
efinance

Release 0.3.3

micro sheep

Aug 08, 2021

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efinance Python

INSTALLATION

- pip

```
pip install efinance
```

- pip

```
pip install efinance --upgrade
```

-

```
git clone https://github.com/Micro-sheep/efinance  
cd efinance  
pip install -e .
```


EXAMPLES

2.1 Stock

- K

```
>>> import efinance as ef
>>> #
>>> stock_code = '600519'
>>> ef.stock.get_quote_history(stock_code)

0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318.0  1.410347e+09  -
↪1.10  0.92  0.83  56.83
1      600519  2001-08-28  -89.64  -89.27  -89.24  -89.72  129647.0  4.634630e+08  -
↪0.54  0.29  0.26  18.13
2      600519  2001-08-29  -89.24  -89.36  -89.24  -89.42  53252.0  1.946890e+08  -
↪0.20 -0.10 -0.09  7.45
3      600519  2001-08-30  -89.38  -89.22  -89.14  -89.44  48013.0  1.775580e+08  -
↪0.34  0.16  0.14  6.72
4      600519  2001-08-31  -89.21  -89.24  -89.12  -89.28  23231.0  8.623100e+07  -
↪0.18 -0.02 -0.02  3.25
...
↪
4756   600519  2021-07-23  1937.82  1900.00  1937.82  1895.09  47585.0  9.057762e+09  ↪
↪2.20 -2.06 -40.01  0.38
4757   600519  2021-07-26  1879.00  1804.11  1879.00  1780.00  98619.0  1.789436e+10  ↪
↪5.21 -5.05 -95.89  0.79
4758   600519  2021-07-27  1803.00  1712.89  1810.00  1703.00  86577.0  1.523081e+10  ↪
↪5.93 -5.06 -91.22  0.69
4759   600519  2021-07-28  1703.00  1768.90  1788.20  1682.12  85369.0  1.479247e+10  ↪
↪6.19  3.27  56.01  0.68
4760   600519  2021-07-29  1810.01  1740.00  1823.00  1734.34  51035.0  9.067345e+09  ↪
↪5.01 -1.63 -28.90  0.41

[4761 rows x 13 columns]
```

- A K

```
>>> import efinance as ef
>>> #
>>> stock_code = 'AAPL'
>>> ef.stock.get_quote_history(stock_code)
```

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```

0      AAPL 1984-09-07 -5.37 -5.37 -5.36 -5.37 2981600.0 0.000000e+00 0.
↳00 0.00 0.00 0.02
1      AAPL 1984-09-10 -5.37 -5.37 -5.36 -5.37 2346400.0 0.000000e+00 -0.
↳19 0.00 0.00 0.01
2      AAPL 1984-09-11 -5.36 -5.36 -5.36 -5.36 5444000.0 0.000000e+00 0.
↳00 0.19 0.01 0.03
3      AAPL 1984-09-12 -5.36 -5.37 -5.36 -5.37 4773600.0 0.000000e+00 -0.
↳19 -0.19 -0.01 0.03
4      AAPL 1984-09-13 -5.36 -5.36 -5.36 -5.36 7429600.0 0.000000e+00 0.
↳00 0.19 0.01 0.04
... ..
↳... ..
8739   AAPL 2021-07-22 145.94 146.80 148.19 145.81 77338156.0 1.137623e+10 1.
↳64 0.96 1.40 0.47
8740   AAPL 2021-07-23 147.55 148.56 148.72 146.92 71447416.0 1.058233e+10 1.
↳23 1.20 1.76 0.43
8741   AAPL 2021-07-26 148.27 148.99 149.83 147.70 72434089.0 1.080774e+10 1.
↳43 0.29 0.43 0.44
8742   AAPL 2021-07-27 149.12 146.77 149.21 145.55 104818578.0 1.540140e+10 2.
↳46 -1.49 -2.22 0.63
8743   AAPL 2021-07-28 144.81 144.98 146.97 142.54 118931191.0 1.723188e+10 3.
↳02 -1.22 -1.79 0.72

[8744 rows x 13 columns]

>>> #
>>> stock_name = ''
>>> ef.stock.get_quote_history(stock_name)

0      MSFT 1986-03-13 -20.74 -20.73 -20.73 -20.74 1.031789e+09 0.000000e+00 0.
↳00 0.00 0.00 13.72
1      MSFT 1986-03-14 -20.73 -20.73 -20.73 -20.73 3.081600e+08 0.000000e+00 0.
↳00 0.00 0.00 4.10
2      MSFT 1986-03-17 -20.73 -20.73 -20.73 -20.73 1.331712e+08 0.000000e+00 0.
↳00 0.00 0.00 1.77
3      MSFT 1986-03-18 -20.73 -20.73 -20.73 -20.73 6.776640e+07 0.000000e+00 0.
↳00 0.00 0.00 0.90
4      MSFT 1986-03-19 -20.73 -20.73 -20.73 -20.73 4.789440e+07 0.000000e+00 0.
↳00 0.00 0.00 0.64
... ..
↳... ..
8357   MSFT 2021-07-22 283.84 286.14 286.42 283.42 2.338406e+07 6.677062e+09 1.
↳07 1.68 4.74 0.31
8358   MSFT 2021-07-23 287.37 289.67 289.99 286.50 2.276807e+07 6.578686e+09 1.
↳22 1.23 3.53 0.30
8359   MSFT 2021-07-26 289.00 289.05 289.69 286.64 2.317607e+07 6.685868e+09 1.
↳05 -0.21 -0.62 0.31
8360   MSFT 2021-07-27 289.43 286.54 289.58 282.95 3.360407e+07 9.599993e+09 2.
↳29 -0.87 -2.51 0.45
8361   MSFT 2021-07-28 288.99 286.22 290.15 283.83 3.356685e+07 9.638499e+09 2.
↳21 -0.11 -0.32 0.45

```

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[8362 rows x 13 columns]

• ETF K

```

>>> import efinance as ef
>>> # ETF ETF
>>> etf_code = '513050'
>>> ef.stock.get_quote_history(etf_code)

```

0	ETF	513050	2017-01-18	0.989	0.977	0.989	0.969	345605.0	3.381795e+07	0.
↪00	0.00	0.000	0.26							
1	ETF	513050	2017-01-19	0.978	0.989	0.990	0.978	257716.0	2.542553e+07	1.
↪23	1.23	0.012	0.19							
2	ETF	513050	2017-01-20	0.989	0.988	0.990	0.986	50980.0	5.043289e+06	0.
↪40	-0.10	-0.001	0.04							
3	ETF	513050	2017-01-23	0.988	0.988	0.989	0.986	13739.0	1.356129e+06	0.
↪30	0.00	0.000	0.01							
4	ETF	513050	2017-01-24	0.989	0.989	0.992	0.987	17937.0	1.774398e+06	0.
↪51	0.10	0.001	0.01							
...
↪							
1097	ETF	513050	2021-07-23	1.789	1.760	1.789	1.758	4427623.0	7.836530e+08	1.
↪73	-1.51	-0.027	3.32							
1098	ETF	513050	2021-07-26	1.679	1.645	1.698	1.642	13035366.0	2.182816e+09	3.
↪18	-6.53	-0.115	9.78							
1099	ETF	513050	2021-07-27	1.600	1.547	1.620	1.546	14269546.0	2.257610e+09	4.
↪50	-5.96	-0.098	10.70							
1100	ETF	513050	2021-07-28	1.545	1.552	1.578	1.506	13141023.0	2.024106e+09	4.
↪65	0.32	0.005	9.85							
1101	ETF	513050	2021-07-29	1.615	1.641	1.651	1.606	10658041.0	1.734404e+09	2.
↪90	5.73	0.089	7.99							

[1102 rows x 13 columns]

• 5 K

