

untitled6

July 25, 2023

1 Data visualization

```
[ ]: import seaborn as sns
import matplotlib.pyplot as plt
```

2 Step 2 load data set

```
[ ]: planets=sns.load_dataset("planets")
planets.head()
```

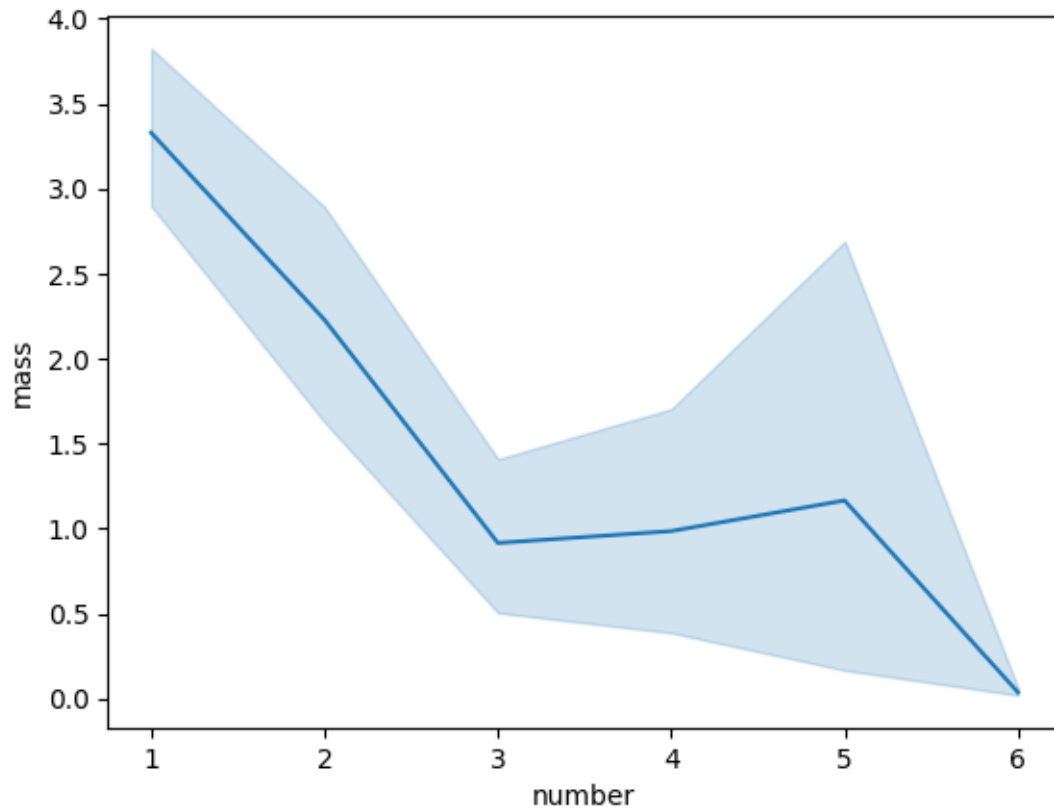
```
[ ]:
```

	method	number	orbital_period	mass	distance	year
0	Radial Velocity	1	269.300	7.10	77.40	2006
1	Radial Velocity	1	874.774	2.21	56.95	2008
2	Radial Velocity	1	763.000	2.60	19.84	2011
3	Radial Velocity	1	326.030	19.40	110.62	2007
4	Radial Velocity	1	516.220	10.50	119.47	2009

