Python for Data Science

Style and Color

jupyter seaborn (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help | Python [conda env:py35]

Seaborn

In [105]:
```
import seaborn as sns
%matplotlib inline
tips = sns.load_dataset('tips')
tips.head()
```

Out[105]:

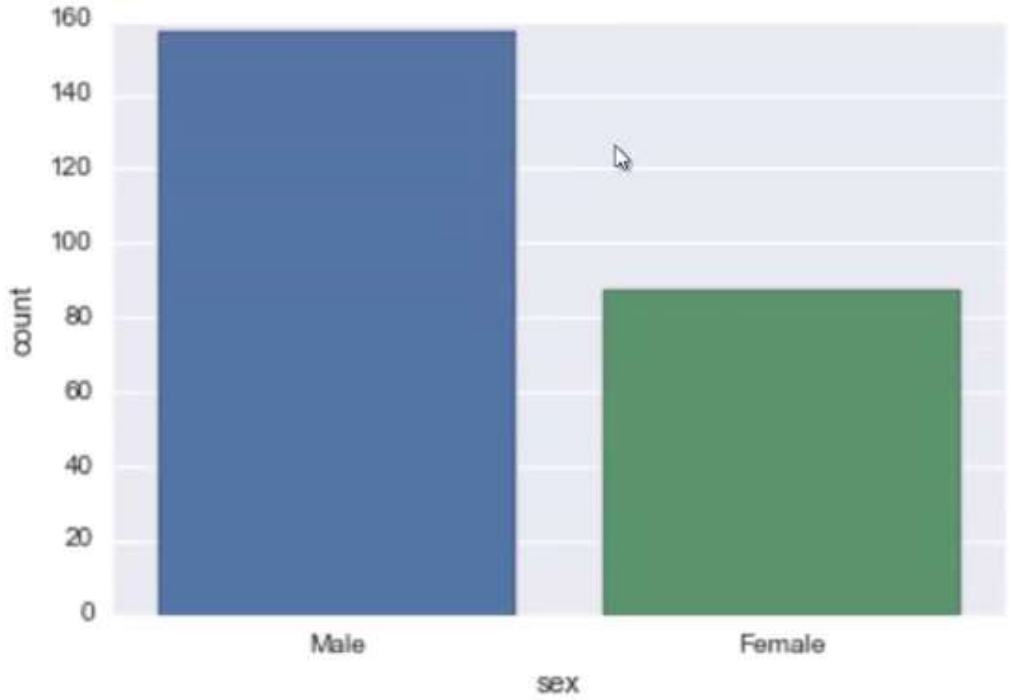
	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

In [ ]:

4	24.59	3.61	Female	No	Sun	Dinner	4

In [118]:
```
sns.countplot(x='sex',data=tips)
```

Out[118]: <matplotlib.axes._subplots.AxesSubplot at 0x254d7c9c438>



In [ ]:

seaborn

localhost:8888/notebooks/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-for-Data-Visualization/Matplotlib/seaborn.ipynb

jupyter seaborn (unsaved changes)

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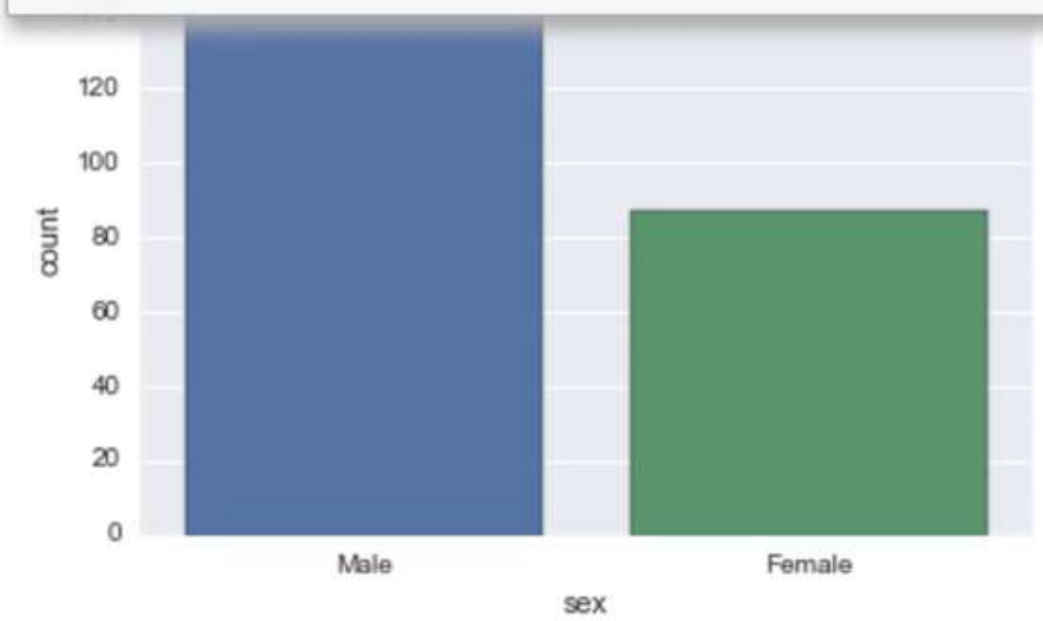
4	24.59	3.61	Female	No	Sun	Dinner	4

In [118]:
```
sns.set_style()
sns.countplot(x='sex', data=tips)
```

Out[118]:

```
Signature: sns.set_style(style=None, rc=None)
Docstring:
Set the aesthetic style of the plots.
```



In [ ]:

seaborn

localhost:8888/notebooks/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-for-Data-Visualization/Matplotlib/seaborn.ipynb

jupyter seaborn (unsaved changes)

