Assignment 9

December 10, 2023

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# Shamecca Marshall
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# Assignment 9
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# Importing Plotly Express
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[60]:
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import plotly.express as px
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tips = px.data.tips()
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tips.head()
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[80]:

	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

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# Bar Plot
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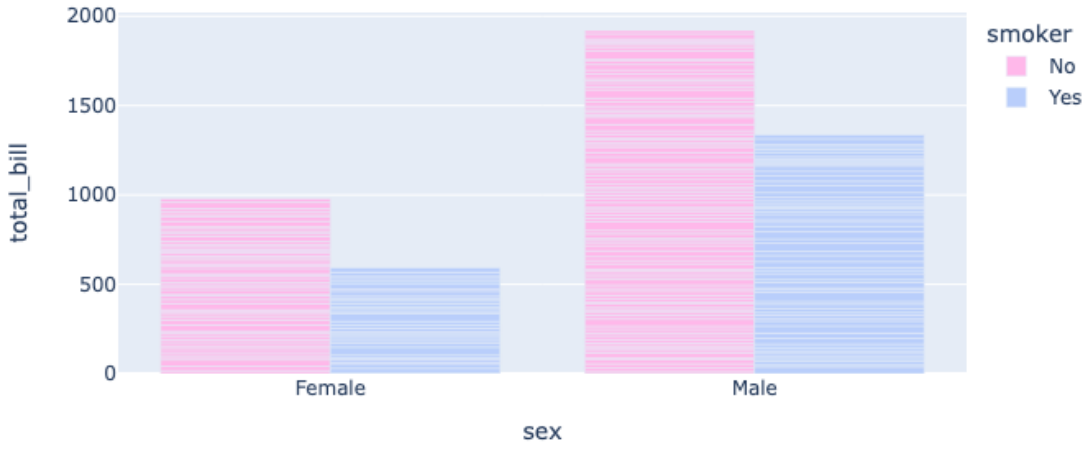
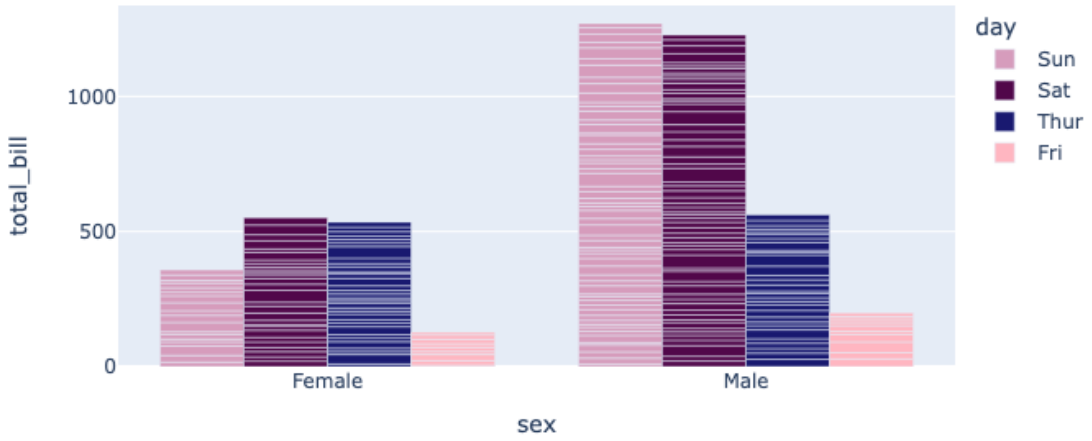
[90]:
```
fig = px.bar(tips, x="sex", y="total_bill", color="smoker",
                barmode="group",color_discrete_sequence =['#ffb8ea','#b9cefb'])
fig.show()
```



[ ]:
```
fig = px.bar(tips, x="sex", y="total_bill", color="day",
                barmode="group",color_discrete_sequence =['#d69cbc','#51074a',␣
 ↪'#191970','#ffb6c1'])
fig.show()
```