3 step-3 plot a graph

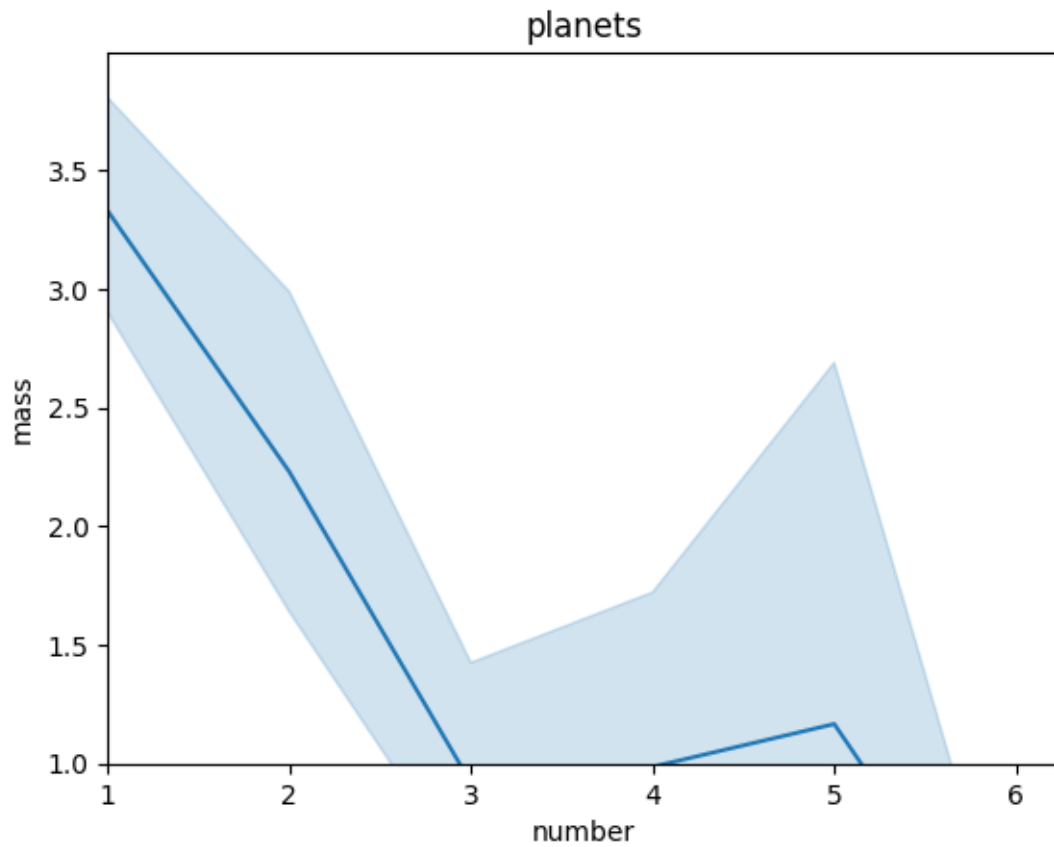
```
[ ]: sns.lineplot(x="number",y="mass",data=planets)
```

```
[ ]: <Axes: xlabel='number', ylabel='mass'>
```



```
[ ]: sns.lineplot(x="number",y="mass",data=planets)
plt.xlim(1)
plt.ylim(1)
plt.title("planets")
```

