Plotly

In [ ]:
```
# pip install plotly
```

In [145]:
```
import pandas as pd
df = pd.read_csv('iris.csv')
df.sample()
```

Out[145]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
13	14	4.3	3.0	1.1	0.1	Iris-setosa

In [146]:
```
df.sample()
```

Out[146]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
93	94	5.0	2.3	3.3	1.0	Iris-versicolor

In [147]:
```
import plotly.express as px
```

In [148]:
```
df1 = px.data.iris()
```

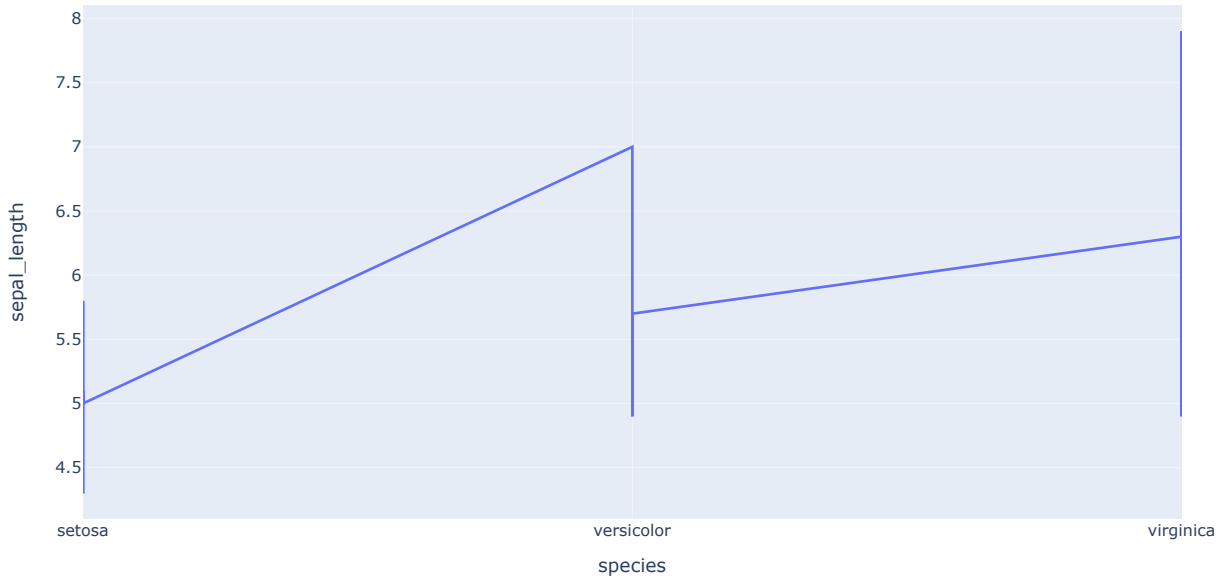
In [149]:
```
df1.sample()
```

Out[149]:

	sepal_length	sepal_width	petal_length	petal_width	species	species_id
137	6.4	3.1	5.5	1.8	virginica	3

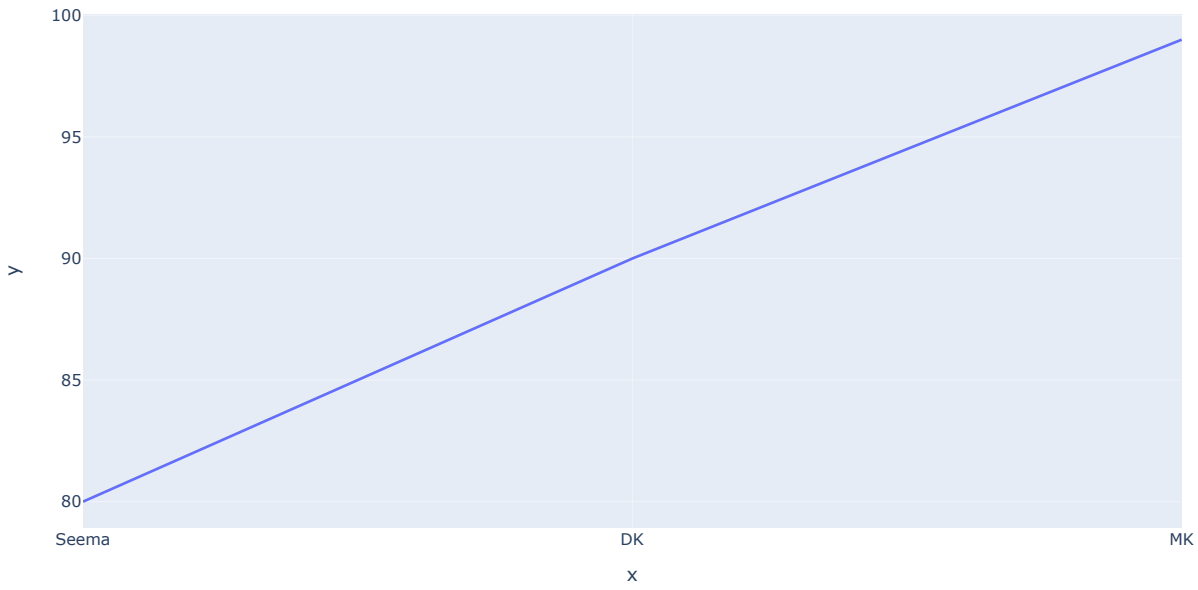
In [150]:
```
a = px.line(df1, x ='species', y ='sepal_length')
```

