Dataset backup (in case Yahoo API breaks)

In [54]: ▶| `%config InlineBackend.figure_format = 'retina'`

In [13]: ▶| `%run ../tools/dataloader.py`

In [19]: ▶| `DowJones = DataLoader('^DJI', '1992-01-02', '2020-05-23')`

In [20]: ▶| `DAX = DataLoader('^GDAXI', '1987-12-30', '2020-05-23')`

In [30]: ▶| `Nikkei = DataLoader('^N225', '1970-01-05', '2020-05-23')`

In [22]: ▶| `CAC40 = DataLoader('^FCHI', '1990-03-01', '2020-05-23')`

In [23]: ▶| `NASDAQ = DataLoader('^IXIC', '1971-02-05', '2020-05-23')`

In [24]: ▶| `Ford = DataLoader('F', '1972-06-01', '2020-05-23')`

In [31]: ▶| `Cola = DataLoader('KO', '1970-01-02', '2020-05-23')`

In [26]: ▶| `Google = DataLoader('GOOG', '2004-08-19', '2020-05-23')`

In [32]: ▶| `DowJones.statistics()`

Out[32]:

	High	Low	Open	Close	Volume	Adj Close
count	7152.000000	7152.000000	7152.000000	7152.000000	7.152000e+03	7152.000000
mean	11971.229621	11826.729967	11900.284111	11903.151897	1.727811e+08	11903.151897
std	6092.348137	6039.609369	6067.283327	6067.014223	1.216699e+08	6067.014223
min	3172.629883	3095.790039	3136.600098	3136.600098	8.410000e+06	3136.600098
25%	8467.087158	8259.767334	8367.769775	8370.099609	7.140000e+07	8370.099609
50%	10741.589844	10605.005371	10668.649902	10674.569824	1.657150e+08	10674.569824
75%	14749.760010	14598.520020	14670.632812	14674.169922	2.492650e+08	14674.169922
max	29568.570312	29406.750000	29440.470703	29551.419922	9.159900e+08	29551.419922

In [55]: ▶| `DowJones.plotting()`
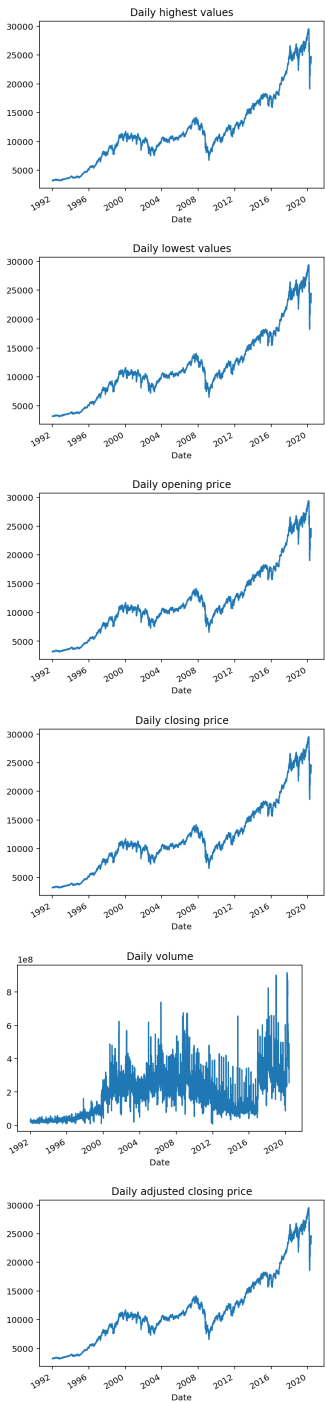
In [33]: `DowJones.save_frame('DowJones')`

In [34]: `DAX.statistics()`

Out[34]:

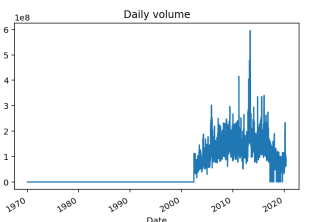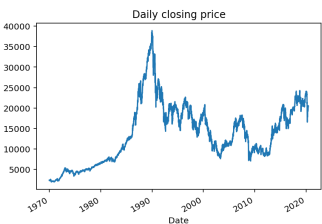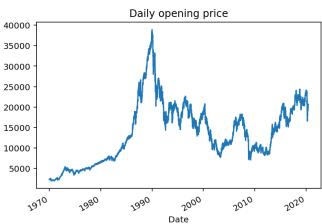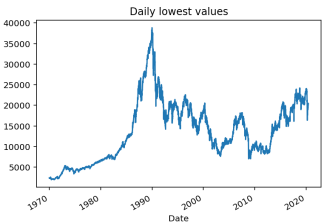|	High	Low	Open	Close	Volume	Adj Close
count	8180.000000	8180.000000	8180.000000	8180.000000	8.180000e+03	8180.000000
mean	5716.302415	5632.115345	5676.428416	5675.583752	6.797637e+07	5675.583752
std	3461.512695	3417.728648	3440.733033	3440.067097	6.553391e+07	3440.067097
min	936.000000	936.000000	936.000000	936.000000	0.000000e+00	936.000000
25%	2457.155029	2421.012512	2437.695068	2437.387512	0.000000e+00	2437.387512
50%	5329.280029	5233.745117	5283.760010	5283.654785	7.325905e+07	5283.654785
75%	7597.777466	7474.869873	7539.172607	7532.045044	1.074308e+08	7532.045044
max	13795.240234	13754.040039	13774.440430	13789.000000	5.101956e+08	13789.000000

In [56]: `DAX.plotting()`

Daily highest values

Daily lowest values

Daily opening price

Daily closing price

Daily volume

Daily adjusted closing price
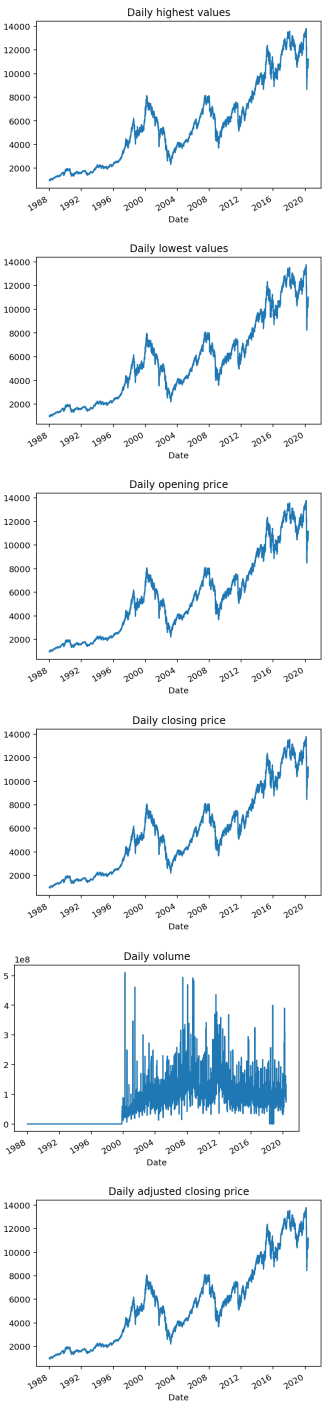
In [35]: ▶| `DAX.save_frame('Dax')`

In [36]: ▶| `Nikkei.statistics()`

Out[36]:

	High	Low	Open	Close	Volume	Adj Close
count	12397.000000	12397.000000	12397.000000	12397.000000	1.239700e+04	12397.000000
mean	13779.960440	13627.955711	13707.483806	13703.800372	4.304931e+07	13703.800372
std	7467.709417	7371.384215	7422.306827	7419.980057	6.599569e+07	7419.980057
min	1929.640015	1929.640015	1929.640015	1929.640015	0.000000e+00	1929.640015
25%	7685.359863	7678.459961	7681.839844	7681.839844	0.000000e+00	7681.839844
50%	13125.339844	12972.549805	13034.190430	13026.059570	0.000000e+00	13026.059570
75%	18924.380859	18694.929688	18823.910156	18810.359375	9.040000e+07	18810.359375
max	38957.441406	38827.710938	38921.648438	38915.871094	5.952000e+08	38915.871094

