5	man	True	NaN	Queenstown	no	True
6	man	True	E	Southampton	no	True
7	child	False	NaN	Southampton	no	False
8	woman	False	NaN	Southampton	yes	False
9	child	False	NaN	Cherbourg	yes	False
10	child	False	G	Southampton	yes	False
11	woman	False	C	Southampton	yes	True

12	man	True	NaN	Southampton	no	True
13	man	True	NaN	Southampton	no	False
14	child	False	NaN	Southampton	no	True
15	woman	False	NaN	Southampton	yes	True
16	child	False	NaN	Queenstown	no	False
17	man	True	NaN	Southampton	yes	True
18	woman	False	NaN	Southampton	no	False
19	woman	False	NaN	Cherbourg	yes	True
20	man	True	NaN	Southampton	no	True
21	man	True	D	Southampton	yes	True
22	child	False	NaN	Queenstown	yes	True
23	man	True	A	Southampton	yes	True
24	child	False	NaN	Southampton	no	False
25	woman	False	NaN	Southampton	yes	False
26	man	True	NaN	Cherbourg	no	True
27	man	True	C	Southampton	no	False
28	woman	False	NaN	Queenstown	yes	True
29	man	True	NaN	Southampton	no	True
..	...	...	...	...	...	...
861	man	True	NaN	Southampton	no	False
862	woman	False	D	Southampton	yes	True
863	woman	False	NaN	Southampton	no	False
864	man	True	NaN	Southampton	no	True
865	woman	False	NaN	Southampton	yes	True
866	woman	False	NaN	Cherbourg	yes	False
867	man	True	A	Southampton	no	True
868	man	True	NaN	Southampton	no	True
869	child	False	NaN	Southampton	yes	False
870	man	True	NaN	Southampton	no	True
871	woman	False	D	Southampton	yes	False
872	man	True	B	Southampton	no	True
873	man	True	NaN	Southampton	no	True
874	woman	False	NaN	Cherbourg	yes	False
875	child	False	NaN	Cherbourg	yes	True
876	man	True	NaN	Southampton	no	True
877	man	True	NaN	Southampton	no	True
878	man	True	NaN	Southampton	no	True
879	woman	False	C	Cherbourg	yes	False
880	woman	False	NaN	Southampton	yes	False
881	man	True	NaN	Southampton	no	True
882	woman	False	NaN	Southampton	no	True
883	man	True	NaN	Southampton	no	True
884	man	True	NaN	Southampton	no	True
885	woman	False	NaN	Queenstown	no	False
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]

```
titanic_df = pd.read_csv("C:\\Users\\kashz\\seaborn-data\\
titanic.csv")
titanic_df
```

```
     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
5           0       3    male   NaN      0      0    8.4583        Q
Third
6           0       1    male  54.0      0      0   51.8625        S
First
7           0       3    male   2.0      3      1   21.0750        S
Third
8           1       3  female  27.0      0      2   11.1333        S
Third
9           1       2  female  14.0      1      0   30.0708        C
Second
10          1       3  female   4.0      1      1   16.7000        S
Third
11          1       1  female  58.0      0      0   26.5500        S
First
12          0       3    male  20.0      0      0    8.0500        S
Third
13          0       3    male  39.0      1      5   31.2750        S
Third
14          0       3  female  14.0      0      0    7.8542        S
Third
15          1       2  female  55.0      0      0   16.0000        S
Second
16          0       3    male   2.0      4      1   29.1250        Q
Third
17          1       2    male   NaN      0      0   13.0000        S
Second
18          0       3  female  31.0      1      0   18.0000        S
Third
19          1       3  female   NaN      0      0    7.2250        C
Third
20          0       2    male  35.0      0      0   26.0000        S
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class
									Second
21	1	2	male	34.0	0	0	13.0000	S	Second
22	1	3	female	15.0	0	0	8.0292	Q	Third
23	1	1	male	28.0	0	0	35.5000	S	First
24	0	3	female	8.0	3	1	21.0750	S	Third
25	1	3	female	38.0	1	5	31.3875	S	Third
26	0	3	male	NaN	0	0	7.2250	C	Third
27	0	1	male	19.0	3	2	263.0000	S	First
28	1	3	female	NaN	0	0	7.8792	Q	Third
29	0	3	male	NaN	0	0	7.8958	S	Third
..	...	...	...	...	...	...	...	...	...
861	0	2	male	21.0	1	0	11.5000	S	Second
862	1	1	female	48.0	0	0	25.9292	S	First
863	0	3	female	NaN	8	2	69.5500	S	Third
864	0	2	male	24.0	0	0	13.0000	S	Second
865	1	2	female	42.0	0	0	13.0000	S	Second
866	1	2	female	27.0	1	0	13.8583	C	Second
867	0	1	male	31.0	0	0	50.4958	S	First
868	0	3	male	NaN	0	0	9.5000	S	Third
869	1	3	male	4.0	1	1	11.1333	S	Third
870	0	3	male	26.0	0	0	7.8958	S	Third
871	1	1	female	47.0	1	1	52.5542	S	First
872	0	1	male	33.0	0	0	5.0000	S	First
873	0	3	male	47.0	0	0	9.0000	S	Third
874	1	2	female	28.0	1	0	24.0000	C	Second
875	1	3	female	15.0	0	0	7.2250	C	

```
Third
876       0      3    male   20.0     0       0    9.8458         S
Third
877       0      3    male   19.0     0       0    7.8958         S
Third
878       0      3    male    NaN     0       0    7.8958         S
Third
879       1      1  female   56.0     0       1   83.1583         C
First
880       1      2  female   25.0     0       1   26.0000         S
Second
881       0      3    male   33.0     0       0    7.8958         S
Third
882       0      3  female   22.0     0       0   10.5167         S
Third
883       0      2    male   28.0     0       0   10.5000         S
Second
884       0      3    male   25.0     0       0    7.0500         S
Third
885       0      3  female   39.0     0       5   29.1250         Q
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
5	man	True	NaN	Queenstown	no	True
6	man	True	E	Southampton	no	True
7	child	False	NaN	Southampton	no	False
8	woman	False	NaN	Southampton	yes	False
9	child	False	NaN	Cherbourg	yes	False
10	child	False	G	Southampton	yes	False
11	woman	False	C	Southampton	yes	True
12	man	True	NaN	Southampton	no	True
13	man	True	NaN	Southampton	no	False
14	child	False	NaN	Southampton	no	True
15	woman	False	NaN	Southampton	yes	True
16	child	False	NaN	Queenstown	no	False

```
17      man         True  NaN   Southampton    yes   True
18    woman         False NaN   Southampton     no  False
19    woman         False NaN     Cherbourg    yes   True
20      man         True  NaN   Southampton     no   True
21      man         True    D   Southampton    yes   True
22    child         False NaN    Queenstown    yes   True
23      man         True    A   Southampton    yes   True
24    child         False NaN   Southampton     no  False
25    woman         False NaN   Southampton    yes  False
26      man         True  NaN     Cherbourg     no   True
27      man         True    C   Southampton     no  False
28    woman         False NaN    Queenstown    yes   True
29      man         True  NaN   Southampton     no   True
..      ...         ...   ...           ...    ...    ...
861     man         True  NaN   Southampton     no  False
862   woman         False   D   Southampton    yes   True
863   woman         False NaN   Southampton     no  False
864     man         True  NaN   Southampton     no   True
865   woman         False NaN   Southampton    yes   True
866   woman         False NaN     Cherbourg    yes  False
867     man         True    A   Southampton     no   True
868     man         True  NaN   Southampton     no   True
869   child         False NaN   Southampton    yes  False
870     man         True  NaN   Southampton     no   True
871   woman         False   D   Southampton    yes  False
872     man         True    B   Southampton     no   True
873     man         True  NaN   Southampton     no   True
874   woman         False NaN     Cherbourg    yes  False
875   child         False NaN     Cherbourg    yes   True
876     man         True  NaN   Southampton     no   True
877     man         True  NaN   Southampton     no   True
878     man         True  NaN   Southampton     no   True
879   woman         False   C     Cherbourg    yes  False
880   woman         False NaN   Southampton    yes  False
881     man         True  NaN   Southampton     no   True
882   woman         False NaN   Southampton     no   True
883     man         True  NaN   Southampton     no   True
884     man         True  NaN   Southampton     no   True
885   woman         False NaN    Queenstown     no  False
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]

# import dataset from folder

#DataFrame_name = pd.read_csv("file name of file path")
```

```
# Draw Seaborn Scatter Plot to find relationship between age and fare
sns.scatterplot(x = "age", y = "fare", data = titanic_df)

# or -- you can pass DataFrame x and y variable directly
#sns.scatterplot(x = titanic_df.age, y = titanic_df.fare)
```
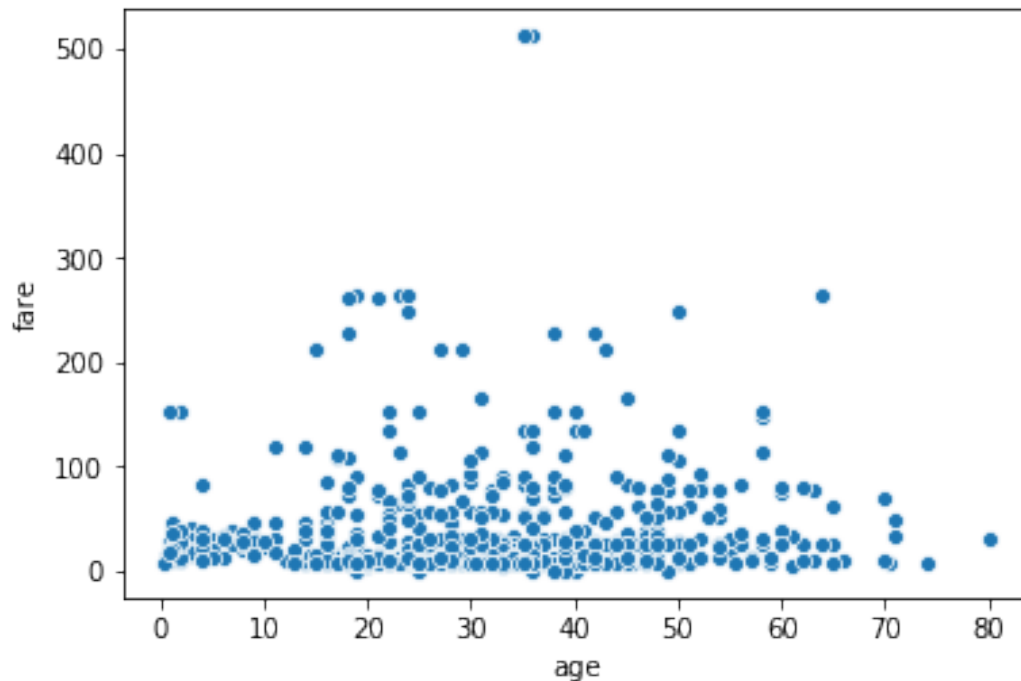
<matplotlib.axes._subplots.AxesSubplot at 0x1e724a48e80>


```
sns.scatterplot(x = titanic_df.age, y = titanic_df.fare)
```