In [151]:
```
a.show()
```

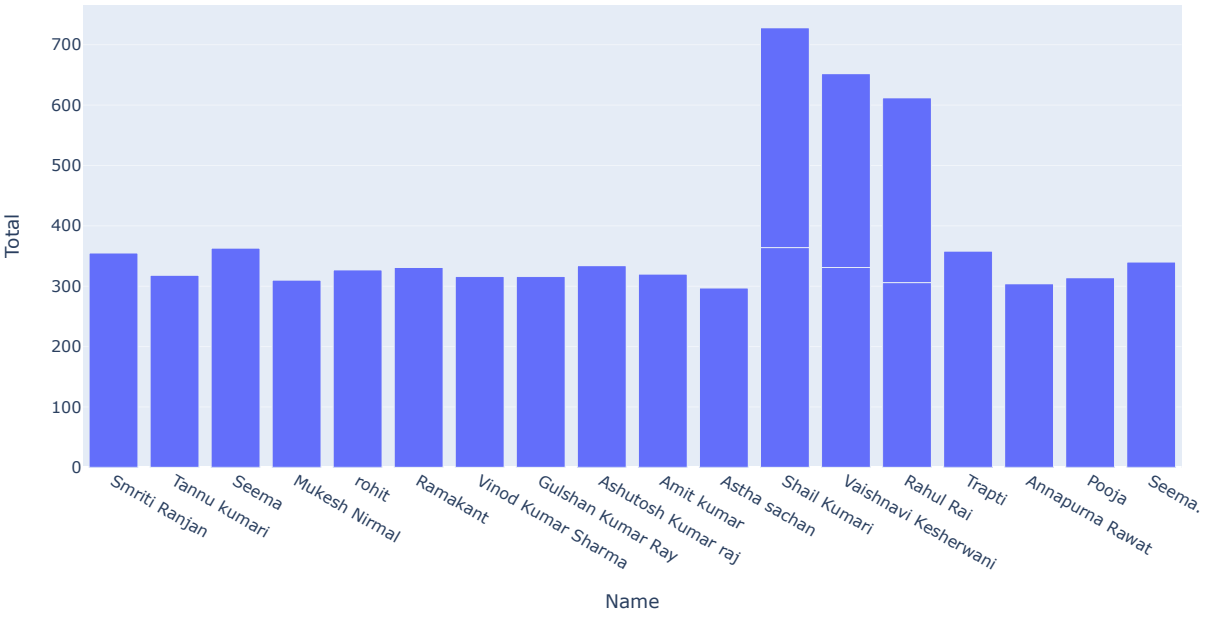


In [152]:
```
import pandas as pd
df = pd.read_csv('marks1.csv')
df['Total']=df['English']+df['Hindi']+df['Maths']+df['Social Science']
```

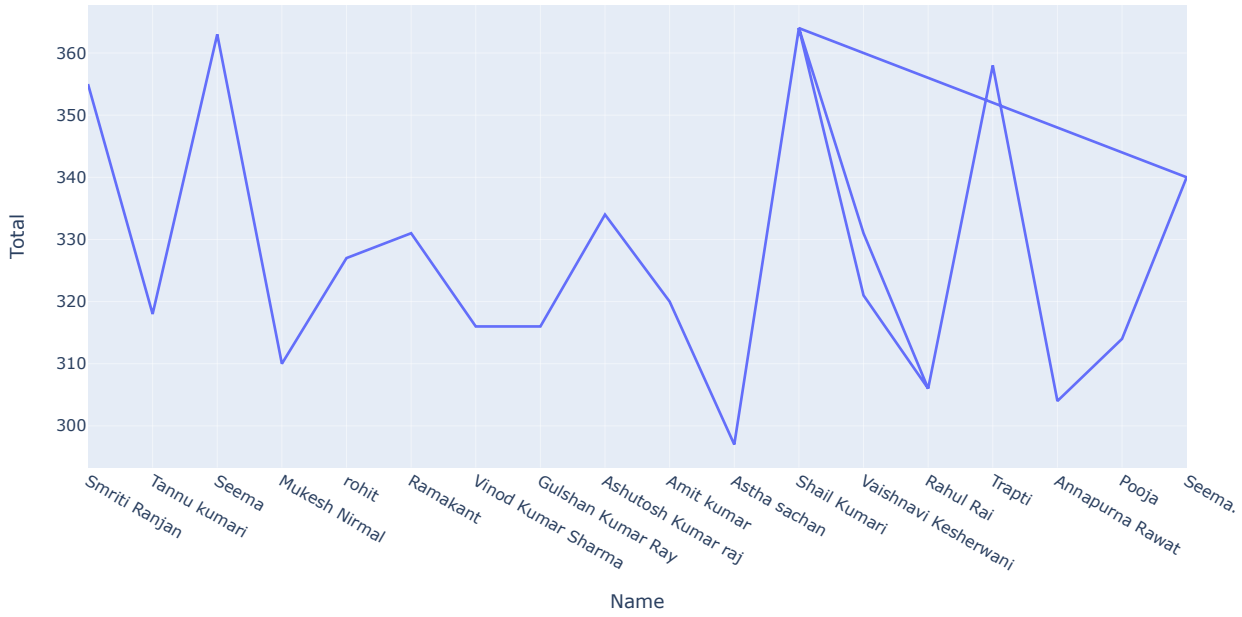
In [153]:
```
px.line(x=['Seema', 'DK','MK'], y=[80,90,99])
```



