```
import seaborn as sns
print(sns.get_dataset_names())

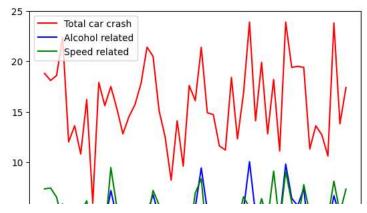
   ['anagrams', 'anscombe', 'attention', 'brain_networks', 'car_crashes', 'diamonds', 'dots', 'dowjones', 'exercise', 'flights', 'fmri', '{{\rightarrow}}}

df=sns.load_dataset('car_crashes')
df
```

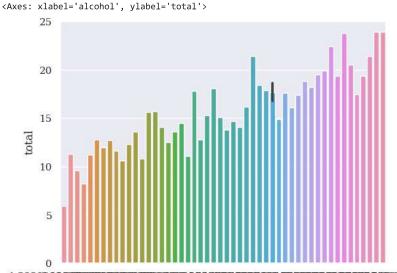
this diagram is showing alcohol and speed related car crashes

```
import matplotlib.pyplot as plt

plt.figure()
plt.plot(x,label='Total car crash',color='red')
plt.plot(y,label='Alcohol related', color= 'blue')
plt.plot(z,label='Speed related',color='green')
plt.legend()
sns.set()
#sns.set(style='whitegrid')
sns.set_style('darkgrid')
sns.set_font='serif')
plt.show()
```



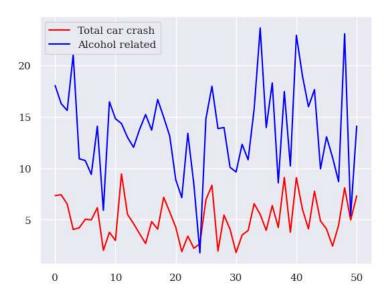
sns.barplot(x='alcohol',y='total',data=df)



1.5930**000 (HUHAMORPHE CHAPPER AZEMORP DE EXCENTRA PER 1999)** alcohol

```
p=df['speeding'].values
q=df['not_distracted'].values
р
     array([7.332, 7.421, 6.51, 4.032, 4.2, 5.032, 4.968, 6.156, 2.006,
            3.759, 2.964, 9.45 , 5.508, 4.608, 3.625, 2.669, 4.806, 4.066,
            7.175, 5.738, 4.25 , 1.886, 3.384, 2.208, 2.64 , 6.923, 8.346,
            1.937, 5.439, 4.06 , 1.792, 3.496, 3.936, 6.552, 5.497, 3.948,
            6.368, 4.224, 9.1 , 3.774, 9.082, 6.014, 4.095, 7.76 , 4.859,
            4.08, 2.413, 4.452, 8.092, 4.968, 7.308])
     array([18.048, 16.29 , 15.624, 21.056, 10.92 , 10.744, 9.396, 14.094,
             5.9 , 16.468, 14.82 , 14.35 , 13.005, 12.032, 13.775, 15.229,
            13.706, 16.692, 14.965, 13.137, 8.875, 7.134, 13.395, 8.448,
            1.76 , 14.812, 17.976, 13.857, 13.965, 10.092, 9.632, 12.328,
            10.824, 15.792, 23.661, 13.959, 18.308, 8.576, 17.472, 10.212,
            22.944, 19.012, 15.99 , 17.654, 9.944, 13.056, 11.049, 8.692,
            23.086, 5.382, 14.094])
plt.figure()
plt.plot(p,label='Total car crash',color='red')
plt.plot(q,label='Alcohol related', color = 'blue')
plt.legend()
sns.set()
#sns.set(style='whitegrid')
sns.set_style('darkgrid')
```

sns.set(font='serif')
plt.show()

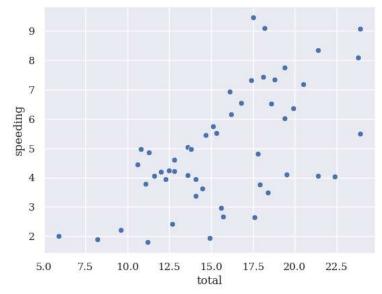


df.head(5)

	total	speeding	alcohol	<pre>not_distracted</pre>	no_previous	ins_premium	ins_losses
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08
1	18.1	7.421	4.525	16.290	17.014	1053.48	133.93
2	18.6	6.510	5.208	15.624	17.856	899.47	110.35
3	22.4	4.032	5.824	21.056	21.280	827.34	142.39
4	12.0	4.200	3.360	10.920	10.680	878.41	165.63
4							•

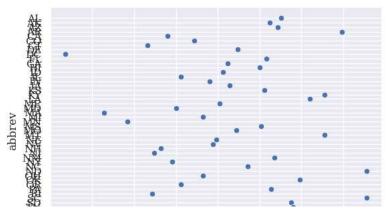
sns.scatterplot(x="total",y="speeding", data = df)

<Axes: xlabel='total', ylabel='speeding'>



sns.scatterplot(x="total",y="abbrev",data=df)

<Axes: xlabel='total', ylabel='abbrev'>

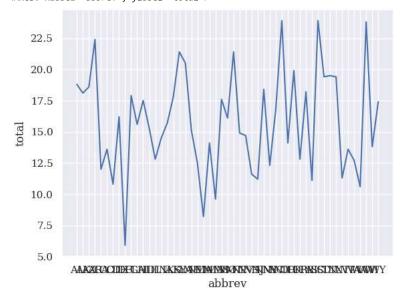


sns.lineplot(x="abbrev",y="total",data=df,ci=None)