<matplotlib.axes._subplots.AxesSubplot at 0x1e724a48978>
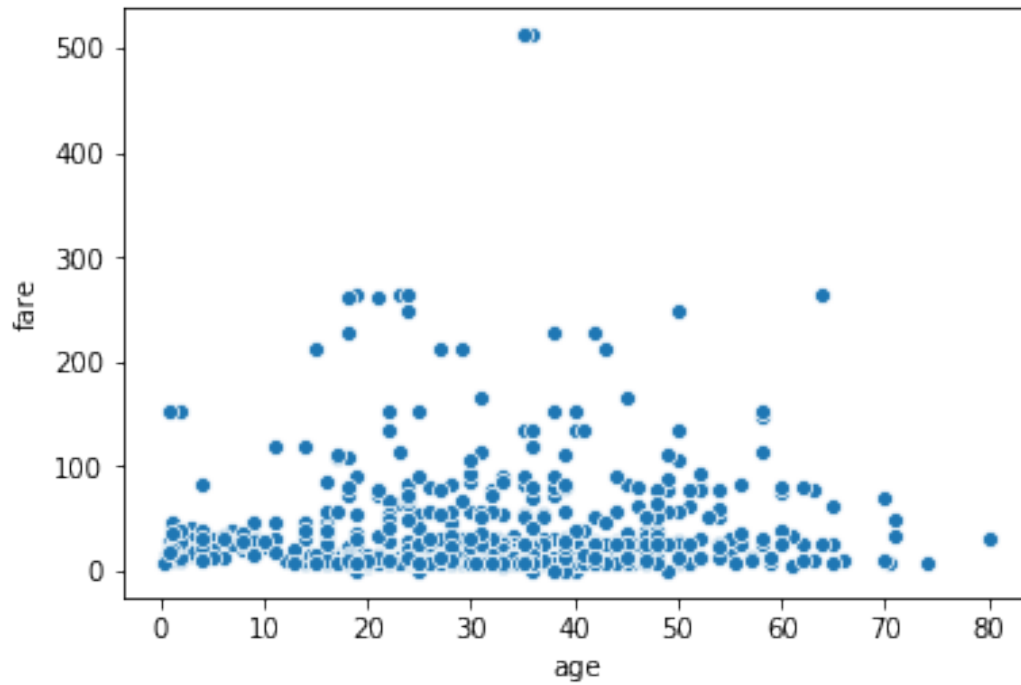
```
sns.scatterplot(x = titanic_df['age'], y = titanic_df['fare'])
<matplotlib.axes._subplots.AxesSubplot at 0x1e725dff320>
```
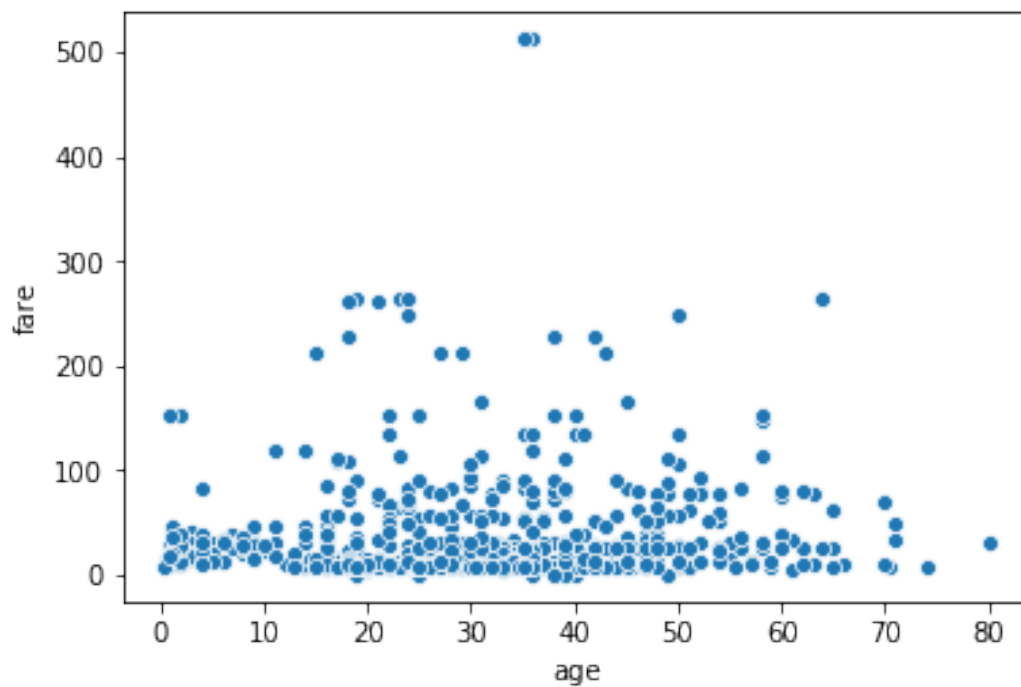
hue