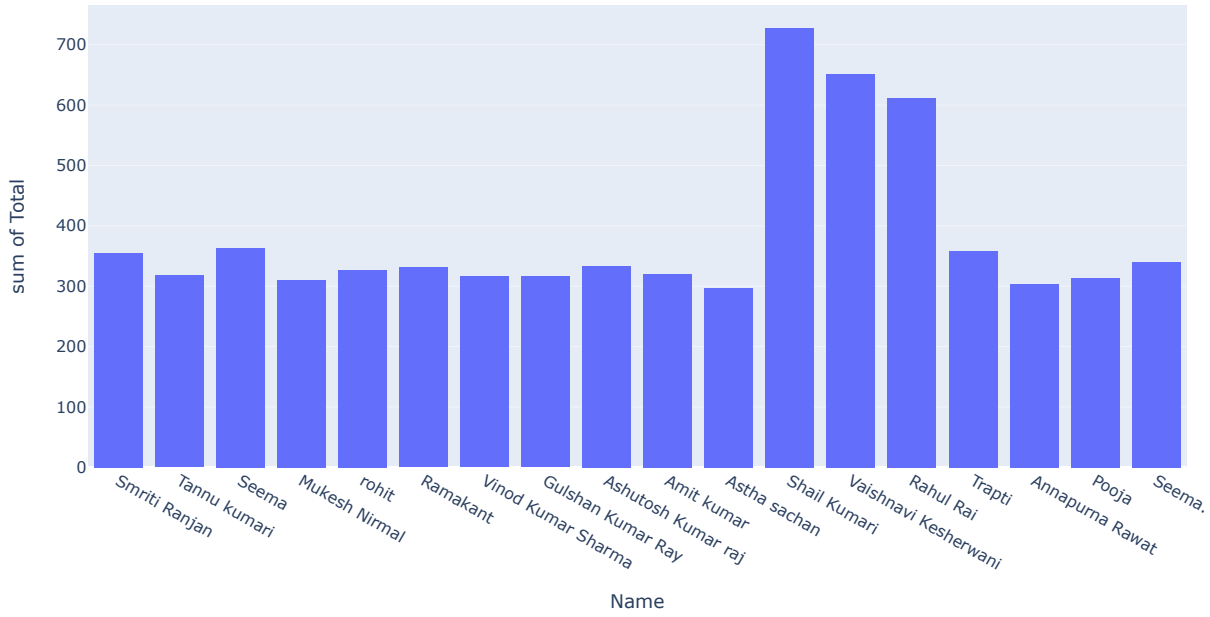
In [154]:
```
px.bar(df ,x='Name', y ='Total')
```



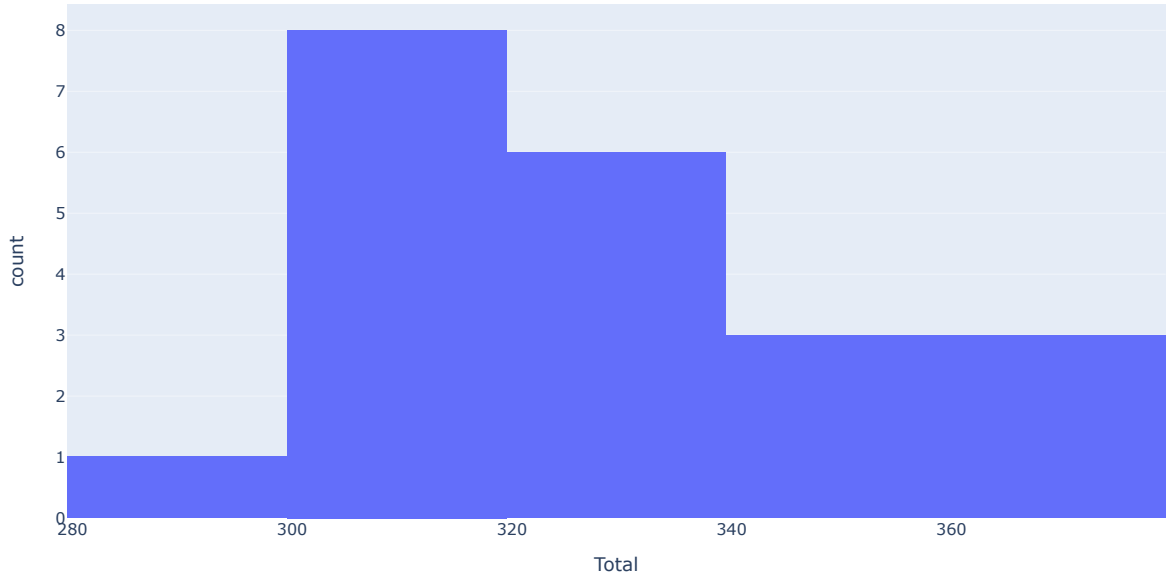
In [155]:
```
px.line(df ,x='Name', y ='Total')
```



