

```
In [1]: #Seaborn
import seaborn as sns
%matplotlib inline
#lets use the sample dataset of seaborn, tips..
tips = sns.load_dataset('tips')
tips.head()
#7 columns, with total bill, tip, sex, smoker, day, time and size of the part...
```

```
Out[1]:
```

	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

```
In [2]: tips.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 244 entries, 0 to 243
Data columns (total 7 columns):
 #   Column        Non-Null Count  Dtype  
---  -
 0   total_bill    244 non-null    float64
 1   tip           244 non-null    float64
 2   sex           244 non-null    category
 3   smoker        244 non-null    category
 4   day           244 non-null    category
 5   time          244 non-null    category
 6   size          244 non-null    int64   
dtypes: category(4), float64(2), int64(1)
memory usage: 7.4 KB
```

```
In [3]: sns.distplot(tips['total_bill'])
```

```
C:\Users\UD SYSTEMS\AppData\Local\Temp\ipykernel_25096\4271412032.py:1: UserWarning:
```

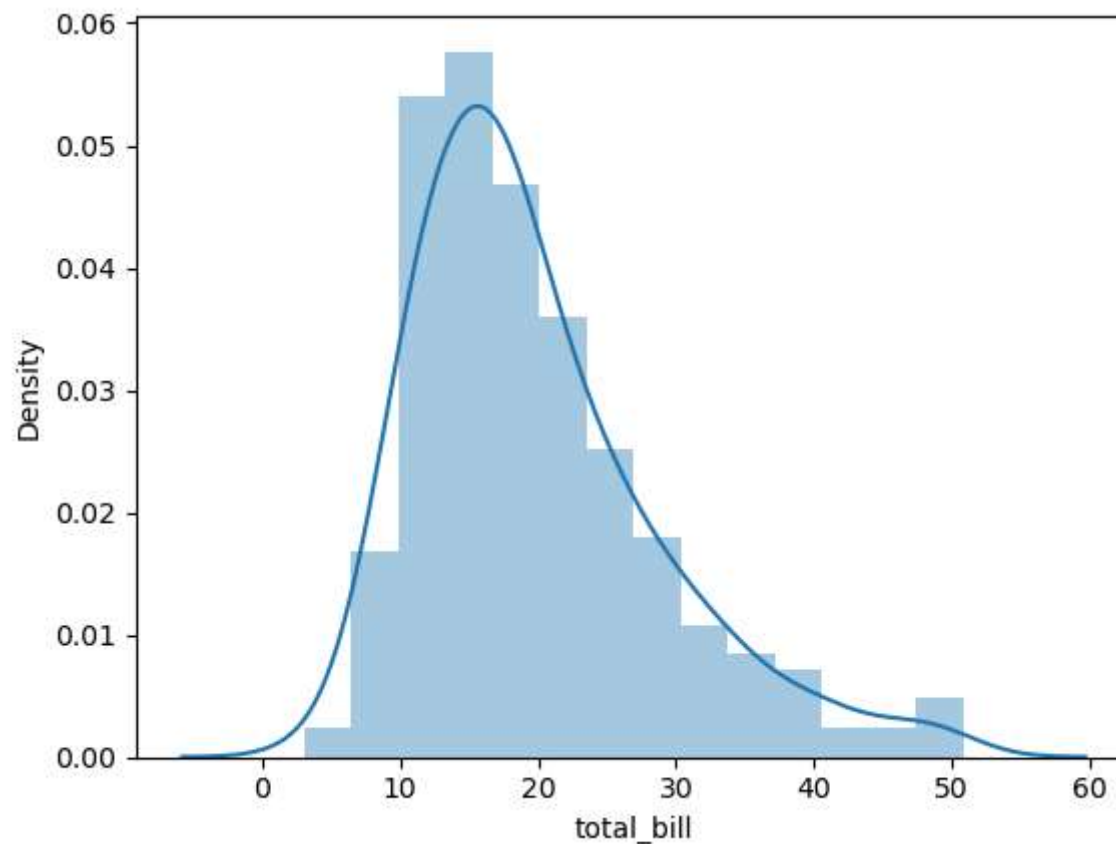
```
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
```