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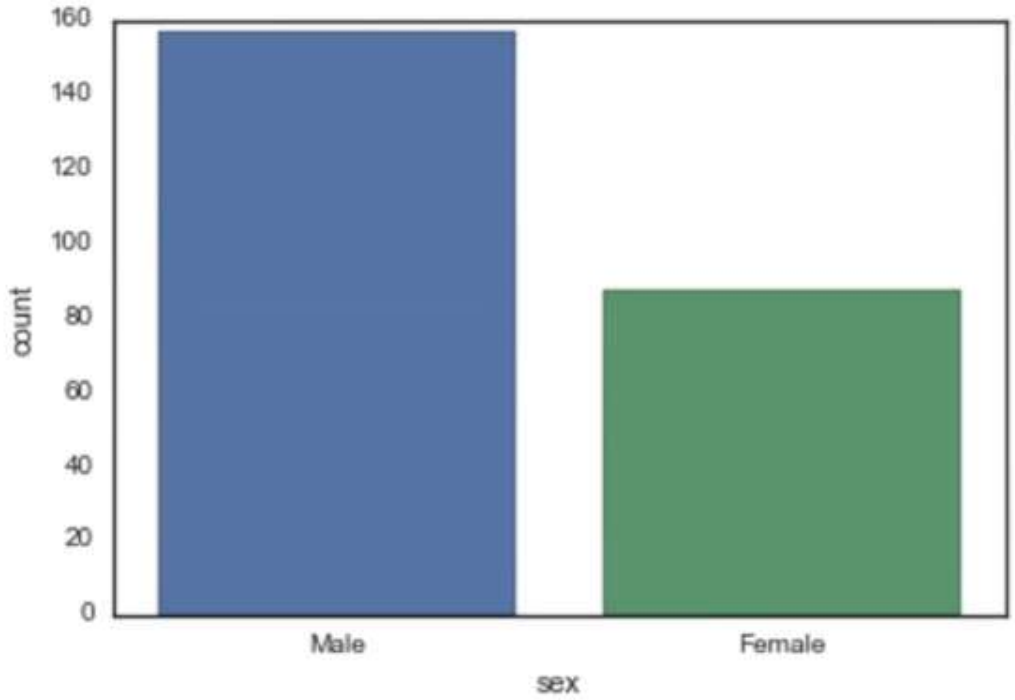
In [119]:
```
sns.set_style('white')
sns.countplot(x='sex',data=tips)
```

Out[119]: <matplotlib.axes._subplots.AxesSubplot at 0x254d7b9bbe0>



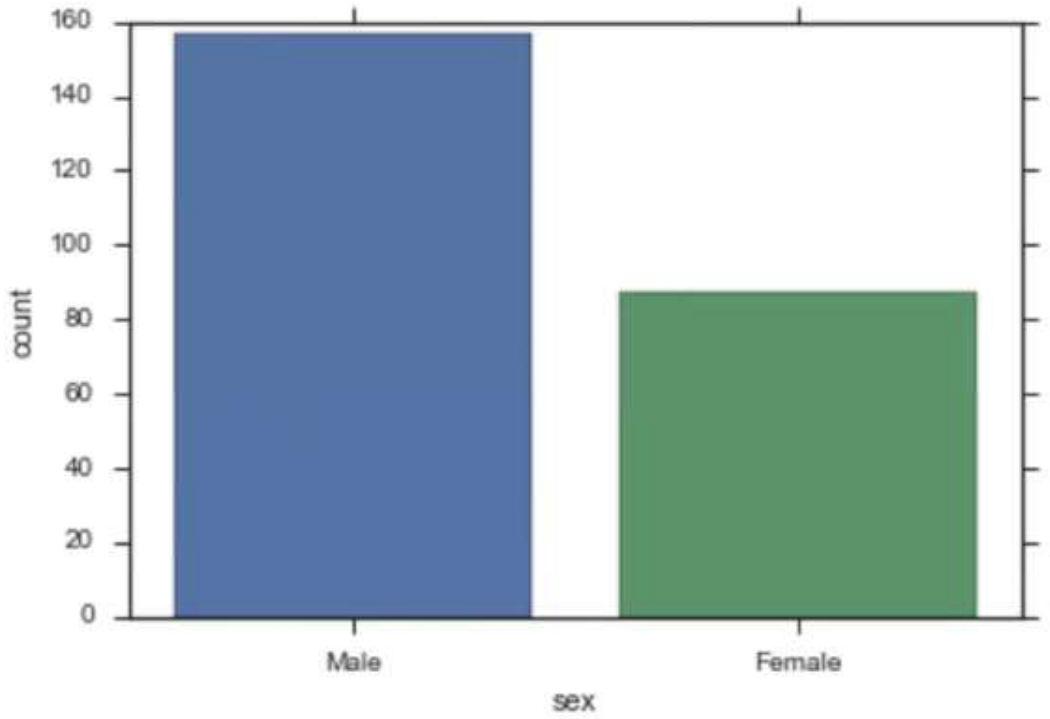
In [ ]:

jupyter seaborn (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help | Python [conda env:py35]