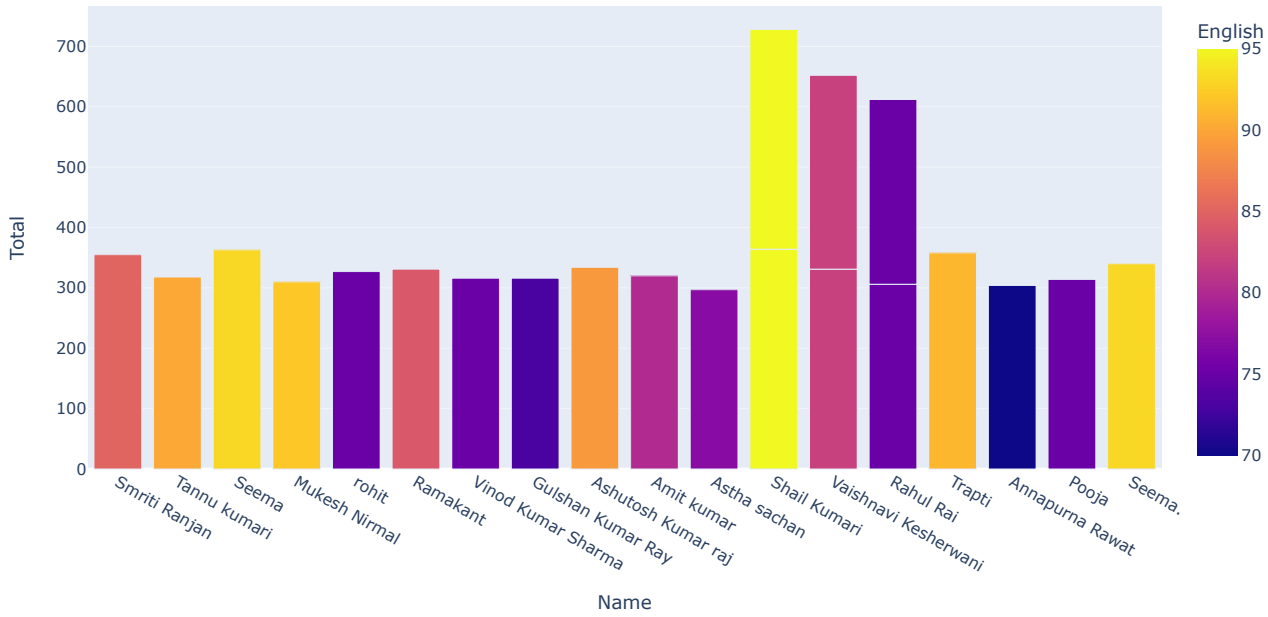
In [156]:
```
px.histogram(df ,x='Name', y ='Total')
```



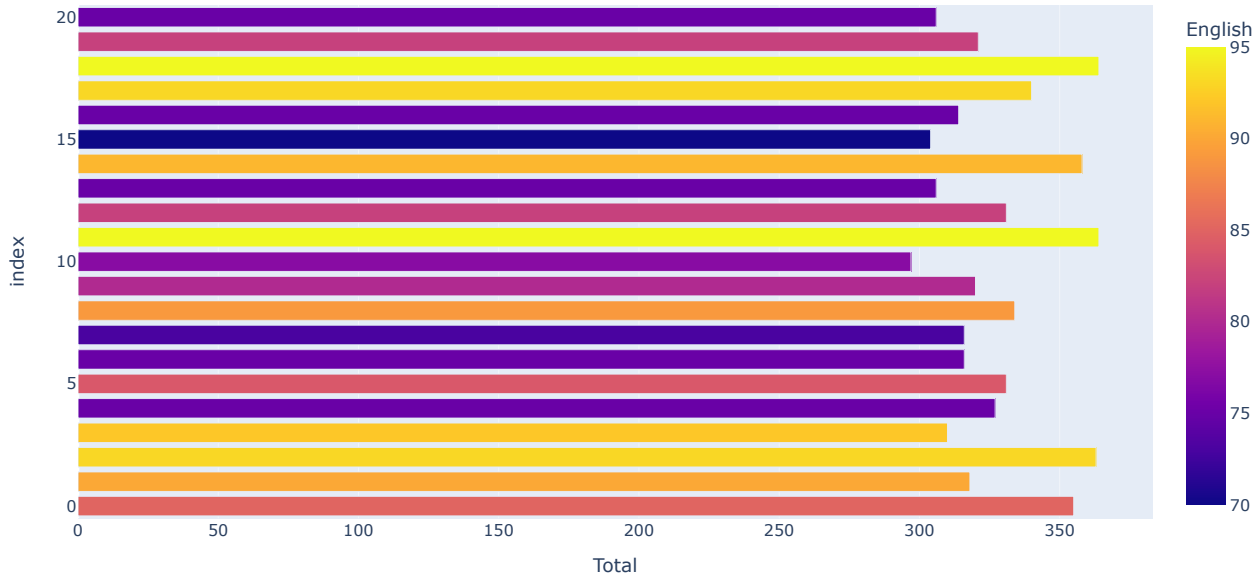
In [157]:
```
# frequency Distribtuion
px.histogram(df ,x ='Total')
```



