

Sean Poston  
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### Brief summary:

```
Summary:
```

	Open	High	...	Adj Close	Volume
count	17191.000000	17191.000000	...	17191.000000	1.719100e+04
mean	546.966024	550.229233	...	547.091391	8.945411e+08
std	643.238592	646.567762	...	643.342927	1.531001e+09
min	16.660000	16.660000	...	16.660000	6.800000e+05
25%	85.419998	86.130001	...	85.424999	8.685000e+06
50%	164.369995	165.050003	...	164.289993	8.794000e+07
75%	1073.684998	1082.705017	...	1073.669983	1.110950e+09
max	2867.229980	2872.870117	...	2872.870117	1.145623e+10

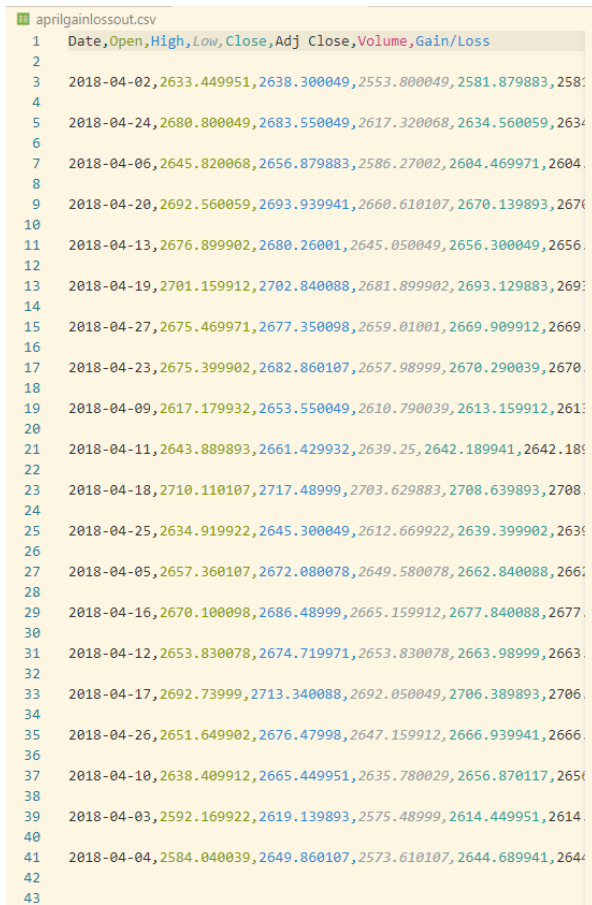
[8 rows x 6 columns]

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### “December” Sorted Gain/Loss csv:



1	Date	Open	High	Low	Close	Adj Close	Volume	Gain/Loss
2								
3	2018-04-02	2633.449951	2638.300049	2553.800049	2581.879883	2581.879883		
4								
5	2018-04-24	2680.800049	2683.550049	2617.320068	2634.560059	2634.560059		
6								
7	2018-04-06	2645.820068	2656.879883	2586.27002	2604.469971	2604.469971		
8								
9	2018-04-20	2692.560059	2693.939941	2660.610107	2670.139893	2670.139893		
10								
11	2018-04-13	2676.899902	2680.26001	2645.050049	2656.300049	2656.300049		
12								
13	2018-04-19	2701.159912	2702.840088	2681.899902	2693.129883	2693.129883		
14								
15	2018-04-27	2675.469971	2677.350098	2659.01001	2669.909912	2669.909912		
16								
17	2018-04-23	2675.399902	2682.860107	2657.98999	2670.290039	2670.290039		
18								
19	2018-04-09	2617.179932	2653.550049	2610.790039	2613.159912	2613.159912		
20								
21	2018-04-11	2643.889893	2661.429932	2639.25	2642.189941	2642.189941		
22								
23	2018-04-18	2710.110107	2717.48999	2703.629883	2708.639893	2708.639893		
24								
25	2018-04-25	2634.919922	2645.300049	2612.669922	2639.399902	2639.399902		
26								
27	2018-04-05	2657.360107	2672.080078	2649.580078	2662.840088	2662.840088		
28								
29	2018-04-16	2670.100098	2686.48999	2665.159912	2677.840088	2677.840088		
30								
31	2018-04-12	2653.830078	2674.719971	2653.830078	2663.98999	2663.98999		
32								
33	2018-04-17	2692.73999	2713.340088	2692.050049	2706.389893	2706.389893		
34								
35	2018-04-26	2651.649902	2676.47998	2647.159912	2666.939941	2666.939941		
36								
37	2018-04-10	2638.409912	2665.449951	2635.780029	2656.870117	2656.870117		
38								
39	2018-04-03	2592.169922	2619.139893	2575.48999	2614.449951	2614.449951		
40								
41	2018-04-04	2584.040039	2649.860107	2573.610107	2644.689941	2644.689941		
42								
43								

Figure 1: We switched it to April because that's when the SP500 csv ends.