In [120]:
```
sns.set_style('ticks')
sns.countplot(x='sex',data=tips)
```

Out[120]: <matplotlib.axes._subplots.AxesSubplot at 0x254d7bf5d30>



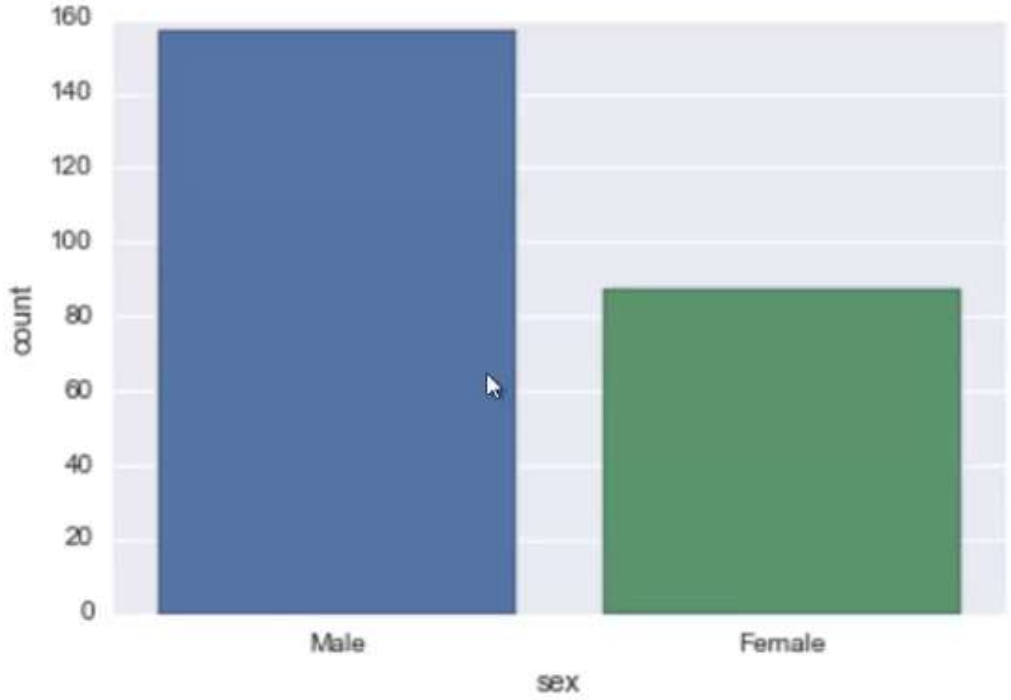
In [ ]:

jupyter seaborn (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help | Python [conda env:py35]

```
sns.countplot(x='sex',data=tips)
```

Out[121]: <matplotlib.axes._subplots.AxesSubplot at 0x254d7c51630>



In [ ]:

jupyter seaborn (unsaved changes)

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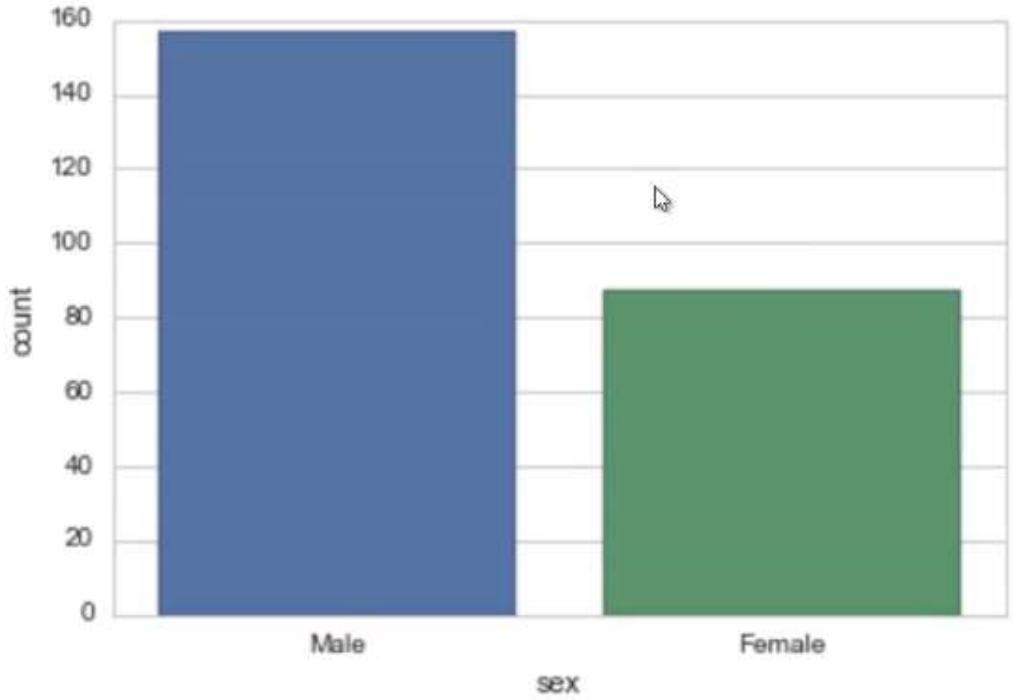
In [122]:
```
sns.set_style('whitegrid')
sns.countplot(x='sex',data=tips)
```

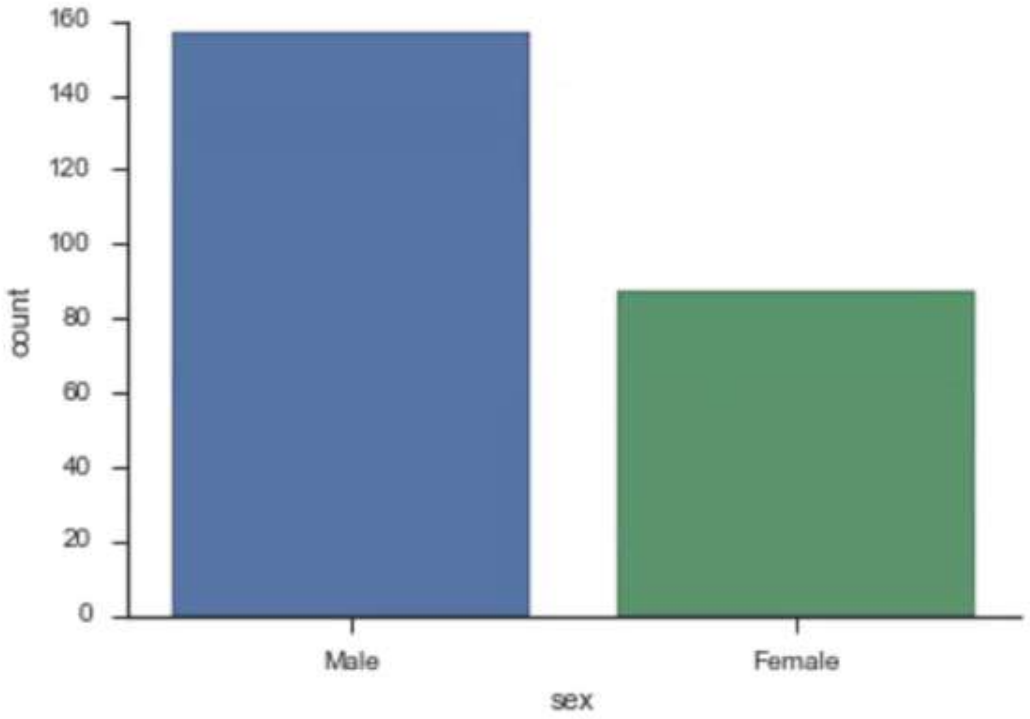
Out[122]: <matplotlib.axes._subplots.AxesSubplot at 0x254d7d33588>