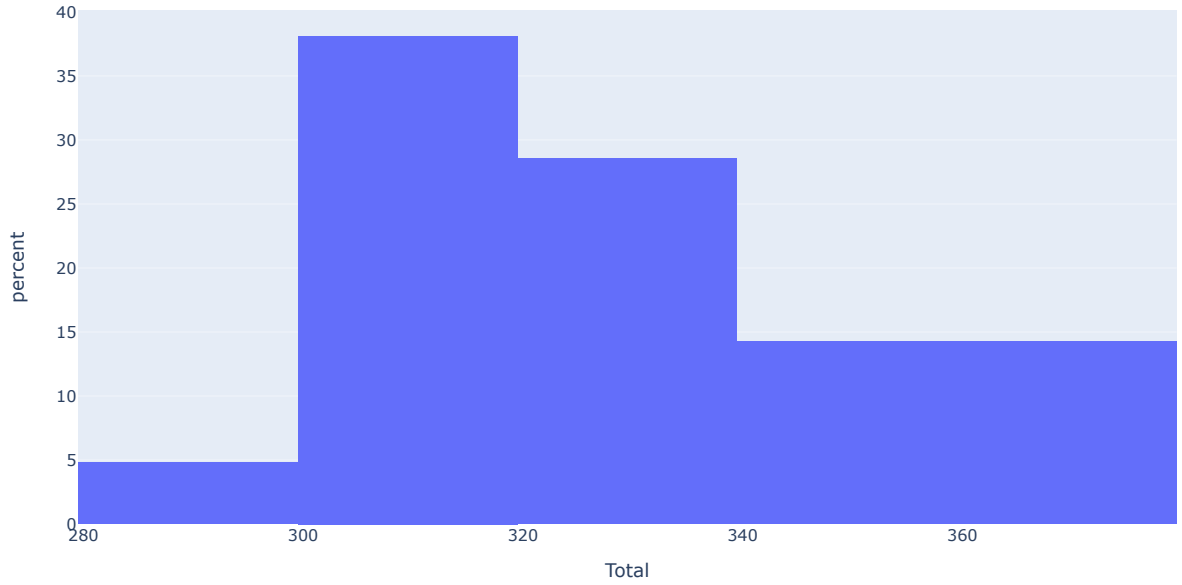
In [158]:
```
px.bar(df ,x='Name', y ='Total', color='English')
```



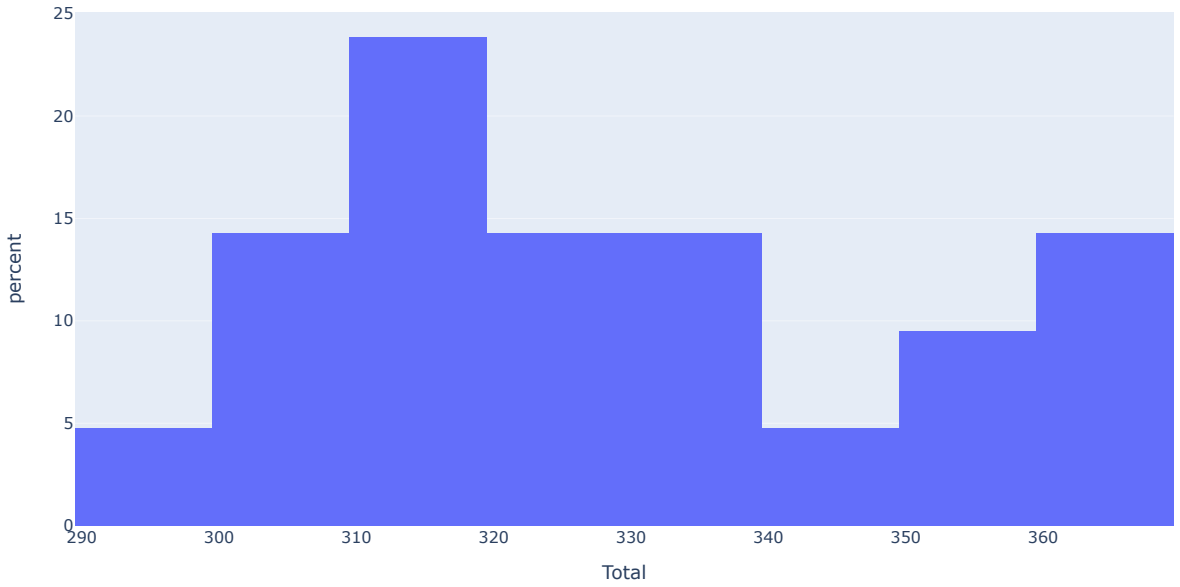
In [159]:
```
px.bar(df,x='Total', color='English')
```



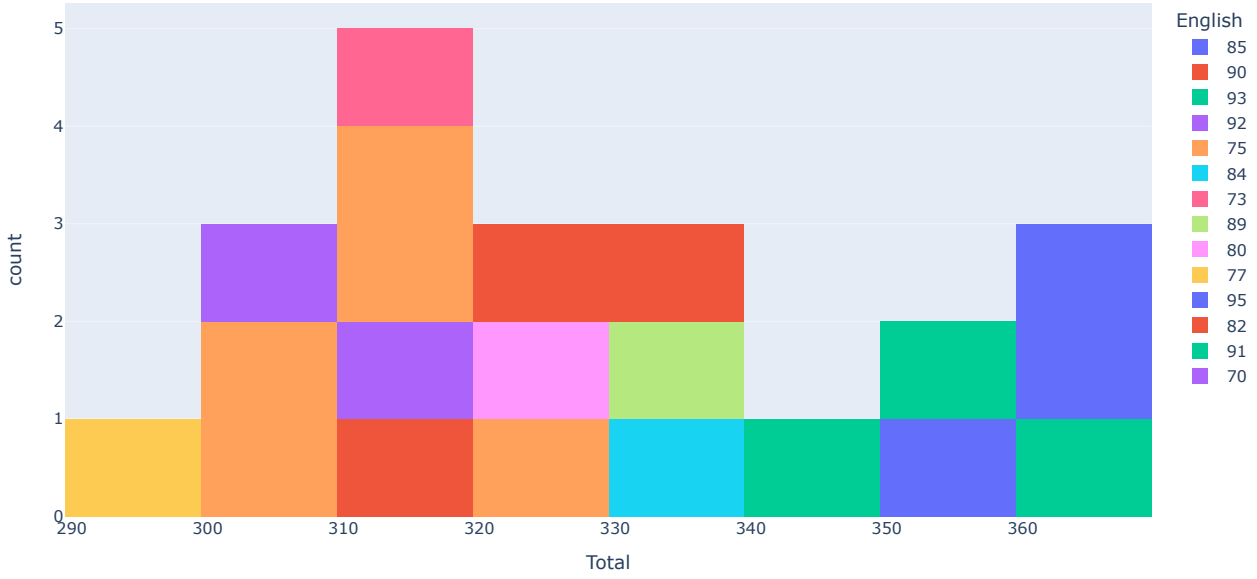
In [160]:
```
px.histogram(df , x='Total', histnorm='percent')
```



