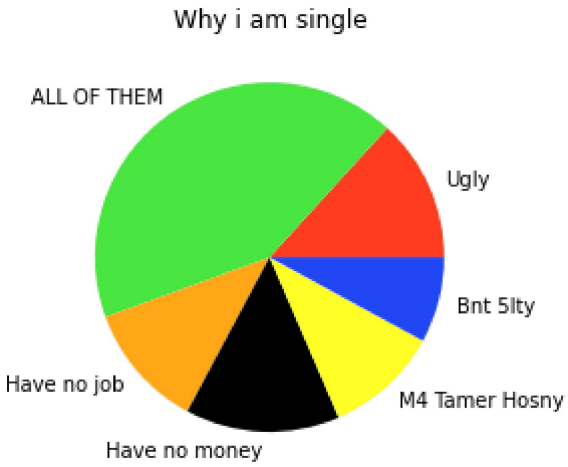
In [54]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
mangas =['Ugly','ALL OF THEM', 'Have no job', 'Have no money','M4 Tamer Hosny', 'Bnt 5lty']
sells = [250,800,220,270,200,150]
plt.pie(sells, labels = mangas ,colors=['#FE3C1E','#48E43F','#FFA717','#000000','#FFFE25','#2247F4'])
plt.title("Why i am single")
plt.show
```

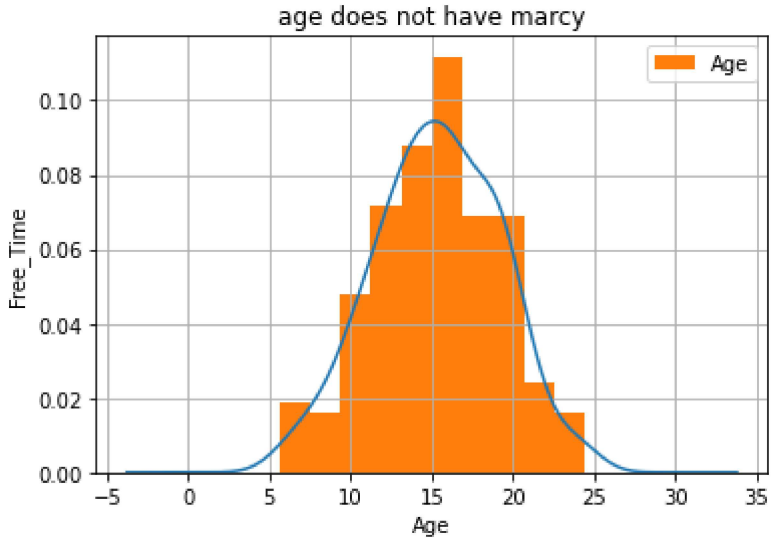
Out[54]: <function matplotlib.pyplot.show(close=None, block=None)>



In [49]:
```
Free_Time=pd.DataFrame(np.random.normal(loc=16,scale=3.8,size=(200,1)),columns=["Age"])
print(Free_Time.agg(['min','max','mean','std']).round(decimals=2))
fig,ax = plt.subplots()
Free_Time.plot.kde(ax=ax,legend=False,title="age does not have marcy")
Free_Time.plot.hist(density=True,ax=ax)
ax.set_ylabel('Free_Time')# mlutiply by 10
ax.set_xlabel("Age")
```

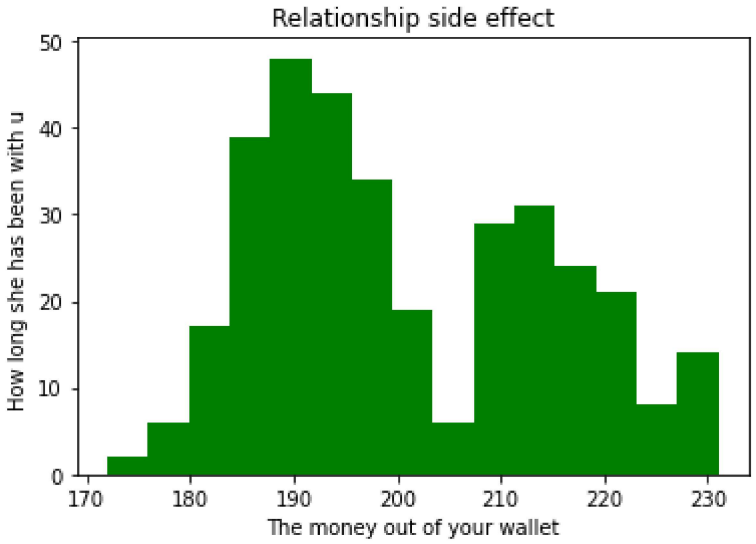
```
ax.grid()
plt.show()
```