In [ ]:

jupyter seaborn (unsaved changes)

In [124]:
```
sns.set_style('ticks')
sns.countplot(x='sex',data=tips)
sns.despine()
```



In [ ]:

seaborn

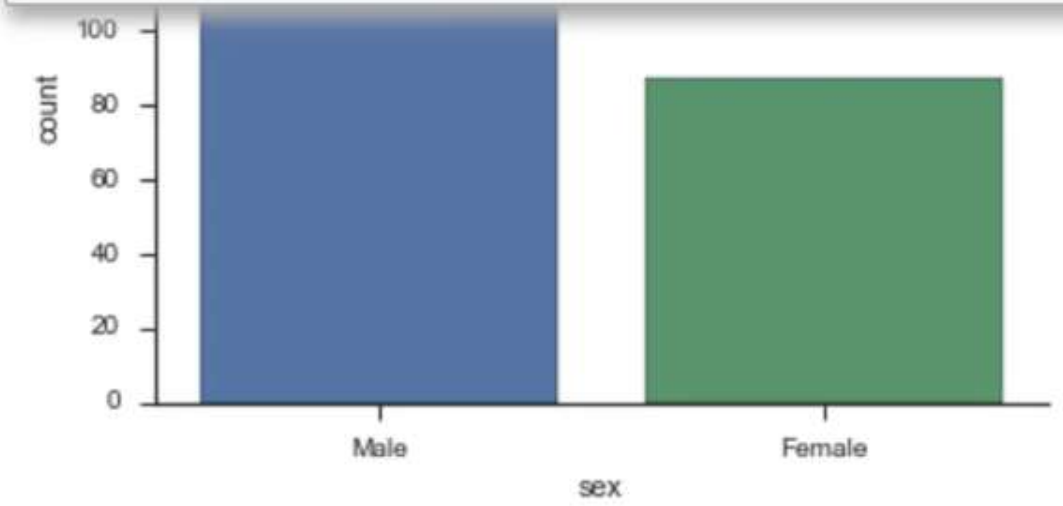
localhost:8888/notebooks/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-for-Data-Visualization/Matplotlib/seaborn.ipynb

jupyter seaborn (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Python [conda env:py35]

In [124]:
```
sns.set_style('ticks')
sns.countplot(x='sex',data=tips)
sns.despine()
```

```
Signature: sns.despine(fig=None, ax=None, top=True, right=True, left=False, bottom=False,
offset=None, trim=False)
Docstring:
Remove the top and right spines from plot(s).
```



In [ ]:

seaborn

localhost:8888/notebooks/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-for-Data-Visualization/Matplotlib/seaborn.ipynb

jupyter seaborn (unsaved changes)

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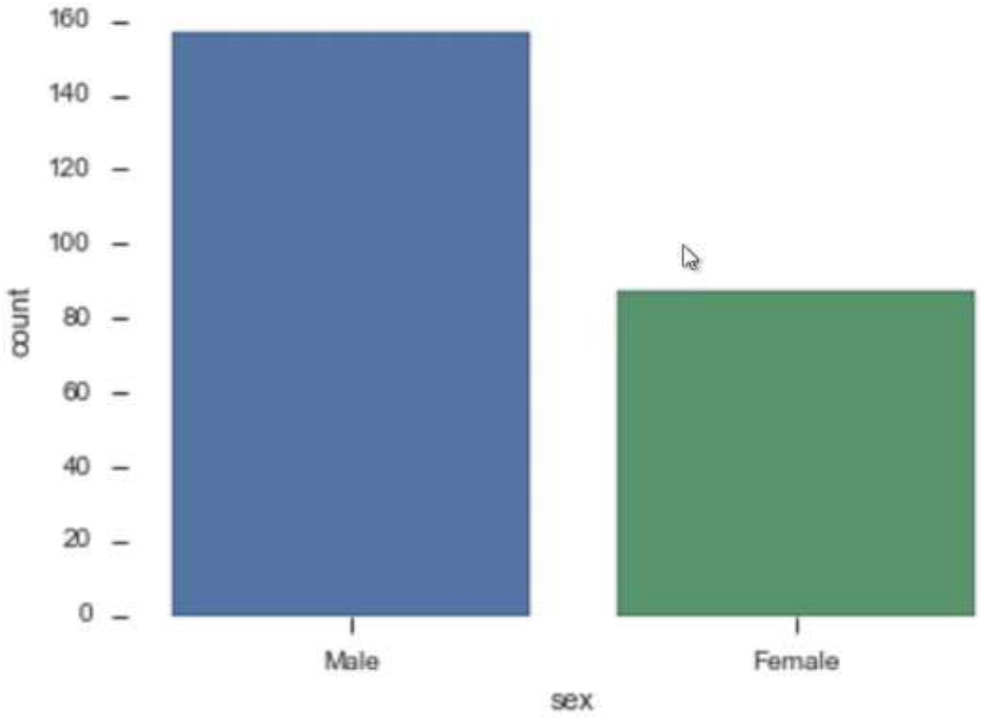
In [125]:
```
sns.set_style('ticks')
sns.countplot(x='sex',data=tips)
sns.despine(left=True,bottom=True)
```