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, hue = "sex")
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e725e700f0>
```
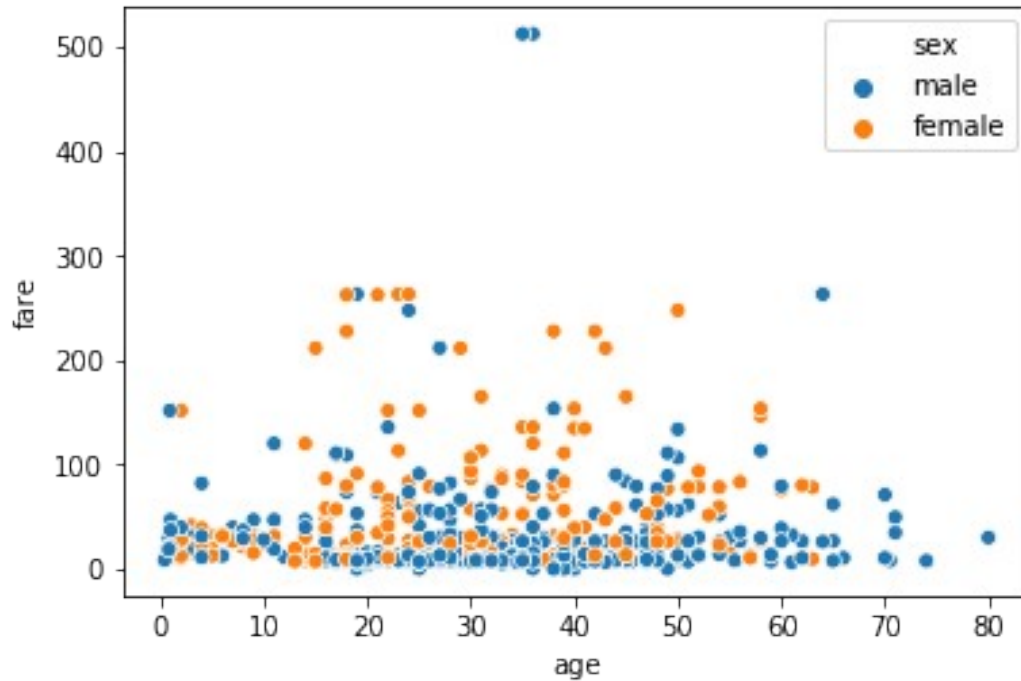

hue_order

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, hue = "sex",
                hue_order= ['female', 'male'])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e725eb34e0>
```
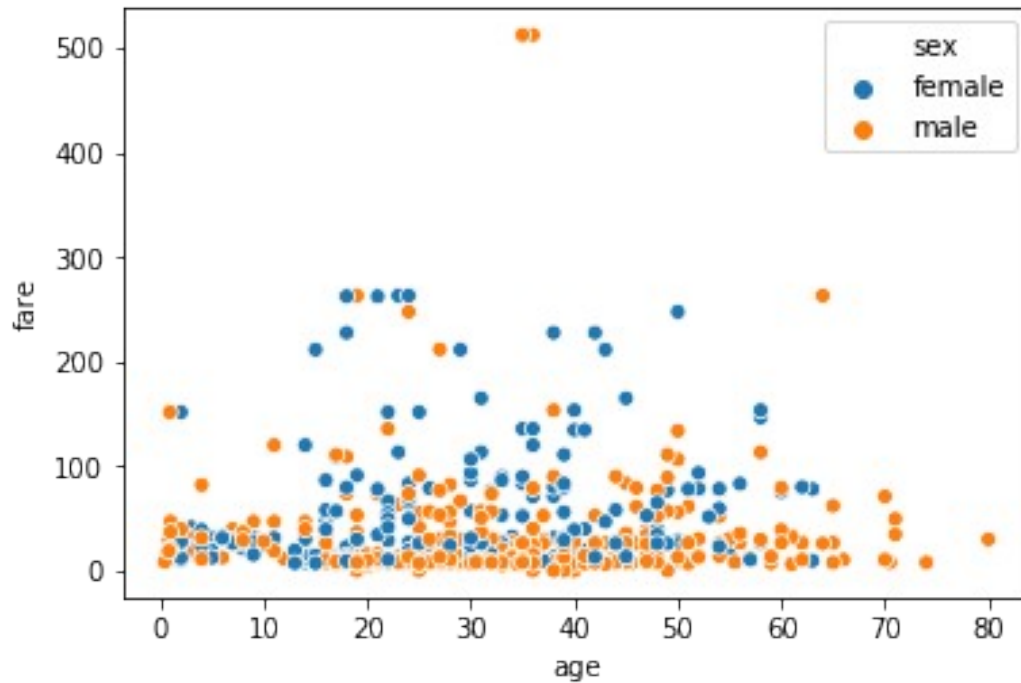
size & sizes

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, size =
"who")
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e725eed8d0>
```
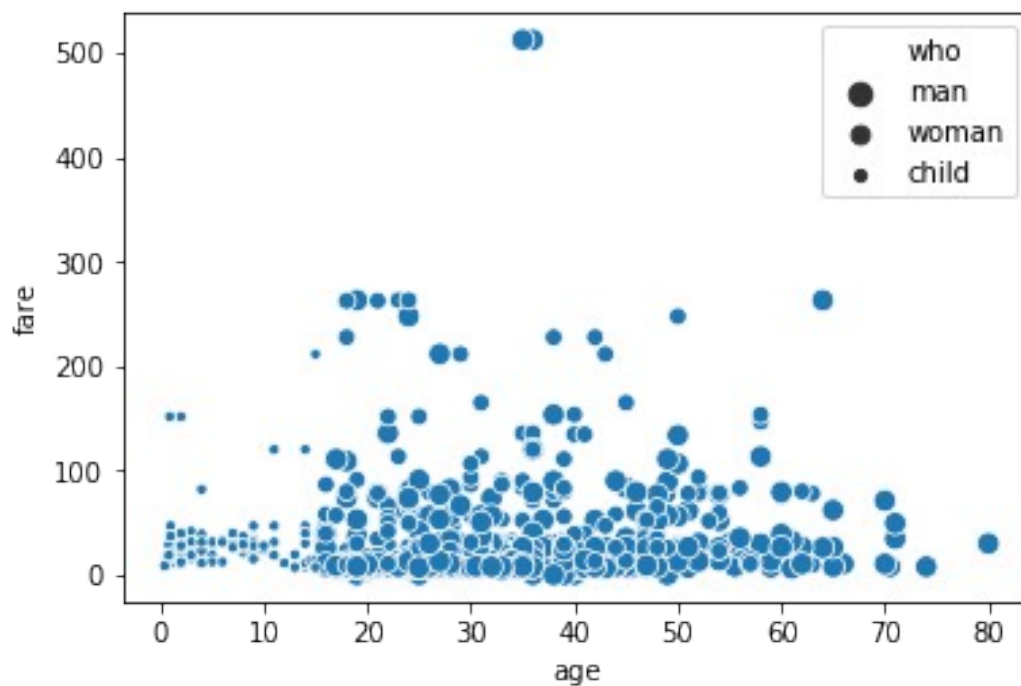
```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, size =
"who",
                sizes = (50, 300))
```

<matplotlib.axes._subplots.AxesSubplot at 0x1e725fccf60>
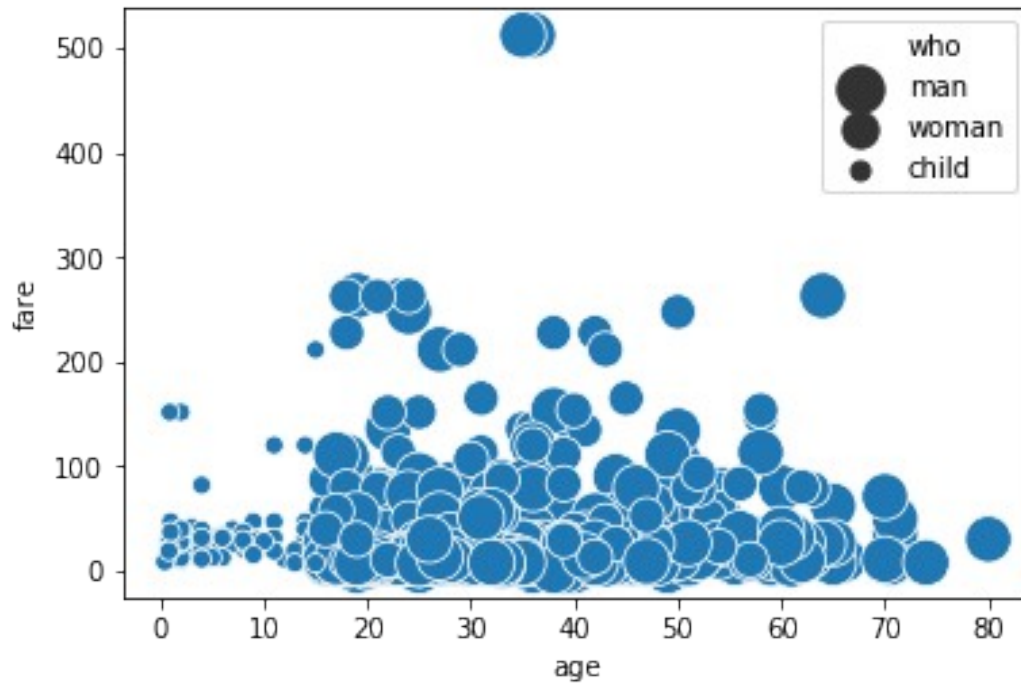
size_order

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, size =
"who",
                size_order=['child', 'man', 'woman'],)
```

