

```
from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
import pandas as pd
```

```
#pandas support zip file reads
```

```
df = pd.read_csv("/content/drive/MyDrive/Colab Notebooks/all-data-csv.zip", usecols
```

```
df
```



	latitude	longitude	power	datetime
<b>0</b>	1.0500	110.1900	-1.0	2022/08/13 04:10:00+00
<b>1</b>	-1.4566	127.4353	4.8	2022/08/11 17:30:27+00
<b>2</b>	1.0500	110.2100	-1.0	2022/08/13 04:10:00+00
<b>3</b>	1.0500	110.2300	-1.0	2022/08/13 04:10:00+00
<b>4</b>	-1.4570	127.4382	3.9	2022/08/11 17:30:27+00
...	...	...	...	...
<b>27361953</b>	-8.3100	117.9100	-1.0	2019/10/19 12:00:00+00
<b>27361954</b>	-0.1500	115.6500	-1.0	2019/10/21 10:20:00+00
<b>27361955</b>	-3.7300	105.2100	-1.0	2019/10/22 20:00:00+00
<b>27361956</b>	-8.3700	116.4500	-1.0	2019/10/23 04:50:00+00
<b>27361957</b>	-35.7700	136.9700	-1.0	2019/12/21 13:00:00+00

27361958 rows x 4 columns

```
#filter by firepower
```

```
above100_hotspots = df[df.power >= 100]
```

```
from google.colab import files
```

```
above100_hotspots.to_csv('all_time_hotspots.csv')
```

```
files.download('all_time_hotspots.csv')
```

```
#filter by datetime
```

```
above100_hotspots['datetime'] = pd.to_datetime(above100_hotspots['datetime'], format
```

/usr/local/lib/python3.7/dist-packages/ipykernel\_launcher.py:2: SettingWithCor  
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: <https://pandas.pydata.org/pandas-docs/st>

```
fire_month = [10,11,12,1,2,3]
fire_season_all = above100_hotspots.loc[above100_hotspots['datetime'].dt.month.isin
```

```
from google.colab import files
fire_season_all.to_csv('all_time_hotpots.csv')
files.download('all_time_hotpots.csv')
```

Filter data by datetime to select for 2019-2020 fire season

```
nineteen_twenty_hotspots = above100_hotspots.loc[above100_hotspots['datetime'].betw
```

```
recent_hotspots =above100_hotspots.loc[above100_hotspots['datetime'].between("2020/
```

```
from google.colab import files
nineteen_twenty_hotspots.to_csv('2019-2020hotpots.csv')
files.download('2019-2020hotpots.csv')
```

```
from google.colab import files
recent_hotspots.to_csv('2020-2021hotpots.csv')
files.download('2020-2021hotpots.csv')
```

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