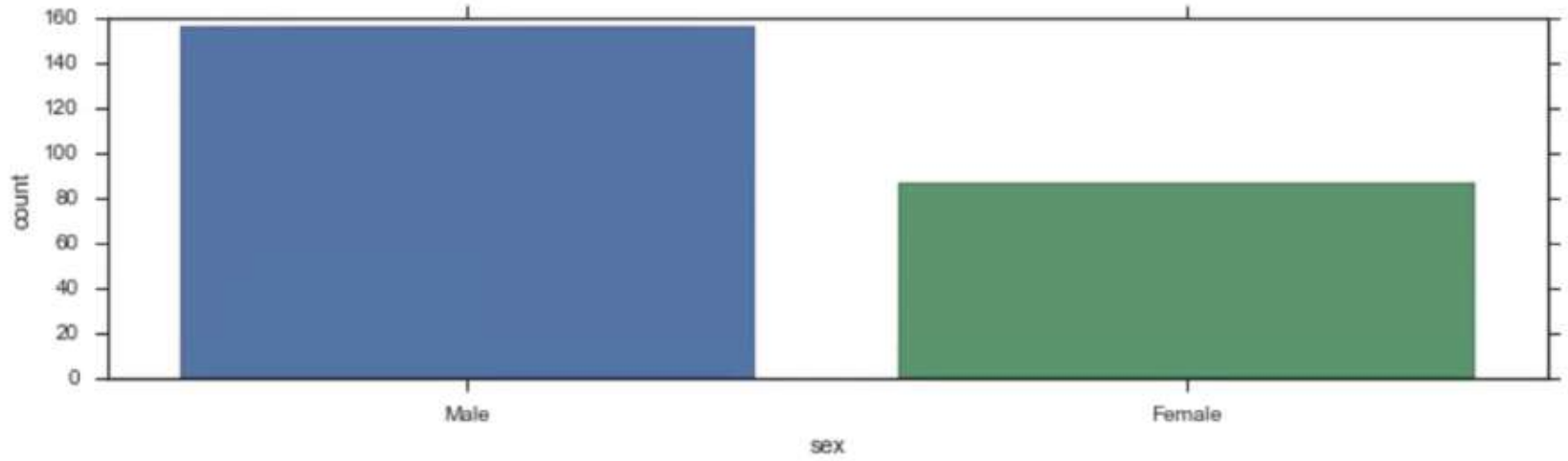


In [ ]:

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 [128]:
```
plt.figure(figsize=(12,3))
sns.countplot(x='sex',data=tips)
```

Out[128]: <matplotlib.axes._subplots.AxesSubplot at 0x254d869ba20>



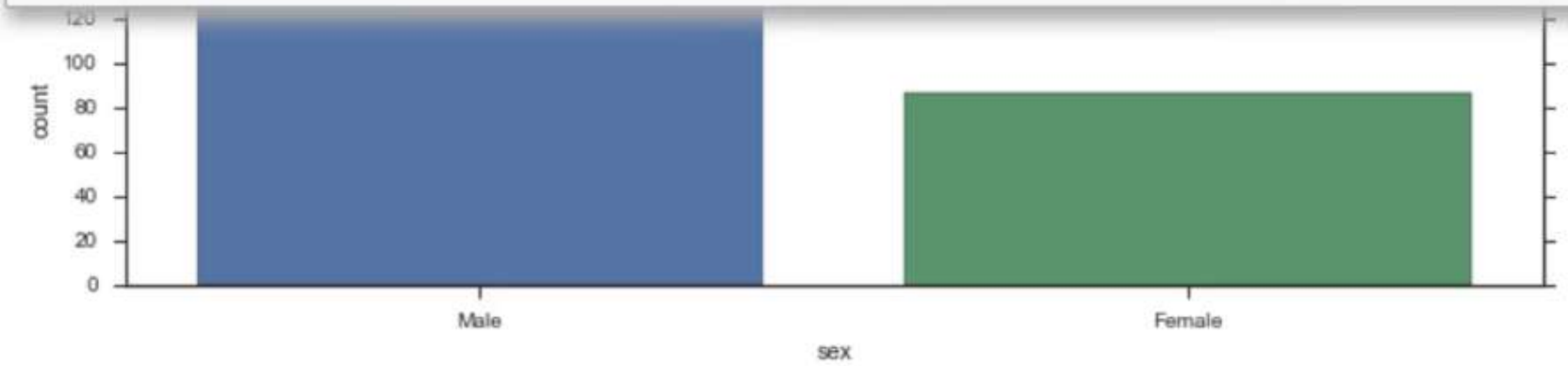
In [ ]:

3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

In [130]:
```
sns.set_context()
sns.countplot(x='sex',data=tins)
```

Out[130]:

```
Signature: sns.set_context(context=None, font_scale=1, rc=None)
Docstring:
Set the plotting context parameters.
```



In [ ]:

seaborn

localhost:8888/notebooks/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-for-Data-Visualization/Matplotlib/seaborn.ipynb

jupyter seaborn (unsaved changes)