```

>>> import efinance as ef
>>> #
>>> stock_code = '600519'
>>> # 5
>>> frequency = 5
>>> ef.stock.get_quote_history(stock_code, klt=frequency)

```

0	600519	2021-06-16	09:35	2172.71	2159.71	2175.71	2150.74	1885.0	411159309.
↪0	1.15	-0.64	-14.00	0.02					
1	600519	2021-06-16	09:40	2156.69	2148.71	2160.48	2143.37	1238.0	268790684.
↪0	0.79	-0.51	-11.00	0.01					
2	600519	2021-06-16	09:45	2149.79	2159.71	2160.69	2149.79	706.0	153631002.
↪0	0.51	0.51	11.00	0.01					
3	600519	2021-06-16	09:50	2159.61	2148.87	2159.71	2148.87	586.0	127346502.
↪0	0.50	-0.50	-10.84	0.00					

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```

4      600519 2021-06-16 09:55 2148.87 2161.04 2163.71 2148.72 788.0 171491075.
↪0 0.70 0.57 12.17 0.01
...
↪ ...
1521   600519 2021-07-29 13:50 1746.51 1746.09 1748.95 1746.01 738.0 128889575.
↪0 0.17 -0.09 -1.49 0.01
1522   600519 2021-07-29 13:55 1746.08 1742.01 1746.09 1741.96 831.0 144968679.
↪0 0.24 -0.23 -4.08 0.01
1523   600519 2021-07-29 14:00 1742.00 1739.58 1742.00 1739.58 864.0 150446840.
↪0 0.14 -0.14 -2.43 0.01
1524   600519 2021-07-29 14:05 1741.87 1740.00 1745.00 1738.88 1083.0 188427970.
↪0 0.35 0.02 0.42 0.01
1525   600519 2021-07-29 14:10 1740.00 1740.02 1740.10 1740.00 59.0 10315488.
↪0 0.01 0.00 0.02 0.00

[1526 rows x 13 columns]

```

- A

```

>>> import efinance as ef
>>> ef.stock.get_realtime_quotes()

↪ ID
0      301040      N 232.5  45.12  47.0  41.59  31.55  31.99  37.65  75835  ↪
↪326605808.0  13.57  4512000000  1069732980  0.301040  A
1      300170      20.06  8.56  8.56  7.15  1.43  5.08  106.52  407546  ↪
↪332785856.0  7.13  7567296355  6870207362  0.300170  A
2      300507      20.02  11.51  11.51  10.5  1.92  4.23  59.52  114496  ↪
↪130379634.0  9.59  4935230130  3115078785  0.300507  A
3      688316 -U 20.0  83.63  83.63  70.0  13.94  6.97 -16.13  7549  ↪
↪61164447.0  69.69  3969261695  906141587  1.688316  A
4      688682      20.0  181.18  181.18  164.51  30.2  5.09  385.91  3825  ↪
↪67932577.0  150.98  6703660000  1361951077  1.688682  A
...
↪ ...
4589  603717      -10.01  12.76  14.37  12.76 -1.42  1.8  177.77  43418  ↪
↪57832957.0  14.18  3702266022  3085320022  1.603717  A
4590  300118      -12.1  17.8  19.73  17.66 -2.45  5.16  71.75  463982  ↪
↪850671248.0  20.25  16044206950  16010137750  0.300118  A
4591  300511      -12.18  6.92  7.33  6.86 -0.96  5.49  7.54  173540  ↪
↪121601875.0  7.88  3058027386  2186186828  0.300511  A
4592  688390      -13.01  491.47  545.0  485.55 -73.53  4.15  154.62  8685  ↪
↪442019520.0  565.0  43249360000  10294048516  1.688390  A
4593  300763      -15.7  244.88  278.0  244.8 -45.61  3.89  127.29  41721  ↪
↪1068257728.0  290.49  60627450640  26288632270  0.300763  A

[4594 rows x 16 columns]

```

2.2 Fund

•

```
>>> import efinance as ef
>>> ef.fund.get_quote_history('161725')

0    2021-07-29  1.2726  2.9037  -1.52
1    2021-07-28  1.2922  2.9233   0.85
2    2021-07-27  1.2813  2.9124  -3.6
3    2021-07-26  1.3292  2.9603  -7.24
4    2021-07-23  1.4329  3.0640  -2.29
...
1502 2015-06-08  1.0380  1.0380  2.5692
1503 2015-06-05  1.0120  1.0120  1.5045
1504 2015-06-04  0.9970  0.9970   --
1505 2015-05-29  0.9950  0.9950   --
1506 2015-05-27  1.0000  1.0000   --

[1507 rows x 4 columns]
```

•

```
>>> import efinance as ef
>>> #
>>> ef.fund.get_inverst_position('161725')

0 161725 000858    14.88  1.45
1 161725 600519    14.16 -0.86
2 161725 600809    14.03 -0.83
3 161725 000568    13.02 -2.96
4 161725 002304    12.72  1.31
5 161725 000799     5.77  1.34
6 161725 603369     3.46 -0.48
7 161725 000596     2.81 -0.29
8 161725 600779     2.52  2.52
9 161725 603589     2.48 -0.38
```

•

```
>>> import efinance as ef
>>> #
>>> ef.fund.get_base_info(['161725', '005827'])
0 161725 (LOF)A 2015-05-27 -6.03 1.1959 2021-07-30
1 005827      2018-09-05 -2.98 2.4967 2021-07-30 A+H
```

2.3 Bond

```
>>> import efinance as ef
>>> ef.bond.get_realtime_quotes()

↪ ID
0 123015 13.49 198.613 205.0 175.5 23.613 315.36 - 316062 ↪
↪613480512.0 175.0 199056701 199056701 0.123015 A
1 123077 9.59 115.51 122.971 105.401 10.11 32.59 - 305380 ↪
↪358093216.0 105.4 1082332396 1082332396 0.123077 A
2 123066 8.08 232.377 245.8 225.0 17.377 470.3 - 454204 ↪
↪1081363632.0 215.0 224423665 224423665 0.123066 A
3 128093 7.69 360.751 367.9 335.5 25.751 343.84 - 558874 ↪
↪1984944768.0 335.0 586364315 586364315 0.128093 A
4 128082 7.41 158.507 163.769 147.089 10.935 103.16 - 226444 ↪
↪355827984.0 147.572 347931900 347931900 0.128082 A
... ..
↪ ... ..
383 123087 -4.34 151.75 169.0 150.302 -6.879 117.66 - 520370 ↪
↪817884784.0 158.629 671147760 671147760 0.123087 A
384 123070 -4.63 175.001 179.799 174.471 -8.499 18.46 - 144998 ↪
↪257005833.0 183.5 1374730681 1374730681 0.123070 A
385 123027 -4.67 338.413 352.825 338.015 -16.586 44.23 - 47356 ↪
↪162870853.0 354.999 362300558 362300558 0.123027 A
386 113621 -5.03 215.61 222.5 214.41 -11.41 11.46 - 91710 ↪
↪200327611.0 227.02 1725268098 1725268098 1.113621 A
387 123047 -5.7 305.5 319.52 305.382 -18.47 122.41 - 193587 ↪
↪600277600.0 323.97 483119533 483119533 0.123047 A

[388 rows x 16 columns]
```

```
>>> import efinance as ef
>>> ef.bond.get_all_base_info()

          () (%)          () ↪
↪
0 123120 300263 AA- 2021-07-30 00:00:00 7.989283 NaN ↪
↪None 2027-07-30 00:00:00 6 0.40%0.70%1.00%1.60%2.... ↪
1 110081 600745 AA+ 2021-07-28 00:00:00 86.000000 0.044030 ↪
↪None 2027-07-28 00:00:00 6 0.10%0.20%0.30%1.50%1.80%... ↪
2 118001 688598 A+ 2021-07-23 00:00:00 5.999010 0.001771 ↪
↪None 2027-07-23 00:00:00 6 0.50%0.70%1.20%1.80%2.40%... ↪
3 123119 2 300601 AA 2021-07-15 00:00:00 20.000000 0.014182 ↪
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1.... ↪
4 113627 603877 AA 2021-07-15 00:00:00 8.000000 0.000542 ↪
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1.80%... ↪
... ..
↪ ... ..
↪ ... ..
80 110227 600227 AAA 2007-10-10 00:00:00 4.500000 0.158854 2007-10-23 ↪
↪00:00:00 2009-05-25 00:00:00 1.6192 :1.5%1.8%2.... ↪
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```

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81	126006	07	600548	AAA	2007-10-09	00:00:00	15.000000	0.290304	2007-10-30	↳
↳00:00:00	2013-10-09	00:00:00	6							↳
↳None										
82	110971		600971	AAA	2007-09-24	00:00:00	4.000000	5.311774	2007-10-12	↳
↳00:00:00	2009-12-21	00:00:00	2.2484				:1.5%,1.8%,2.1%,2...			
83	110567		600567	AA	2007-09-05	00:00:00	4.700000	0.496391	2007-09-17	↳
↳00:00:00	2010-02-01	00:00:00	2.4055				:1.4%,1.7%,2...			
84	110026		600026	AAA	2007-07-02	00:00:00	20.000000	1.333453	2007-07-12	↳
↳00:00:00	2008-03-27	00:00:00	0.737				:1.84%,2.05%,2.26%,2.47%,...			

[585 rows x 12 columns]

- K stock