In [57]: ▶| `Nikkei.plotting()`
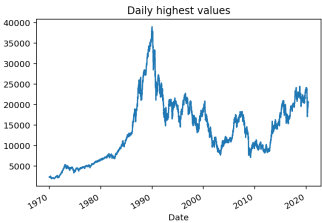
In [38]: ▶| `Nikkei.save_frame('Nikkei')`

In [39]: ▶| `CAC40.statistics()`

Out[39]:

	High	Low	Open	Close	Volume	Adj Close
count	7664.000000	7664.000000	7664.000000	7664.000000	7.664000e+03	7664.000000
mean	3840.616221	3783.748391	3813.730170	3813.049227	6.332359e+07	3813.049227
std	1320.401954	1305.316163	1313.321110	1312.739348	7.060104e+07	1312.739348
min	1459.000000	1425.000000	1438.000000	1441.000000	0.000000e+00	1441.000000
25%	2859.149963	2785.282593	2822.495056	2822.782410	0.000000e+00	2822.782410
50%	3925.335083	3865.294922	3896.454956	3899.619995	5.911970e+07	3899.619995
75%	4879.517456	4812.707397	4844.152466	4847.184814	1.154388e+08	4847.184814
max	6944.770020	6838.700195	6929.049805	6922.330078	5.312476e+08	6922.330078

In [58]: ▶| `CAC40.plotting()`
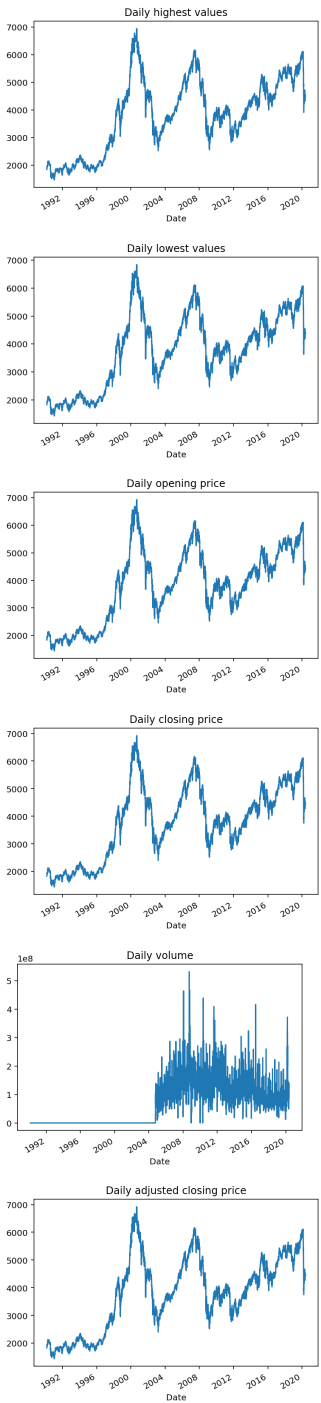
In [40]: ▶| `CAC40.save_frame('Cac40')`

In [41]: ▶| `NASDAQ.statistics()`

Out[41]:

	High	Low	Open	Close	Volume	Adj Close
count	12434.000000	12434.000000	12434.000000	12434.000000	1.243400e+04	12434.000000
mean	1788.462467	1763.762842	1776.941943	1776.839547	9.109593e+08	1776.839547
std	2050.265868	2023.218211	2037.460096	2037.673449	9.504488e+08	2037.673449
min	54.869999	54.869999	54.869999	54.869999	0.000000e+00	54.869999
25%	245.362503	244.832497	244.949997	245.199997	0.000000e+00	245.199997
50%	1022.109985	1007.720001	1016.724976	1016.600006	4.208750e+08	1016.600006
75%	2481.272400	2440.742554	2461.674988	2464.072571	1.813148e+09	2464.072571
max	9838.370117	9777.099609	9799.200195	9817.179688	5.301170e+09	9817.179688