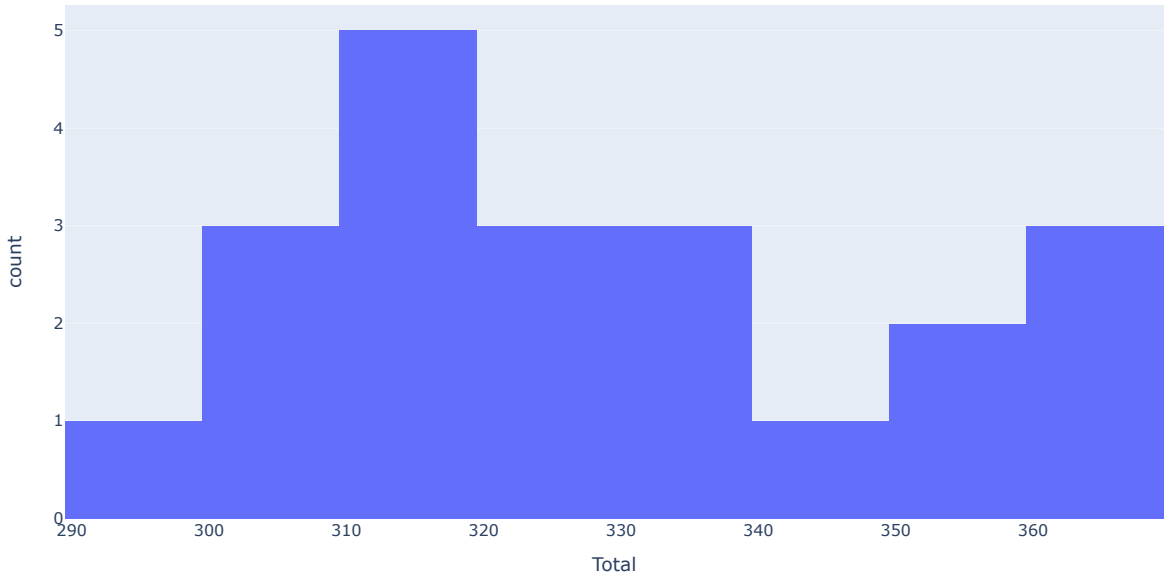
In [161]:
```
#  Bin Distrubtion|

px.histogram(df , x='Total', histnorm='percent', nbins=10)
```



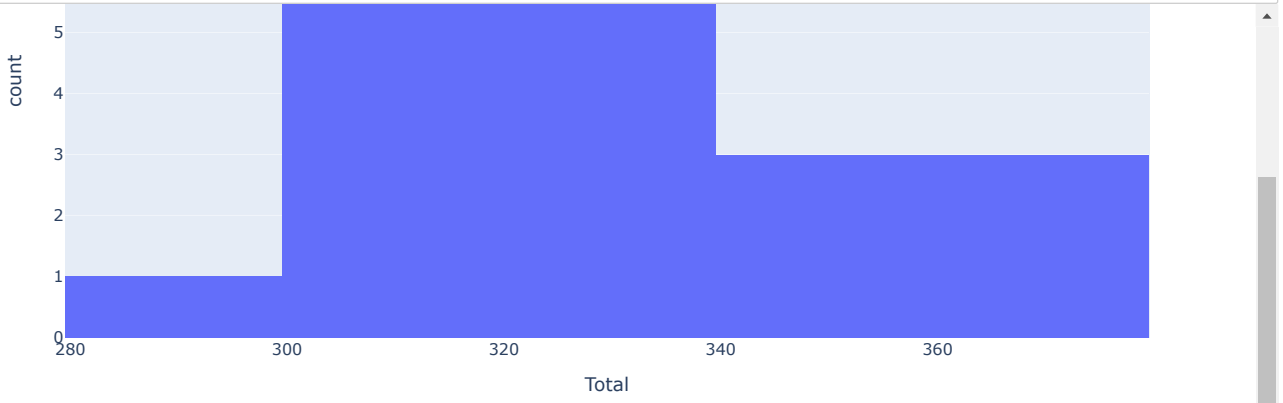
In [162]:
```
px.histogram(df , x='Total', nbins=10, color='English')
```