```
>>> import efinance as ef
>>> # 3
>>> bond_code = '123111'
>>> ef.bond.get_quote_history(bond_code)
```

0	3	123111	2021-04-23	130.000	130.000	130.000	130.000	1836427	2.387355e+09	0.
↳00	30.00	30.000	11.62							
1	3	123111	2021-04-26	130.353	130.010	133.880	125.110	8610944	1.126033e+10	6.
↳75	0.01	0.010	54.50							
2	3	123111	2021-04-27	129.000	129.600	130.846	128.400	1820766	2.357472e+09	1.
↳88	-0.32	-0.410	11.52							
3	3	123111	2021-04-28	129.100	130.770	131.663	128.903	1467727	1.921641e+09	2.
↳13	0.90	1.170	9.29							
4	3	123111	2021-04-29	130.690	131.208	133.150	130.560	1156934	1.525974e+09	1.
↳98	0.33	0.438	7.32							
...
↳
61	3	123111	2021-07-23	160.000	157.100	166.200	156.660	749059	1.201969e+09	5.
↳98	-1.47	-2.350	4.74							
62	3	123111	2021-07-26	157.980	154.011	160.200	153.610	620403	9.696688e+08	4.
↳19	-1.97	-3.089	3.93							
63	3	123111	2021-07-27	155.240	150.810	156.509	150.250	569574	8.709329e+08	4.
↳06	-2.08	-3.201	3.60							
64	3	123111	2021-07-28	150.410	148.790	152.910	147.220	911562	1.359813e+09	3.
↳77	-1.34	-2.020	5.77							
65	3	123111	2021-07-29	152.000	158.210	159.600	151.400	1061348	1.655937e+09	5.
↳51	6.33	9.420	6.72							

[66 rows x 13 columns]

2.4 Futures

```
>>> import efinance as ef
>>> ef.futures.get_futures_base_info()
      secid
0      jmm      114.jmm
1  jm2109  2109  114.jm2109
2  ss2204  2204  113.ss2204
3  jm2110  2110  114.jm2110
4  jm2111  2111  114.jm2111
..      ...      ...      ...      ...
782  i2108  2108  114.i2108
783  i2112  2112  114.i2112
784  i2203  2203  114.i2203
785      im      114.im
786  i2109  2109  114.i2109

[787 rows x 4 columns]
```

```
>>> import efinance as ef
>>> # secid
>>> secid = '115.ZCM'
>>> ef.futures.get_quote_history(secid)
0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.00  ↵
↵0.0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.32  -
↵1.4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.23  -
↵1.0  0.0
3      ZCM  2015-05-21  438.0  443.2  446.8  437.8      37  1.631850e+06  2.06  1.65  ↵
↵7.2  0.0
4      ZCM  2015-05-22  439.2  441.4  443.8  439.2      34  1.502500e+06  1.04  0.09  ↵
↵0.4  0.0
...      ...      ...      ...      ...      ...      ...      ...      ...      ...      ...
↵.      ...      ...
1509   ZCM  2021-07-27  897.0  892.4  915.8  888.0  109033  9.802067e+09  3.10 -0.53  -
↵4.8  0.0
1510   ZCM  2021-07-28  892.4  902.4  909.6  890.4   89853  8.086770e+09  2.14  0.38  ↵
↵3.4  0.0
1511   ZCM  2021-07-29  902.6  918.6  919.0  900.4   83106  7.562646e+09  2.07  2.07  ↵
↵18.6  0.0
1512   ZCM  2021-07-30  918.6  927.2  943.0  906.2  129862  1.202003e+10  4.04  1.89  ↵
↵17.2  0.0
1513   ZCM  2021-08-02  898.0  870.0  898.0  852.4  101722  8.900675e+09  4.93 -6.01  -
↵55.6  0.0

[1514 rows x 13 columns]
```

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```

>>> secids = ['115.ZCM','115.ZC109']
>>> futures_df = ef.futures.get_quote_history(secids)
>>> type(futures_df)
<class 'dict'>
>>> futures_df.keys()
dict_keys(['115.ZC109', '115.ZCM'])
>>> futures_df['115.ZC109']

0    109  ZC109  2020-09-09  551.2  551.2  551.2  551.2      2  1.102400e+05  0.00  0.
↪00  0.0  0.0
1    109  ZC109  2020-09-10  548.6  545.0  549.8  545.0      6  3.289200e+05  0.87 -1.
↪12 -6.2  0.0
2    109  ZC109  2020-09-11  545.0  544.2  548.4  543.0      7  3.815000e+05  0.99 -0.
↪73 -4.0  0.0
3    109  ZC109  2020-09-14  546.0  550.4  550.4  546.0      7  3.843000e+05  0.81  0.
↪99  5.4  0.0
4    109  ZC109  2020-09-15  549.0  551.2  551.6  549.0     14  7.705600e+05  0.47  0.
↪40  2.2  0.0
..     ..     ..     ..     ..     ..     ..     ..     ..     ..     ..     ..
↪...  ...  ...
212  109  ZC109  2021-07-27  897.0  892.4  915.8  888.0   109033  9.802067e+09  3.10 -0.
↪53 -4.8  0.0
213  109  ZC109  2021-07-28  892.4  902.4  909.6  890.4    89853  8.086770e+09  2.14  0.
↪38  3.4  0.0
214  109  ZC109  2021-07-29  902.6  918.6  919.0  900.4    83106  7.562646e+09  2.07  2.
↪07 18.6  0.0
215  109  ZC109  2021-07-30  918.6  927.2  943.0  906.2   129862  1.202003e+10  4.04  1.
↪89 17.2  0.0
216  109  ZC109  2021-08-02  898.0  870.0  898.0  852.4   101722  8.900675e+09  4.93 -6.
↪01 -55.6 0.0

[217 rows x 13 columns]

```


API

pdoc

•

```
pip install pdoc efinance --upgrade
```

•

```
pdoc efinance -d numpy
```

sphinx efinance

•

```
git clone https://github.com/Micro-sheep/efinance
```

•

```
cd efinance/docs  
pip install -r requirements.txt --upgrade  
sphinx-build . ./build -b html
```

docs/build html

**CHAPTER
FOUR**

CONTACT

CHANGELOG

5.1 v0.3.2 (2021-08-08)