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### Daily gains above 20%:

```
Empty DataFrame
Columns: [Date, Open, High, Low, Close, Adj Close, Volume]
Index: []

[Done] exited with code=0 in 0.566 seconds
```

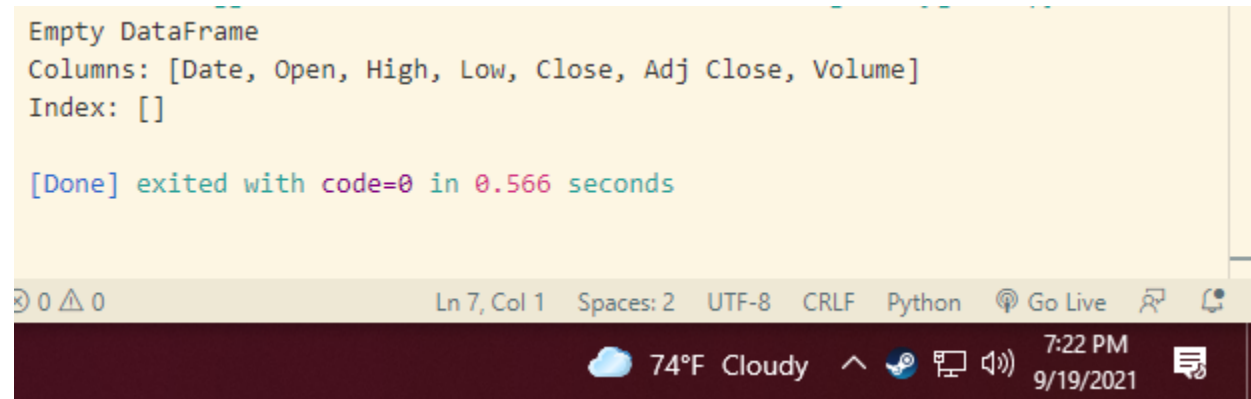
The image shows a terminal window from a Jupyter Notebook. The main area displays the output of a command: 'Empty DataFrame' followed by 'Columns: [Date, Open, High, Low, Close, Adj Close, Volume]' and 'Index: []'. Below this, a status message reads '[Done] exited with code=0 in 0.566 seconds'. The bottom of the window features a dark status bar with various icons and text, including 'Ln 7, Col 1', 'Spaces: 2', 'UTF-8', 'CRLF', 'Python', 'Go Live', and system information like '74°F Cloudy' and '7:22 PM 9/19/2021'.

Figure 2: There are none above 20%

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### Highest daily gain and loss:

Max Gain:

		Date	Open	High	...	Adj Close	Volume	Gain/Loss
14800	2008-10-28	848.919983	940.51001	...	940.51001	7096950000	91.590027	

[1 rows x 8 columns]

Max Loss:

		Date	Open	High	...	Adj Close	Volume	Gain/Loss
17136	2018-02-08	2685.01001	2685.27002	...	2581.0	5305440000	-104.01001	

⊗ 0 △ 0

Ln 7, Col 10

Spaces: 2

UTF-8

CRLF

Python

Go Live



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9/19/2021



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### Most daily transaction volume:

	Date	Open	High	...	Close	Adj Close	Volume
14788	2008-10-10	902.309998	936.359985	...	899.219971	899.219971	11456230000

[1 rows x 7 columns]

[Done] exited with code=0 in 0.561 seconds

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## Monthly report for 2017-2018:

PS C:\Users\fagge\Documents\Schoolwork> python C:\Users\fagge\Documents\Schoolwork\2017-2018\monthly.py					
Year-Month	Average_Open_Price	Average_Close_Price	Total_Volume	Gain/Loss	Date
2017-12	2666.069995	2664.340527	6.525119e+10	-1.729468	NaT
2018-01	2785.686651	2789.803816	7.686012e+10	4.117164	NaT
2018-02	2710.269467	2705.155248	7.957941e+10	-5.114219	NaT
2018-03	2707.860003	2702.773821	7.634980e+10	-5.086182	NaT
PS C:\Users\fagge\Documents\Schoolwork>					

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## Yearly Report:

Year	Average_Open_Price	Average_Close_Price	Total_Volume	Gain/Loss
1950	18.397269	18.397269	5.003000e+08	0.000000
1951	22.321888	22.321888	4.276800e+08	0.000000
1952	24.496160	24.496160	3.270400e+08	0.000000
1953	24.722590	24.722590	3.547000e+08	0.000000
1954	29.724087	29.724087	5.719800e+08	0.000000
...	...	...	...	...
2014	1930.754485	1931.376110	8.454052e+11	0.621625
2015	2061.268016	2061.067741	9.212186e+11	-0.200275
2016	2094.091550	2094.651264	9.841185e+11	0.559714
2017	2448.275888	2449.076379	8.564881e+11	0.800491
2018	2715.895794	2713.829129	2.987034e+11	-2.066665

[69 rows x 4 columns]  
Max Gain Year:

Year	Average_Open_Price	Average_Close_Price	Total_Volume	Gain/Loss
2013	1642.298649	1643.798968	8.464596e+11	1.500319

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## 5 Year Report:

	Year	Open	Close	Volume	Gain/Loss
[	1950.00	23.95	23.95	1743964.83	0.00]
[	1955.00	47.08	47.08	2644725.97	0.00]
[	1960.00	67.19	67.20	4083229.91	0.01]
[	1965.00	92.22	92.23	9560284.55	0.01]
[	1970.00	96.22	96.20	14702234.55	-0.02]
[	1975.00	97.15	97.18	24324072.90	0.03]
[	1980.00	137.54	137.59	66712666.14	0.05]
[	1985.00	259.89	260.04	153353106.18	0.15]
[	1990.00	407.92	408.01	218952935.13	0.08]
[	1995.00	899.22	900.02	552967646.59	0.80]
[	2000.00	1143.19	1142.99	1301902541.83	-0.19]
[	2005.00	1233.29	1233.31	3634959483.31	0.03]
[	2010.00	1473.06	1473.75	3808072999.20	0.67]
[	2015.00	2252.97	2253.13	3665838800.96	0.16]]

Most profitable year: 1995.0

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