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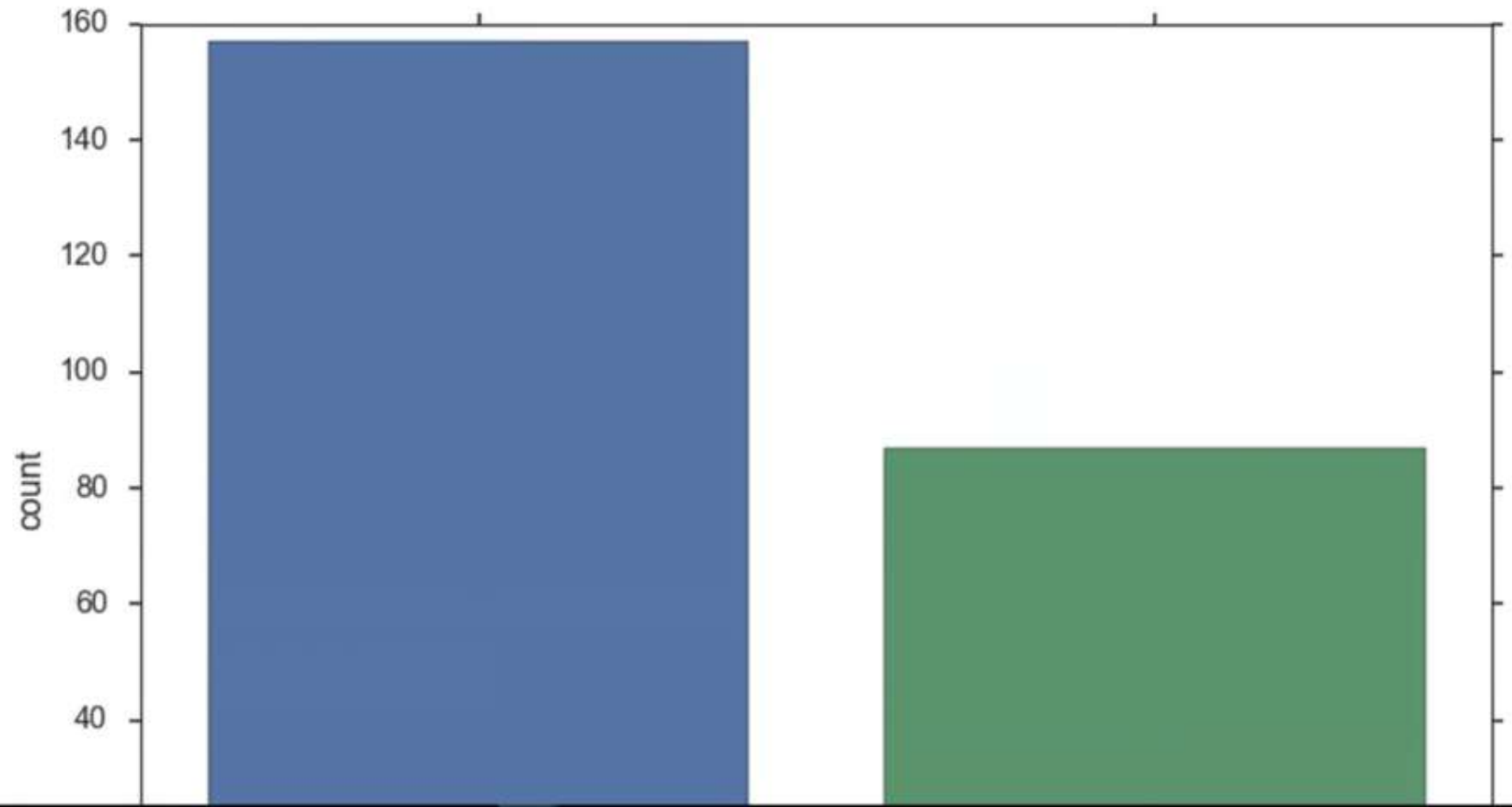
In [131]:
```
sns.set_context('poster')
sns.countplot(x='sex',data=tips)
```

Out[131]: <matplotlib.axes._subplots.AxesSubplot at 0x254d878ceb8>



seaborn

localhost:8888/notebooks/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-Data-Science-and-Machine-Learning-Bootcamp-master/Python-for-Data-Visualization/Matplotlib/seaborn.ipynb

jupyter seaborn (unsaved changes)

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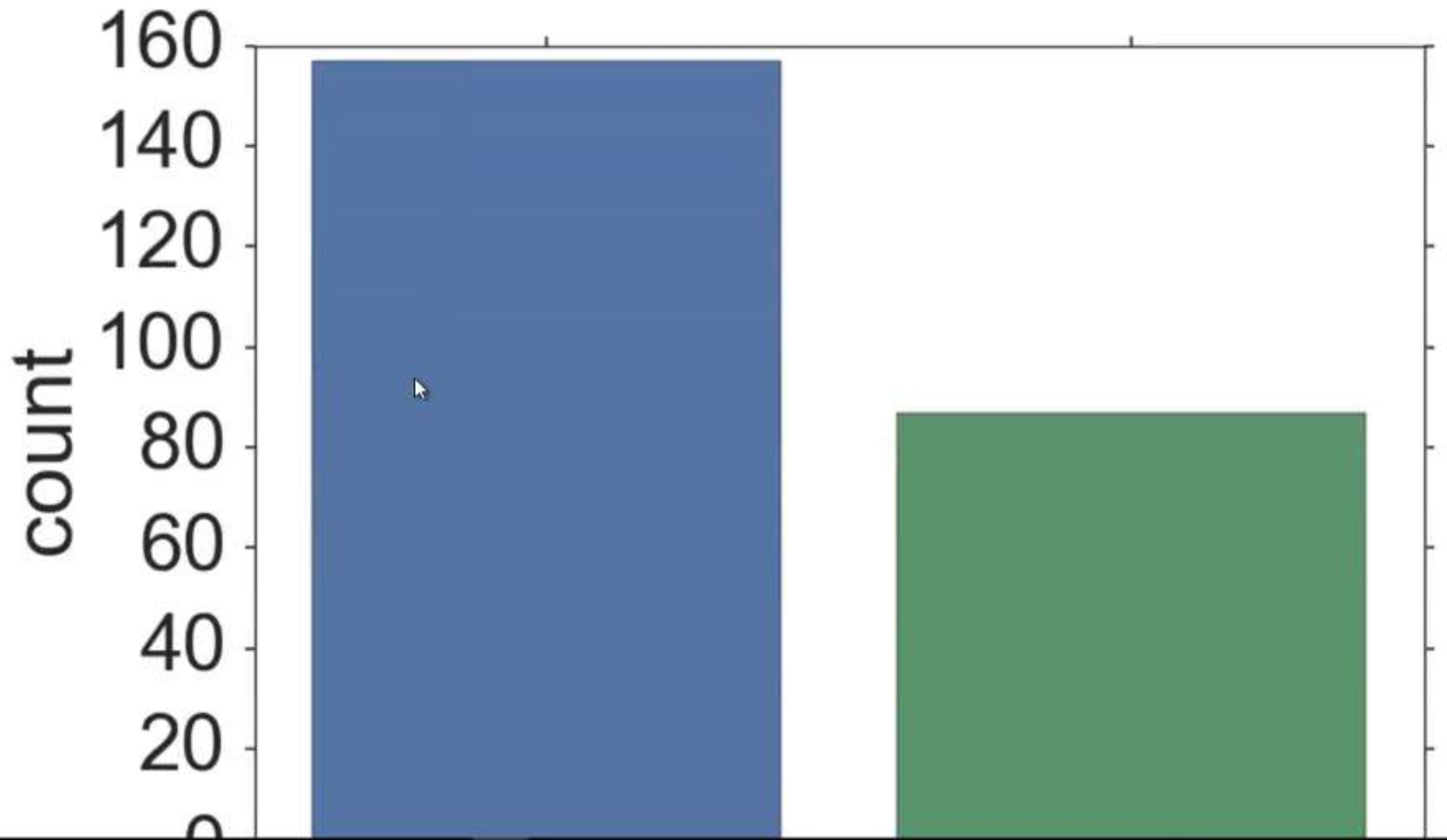
In [132]:
```
sns.set_context('poster',font_scale=3)
sns.countplot(x='sex',data=tips)
```