In [59]: ▶| `NASDAQ.plotting()`

In [42]: ▶| NASDAQ.save_frame('NASDAQ')

In [43]: ▶| Ford.statistics()

Out[43]:

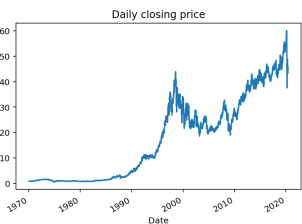|	High	Low	Open	Close	Volume	Adj Close
count	12100.000000	12100.000000	12100.000000	12100.000000	1.210000e+04	12100.000000
mean	9.352238	9.111059	9.236624	9.230205	1.987101e+07	5.221475
std	7.239246	7.039939	7.139203	7.136131	2.860743e+07	4.517777
min	0.648804	0.638667	0.000000	0.643736	2.990110e+05	0.141868
25%	2.509049	2.416543	2.472934	2.467738	4.216590e+06	0.659352
50%	8.895718	8.690432	8.800000	8.800000	8.409952e+06	4.562365
75%	12.540000	12.273646	12.420000	12.400000	2.657611e+07	8.847938
max	37.300335	35.720394	36.819485	36.647751	5.411756e+08	18.928154

In [60]: ▶| Ford.plotting()
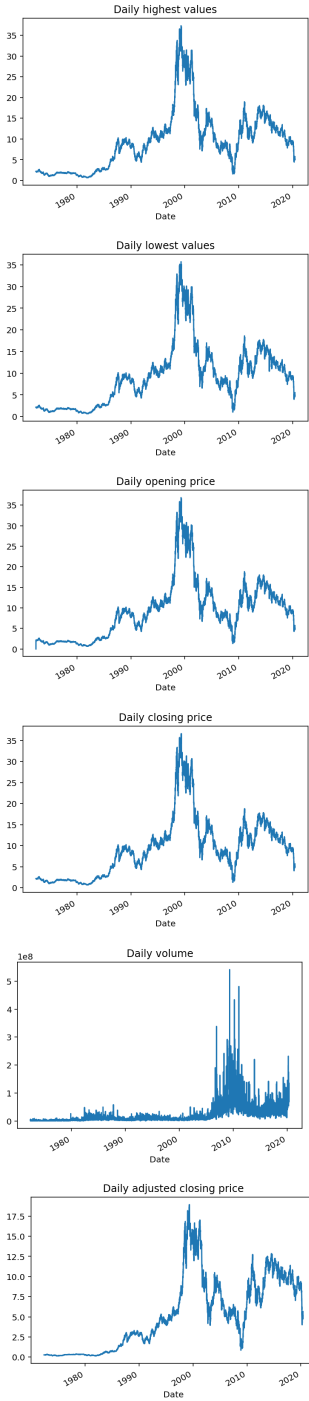
In [44]: ▶| `Ford.save_frame('Ford')`

In [45]: ▶| `Cola.statistics()`

Out[45]:

	High	Low	Open	Close	Volume	Adj Close
count	12712.000000	12712.000000	12712.000000	12712.000000	1.271200e+04	12712.000000
mean	17.510413	17.218911	17.365585	17.371688	1.006896e+07	12.171274
std	16.242031	16.002567	16.123032	16.127070	7.785266e+06	13.422146
min	0.489583	0.464844	0.485677	0.481771	2.016000e+05	0.122822
25%	1.254883	1.231771	1.244141	1.242188	4.652100e+06	0.374143
50%	13.671875	13.468750	13.500000	13.562500	8.632850e+06	7.219496
75%	30.033438	29.406250	29.750000	29.750000	1.353625e+07	18.353285
max	60.130001	59.619999	59.810001	60.130001	1.241690e+08	57.660461