5.1.1 Added

- sphinx
- read the docs

5.2 v0.3.1 (2021-08-05)

5.2.1 Added

- session

5.2.2 Fixed

-

5.3 v0.3.0 (2021-08-03)

5.3.1 Added

-
- jsonpath

5.3.2 Fixed

-

Installation

- pip

```
pip install efinance
```

- pip

```
pip install efinance --upgrade
```

-

```
git clone https://github.com/Micro-sheep/efinance
cd efinance
pip install -e .
```

Examples

Stock

- K

```
>>> import efinance as ef
>>> #
>>> stock_code = '600519'
>>> ef.stock.get_quote_history(stock_code)

0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318.0  1.410347e+09  -
↳1.10  0.92  0.83  56.83
1      600519  2001-08-28  -89.64  -89.27  -89.24  -89.72  129647.0  4.634630e+08  -
↳0.54  0.29  0.26  18.13
2      600519  2001-08-29  -89.24  -89.36  -89.24  -89.42  53252.0  1.946890e+08  -
↳0.20 -0.10 -0.09  7.45
3      600519  2001-08-30  -89.38  -89.22  -89.14  -89.44  48013.0  1.775580e+08  -
↳0.34  0.16  0.14  6.72
4      600519  2001-08-31  -89.21  -89.24  -89.12  -89.28  23231.0  8.623100e+07  -
↳0.18 -0.02 -0.02  3.25
...      ...      ...      ...      ...      ...      ...      ...      ...
↳.      ...      ...      ...
4756   600519  2021-07-23  1937.82  1900.00  1937.82  1895.09  47585.0  9.057762e+09  ⬇
↳2.20 -2.06 -40.01  0.38
4757   600519  2021-07-26  1879.00  1804.11  1879.00  1780.00  98619.0  1.789436e+10  ⬇
↳5.21 -5.05 -95.89  0.79
4758   600519  2021-07-27  1803.00  1712.89  1810.00  1703.00  86577.0  1.523081e+10  ⬇
↳5.93 -5.06 -91.22  0.69
4759   600519  2021-07-28  1703.00  1768.90  1788.20  1682.12  85369.0  1.479247e+10  ⬇
↳6.19  3.27  56.01  0.68
```

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```
4760    600519 2021-07-29 1810.01 1740.00 1823.00 1734.34 51035.0 9.067345e+09 0.
↪5.01 -1.63 -28.90 0.41
```

[4761 rows x 13 columns]

- A K

```
>>> import efinance as ef
>>> #
>>> stock_code = 'AAPL'
>>> ef.stock.get_quote_history(stock_code)
```

```
0      AAPL 1984-09-07 -5.37 -5.37 -5.36 -5.37 2981600.0 0.000000e+00 0.
↪00 0.00 0.00 0.02
1      AAPL 1984-09-10 -5.37 -5.37 -5.36 -5.37 2346400.0 0.000000e+00 -0.
↪19 0.00 0.00 0.01
2      AAPL 1984-09-11 -5.36 -5.36 -5.36 -5.36 5444000.0 0.000000e+00 0.
↪00 0.19 0.01 0.03
3      AAPL 1984-09-12 -5.36 -5.37 -5.36 -5.37 4773600.0 0.000000e+00 -0.
↪19 -0.19 -0.01 0.03
4      AAPL 1984-09-13 -5.36 -5.36 -5.36 -5.36 7429600.0 0.000000e+00 0.
↪00 0.19 0.01 0.04
```

```
... ..
↪... ..
```

```
8739    AAPL 2021-07-22 145.94 146.80 148.19 145.81 77338156.0 1.137623e+10 1.
↪64 0.96 1.40 0.47
8740    AAPL 2021-07-23 147.55 148.56 148.72 146.92 71447416.0 1.058233e+10 1.
↪23 1.20 1.76 0.43
8741    AAPL 2021-07-26 148.27 148.99 149.83 147.70 72434089.0 1.080774e+10 1.
↪43 0.29 0.43 0.44
8742    AAPL 2021-07-27 149.12 146.77 149.21 145.55 104818578.0 1.540140e+10 2.
↪46 -1.49 -2.22 0.63
8743    AAPL 2021-07-28 144.81 144.98 146.97 142.54 118931191.0 1.723188e+10 3.
↪02 -1.22 -1.79 0.72
```

[8744 rows x 13 columns]

```
>>> #
>>> stock_name = ''
>>> ef.stock.get_quote_history(stock_name)
```

```
0      MSFT 1986-03-13 -20.74 -20.73 -20.73 -20.74 1.031789e+09 0.000000e+00 0.
↪00 0.00 0.00 13.72
1      MSFT 1986-03-14 -20.73 -20.73 -20.73 -20.73 3.081600e+08 0.000000e+00 0.
↪00 0.00 0.00 4.10
2      MSFT 1986-03-17 -20.73 -20.73 -20.73 -20.73 1.331712e+08 0.000000e+00 0.
↪00 0.00 0.00 1.77
3      MSFT 1986-03-18 -20.73 -20.73 -20.73 -20.73 6.776640e+07 0.000000e+00 0.
↪00 0.00 0.00 0.90
4      MSFT 1986-03-19 -20.73 -20.73 -20.73 -20.73 4.789440e+07 0.000000e+00 0.
↪00 0.00 0.00 0.64
```

```
... ..
↪... ..
```

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8357	MSFT	2021-07-22	283.84	286.14	286.42	283.42	2.338406e+07	6.677062e+09	1.
↪07	1.68	4.74	0.31						
8358	MSFT	2021-07-23	287.37	289.67	289.99	286.50	2.276807e+07	6.578686e+09	1.
↪22	1.23	3.53	0.30						
8359	MSFT	2021-07-26	289.00	289.05	289.69	286.64	2.317607e+07	6.685868e+09	1.
↪05	-0.21	-0.62	0.31						
8360	MSFT	2021-07-27	289.43	286.54	289.58	282.95	3.360407e+07	9.599993e+09	2.
↪29	-0.87	-2.51	0.45						
8361	MSFT	2021-07-28	288.99	286.22	290.15	283.83	3.356685e+07	9.638499e+09	2.
↪21	-0.11	-0.32	0.45						

[8362 rows x 13 columns]

- ETF K

```
>>> import efinance as ef
>>> # ETF ETF
>>> etf_code = '513050'
>>> ef.stock.get_quote_history(etf_code)
```

0	ETF	513050	2017-01-18	0.989	0.977	0.989	0.969	345605.0	3.381795e+07	0.
↪00	0.00	0.000	0.26							
1	ETF	513050	2017-01-19	0.978	0.989	0.990	0.978	257716.0	2.542553e+07	1.
↪23	1.23	0.012	0.19							
2	ETF	513050	2017-01-20	0.989	0.988	0.990	0.986	50980.0	5.043289e+06	0.
↪40	-0.10	-0.001	0.04							
3	ETF	513050	2017-01-23	0.988	0.988	0.989	0.986	13739.0	1.356129e+06	0.
↪30	0.00	0.000	0.01							
4	ETF	513050	2017-01-24	0.989	0.989	0.992	0.987	17937.0	1.774398e+06	0.
↪51	0.10	0.001	0.01							
...
↪
1097	ETF	513050	2021-07-23	1.789	1.760	1.789	1.758	4427623.0	7.836530e+08	1.
↪73	-1.51	-0.027	3.32							
1098	ETF	513050	2021-07-26	1.679	1.645	1.698	1.642	13035366.0	2.182816e+09	3.
↪18	-6.53	-0.115	9.78							
1099	ETF	513050	2021-07-27	1.600	1.547	1.620	1.546	14269546.0	2.257610e+09	4.
↪50	-5.96	-0.098	10.70							
1100	ETF	513050	2021-07-28	1.545	1.552	1.578	1.506	13141023.0	2.024106e+09	4.
↪65	0.32	0.005	9.85							
1101	ETF	513050	2021-07-29	1.615	1.641	1.651	1.606	10658041.0	1.734404e+09	2.
↪90	5.73	0.089	7.99							

[1102 rows x 13 columns]

- 5 K