<matplotlib.axes._subplots.AxesSubplot at 0x1e726041a58>
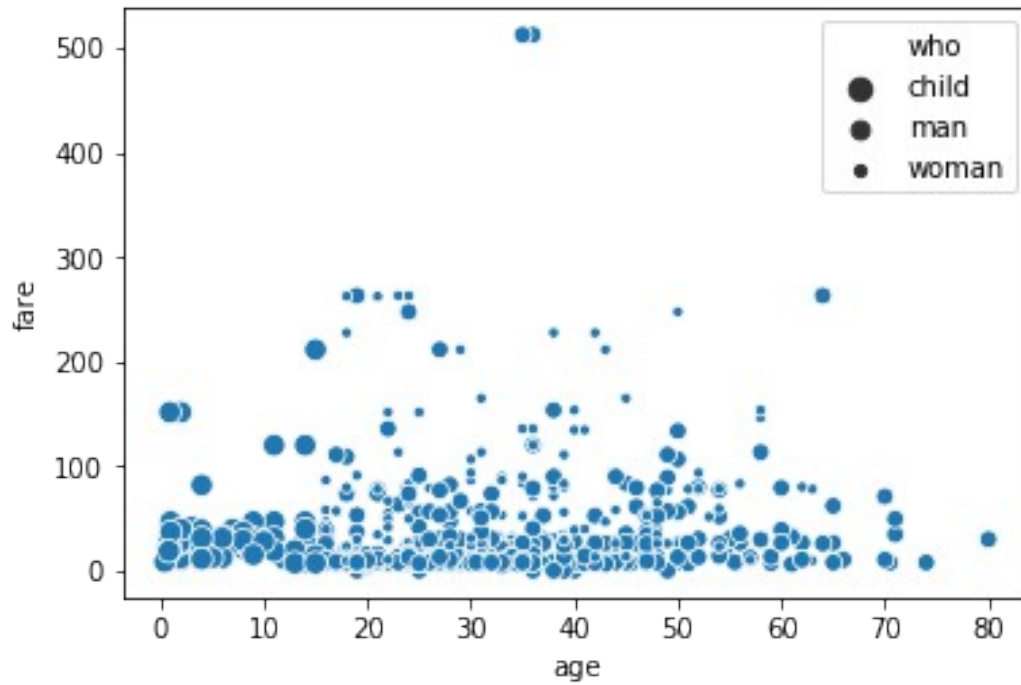
size_norm

```python
sns.scatterplot(x = "age", y = "fare", data = titanic_df, size = "who",
                size_norm = (100,400))
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e725fad630>
```
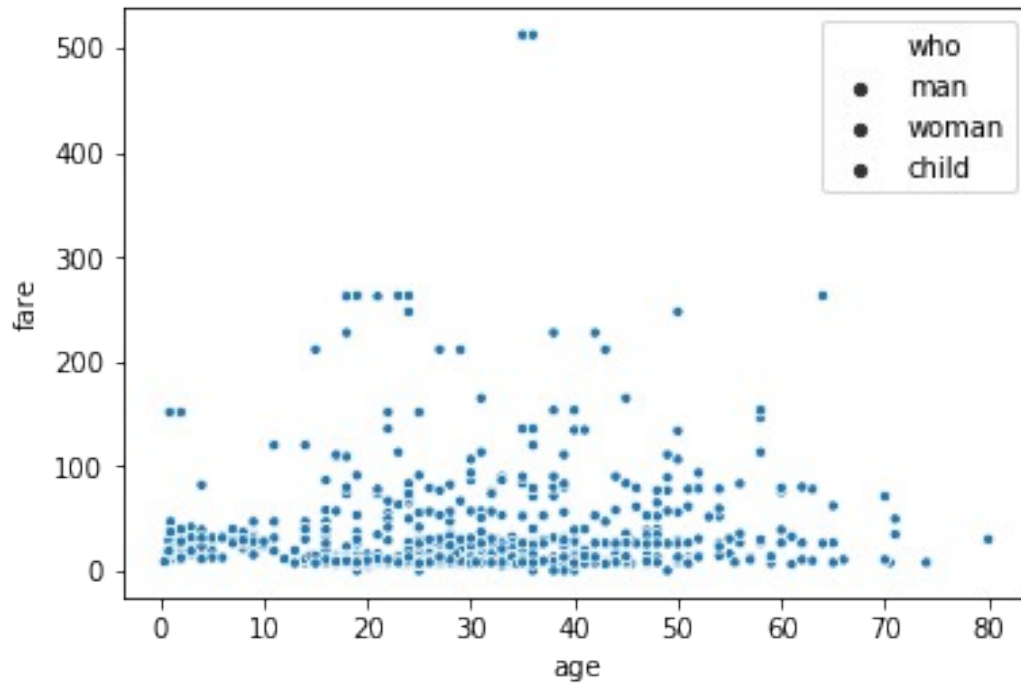
style

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, style =
"who",)
```

<matplotlib.axes._subplots.AxesSubplot at 0x1e72615c668>
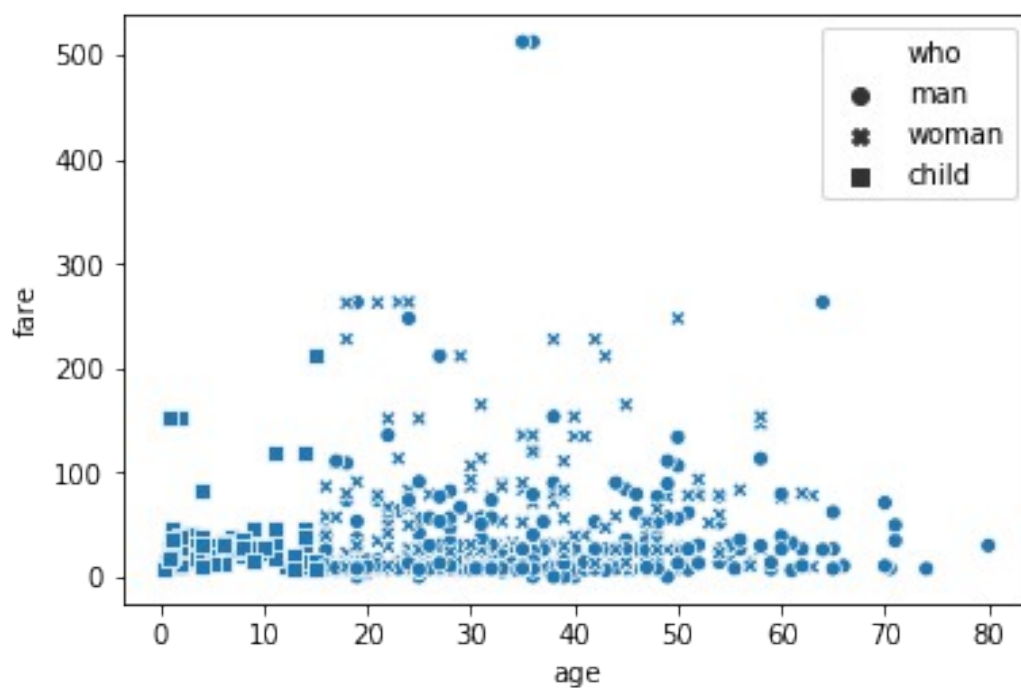
style_order

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, style =
"who", style_order=['child','woman','man'])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e7261a0710>
```
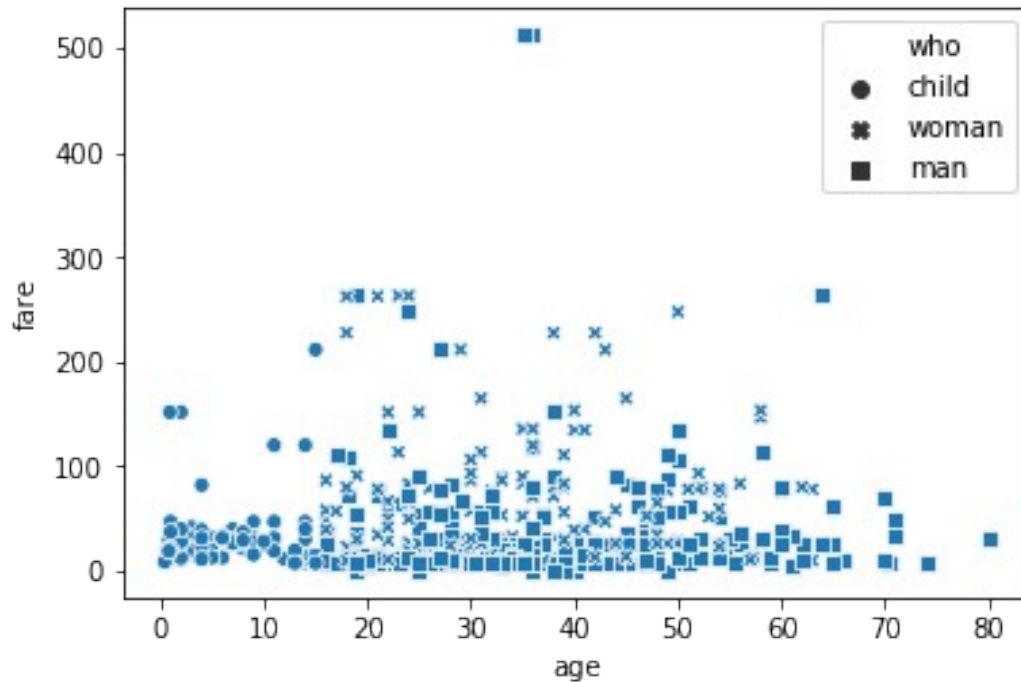

palette

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, hue = "sex",
                palette="hot") # palette does not work without hue
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e7262511d0>
```
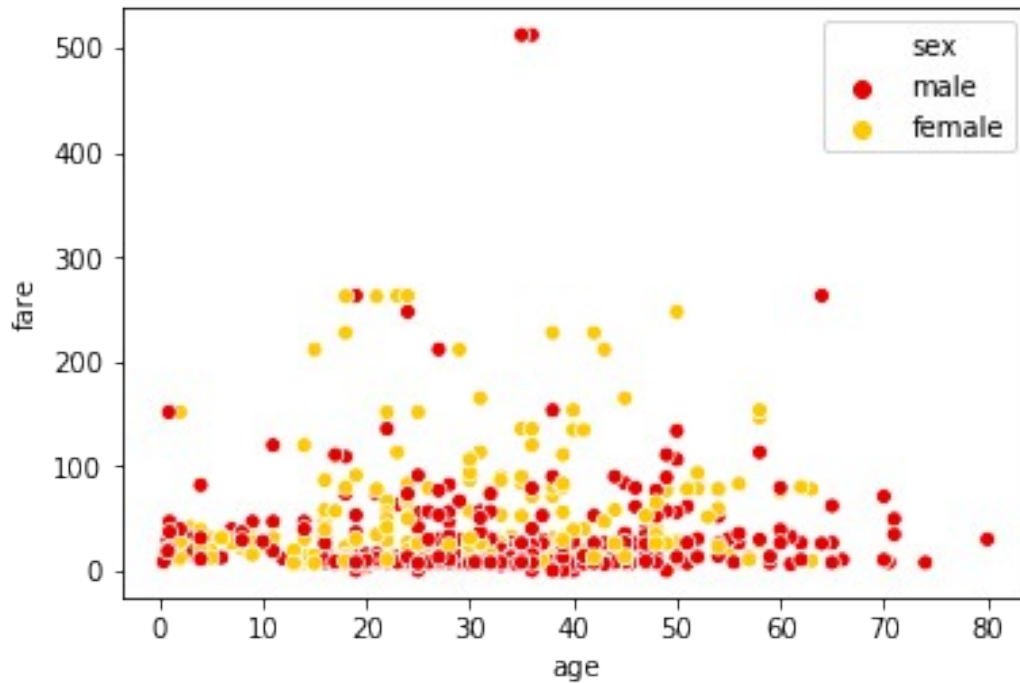
**hue_norm
#you can alter how the colormap is normalized:

```python
from matplotlib.colors import LogNorm
palette = sns.cubehelix_palette(light=.7, n_colors=7)
sns.scatterplot(x = "age", y = "fare", data = titanic_df, hue = "sex",
                palette='hot',
                hue_norm= LogNorm()) #hue_order= ['female', 'male'],
```

<matplotlib.axes._subplots.AxesSubplot at 0x1e7262a9c50>
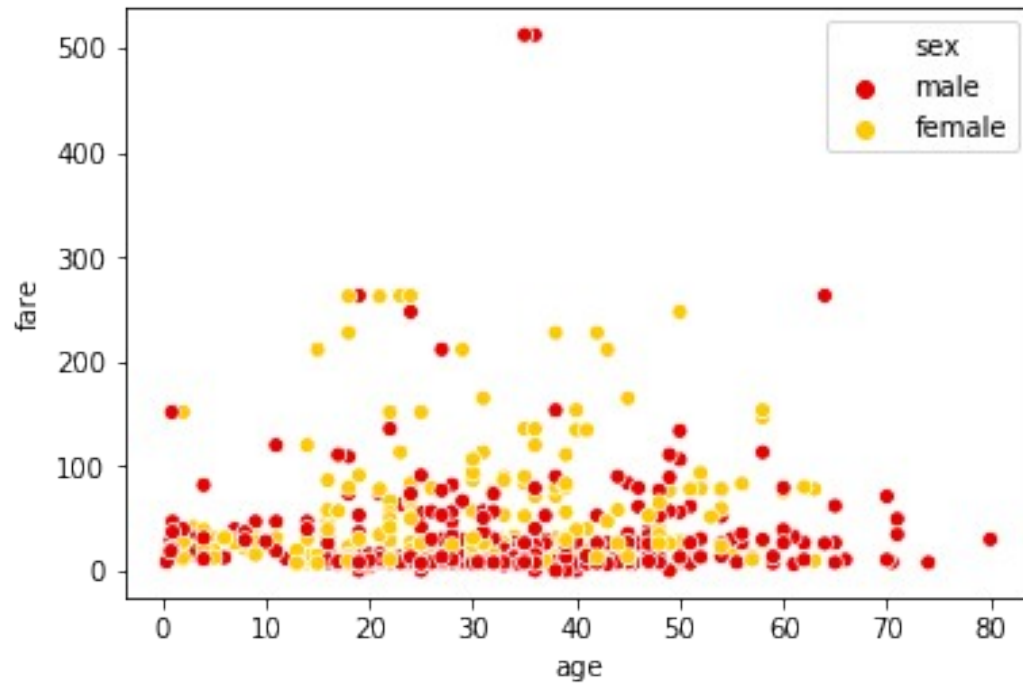
matplotlib.markers

```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, style =
"who", markers= ['3','1',3])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e726331e48>
```
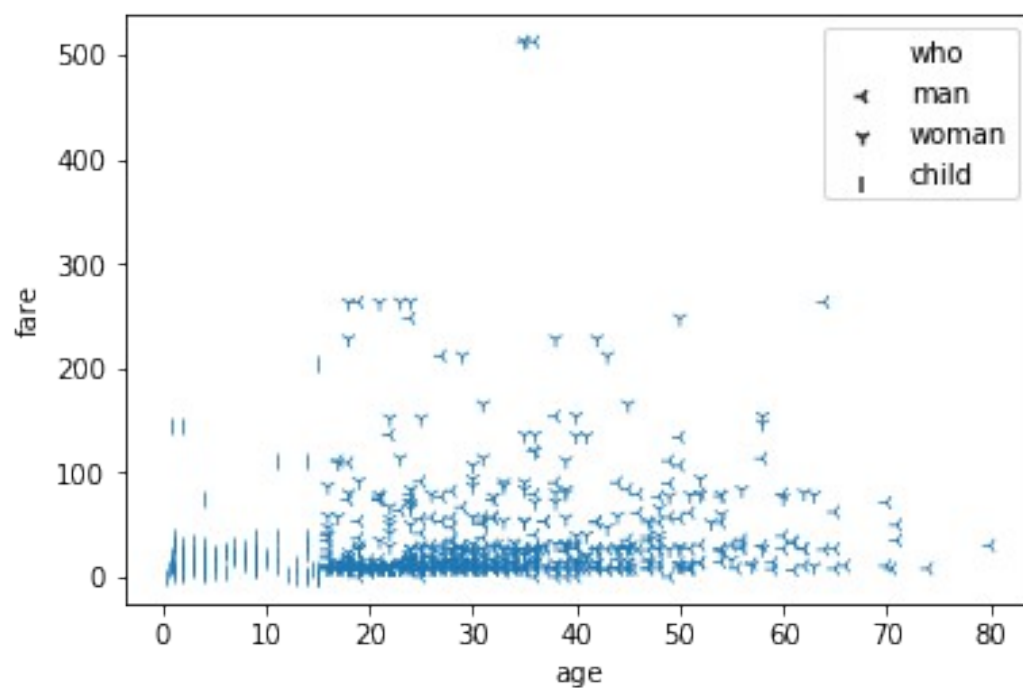
alpha
```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, alpha = 0.4)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e7263acda0>
```
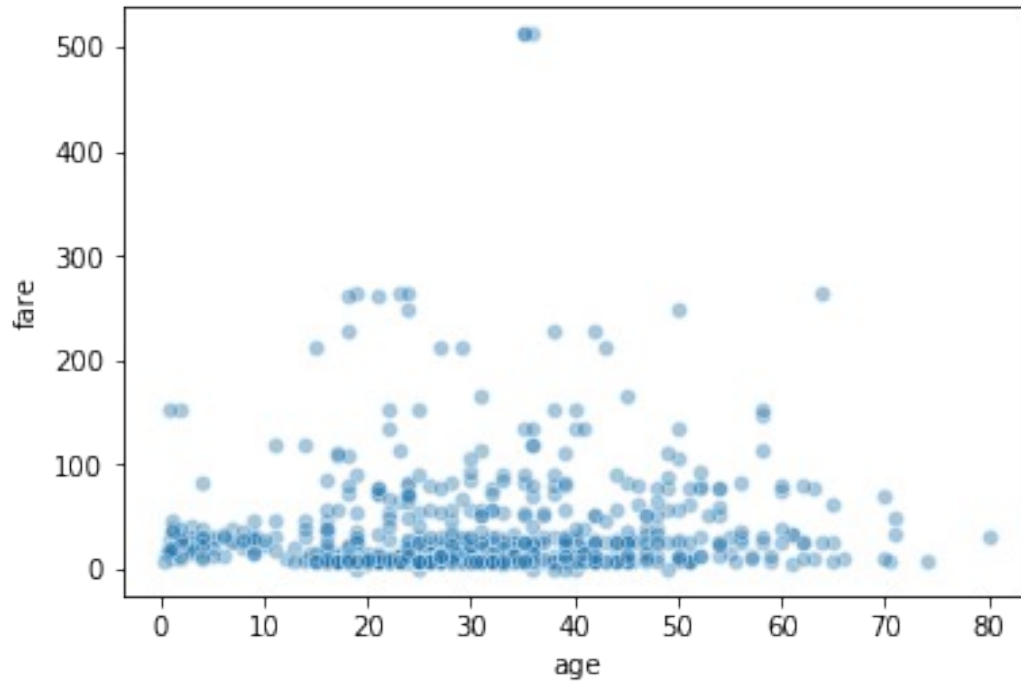

Legend
```
sns.scatterplot(x = "age", y = "fare", data = titanic_df, hue = "sex",
legend = False )
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e726410b38>
```
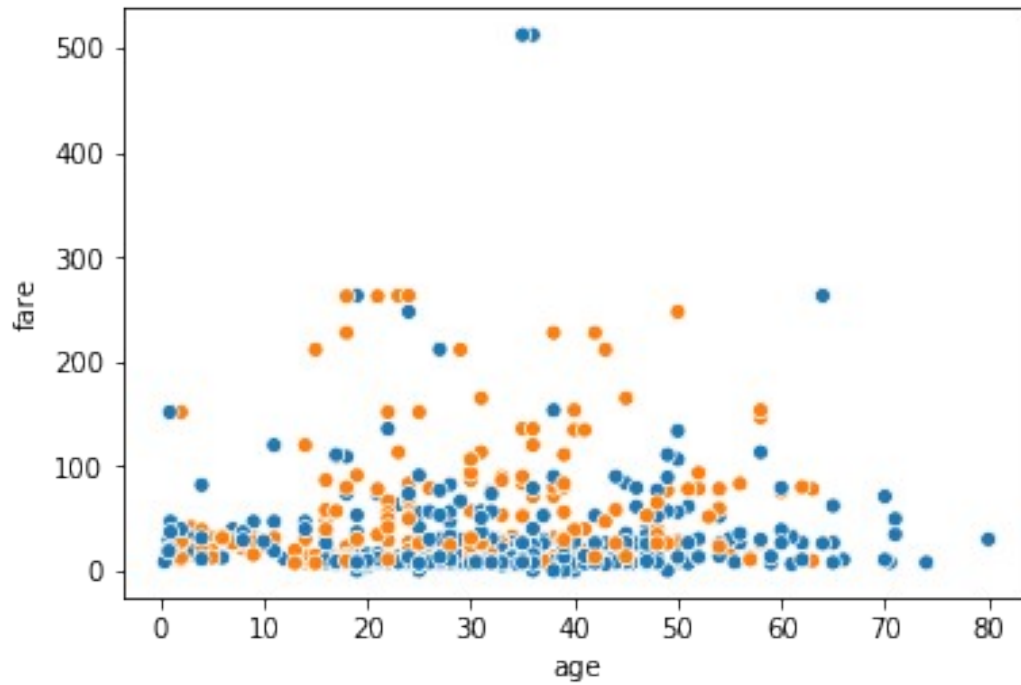
ax - axes