In [163]:
```
px.histogram(df , x='Total', nbins=10)
```



In [164]:
```
px.histogram(df , x='Total')
```



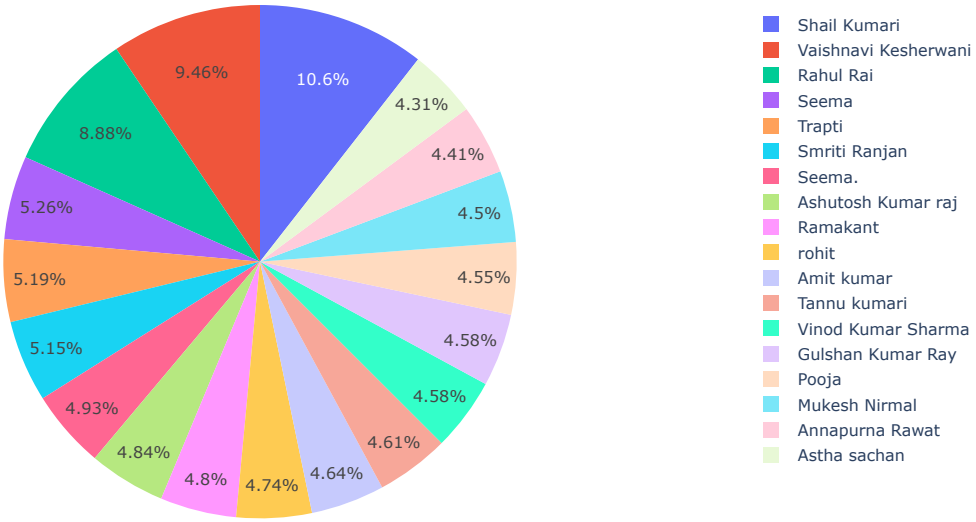
In [165]:
```
df2 = px.data.tips()
df2.sample()
```

Out[165]:

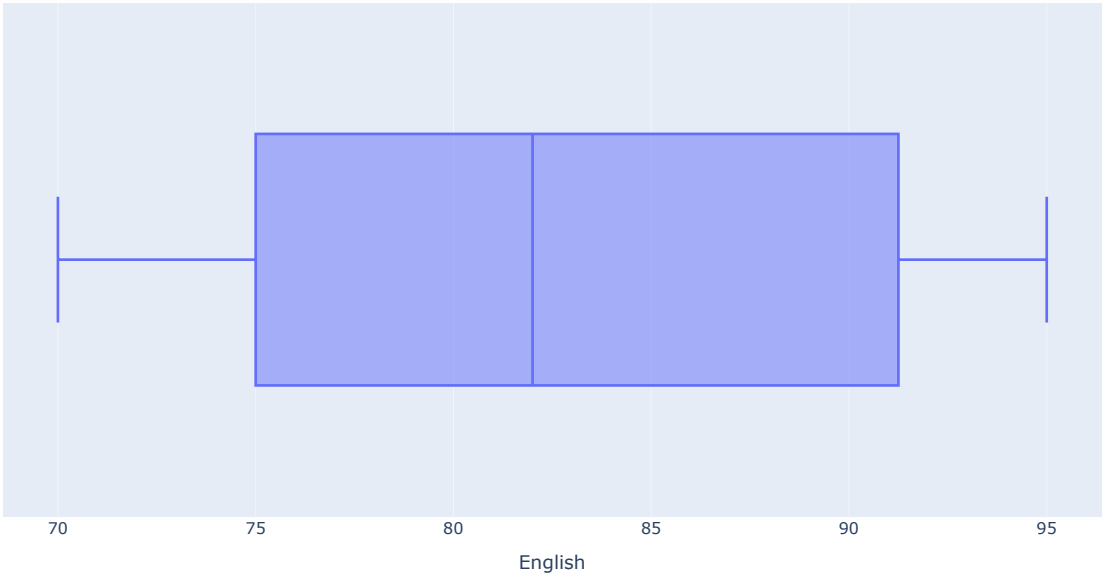
	total_bill	tip	sex	smoker	day	time	size
197	43.11	5.0	Female	Yes	Thur	Lunch	4

In [173]:
```
px.scatter(df, x='Total', color='Name', size='Name')
```

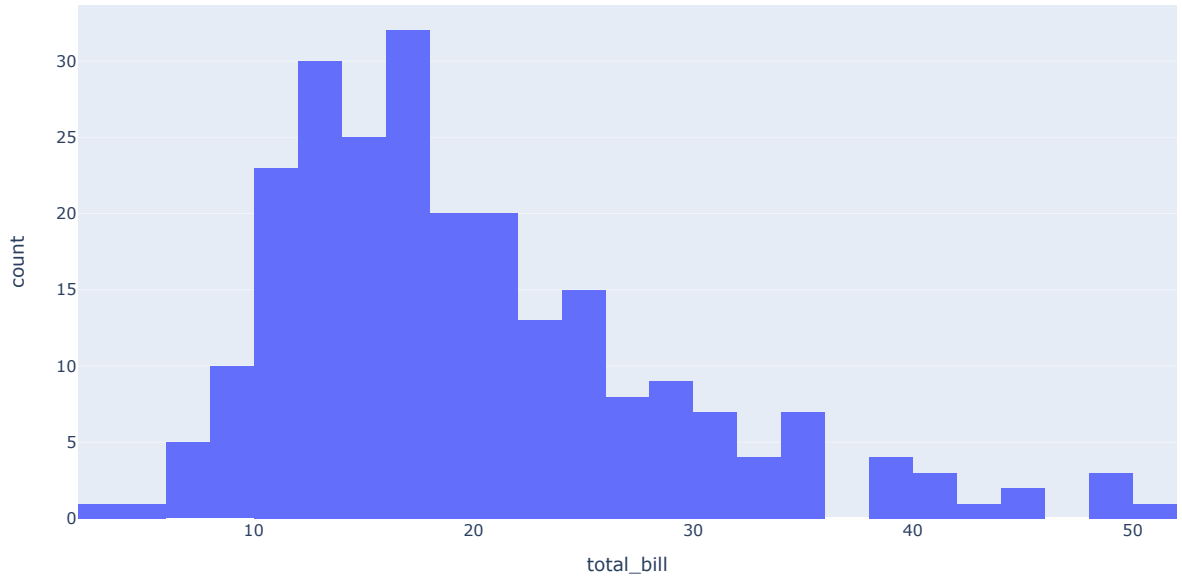
In [167]:
```
px.pie(df, values='Total', names='Name')
```