```
>>> import efinance as ef
>>> #
>>> stock_code = '600519'
>>> # 5
>>> frequency = 5
```

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```
>>> ef.stock.get_quote_history(stock_code, klt=frequency)
0      600519 2021-06-16 09:35 2172.71 2159.71 2175.71 2150.74 1885.0 411159309.
↪0 1.15 -0.64 -14.00 0.02
1      600519 2021-06-16 09:40 2156.69 2148.71 2160.48 2143.37 1238.0 268790684.
↪0 0.79 -0.51 -11.00 0.01
2      600519 2021-06-16 09:45 2149.79 2159.71 2160.69 2149.79 706.0 153631002.
↪0 0.51 0.51 11.00 0.01
3      600519 2021-06-16 09:50 2159.61 2148.87 2159.71 2148.87 586.0 127346502.
↪0 0.50 -0.50 -10.84 0.00
4      600519 2021-06-16 09:55 2148.87 2161.04 2163.71 2148.72 788.0 171491075.
↪0 0.70 0.57 12.17 0.01
... ..
↪ ... ..
1521   600519 2021-07-29 13:50 1746.51 1746.09 1748.95 1746.01 738.0 128889575.
↪0 0.17 -0.09 -1.49 0.01
1522   600519 2021-07-29 13:55 1746.08 1742.01 1746.09 1741.96 831.0 144968679.
↪0 0.24 -0.23 -4.08 0.01
1523   600519 2021-07-29 14:00 1742.00 1739.58 1742.00 1739.58 864.0 150446840.
↪0 0.14 -0.14 -2.43 0.01
1524   600519 2021-07-29 14:05 1741.87 1740.00 1745.00 1738.88 1083.0 188427970.
↪0 0.35 0.02 0.42 0.01
1525   600519 2021-07-29 14:10 1740.00 1740.02 1740.10 1740.00 59.0 10315488.
↪0 0.01 0.00 0.02 0.00

[1526 rows x 13 columns]
```

• A

```
>>> import efinance as ef
>>> ef.stock.get_realtime_quotes()
↪ ID
0      301040      N 232.5  45.12  47.0  41.59 31.55 31.99 37.65 75835 ↪
↪326605808.0 13.57 4512000000 1069732980 0.301040 A
1      300170      20.06  8.56  8.56  7.15 1.43 5.08 106.52 407546 ↪
↪332785856.0 7.13 7567296355 6870207362 0.300170 A
2      300507      20.02 11.51 11.51 10.5 1.92 4.23 59.52 114496 ↪
↪130379634.0 9.59 4935230130 3115078785 0.300507 A
3      688316 -U 20.0 83.63 83.63 70.0 13.94 6.97 -16.13 7549 ↪
↪61164447.0 69.69 3969261695 906141587 1.688316 A
4      688682      20.0 181.18 181.18 164.51 30.2 5.09 385.91 3825 ↪
↪67932577.0 150.98 6703660000 1361951077 1.688682 A
... ..
↪ ... ..
4589 603717      -10.01 12.76 14.37 12.76 -1.42 1.8 177.77 43418 ↪
↪57832957.0 14.18 3702266022 3085320022 1.603717 A
4590 300118      -12.1 17.8 19.73 17.66 -2.45 5.16 71.75 463982 ↪
↪850671248.0 20.25 16044206950 16010137750 0.300118 A
4591 300511      -12.18 6.92 7.33 6.86 -0.96 5.49 7.54 173540 ↪
↪121601875.0 7.88 3058027386 2186186828 0.300511 A
4592 688390      -13.01 491.47 545.0 485.55 -73.53 4.15 154.62 8685 ↪
↪442019520.0 565.0 43249360000 10294048516 1.688390 A
```

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```
4593 300763      -15.7 244.88  278.0  244.8 -45.61  3.89 127.29  41721  ␣
↪1068257728.0 290.49 60627450640 26288632270 0.300763  A
[4594 rows x 16 columns]
```

Fund

•

```
>>> import efinance as ef
>>> ef.fund.get_quote_history('161725')

0    2021-07-29  1.2726  2.9037  -1.52
1    2021-07-28  1.2922  2.9233   0.85
2    2021-07-27  1.2813  2.9124  -3.6
3    2021-07-26  1.3292  2.9603  -7.24
4    2021-07-23  1.4329  3.0640  -2.29
...
1502 2015-06-08  1.0380  1.0380  2.5692
1503 2015-06-05  1.0120  1.0120  1.5045
1504 2015-06-04  0.9970  0.9970   --
1505 2015-05-29  0.9950  0.9950   --
1506 2015-05-27  1.0000  1.0000   --
[1507 rows x 4 columns]
```

•

```
>>> import efinance as ef
>>> #
>>> ef.fund.get_inverst_position('161725')

0 161725 000858    14.88  1.45
1 161725 600519    14.16 -0.86
2 161725 600809    14.03 -0.83
3 161725 000568    13.02 -2.96
4 161725 002304    12.72  1.31
5 161725 000799     5.77  1.34
6 161725 603369     3.46 -0.48
7 161725 000596     2.81 -0.29
8 161725 600779     2.52  2.52
9 161725 603589     2.48 -0.38
```

•

```
>>> import efinance as ef
>>> #
>>> ef.fund.get_base_info(['161725', '005827'])
0 161725 (LOF)A 2015-05-27 -6.03 1.1959 2021-07-30
1 005827      2018-09-05 -2.98 2.4967 2021-07-30 A+H
```

Bond

```
>>> import efinance as ef
>>> ef.bond.get_realtime_quotes()

↪ ID
0 123015 13.49 198.613 205.0 175.5 23.613 315.36 - 316062 ↪
↪ 613480512.0 175.0 199056701 199056701 0.123015 A
1 123077 9.59 115.51 122.971 105.401 10.11 32.59 - 305380 ↪
↪ 358093216.0 105.4 1082332396 1082332396 0.123077 A
2 123066 8.08 232.377 245.8 225.0 17.377 470.3 - 454204 ↪
↪ 1081363632.0 215.0 224423665 224423665 0.123066 A
3 128093 7.69 360.751 367.9 335.5 25.751 343.84 - 558874 ↪
↪ 1984944768.0 335.0 586364315 586364315 0.128093 A
4 128082 7.41 158.507 163.769 147.089 10.935 103.16 - 226444 ↪
↪ 355827984.0 147.572 347931900 347931900 0.128082 A
... ..
↪ ... ..
383 123087 -4.34 151.75 169.0 150.302 -6.879 117.66 - 520370 ↪
↪ 817884784.0 158.629 671147760 671147760 0.123087 A
384 123070 -4.63 175.001 179.799 174.471 -8.499 18.46 - 144998 ↪
↪ 257005833.0 183.5 1374730681 1374730681 0.123070 A
385 123027 -4.67 338.413 352.825 338.015 -16.586 44.23 - 47356 ↪
↪ 162870853.0 354.999 362300558 362300558 0.123027 A
386 113621 -5.03 215.61 222.5 214.41 -11.41 11.46 - 91710 ↪
↪ 200327611.0 227.02 1725268098 1725268098 1.113621 A
387 123047 -5.7 305.5 319.52 305.382 -18.47 122.41 - 193587 ↪
↪ 600277600.0 323.97 483119533 483119533 0.123047 A

[388 rows x 16 columns]
```

```
>>> import efinance as ef
>>> ef.bond.get_all_base_info()