<ipython-input-17-cdd4e2789f8c>:1: FutureWarning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

sns.lineplot(x="abbrev",y="total",data=df,ci=None)
<Axes: xlabel='abbrev', ylabel='total'>



sns.distplot(df["speeding"])

₽

<ipython-input-18-8ecb7fd34a3c>:1: UserWarning:

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

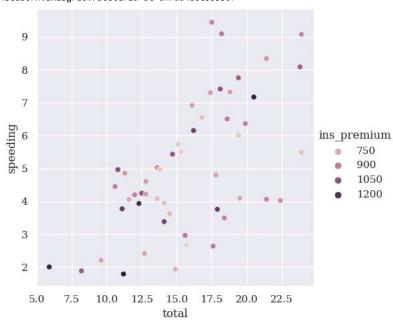
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

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

ene district/df["enooding"])

sns.relplot(x="total",y="speeding",data=df,hue="ins_premium")

<seaborn.axisgrid.FacetGrid at 0x7dd416c3b550>

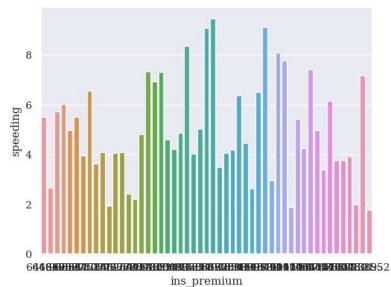


sns.barplot(data=df,x="ins_premium",y="speeding",ci=None)

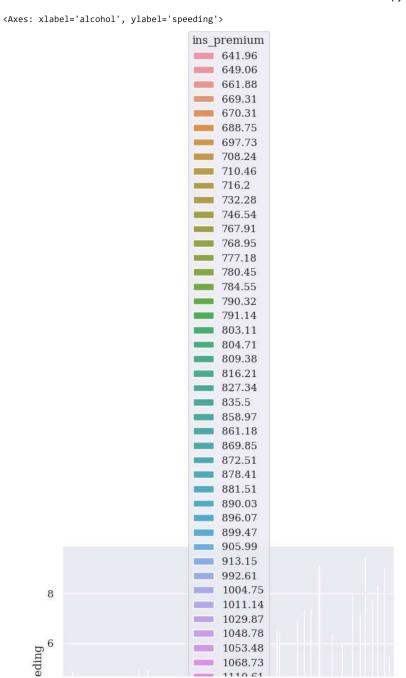
<ipython-input-23-0f3f8f356baf>:1: FutureWarning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

sns.barplot(data=df,x="ins_premium",y="speeding",ci=None)
<Axes: xlabel='ins_premium', ylabel='speeding'>

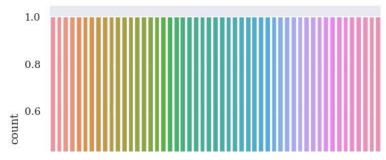


 $\verb|sns.barplot(data=df,x="alcohol",y="speeding",hue="ins_premium")|\\$



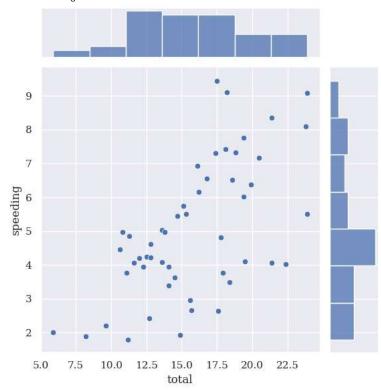
sns.countplot(x="abbrev",data=df)

<Axes: xlabel='abbrev', ylabel='count'>



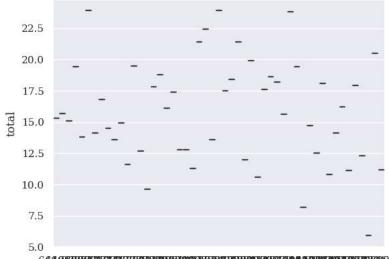
sns.jointplot(x="total",y="speeding",data=df)

<seaborn.axisgrid.JointGrid at 0x7dd4116ab250>



sns.boxplot(x="ins_premium",y="total",data=df)

<Axes: xlabel='ins_premium', ylabel='total'>



corr = df.corr()
corr

<ipython-input-32-4381f08f6434>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future versior
corr = df.corr()

	total	speeding	alcohol	<pre>not_distracted</pre>	no_previous	ins_premium	ins_losses
total	1.000000	0.611548	0.852613	0.827560	0.956179	-0.199702	-0.036011
speeding	0.611548	1.000000	0.669719	0.588010	0.571976	-0.077675	-0.065928
alcohol	0.852613	0.669719	1.000000	0.732816	0.783520	-0.170612	-0.112547
not_distracted	0.827560	0.588010	0.732816	1.000000	0.747307	-0.174856	-0.075970
no_previous	0.956179	0.571976	0.783520	0.747307	1.000000	-0.156895	-0.006359
ins_premium	-0.199702	-0.077675	-0.170612	-0.174856	-0.156895	1.000000	0.623116
ins_losses	-0.036011	-0.065928	-0.112547	-0.075970	-0.006359	0.623116	1.000000
4							

sns.heatmap(corr,annot=True,cmap="YlGnBu")