Please adapt your code to use either ``displot`` (a figure-level function with similar flexibility) or ``histplot`` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(tips['total_bill'])
```

```
Out[3]: <Axes: xlabel='total_bill', ylabel='Density'>
```



```
In [7]: #histogram of where your total bill stands,  
sns.distplot(tips['total_bill'],kde=False,bins=100)  
#use bins=30 or 100
```

```
#Usage of bins shows how many samples you are plotting on the screen...  
#Distribution plot, essentially is a histogram...
```

C:\Users\UD SYSTEMS\AppData\Local\Temp\ipykernel\_25096\4284841881.py:2: UserWarning:

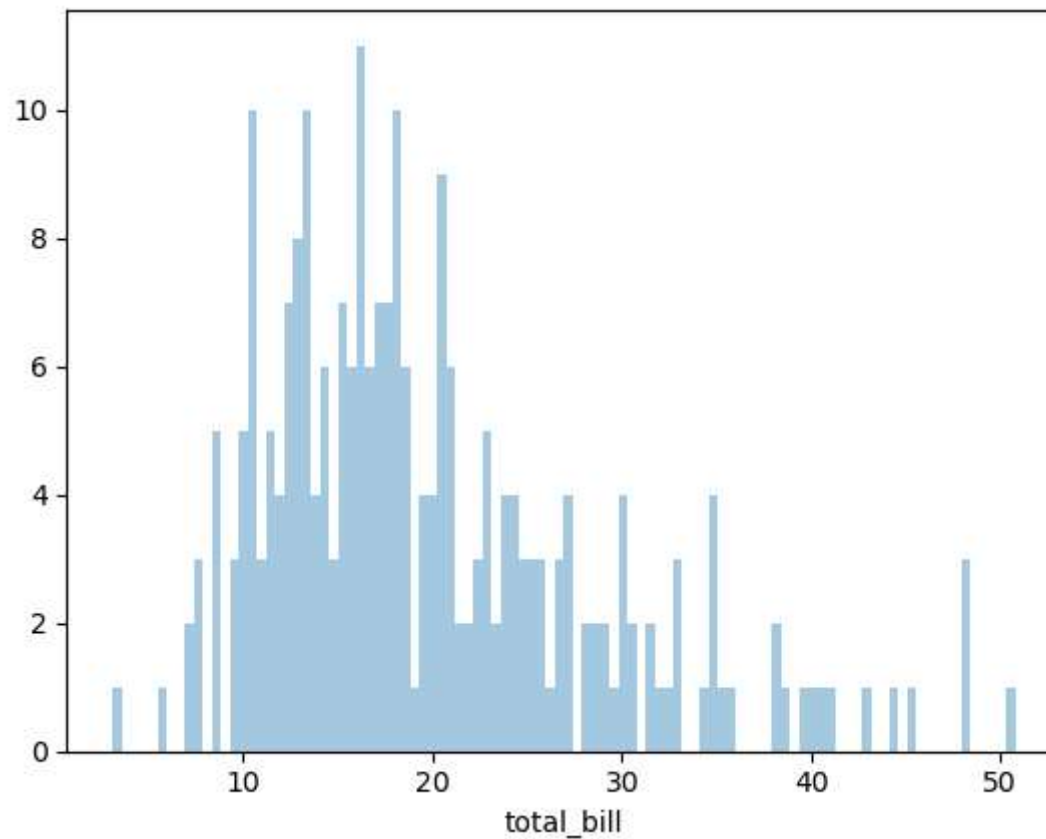
``distplot`` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either ``displot`` (a figure-level function with similar flexibility) or ``histplot`` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see  
<https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(tips['total_bill'],kde=False,bins=100)
```