Out[132]: <matplotlib.axes._subplots.AxesSubplot at 0x254d9c1a6d8>



jupyter seaborn (unsaved changes)


```
tips.head()
```

Out[105]:

	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 [*]:
```
sns.set_context('notebook')
sns.countplot(x='sex',data=tips)
```

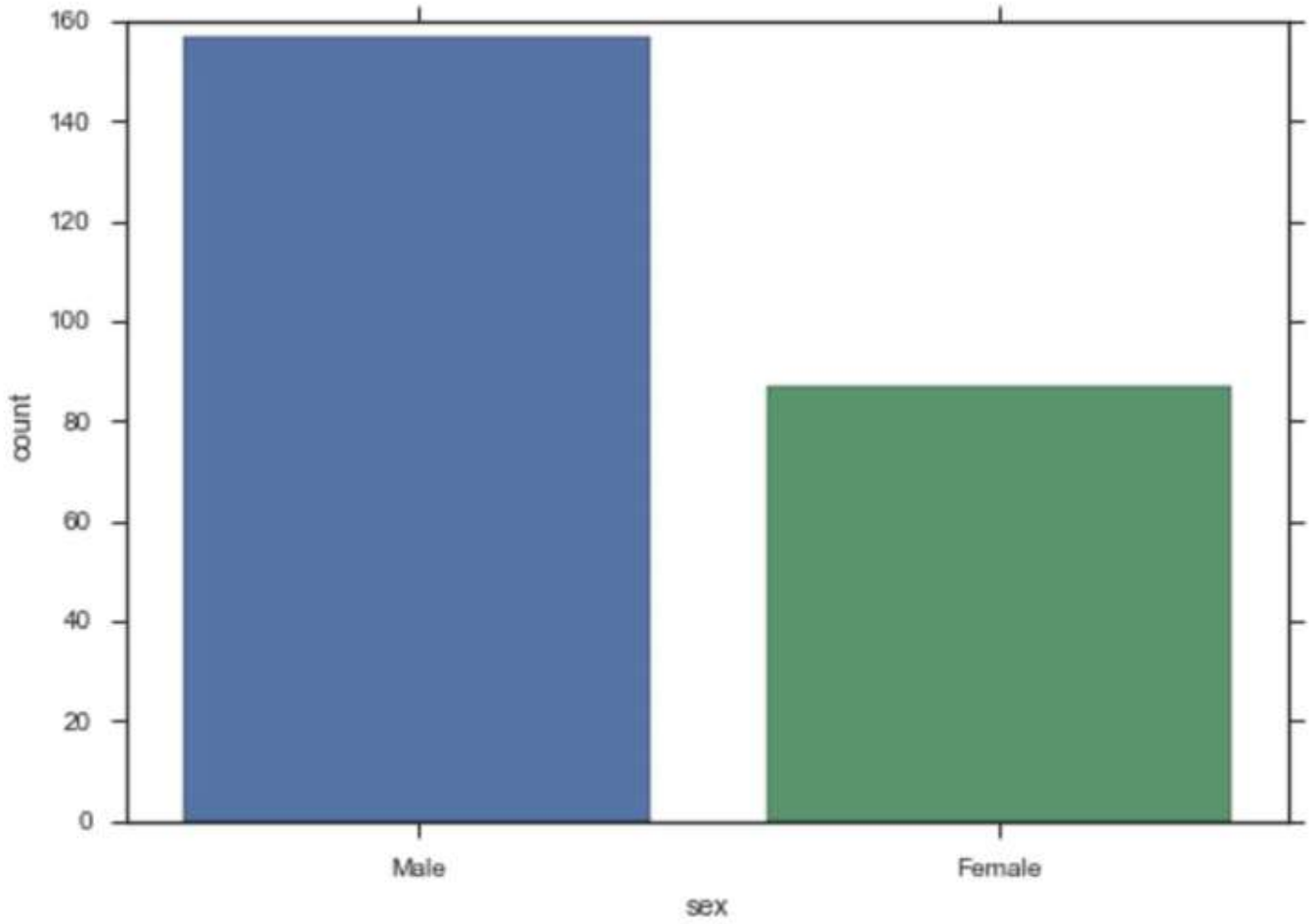
Out[133]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x254d9eb7358>
```

In [ ]:

jupyter seaborn (unsaved changes)