```
ax = sns.scatterplot(x = "age", y = "fare", data = titanic_df, )

ax.set(xlabel = "Age",
       ylabel = "Fare",
       title = "Seaborn Scatter Plot of Age and Fare")

[Text(0, 0.5, 'Fare'),
 Text(0.5, 0, 'Age'),
 Text(0.5, 1.0, 'Seaborn Scatter Plot of Age and Fare')]
```
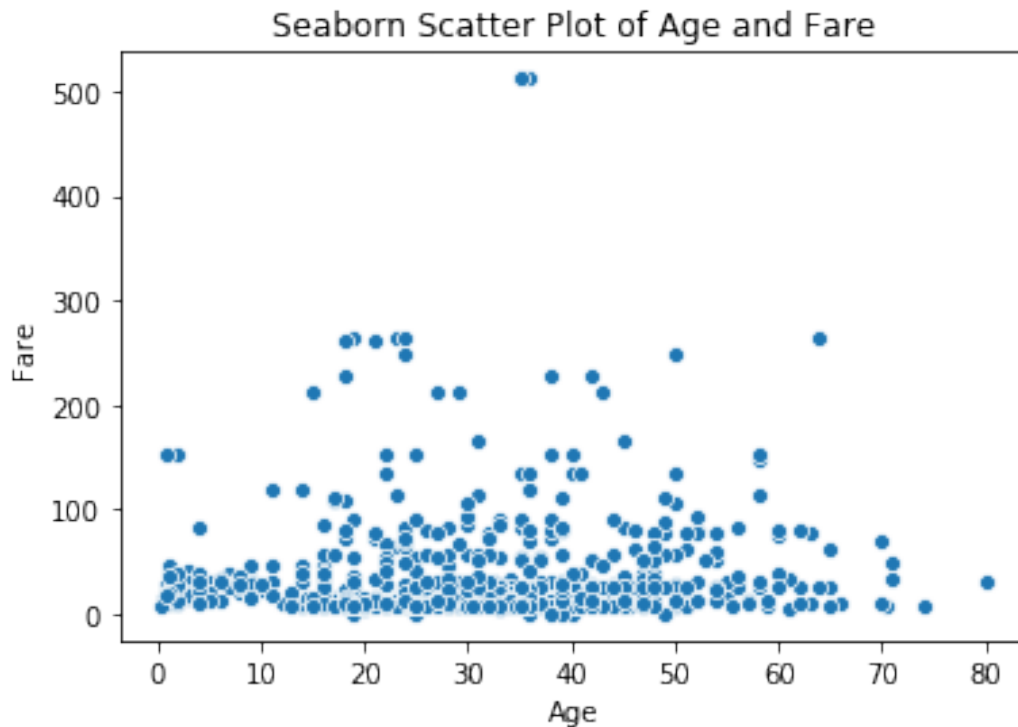
kwargs

```python
# scatter plot kwrgs (keyword arguments)
plt.figure(figsize=(16,9)) # figure size in 16:9 ratio

kwargs  =   {'edgecolor':"r",
             'facecolor':"k",
             'linewidth':2.7,
             'linestyle':'--',
            }

sns.scatterplot(x = "age", y = "fare", data = titanic_df, size =
"sex", sizes = (500, 1000), alpha = .7,   **kwargs)
#plt.scatter()
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x1e7264cbe80>
```
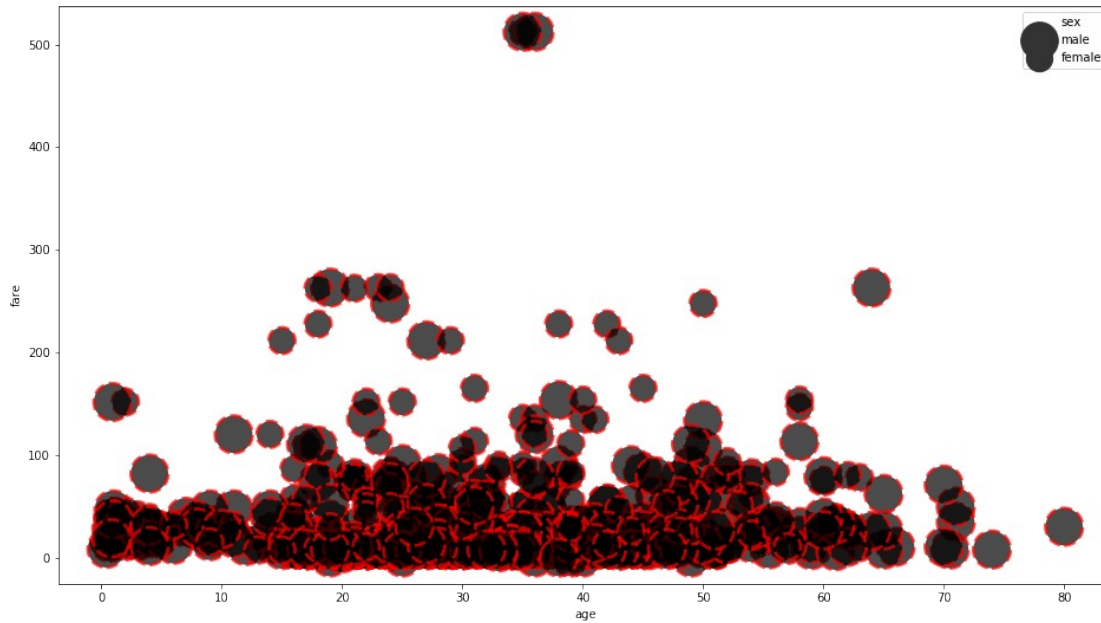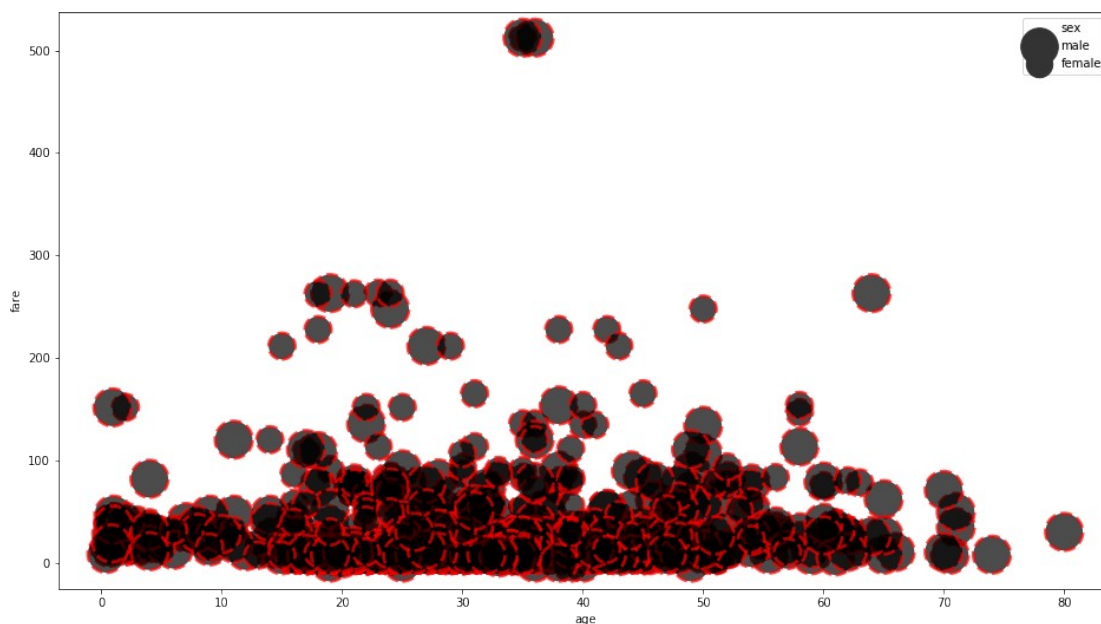
```
# scatter plot kwrgs (keyword arguments) parameter
plt.figure(figsize=(16,9)) # figure size in 16:9 ratio

sns.scatterplot(x = "age", y = "fare", data = titanic_df, size =
"sex", sizes = (500, 1000),alpha = .7,
                edgecolor='r',
                 facecolor="k",
                 linewidth=2.7,
                 linestyle='--',
                 )
```

<matplotlib.axes._subplots.AxesSubplot at 0x1e726530860>

Python Seaborn Scatter Plot Examples

Example 1