↪ () (%) () ↪
0 123120 300263 AA- 2021-07-30 00:00:00 7.989283 NaN ↪
↪ None 2027-07-30 00:00:00 6 0.40%0.70%1.00%1.60%2.... ↪
1 110081 600745 AA+ 2021-07-28 00:00:00 86.000000 0.044030 ↪
↪ None 2027-07-28 00:00:00 6 0.10%0.20%0.30%1.50%1.80%... ↪
2 118001 688598 A+ 2021-07-23 00:00:00 5.999010 0.001771 ↪
↪ None 2027-07-23 00:00:00 6 0.50%0.70%1.20%1.80%2.40%... ↪
3 123119 2 300601 AA 2021-07-15 00:00:00 20.000000 0.014182 ↪
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1.... ↪
4 113627 603877 AA 2021-07-15 00:00:00 8.000000 0.000542 ↪
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1.80%... ↪
... ..
↪ ... ..
↪ ... ..
80 110227 600227 AAA 2007-10-10 00:00:00 4.500000 0.158854 2007-10-23 ↪
↪ 00:00:00 2009-05-25 00:00:00 1.6192 :1.5%1.8%2.... ↪

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```

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81	126006	07	600548	AAA	2007-10-09	00:00:00	15.000000	0.290304	2007-10-30	↳
↳00:00:00	2013-10-09	00:00:00	6							↳
↳None										
82	110971		600971	AAA	2007-09-24	00:00:00	4.000000	5.311774	2007-10-12	↳
↳00:00:00	2009-12-21	00:00:00	2.2484				:1.5%,1.8%,2.1%,2...			↳
83	110567		600567	AA	2007-09-05	00:00:00	4.700000	0.496391	2007-09-17	↳
↳00:00:00	2010-02-01	00:00:00	2.4055				:1.4%,1.7%,2...			↳
84	110026		600026	AAA	2007-07-02	00:00:00	20.000000	1.333453	2007-07-12	↳
↳00:00:00	2008-03-27	00:00:00	0.737				:1.84%,2.05%,2.26%,2.47%,...			↳

[585 rows x 12 columns]

- K stock

```
>>> import efinance as ef
>>> # 3
>>> bond_code = '123111'
>>> ef.bond.get_quote_history(bond_code)
```

0	3	123111	2021-04-23	130.000	130.000	130.000	130.000	1836427	2.387355e+09	0.
↳00	30.00	30.000	11.62							
1	3	123111	2021-04-26	130.353	130.010	133.880	125.110	8610944	1.126033e+10	6.
↳75	0.01	0.010	54.50							
2	3	123111	2021-04-27	129.000	129.600	130.846	128.400	1820766	2.357472e+09	1.
↳88	-0.32	-0.410	11.52							
3	3	123111	2021-04-28	129.100	130.770	131.663	128.903	1467727	1.921641e+09	2.
↳13	0.90	1.170	9.29							
4	3	123111	2021-04-29	130.690	131.208	133.150	130.560	1156934	1.525974e+09	1.
↳98	0.33	0.438	7.32							
...
↳
61	3	123111	2021-07-23	160.000	157.100	166.200	156.660	749059	1.201969e+09	5.
↳98	-1.47	-2.350	4.74							
62	3	123111	2021-07-26	157.980	154.011	160.200	153.610	620403	9.696688e+08	4.
↳19	-1.97	-3.089	3.93							
63	3	123111	2021-07-27	155.240	150.810	156.509	150.250	569574	8.709329e+08	4.
↳06	-2.08	-3.201	3.60							
64	3	123111	2021-07-28	150.410	148.790	152.910	147.220	911562	1.359813e+09	3.
↳77	-1.34	-2.020	5.77							
65	3	123111	2021-07-29	152.000	158.210	159.600	151.400	1061348	1.655937e+09	5.
↳51	6.33	9.420	6.72							

[66 rows x 13 columns]

Futures

•

```
>>> import efinance as ef
>>> ef.futures.get_futures_base_info()
          secid
0      jmm      114.jmm
1  jm2109  2109  114.jm2109
2  ss2204  2204  113.ss2204
3  jm2110  2110  114.jm2110
4  jm2111  2111  114.jm2111
..      ...      ...      ...      ...
782  i2108  2108  114.i2108
783  i2112  2112  114.i2112
784  i2203  2203  114.i2203
785      im      114.im
786  i2109  2109  114.i2109

[787 rows x 4 columns]
```

•

```
>>> import efinance as ef
>>> # secid
>>> secid = '115.ZCM'
>>> ef.futures.get_quote_history(secid)
0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.00  ↵
↵0.0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.32  -
↵1.4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.23  -
↵1.0  0.0
3      ZCM  2015-05-21  438.0  443.2  446.8  437.8      37  1.631850e+06  2.06  1.65  ↵
↵7.2  0.0
4      ZCM  2015-05-22  439.2  441.4  443.8  439.2      34  1.502500e+06  1.04  0.09  ↵
↵0.4  0.0
...      ...      ...      ...      ...      ...      ...      ...      ...      ...      ...
↵.      ...      ...
1509   ZCM  2021-07-27  897.0  892.4  915.8  888.0  109033  9.802067e+09  3.10 -0.53  -
↵4.8  0.0
1510   ZCM  2021-07-28  892.4  902.4  909.6  890.4   89853  8.086770e+09  2.14  0.38  ↵
↵3.4  0.0
1511   ZCM  2021-07-29  902.6  918.6  919.0  900.4   83106  7.562646e+09  2.07  2.07  ↵
↵18.6  0.0
1512   ZCM  2021-07-30  918.6  927.2  943.0  906.2  129862  1.202003e+10  4.04  1.89  ↵
↵17.2  0.0
1513   ZCM  2021-08-02  898.0  870.0  898.0  852.4  101722  8.900675e+09  4.93 -6.01  -
↵55.6  0.0

[1514 rows x 13 columns]
```

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```

>>> secids = ['115.ZCM','115.ZC109']
>>> futures_df = ef.futures.get_quote_history(secids)
>>> type(futures_df)
<class 'dict'>
>>> futures_df.keys()
dict_keys(['115.ZC109', '115.ZCM'])
>>> futures_df['115.ZC109']

0    109  ZC109  2020-09-09  551.2  551.2  551.2  551.2      2  1.102400e+05  0.00  0.
↪00  0.0  0.0
1    109  ZC109  2020-09-10  548.6  545.0  549.8  545.0      6  3.289200e+05  0.87 -1.
↪12 -6.2  0.0
2    109  ZC109  2020-09-11  545.0  544.2  548.4  543.0      7  3.815000e+05  0.99 -0.
↪73 -4.0  0.0
3    109  ZC109  2020-09-14  546.0  550.4  550.4  546.0      7  3.843000e+05  0.81  0.
↪99  5.4  0.0
4    109  ZC109  2020-09-15  549.0  551.2  551.6  549.0     14  7.705600e+05  0.47  0.
↪40  2.2  0.0
..     ..     ..     ..     ..     ..     ..     ..     ..     ..     ..     ..
↪...  ...  ...
212  109  ZC109  2021-07-27  897.0  892.4  915.8  888.0  109033  9.802067e+09  3.10 -0.
↪53 -4.8  0.0
213  109  ZC109  2021-07-28  892.4  902.4  909.6  890.4   89853  8.086770e+09  2.14  0.
↪38  3.4  0.0
214  109  ZC109  2021-07-29  902.6  918.6  919.0  900.4   83106  7.562646e+09  2.07  2.
↪07 18.6  0.0
215  109  ZC109  2021-07-30  918.6  927.2  943.0  906.2  129862  1.202003e+10  4.04  1.
↪89 17.2  0.0
216  109  ZC109  2021-08-02  898.0  870.0  898.0  852.4  101722  8.900675e+09  4.93 -6.
↪01 -55.6 0.0