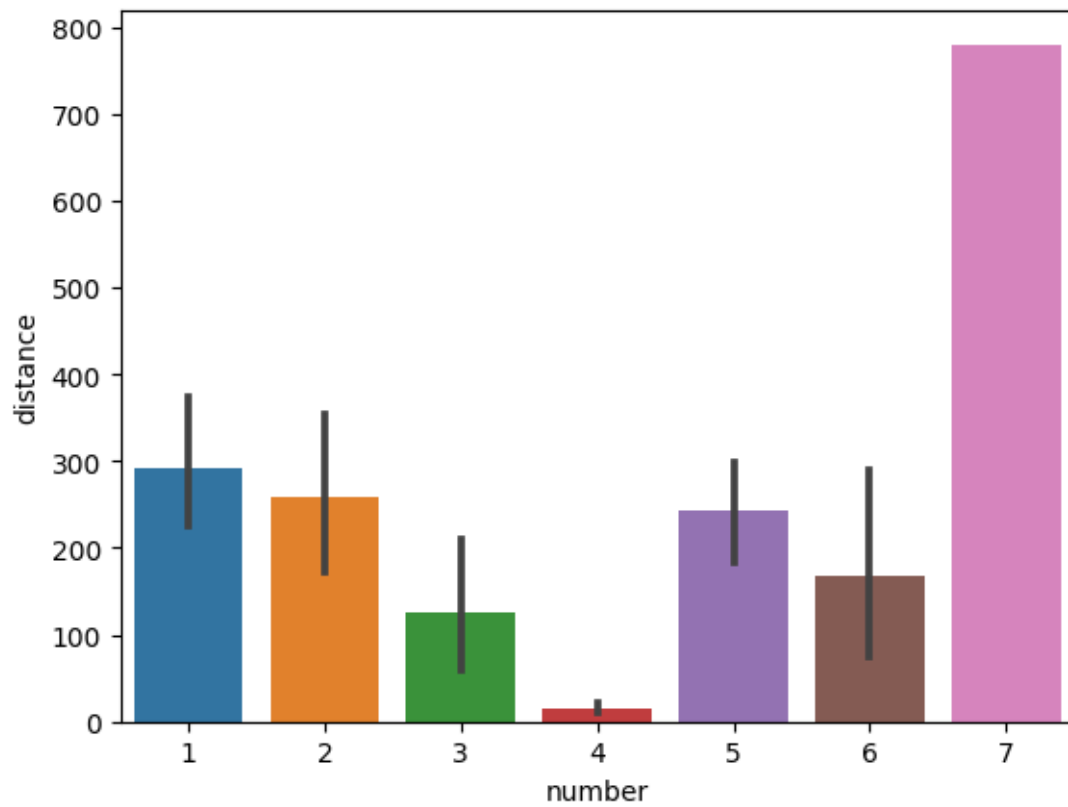
```
[ ]: Text(0.5, 1.0, 'planets')
```



#Bar plot

```
[ ]: sns.barplot(x="number",y="distance",data=planets)
```

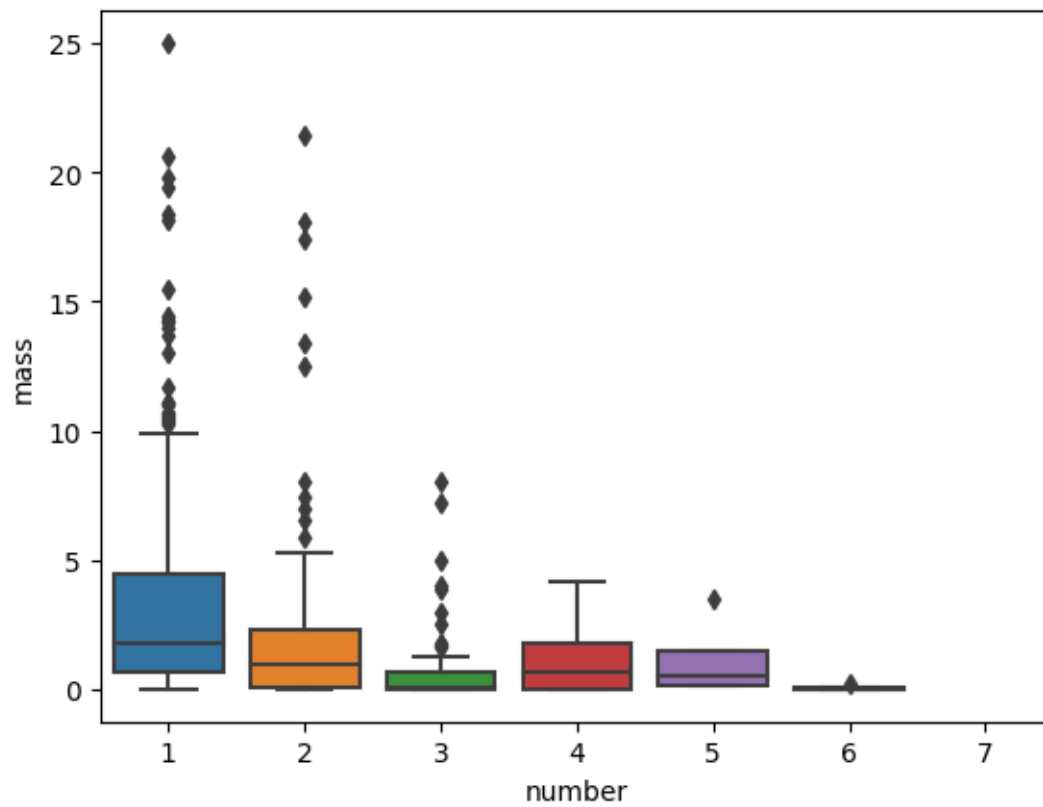
```
[ ]: <Axes: xlabel='number', ylabel='distance'>
```