```
        Age
min    5.61
max   24.40
mean  15.32
std    3.85
```



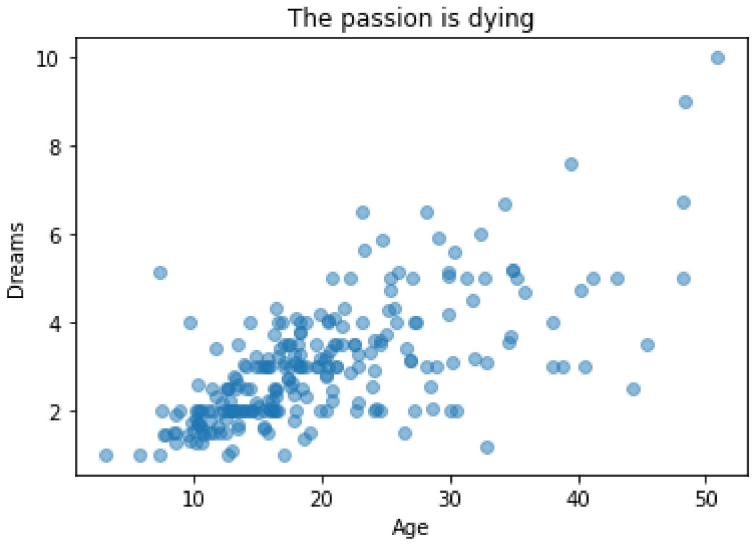
In [68]:

```
love_is_bad_for_your_health = sns.load_dataset("penguins")
ax = plt.gca()
ax.hist(love_is_bad_for_your_health['flipper_length_mm'],color='green',alpha=1,bins=15)
plt.title('Relationship side effect')
plt.xlabel('The money out of your wallet')
plt.ylabel('How long she has been with u ')
plt.show()
```



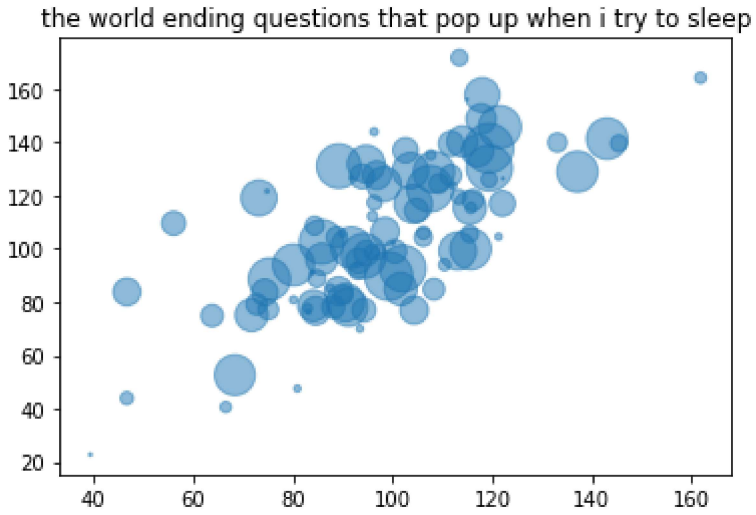
In [70]:

```
dreams=sns.load_dataset('tips')
plt.scatter(dreams['total_bill'], dreams['tip'], alpha=0.5)
plt.title("The passion is dying")
plt.xlabel("Age")
plt.ylabel('Dreams')
plt.show()
```



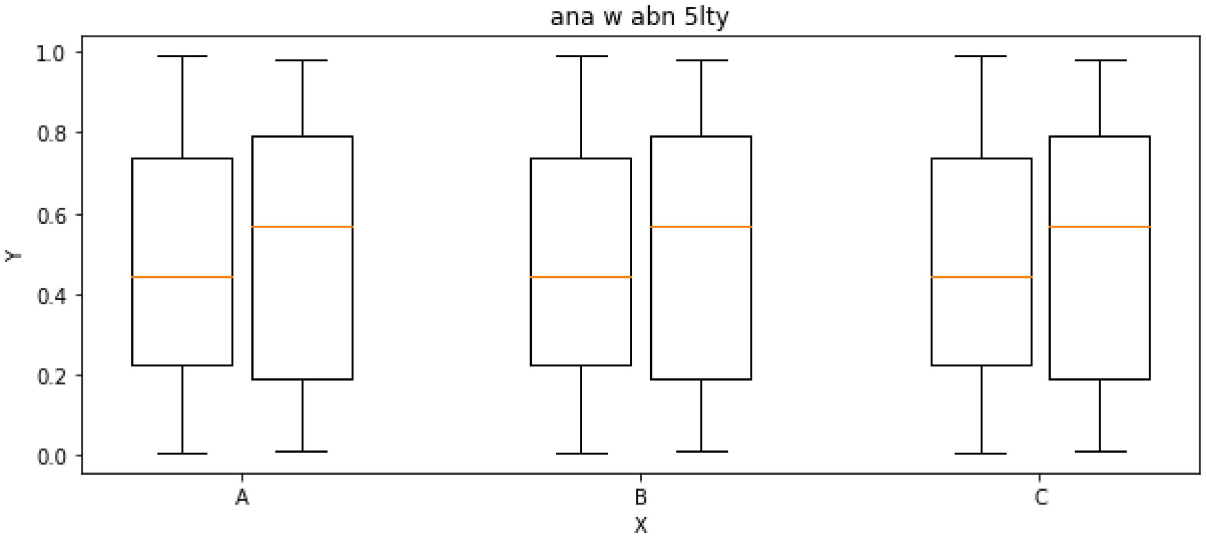
In [92]:

```
np.random.seed(70)
H = 100
x =np.random.normal(100,20,H)
y= x+np.random.normal(7,18,H)
colors=np.random.rand(H)
area=(25*np.random.rand(H))**2
Df=pd.DataFrame({'X':x,'Y':y,'Colors':colors,'bubble_size':area})
plt.scatter('X','Y',s='bubble_size',alpha=0.5,data=Df)
plt.title("the world ending questions that pop up when i try to sleep")
plt.show()
```



In [123…

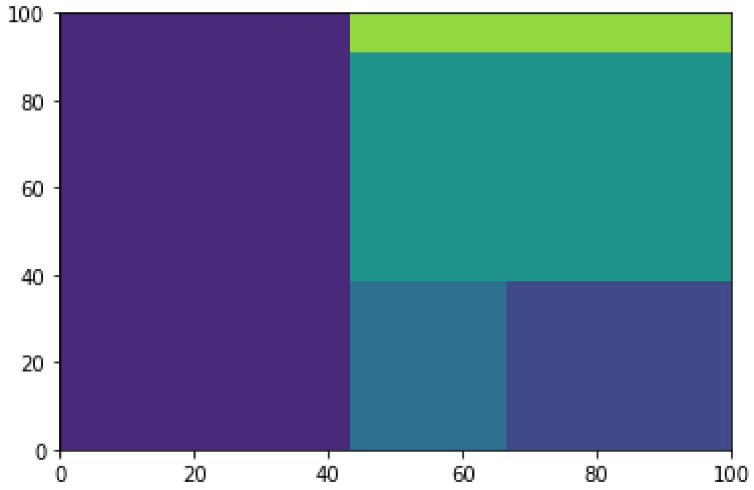
```
Df1 = [list(np.random.rand(50))]*3
Df2 = [list(np.random.rand(50))]*3
tick = ["A", "B", "C"]
plt.figure(figsize=(10, 4))
pl1 = plt.boxplot(Df1, positions=np.array([2,4,6])-np.array([.3]), sym=" ")
pl2 = plt.boxplot(Df2, positions=np.array([2,4,6])+np.array([.3]), sym=" ")
plt.xticks([2,4,6], tick)
plt.title("ana w abn 5lty")
plt.xlabel("X")
plt.ylabel("Y")
plt.show()
```



In [119…

```
import sys
!{sys.executable} -m pip install squarify
import squarify
Zizes=[77,16,23,53,9]
squarify.plot(Zizes)
plt.show()
```

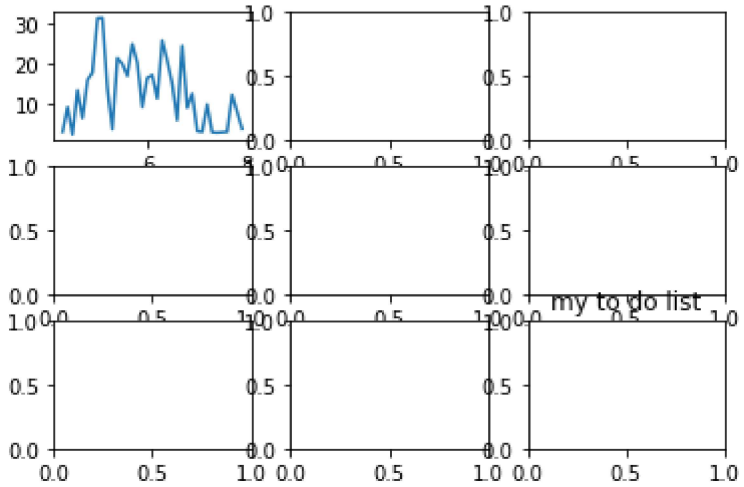
```
Requirement already satisfied: squarify in c:\users\zingy\anaconda3\lib\site-packages (0.4.3)
```



In [128…