[217 rows x 13 columns]

```

API REFERENCE

Stock

`efinance.stock.get_base_info(stock_codes: Union[str, List[str]])` → Union[pandas.core.series.Series, pandas.core.frame.DataFrame]

Parameters `stock_codes` (Union[str, List[str]]) –

Returns

- Series : (stock_codes)
- DataFrame : (stock_codes)

Return type Union[Series, DataFrame]

Raises **TypeError** – stock_codes

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97	600519	2021-07-26	-1.564233e+09	13142211.0	1.551091e+09	-1.270400e+08	-1.437193e+09	-8.74	0.07	8.67	-0.71	-8.03	1804.11	-5.05
98	600519	2021-07-27	-7.803296e+08	-10424715.0	7.907544e+08	6.725104e+07	-475807e+08	-5.12	-0.07	5.19	0.44	-5.56	1712.89	-5.06
99	600519	2021-07-28	3.997645e+08	2603511.0	-4.023677e+08	2.315648e+08	681997e+08	2.70	0.02	-2.72	1.57	1.14	1768.90	3.27
100	600519	2021-07-29	-9.209842e+08	-2312235.0	9.232964e+08	-3.959741e+08	250101e+08	-8.15	-0.02	8.17	-3.50	-4.65	1749.79	-1.08
101	600519	2021-07-30	-1.524740e+09	-6020099.0	1.530761e+09	1.147248e+08	639465e+09	-11.63	-0.05	11.68	0.88	-12.51	1678.99	-4.05

`efinance.stock.get_latest_quote(stock_codes: List[str])` → `pandas.core.frame.DataFrame`

Parameters `stock_codes` (`List[str]`) –

Returns

Return type `DataFrame`

Examples

```
>>> import efinance as ef
>>> ef.stock.get_latest_quote(['600519', '300750'])

0 600519 -3.13 1700.09 1738.99 1688.8 -54.91 0.11 43.31 13373 2.
  ↪299199e+09 1755.0 2135649317802 2135649317802 A
1 300750 -2.21 539.80 556.00 531.0 -12.20 0.13 160.82 27011 1.
  ↪458472e+09 552.0 1257198411520 1095654311636 A
```

Notes

A `efinance.stock.get_realtime_quotes`

`efinance.stock.get_quote_history(stock_codes: Union[str, List[str]], beg: str = '19000101', end: str = '20500101', klt: int = 101, fqt: int = 1)` → `Union[pandas.core.frame.DataFrame, Dict[str, pandas.core.frame.DataFrame]]`

ETF K

Parameters

- `stock_codes` (`Union[str, List[str]]`) – ETF
- `beg` (`str`, *optional*) – '19000101' 190011
- `end` (`str`, *optional*) – '20500101' 205011
- `klt` (`int`, *optional*) – 101
 - 1:
 - 5: 5
 - 101:
 - 102:

- `fqt(int, optional) - 1`
 - 0:
 - 1:
 - 2:

Returns

ETF K

- `DataFrame: stock_codes str`
- `Dict[str, DataFrame]: stock_codes List[str]`

Return type Union[DataFrame, Dict[str, DataFrame]]**Examples**

```
>>> import efinance as ef
>>> # K
>>> ef.stock.get_quote_history('600519')

0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318  1.
↳410347e+09 -1.10  0.92  0.83  56.83
1      600519  2001-08-28  -89.64  -89.27  -89.24  -89.72  129647  4.
↳634630e+08 -0.54  0.29  0.26  18.13
2      600519  2001-08-29  -89.24  -89.36  -89.24  -89.42  53252  1.
↳946890e+08 -0.20 -0.10 -0.09  7.45
3      600519  2001-08-30  -89.38  -89.22  -89.14  -89.44  48013  1.
↳775580e+08 -0.34  0.16  0.14  6.72
4      600519  2001-08-31  -89.21  -89.24  -89.12  -89.28  23231  8.
↳623100e+07 -0.18 -0.02 -0.02  3.25
...      ...      ...      ...      ...      ...      ...      ...
↳ ...      ...      ...      ...
4756    600519  2021-07-23  1937.82  1900.00  1937.82  1895.09  47585  9.
↳057762e+09  2.20 -2.06 -40.01  0.38
4757    600519  2021-07-26  1879.00  1804.11  1879.00  1780.00  98619  1.
↳789436e+10  5.21 -5.05 -95.89  0.79
4758    600519  2021-07-27  1803.00  1712.89  1810.00  1703.00  86577  1.
↳523081e+10  5.93 -5.06 -91.22  0.69
4759    600519  2021-07-28  1703.00  1768.90  1788.20  1682.12  85369  1.
↳479247e+10  6.19  3.27  56.01  0.68
4760    600519  2021-07-29  1810.01  1749.79  1823.00  1734.34  63864  1.
↳129957e+10  5.01 -1.08 -19.11  0.51
```

```
>>> #
>>> stock_df = ef.stock.get_quote_history(['600519', '300750'])
>>> type(stock_df)
<class 'dict'>
>>> stock_df.keys()
dict_keys(['300750', '600519'])
>>> stock_df['600519']
```

```
0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318  1.
↳410347e+09 -1.10  0.92  0.83  56.83
```

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1	600519	2001-08-28	-89.64	-89.27	-89.24	-89.72	129647	4.
↳634630e+08 -0.54 0.29 0.26 18.13								
2	600519	2001-08-29	-89.24	-89.36	-89.24	-89.42	53252	1.
↳946890e+08 -0.20 -0.10 -0.09 7.45								
3	600519	2001-08-30	-89.38	-89.22	-89.14	-89.44	48013	1.
↳775580e+08 -0.34 0.16 0.14 6.72								
4	600519	2001-08-31	-89.21	-89.24	-89.12	-89.28	23231	8.
↳623100e+07 -0.18 -0.02 -0.02 3.25								
...
↳ ...								
4756	600519	2021-07-23	1937.82	1900.00	1937.82	1895.09	47585	9.
↳057762e+09 2.20 -2.06 -40.01 0.38								
4757	600519	2021-07-26	1879.00	1804.11	1879.00	1780.00	98619	1.
↳789436e+10 5.21 -5.05 -95.89 0.79								
4758	600519	2021-07-27	1803.00	1712.89	1810.00	1703.00	86577	1.
↳523081e+10 5.93 -5.06 -91.22 0.69								
4759	600519	2021-07-28	1703.00	1768.90	1788.20	1682.12	85369	1.
↳479247e+10 6.19 3.27 56.01 0.68								
4760	600519	2021-07-29	1810.01	1749.79	1823.00	1734.34	63864	1.
↳129957e+10 5.01 -1.08 -19.11 0.51								

efinance.stock.get_realtime_quotes() → pandas.core.frame.DataFrame

Returns A

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> ef.stock.get_realtime_quotes()

↳      ID
0      301040      N 230.58  44.86   47.0  41.59  31.29  26.68  37.43  63249
↳270449440.0  13.57  4486000000  1063568738  0.301040  A
1      300170      20.06   8.56   8.56   7.15   1.43   3.85  106.52  309143
↳248553089.0   7.13  7567296355  6870207362  0.300170  A
2      300507      20.02  11.51  11.51  10.5   1.92   3.96   59.52  107058
↳121818531.0   9.59  4935230130  3115078785  0.300507  A
3      688316  -U  20.0   83.63  83.63  70.0  13.94   6.87  -16.13   7440
↳60252880.0  69.69  3969261695  906141587  1.688316  A
4      688682      20.0  181.18  181.18  164.51  30.2   5.03  385.91   3781
↳67140458.0 150.98  6703660000  1361951077  1.688682  A
...
↳ ...
4589  300529      -10.63  61.62  69.84  61.39  -7.33   1.3   40.0   66955
↳430949056.0  68.95  49605885008  31670304487  0.300529  A
4590  300118      -10.91  18.04  19.73  17.66  -2.21   4.2   72.72  377588
↳695986288.0  20.25  16260533336  16226004776  0.300118  A
4591  688390      -11.15  501.99  545.0  485.55 -63.01   3.1  157.93   6494
↳333857920.0  565.0  44175120000  10514394398  1.688390  A
```