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# Scatter Plot
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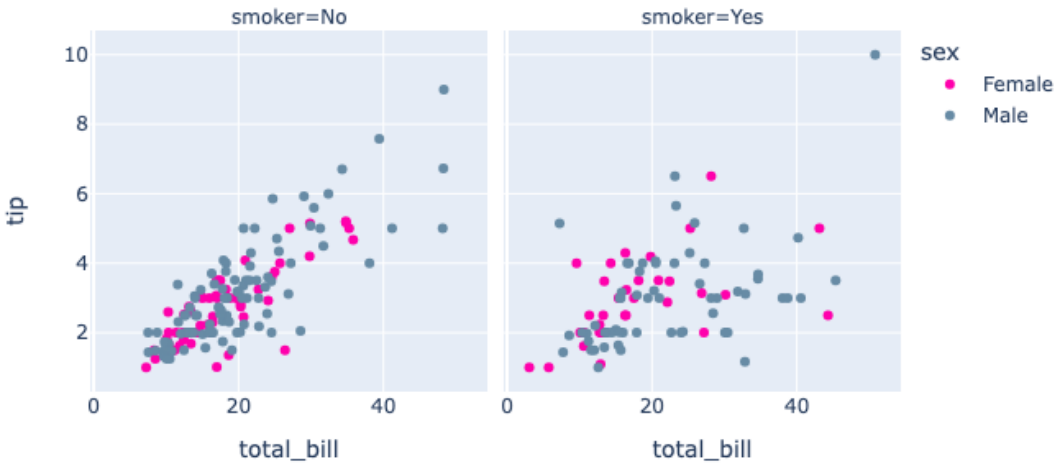
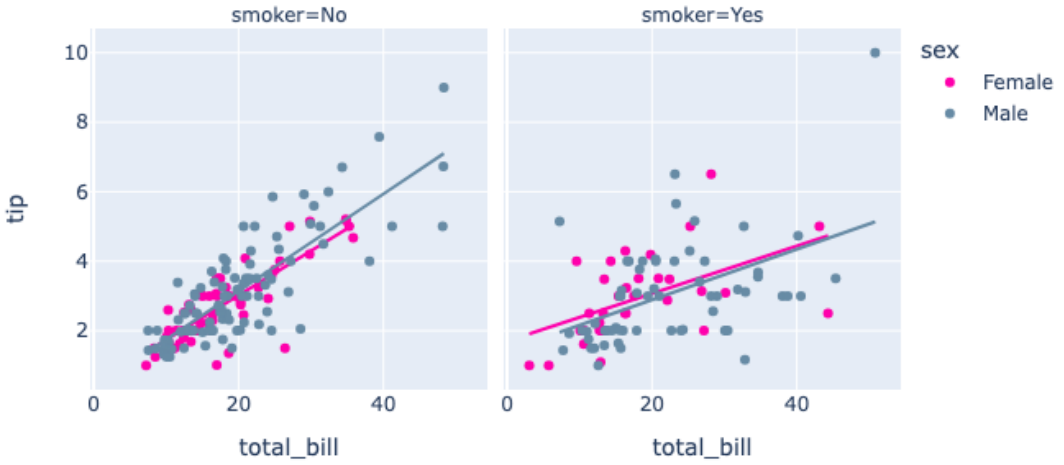
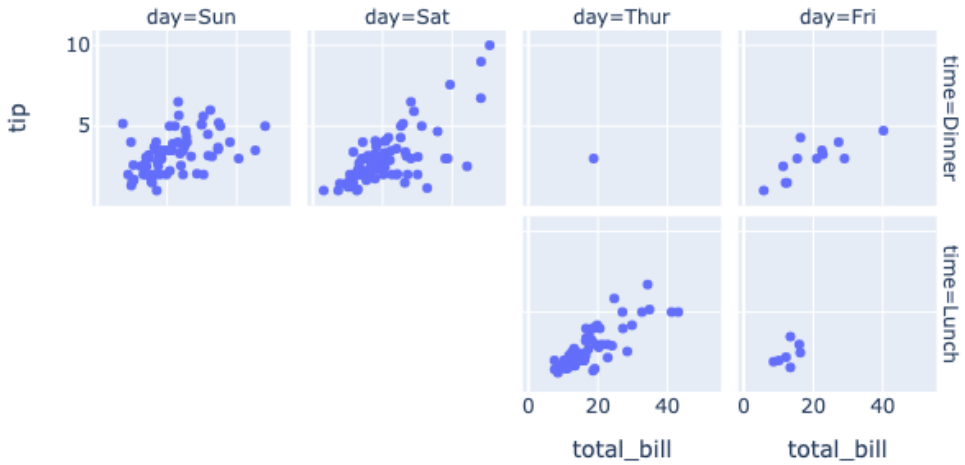
[120]:
```
fig = px.scatter(tips, x="total_bill", y="tip", color="sex", facet_col="smoker",
                 color_discrete_sequence =['#ff00ac','#678ba5'])
fig.show()
```



[122]:
```
fig = px.scatter(tips, x="total_bill", y="tip", color="sex",␣
 ↪facet_col="smoker", trendline="ols",
                 color_discrete_sequence =['#ff00ac','#678ba5'])
fig.show()
```



[150]:
```
df = px.data.tips()
fig = px.scatter(df, x="total_bill", y="tip", facet_col="day", facet_row="time")
fig.show()
```



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# Histogram
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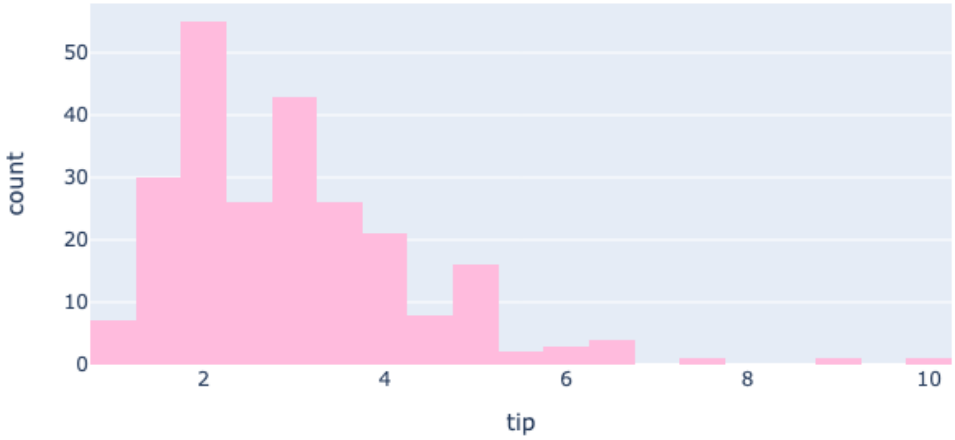
```
df = px.data.tips()
fig = px.histogram(df, x="tip",
                   color_discrete_sequence =['#ffbbdd'])
fig.show()
```



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# Box Plot
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[164]:
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df = px.data.tips()
fig = px.box(df, x="smoker", y="tip", color="smoker",
             color_discrete_sequence =['#d6a7a7', '#d492c7'])
fig.show()
```