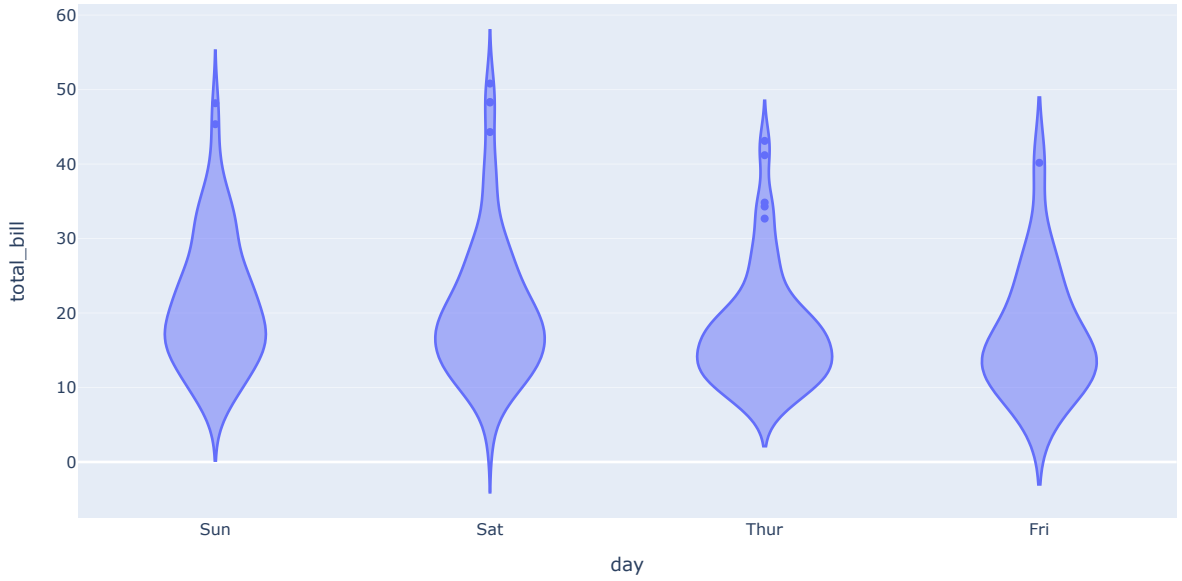
In [168]:
```
# Box is using for outliers
px.box(df, x='Total')
px.box(df, x='English')
```



In [169]:
```
px.histogram(df2, x='total_bill')
```



In [170]:
```
px.violin(df2,x='day', y  = 'total_bill')
```

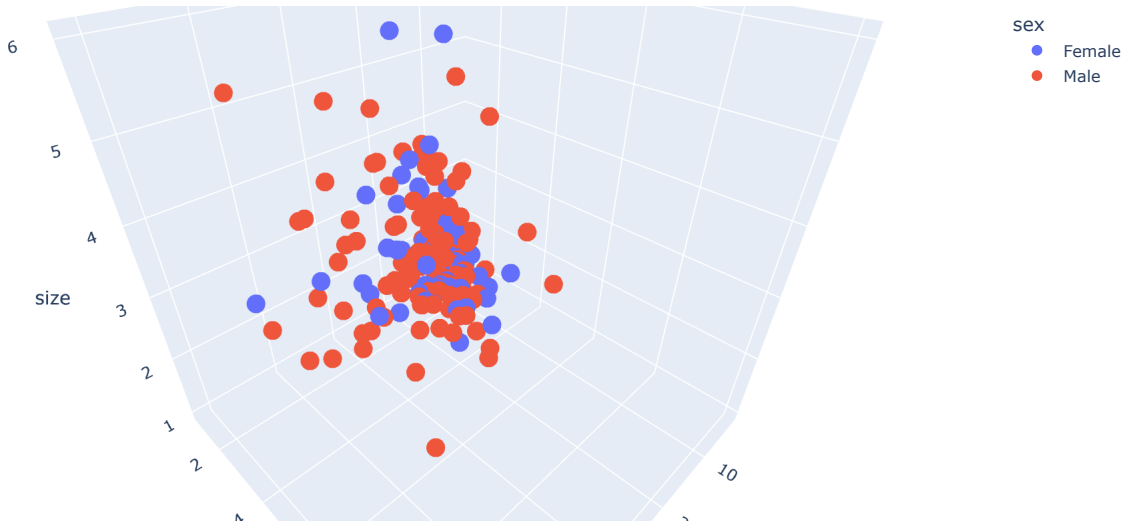


In [171]:
```
df2.sample()
```

Out[171]:

	total_bill	tip	sex	smoker	day	time	size
120	11.69	2.31	Male	No	Thur	Lunch	2

In [172]:
```
# 3d____Ploting --->
px.scatter_3d(df2, x='total_bill',y='tip', z='size', color='sex')
```



In [ ]:
```

```