

jn3

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# 1 Hello

## 1.1 Hello 2

notebook

```
[1]: import pandas as pd
kernel_stats = pd.read_csv("libraries_by_python_version.csv")
kernel_stats
```

```
[1]:
```

	library	kernel_python 3.4	kernel_python 3.5	kernel_python 3.6	\
0	numpy	57564	578800	2108495	
1	matplotlib	43181	438386	1625902	
2	pandas	36357	346667	1530252	
3	sklearn	14938	222672	912615	
4	os	13200	176685	592084	
5	seaborn	9578	105132	467280	
6	scipy	12898	112992	402051	
7	time	8722	86455	294717	
8	tensorflow	4212	123837	269226	
9	random	5325	75455	260000	
10	math	6389	78262	245540	
11	sys	7784	73858	250441	
12	IPython	12886	81487	229599	
13	keras	2447	67837	243403	
14	datetime	5554	46305	190586	
15	re	5898	48267	191965	
16	warnings	3822	37276	180478	
17	collections	5433	57516	177266	
18	json	3662	41972	169014	
19	requests	2429	28801	147782	

	kernel_python 3.7	kernel_python 3.8	total_count
0	1739315	87656	4571830
1	1385835	75148	3568452
2	1500068	72433	3485777
3	799426	34921	1984572
4	436535	21914	1240418

5	513018	23289	1118297
6	319311	14664	861916
7	214953	10123	614970
8	155622	5548	558445
9	185925	8177	534882
10	194693	8754	533638
11	158359	9379	499821
12	152128	7994	484094
13	120632	2653	436972
14	180519	10067	433031
15	163205	7414	416749
16	185290	6575	413441
17	116257	6051	362523
18	132836	7443	354927
19	153160	8229	340401

```
[2]: import matplotlib.pyplot as plt
plt.pie(kernel_stats['total_count'], labels=kernel_stats['library'])
plt.show()
```