```
sns.countplot(x='sex',data=tips)
```

Out[133]: <matplotlib.axes._subplots.AxesSubplot at 0x254d9eb7358>

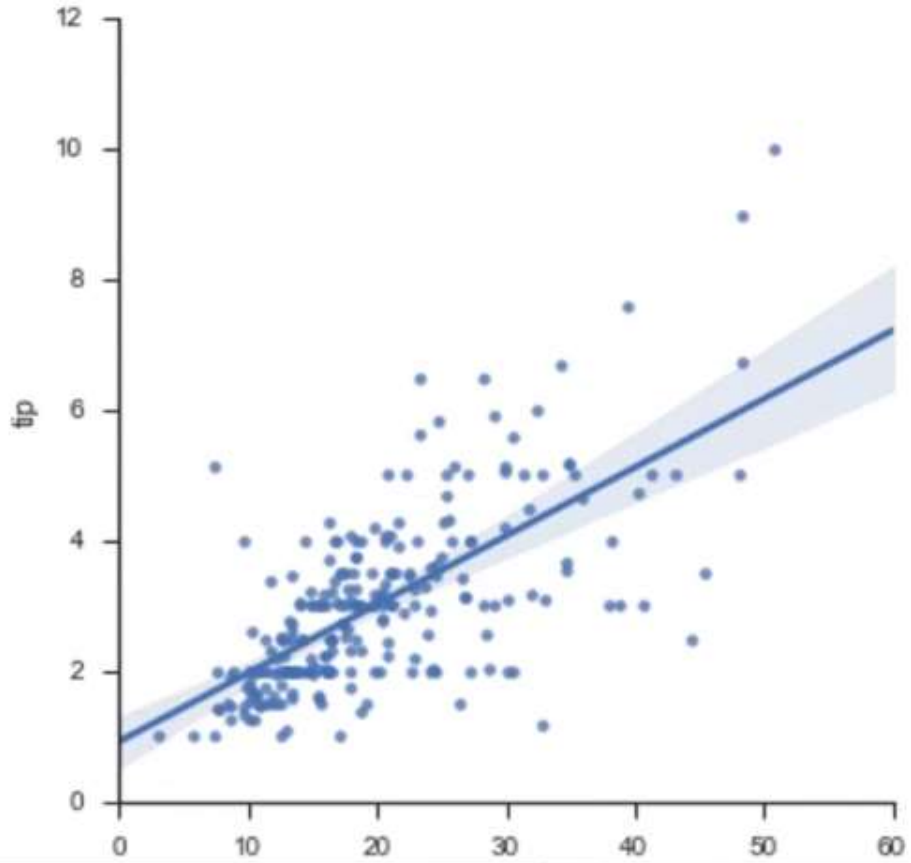


jupyter seaborn (unsaved changes)

4	24.59	3.61	Female	No	Sun	Dinner	4

In [135]:
```
sns.lmplot(x='total_bill',y='tip',data=tips,hu)
```

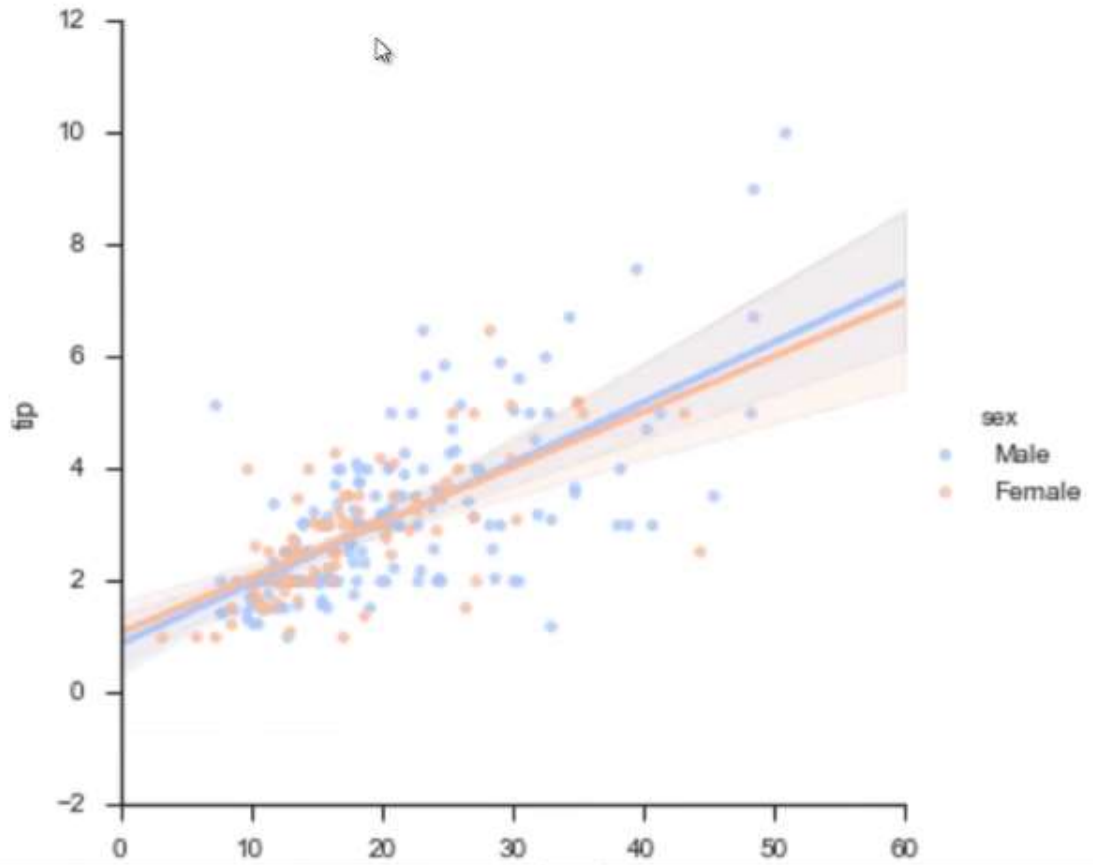
Out[135]: <seaborn.axisgrid.FacetGrid at 0x254d9cdb588>



4	24.59	3.61	Female	No	Sun	Dinner	4

In [137]:
```
sns.lmplot(x='total_bill',y='tip',data=tips,hue='sex',palette='coolwarm')
```

Out[137]: <seaborn.axisgrid.FacetGrid at 0x254d9d97128>



jupyter seaborn (unsaved changes)

4	24.59	3.61	Female	No	Sun	Dinner	4

In [138]:
```
sns.lmplot(x='total_bill',y='tip',data=tips,hue='sex',palette='seismic')
```

Out[138]: <seaborn.axisgrid.FacetGrid at 0x254d9ddf908>