```python
# Seaborn Scatter Plot Example 1 created by www.IndianAIProduction.com

# Import libraries
import seaborn as sns # for Data visualization
import matplotlib.pyplot as plt # for Data visualization

sns.set() #  set background 'darkgrid'

#Import 'titanic' dataset from GitHub Seborn Repository
titanic_df = sns.load_dataset("titanic")

plt.figure(figsize = (16,9)) # figure size in 16:9 ratio

# create scatter plot
sns.scatterplot(x = "age", y = "fare", data = titanic_df, hue = "sex",
palette = "magma",size = "who",
                sizes = (50, 300))

plt.title("Scatter Plot of Age and Fare", fontsize = 25) # title of
scatter plot
plt.xlabel("Age", fontsize = 20) # x-axis label
plt.ylabel("Fare", fontsize = 20) # y-axis label
plt.savefig("Scatter Plot of Age and Fare") # save generated scatter
plot at program location
plt.show() # show scatter plot
```
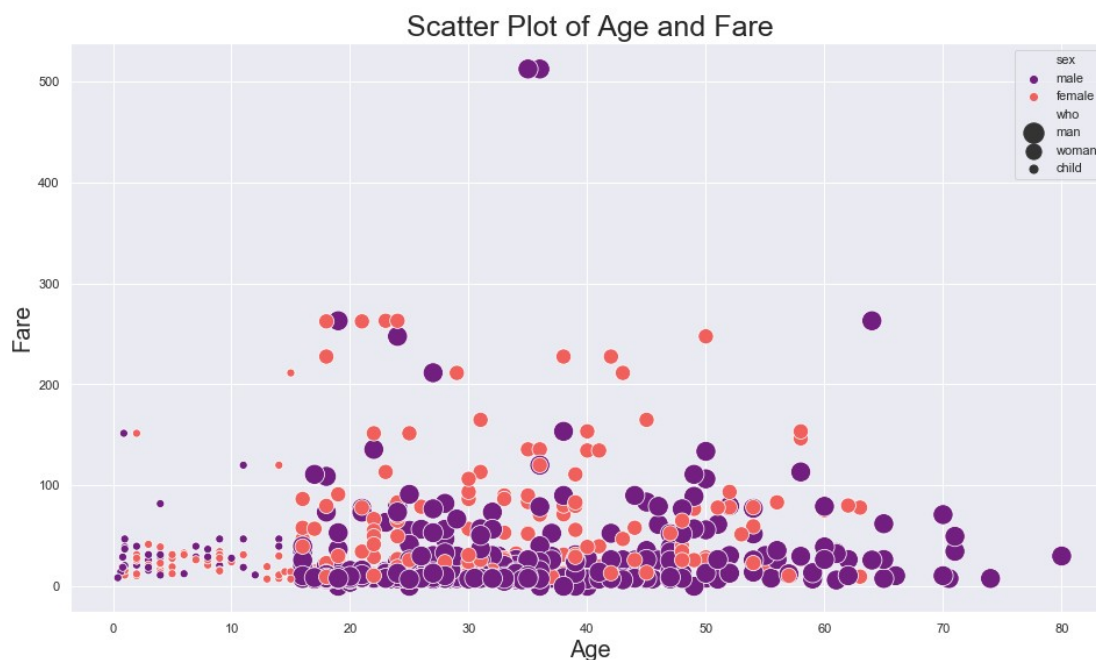
Example 2

```
# Seaborn Scatter Plot Example 2 created by www.IndianAIProduction.com

# Import libraries
import seaborn as sns # for Data visualization
import matplotlib.pyplot as plt # for Data visualization

sns.set() #  set background 'darkgrid'

#Import 'titanic' dataset from GitHub Seborn Repository
titanic_df = sns.load_dataset("titanic")

plt.figure(figsize = (16,9)) # figure size in 16:9 ratio

# create scatter plot
sns.scatterplot(x = "who", y = "fare", data = titanic_df, hue =
"alive", style = "alive", palette = "viridis",size = "who",
                sizes = (200, 500))

plt.title("Scatter Plot of Age and Fare", fontsize = 25) # title of
scatter plot
plt.xlabel("Age", fontsize = 20) # x-axis label
plt.ylabel("Fare", fontsize = 20) # y-axis label
plt.savefig("Scatter Plot of Age and Fare") # save generated scatter
plot at program location
plt.show() # show scatter plot
```
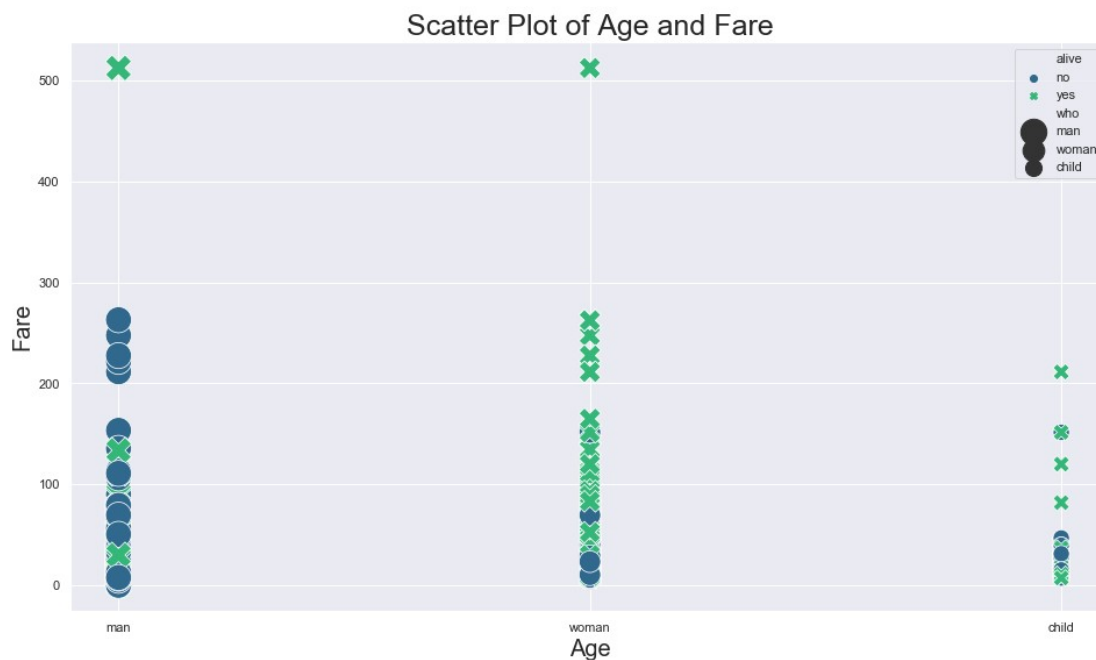

Scatter Plot of Age and Fare

Example 3