In [61]: ▶| `Cola.plotting()`

Daily highest values

Daily lowest values

Daily opening price

Daily closing price

Daily volume

Daily adjusted closing price
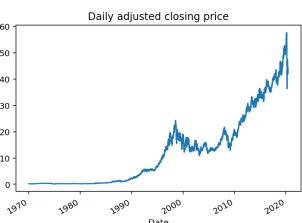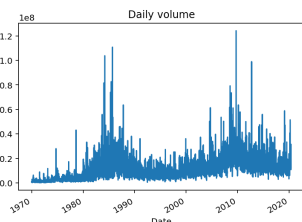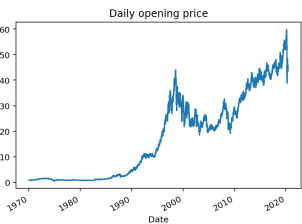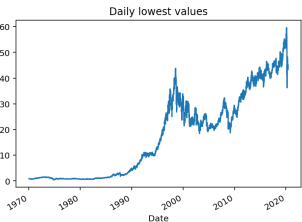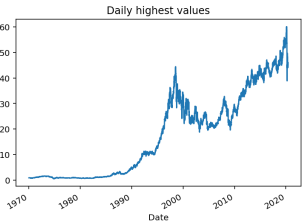
In [46]: ▶| ```Cola.save_frame('Cola')```

In [47]: ▶| ```Google.statistics()```

Out[47]:

	High	Low	Open	Close	Volume	Adj Close
count	3968.000000	3968.000000	3968.000000	3968.000000	3.968000e+03	3968.000000
mean	515.444400	505.756913	510.691093	510.741458	6.966333e+06	510.741458
std	362.933445	356.724696	359.701072	360.050524	8.016034e+06	360.050524
min	50.680038	47.800831	49.409801	49.818268	7.922000e+03	49.818268
25%	241.199677	236.147362	239.097549	238.476131	1.741277e+06	238.476131
50%	336.361725	328.867325	333.001831	332.874802	4.251135e+06	332.874802
75%	754.150009	740.235001	748.547516	747.977493	8.889947e+06	747.977493
max	1532.105957	1521.400024	1525.069946	1526.689941	8.254163e+07	1526.689941

In [62]: ▶| ```Google.plotting()```
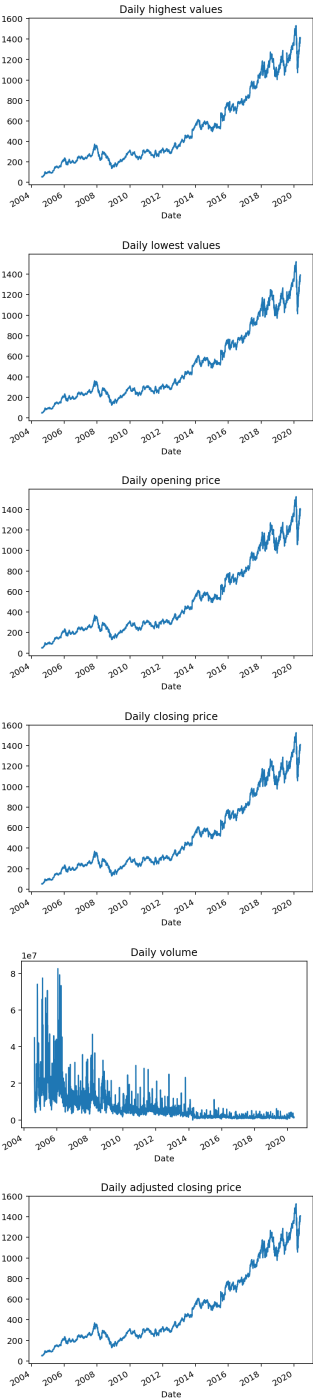
In [48]: ▶| ```Google.save_frame('Google')```