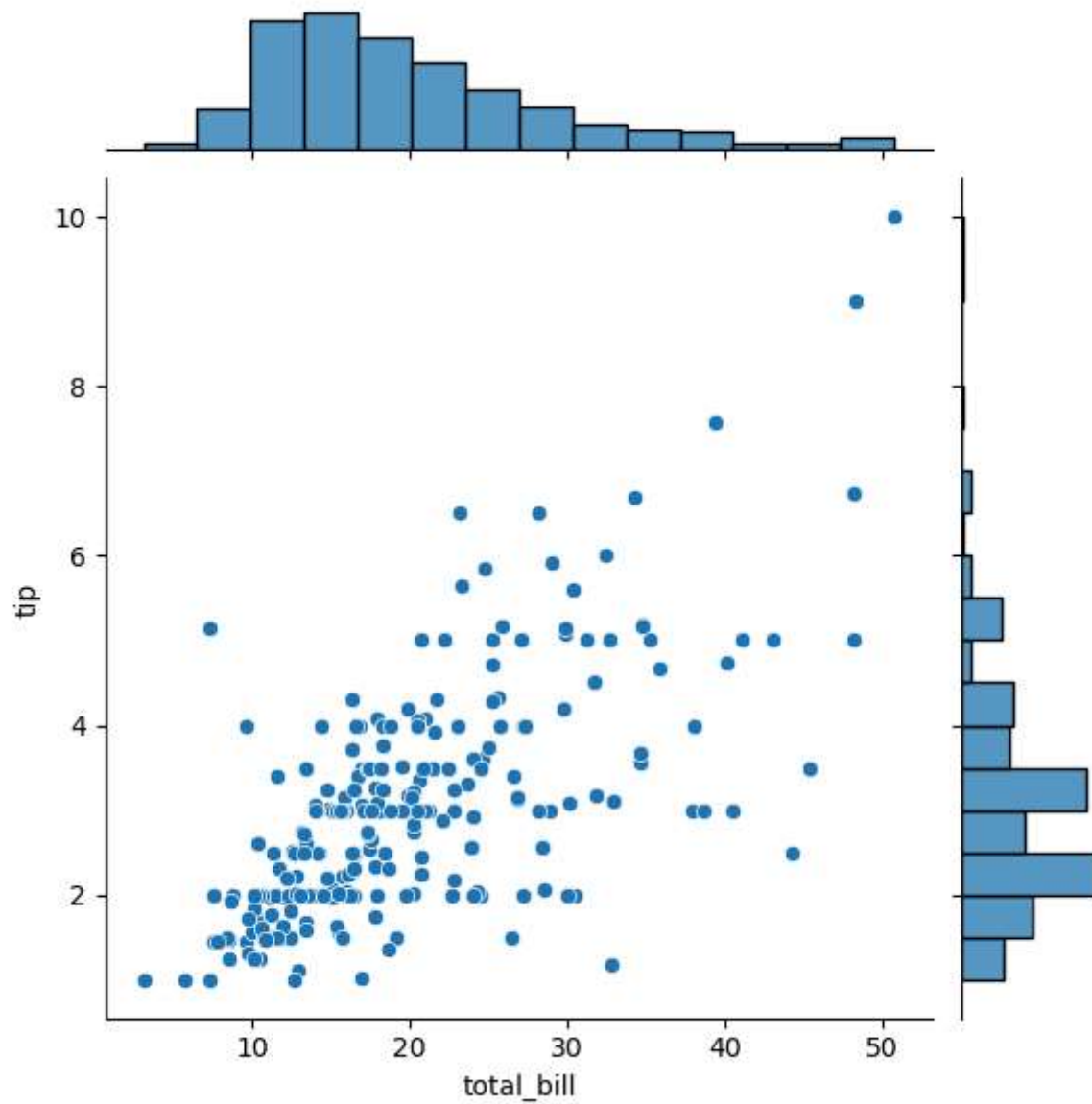
Out[7]: <Axes: xlabel='total\_bill'>



```
In [8]: # Joint PlotDistribution plot on bivariant data
#pass x variable and y variable and dataset as tips
#x and y comparision, distribution of totalbill over tip

sns.jointplot(x='total_bill', y = 'tip', data=tips)
#kind plot will provide you different kind of scatter plot
#by default it is circles, hex provides hexagon
#kind = reg, provides regression values
```

```
Out[8]: <seaborn.axisgrid.JointGrid at 0x2306f02cfd0>
```



```
In [9]: #additional parameter - what is happening in scatter  
#hex=> hexagon distribution, darker and lighter  
sns.jointplot(x='total_bill', y = 'tip', data=tips, kind='hex')
```

```
Out[9]: <seaborn.axisgrid.JointGrid at 0x2306f3f2790>
```