4 Box plot

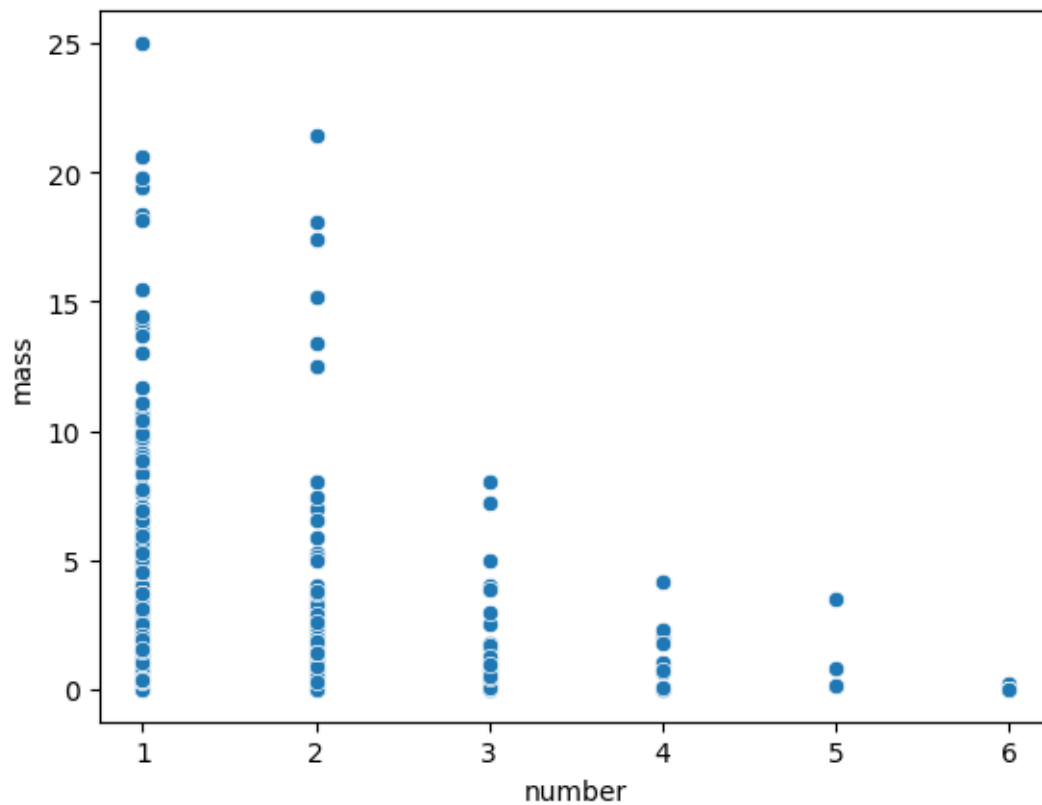
```
[ ]: sns.boxplot(x="number",y="mass",data=planets)
```

```
[ ]: <Axes: xlabel='number', ylabel='mass'>
```



```
[ ]: sns.scatterplot(x="number",y="mass",data=planets)
```

```
[ ]: <Axes: xlabel='number', ylabel='mass'>
```



#Cat plot

```
[ ]: sns.catplot(x="mass",y="orbital_period",data=pl,color="#7CFC00")
```

```
[ ]: <seaborn.axisgrid.FacetGrid at 0x7f6bd34d2920>
```