```
from scipy import stats
AS = sns.load_dataset("iris")
AS = AS.groupby('sepal_length')['sepal_width'].sum().to_frame().reset_index()
fig,ax = plt.subplots(nrows=3,ncols=3)
ax=AS.plot('sepal_length', 'sepal_width', ax=ax[0,0])
ax.get_legend().remove()
plt.title("my To Do List")
```

Out[128… Text(0.5, 1.0, 'my to do list')



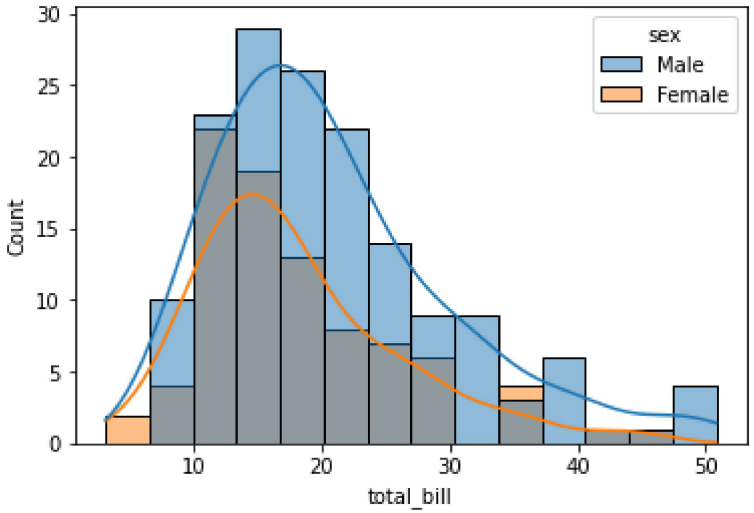
In [1]:

```
#secand_try
```

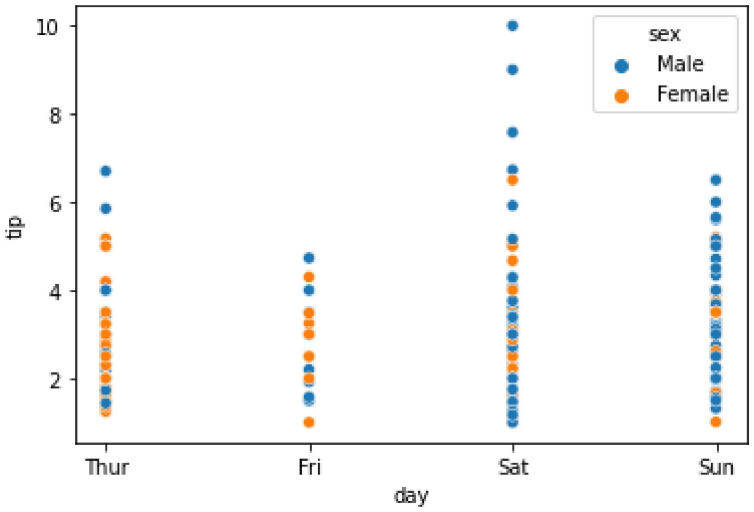
In [4]:

```
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd


data = sns.load_dataset("tips")
sns.histplot(x='total_bill', data=data, kde=True, hue='sex')
plt.show()
```



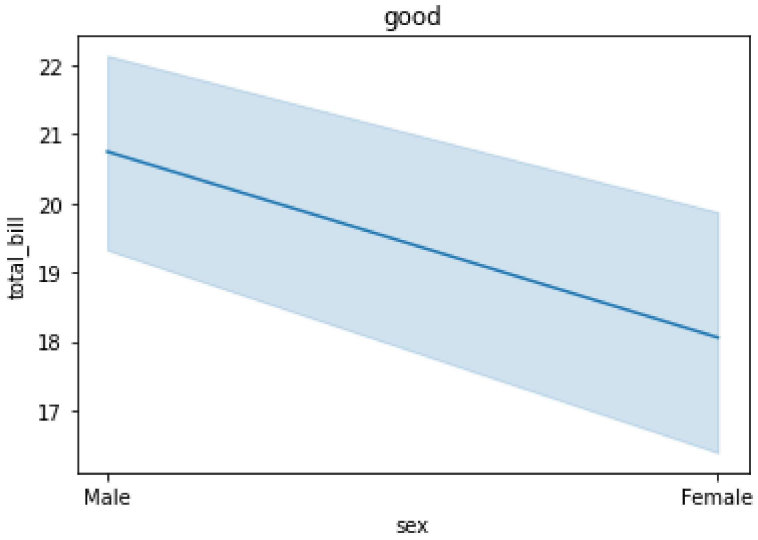
In [5]:
```
sns.scatterplot(x='day', y='tip', data=data,
                hue='sex')
plt.show()
```



In [6]:
```
sns.lineplot(x="sex", y="total_bill", data=data)
```

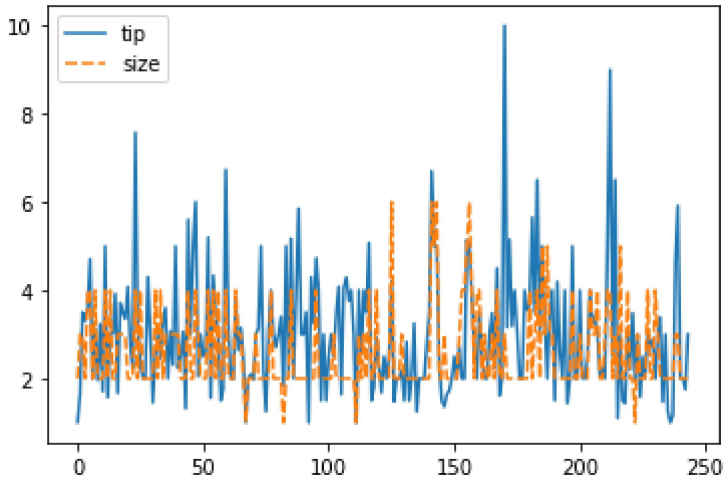
```
# setting the title using Matplotlib
plt.title('good')


plt.show()
```



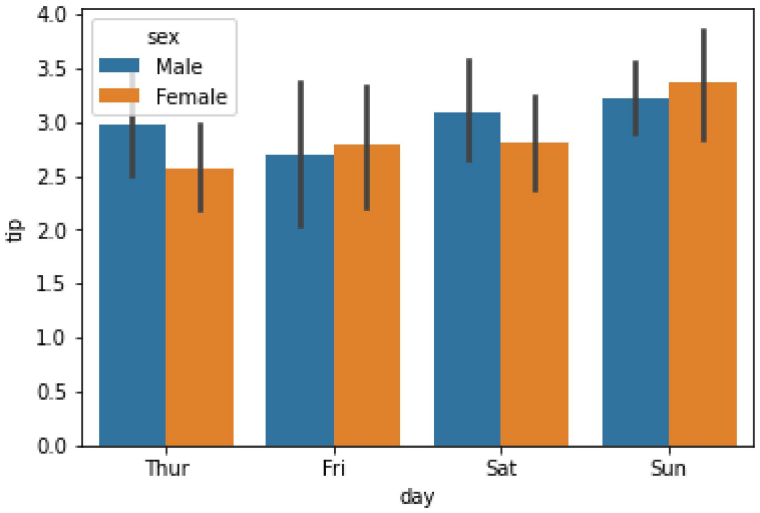
In [7]:

```
sns.lineplot(data=data.drop(['total_bill'], axis=1))
plt.show()
```



In [8]:
```
sns.barplot(x='day',y='tip', data=data,
            hue='sex')


plt.show()
```



In [9]:
```
from bokeh.plotting import figure, output_file, show
from bokeh.palettes import magma
graph = figure(title = "Bokeh Scatter Graph")
color = magma(256)
graph.scatter(data['total_bill'], data['tip'], color=color)
show(graph)
```

```
2022-11-04 15:51:11,255 [10860] WARNING  py.warnings:109: [JupyterRequire] BokehUserWarning: ColumnDataSource's columns m
ust be of the same length. Current lengths: ('fill_color', 256), ('x', 244), ('y', 244)

2022-11-04 15:51:11,256 [10860] WARNING  py.warnings:109: [JupyterRequire] BokehUserWarning: ColumnDataSource's columns m
ust be of the same length. Current lengths: ('fill_color', 256), ('line_color', 256), ('x', 244), ('y', 244)
```

In [ ]:
```

```