```python
tips_df = sns.load_dataset("tips")
tips_df
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
5	25.29	4.71	Male	No	Sun	Dinner	4
6	8.77	2.00	Male	No	Sun	Dinner	2
7	26.88	3.12	Male	No	Sun	Dinner	4
8	15.04	1.96	Male	No	Sun	Dinner	2
9	14.78	3.23	Male	No	Sun	Dinner	2
10	10.27	1.71	Male	No	Sun	Dinner	2
11	35.26	5.00	Female	No	Sun	Dinner	4
12	15.42	1.57	Male	No	Sun	Dinner	2
13	18.43	3.00	Male	No	Sun	Dinner	4
14	14.83	3.02	Female	No	Sun	Dinner	2
15	21.58	3.92	Male	No	Sun	Dinner	2
16	10.33	1.67	Female	No	Sun	Dinner	3
17	16.29	3.71	Male	No	Sun	Dinner	3
18	16.97	3.50	Female	No	Sun	Dinner	3
19	20.65	3.35	Male	No	Sat	Dinner	3
20	17.92	4.08	Male	No	Sat	Dinner	2
21	20.29	2.75	Female	No	Sat	Dinner	2
22	15.77	2.23	Female	No	Sat	Dinner	2
23	39.42	7.58	Male	No	Sat	Dinner	4
24	19.82	3.18	Male	No	Sat	Dinner	2
25	17.81	2.34	Male	No	Sat	Dinner	4
26	13.37	2.00	Male	No	Sat	Dinner	2
27	12.69	2.00	Male	No	Sat	Dinner	2
28	21.70	4.30	Male	No	Sat	Dinner	2
29	19.65	3.00	Female	No	Sat	Dinner	2
..	...	...	...	...	...	...	...
214	28.17	6.50	Female	Yes	Sat	Dinner	3
215	12.90	1.10	Female	Yes	Sat	Dinner	2
216	28.15	3.00	Male	Yes	Sat	Dinner	5
217	11.59	1.50	Male	Yes	Sat	Dinner	2
218	7.74	1.44	Male	Yes	Sat	Dinner	2
219	30.14	3.09	Female	Yes	Sat	Dinner	4
220	12.16	2.20	Male	Yes	Fri	Lunch	2
221	13.42	3.48	Female	Yes	Fri	Lunch	2
222	8.58	1.92	Male	Yes	Fri	Lunch	1
223	15.98	3.00	Female	No	Fri	Lunch	3
224	13.42	1.58	Male	Yes	Fri	Lunch	2
225	16.27	2.50	Female	Yes	Fri	Lunch	2
226	10.09	2.00	Female	Yes	Fri	Lunch	2
227	20.45	3.00	Male	No	Sat	Dinner	4

```
228        13.28  2.72     Male     No   Sat  Dinner    2
229        22.12  2.88   Female    Yes   Sat  Dinner    2
230        24.01  2.00     Male    Yes   Sat  Dinner    4
231        15.69  3.00     Male    Yes   Sat  Dinner    3
232        11.61  3.39     Male     No   Sat  Dinner    2
233        10.77  1.47     Male     No   Sat  Dinner    2
234        15.53  3.00     Male    Yes   Sat  Dinner    2
235        10.07  1.25     Male     No   Sat  Dinner    2
236        12.60  1.00     Male    Yes   Sat  Dinner    2
237        32.83  1.17     Male    Yes   Sat  Dinner    2
238        35.83  4.67   Female     No   Sat  Dinner    3
239        29.03  5.92     Male     No   Sat  Dinner    3
240        27.18  2.00   Female    Yes   Sat  Dinner    2
241        22.67  2.00     Male    Yes   Sat  Dinner    2
242        17.82  1.75     Male     No   Sat  Dinner    2
243        18.78  3.00   Female     No  Thur  Dinner    2

[244 rows x 7 columns]
```

```python
# Seaborn Scatter Plot Example 3 created by www.IndianAIProduction.com

# Import libraries
import seaborn as sns # for Data visualization
import matplotlib.pyplot as plt # for Data visualization

sns.set() #  set background 'darkgrid'

#Import 'tips' dataset from GitHub Seborn Repository
tips_df = sns.load_dataset("tips")

plt.figure(figsize = (16,9)) # figure size in 16:9 ratio

# create scatter plot
sns.scatterplot(x = "tip", y = "total_bill", data = tips_df, hue =
"sex", palette = "hot",
                size = "day",sizes = (50, 300), alpha = 0.7)

plt.title("Scatter Plot of Tip and Total Bill", fontsize = 25) # title
of scatter plot
plt.xlabel("Tip", fontsize = 20) # x-axis label
plt.ylabel("Total Bill", fontsize = 20) # y-axis label
plt.savefig("Scatter Plot of Tip and Total Bill") # save generated
scatter plot at program location
plt.show() # show scatter plot
```
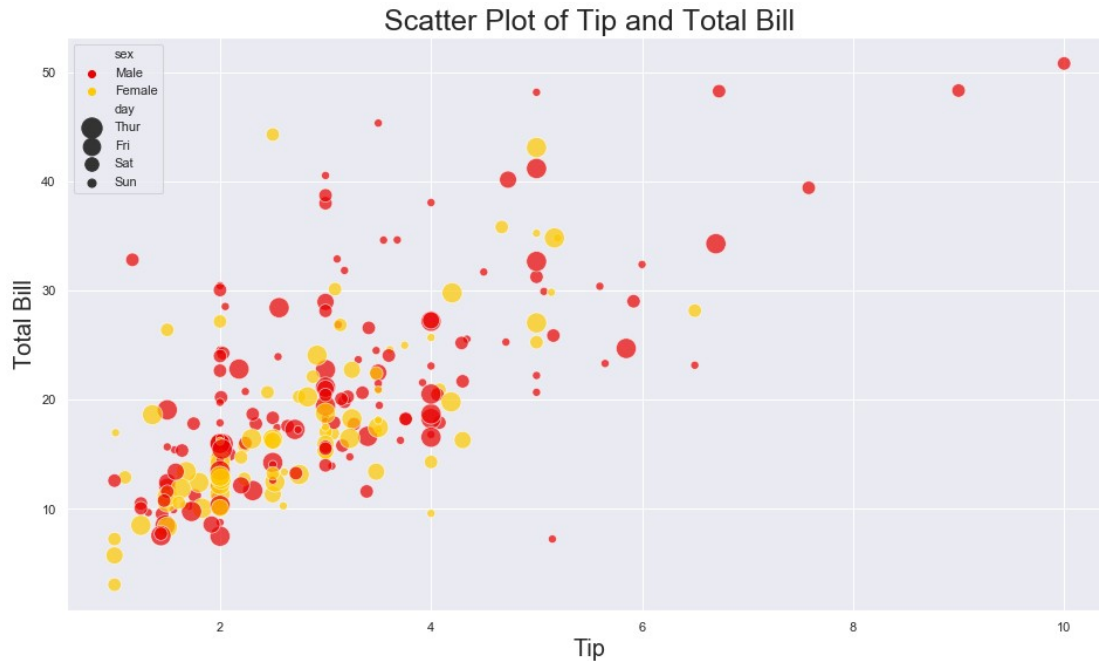
Scatter Plot of Tip and Total Bill

Example 4

```
# Seaborn Scatter Plot Example 4 created by www.IndianAIProduction.com

# Import libraries
import seaborn as sns # for Data visualization
import matplotlib.pyplot as plt # for Data visualization

sns.set() #  set background 'darkgrid'

#Import 'tips' dataset from GitHub Seborn Repository
tips_df = sns.load_dataset("tips")

plt.figure(figsize = (16,9)) # figure size in 16:9 ratio

# create scatter plot
kwargs   =   {'edgecolor':"w",
              'linewidth':2,
              'linestyle':':',
             }

sns.scatterplot(x = "tip", y = "total_bill", data = tips_df, hue =
"sex", palette = "ocean_r",
                size = "day",sizes = (200, 500), **kwargs)

plt.title("Scatter Plot of Tip and Total Bill", fontsize = 25) # title
of scatter plot
plt.xlabel("Tip", fontsize = 20) # x-axis label
plt.ylabel("Total Bill", fontsize = 20) # y-axis label
plt.savefig("Scatter Plot of Tip and Total Bill") # save generated
```
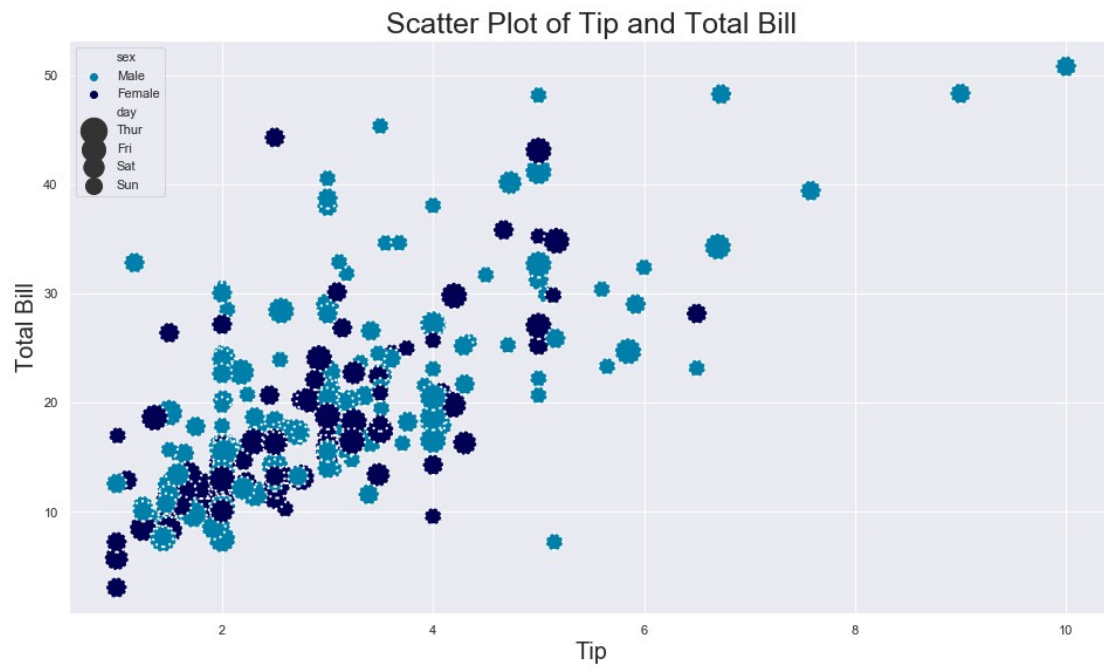
scatter plot at program location
```python
plt.show() # show scatter plot
```

Scatter Plot of Tip and Total Bill


```python
print("Thank you  -:)")
```

```
Thank you  -:)
```