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```

4592 300511      -11.8   6.95   7.33   6.9  -0.93   4.39   7.57  138677  ↵
↪97532444.0   7.88  3071284730  2195664516  0.300511  A
4593 300763      -14.13  249.45  278.0  249.01 -41.04   2.97  129.67  31904  ↵
↪825647776.0  290.49  61758892365  26779236033  0.300763  A

```

`efinance.stock.get_today_bill(stock_code: str) → pandas.core.frame.DataFrame`

Parameters `stock_code (str)` –

Returns

Return type DataFrame

Examples

```

>>> import efinance as ef
>>> ef.stock.get_today_bill('600519')
0    600519  2021-07-29  09:31  -3261705.0  -389320.0   3651025.0  -12529658.0  ↵
↪9267953.0
1    600519  2021-07-29  09:32   6437999.0  -606994.0  -5831006.0  -42615994.0  ↵
↪49053993.0
2    600519  2021-07-29  09:33  13179707.0  -606994.0  -12572715.0  -85059118.0  ↵
↪98238825.0
3    600519  2021-07-29  09:34  15385244.0  -970615.0  -14414632.0  -86865209.0  ↵
↪102250453.0
4    600519  2021-07-29  09:35   7853716.0  -970615.0  -6883104.0  -75692436.0  ↵
↪83546152.0
..      ...          ...          ...          ...          ...          ...          ...          ↵
↪      ...
235  600519  2021-07-29  14:56 -918956019.0 -1299630.0  920255661.0 -397127393.0 -
↪521828626.0
236  600519  2021-07-29  14:57 -920977761.0 -2319213.0  923296987.0 -397014702.0 -
↪523963059.0
237  600519  2021-07-29  14:58 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0
238  600519  2021-07-29  14:59 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0
239  600519  2021-07-29  15:00 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0

```

`efinance.stock.get_top10_stock_holder_info(stock_code: str, top: int = 4) → pandas.core.frame.DataFrame`

Parameters

- `stock_code (str)` –
- `top (int, optional)` – top 10, 4

Returns 10

Return type DataFrame

Examples

```

>>> import efinance as ef
>>> ef.stock.get_top10_stock_holder_info('600519',top = 1)
0 600519 2021-03-31 80010298          () 6.783 54.00%          --
1 600519 2021-03-31 80637337          9594 7.64% -841.1 -
  →8.06%
2 600519 2021-03-31 80732941          5700 4.54% -182.7 -3.11%
3 600519 2021-03-31 80010302          2781 2.21%          --
4 600519 2021-03-31 80475097          1079 0.86%          --
5 600519 2021-03-31 80188285          803.9 0.64%          -91 0.
  →00%
6 600519 2021-03-31 78043999          - 502.1 0.40%          --
7 600519 2021-03-31 70400207 ---005L-CT001 434.1 0.35% 44.72 11.48%
8 600519 2021-03-31 005827          - 432 0.34%          --
9 600519 2021-03-31 78083830          - 416.1 0.33%          --

```

Fund

`efinance.fund.get_base_info(fund_codes: Union[str, List[str]]) → Union[pandas.core.series.Series, pandas.core.frame.DataFrame]`

Parameters `fund_codes` (`Union[str, List[str]]`) – 6 6

Returns

- Series : (`fund_codes`)
- DataFrame : (`fund_codes`)

Return type `Union[Series, DataFrame]`

Raises `TypeError` – `fund_codes`

Examples

```

>>> import efinance as ef
>>> ef.fund.get_base_info('161725')
          161725
(LOF)A
          2015-05-27
          -6.03
          1.1959

          2021-07-30

dtype: object

```

```

>>> #
>>> ef.fund.get_base_info(['161725', '005827'])
                                00:00,
↵6.38it/s]
0  005827      2018-09-05 -2.98  2.4967      2021-07-30  A+H
1  161725  (LOF)A  2015-05-27 -6.03  1.1959      2021-07-30

```

`efinance.fund.get_fund_codes(ft: Optional[str] = None) → pandas.core.frame.DataFrame`

Parameters `ft` (`str`, optional)–

- 'zq' :
- 'gp' :
- None :

Returns

Return type DataFrame

Examples

```

>>> import efinance as ef
>>> #
>>> ef.fund.get_fund_codes()
>>> #
>>> ef.fund.get_fund_codes(ft = 'gp')

0      003834
1      005669
2      004040      A
3      517793      1.20%
4      004041      C
...
1981  012503      50ETFA
1982  012517  ETFC
1983  012600      C
1984  011043      C
1985  012516  ETFA

```

`efinance.fund.get_industry_distribution(fund_code: str, dates: Union[str, List[str]] = None) → pandas.core.frame.DataFrame`

Parameters

- `fund_code` (`str`)– 6
- `dates` (`Union[str, List[str]]`, optional)–
 - None :
 - '2020-01-01' :
 - ['2020-12-31' , '2019-12-31'] :

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> #
>>> public_dates = ef.fund.get_public_dates('161725')
>>> #
>>> dates = public_dates[:1]
>>> ef.fund.get_industry_distribution('161725',dates)
0  161725          93.07  2021-06-30  6492580.019556
1  161725           0.01  2021-06-30    485.060688
2  161725           0    2021-06-30     0.585078
3  161725  0  2021-06-30     1.302039
4  161725           0    2021-06-30     2.537137
5  161725           0    2021-06-30     5.888394
6  161725  0  2021-06-30    157.037536
7  161725  0  2021-06-30     4.443833
8  161725           0    2021-06-30     1.626203
9  161725  0  2021-06-30     48.30805
10 161725          --  2021-06-30          --
11 161725          --  2021-06-30          --
12 161725          --  2021-06-30          --
13 161725          --  2021-06-30          --
14 161725          --  2021-06-30          --
15 161725          --  2021-06-30          --
16 161725          --  2021-06-30          --
17 161725          --  2021-06-30          --
18 161725          --  2021-06-30          --
19 161725          93.08  2021-06-30  6493286.808514
```

`efinance.fund.get_inverst_position(fund_code: str, dates: Union[str, List[str]] = None) → pandas.core.frame.DataFrame`

Parameters

- **fund_code** (*str*) –
- **dates** (*Union[str, List[str]]*, *optional*) –
 - None :
 - '2020-01-01' :
 - ['2020-12-31' , '2019-12-31'] :

Returns

Return type DataFrame

Examples

```

>>> import efinance as ef
>>> #
>>> ef.fund.get_inverst_position('161725')

0 161725 000858 14.88 1.45
1 161725 600519 14.16 -0.86
2 161725 600809 14.03 -0.83
3 161725 000568 13.02 -2.96
4 161725 002304 12.72 1.31
5 161725 000799 5.77 1.34
6 161725 603369 3.46 -0.48
7 161725 000596 2.81 -0.29
8 161725 600779 2.52 2.52
9 161725 603589 2.48 -0.38
>>> # 2
>>> public_dates = ef.fund.get_public_dates('161725')
>>> ef.fund.get_inverst_position('161725',public_dates[:2])

0 161725 000858 14.88 1.45
2 161725 600809 14.03 -0.83
3 161725 000568 13.02 -2.96
4 161725 002304 12.72 1.31
5 161725 000799 5.77 1.34
6 161725 603369 3.46 -0.48
7 161725 000596 2.81 -0.29
8 161725 600779 2.52 2.52
9 161725 603589 2.48 -0.38
0 161725 000568 15.98 1.27
1 161725 600519 15.02 2.35
2 161725 600809 14.86 -0.37
3 161725 000858 13.43 0.54
4 161725 002304 11.41 -2.21
5 161725 000799 4.43 -0.15
6 161725 603369 3.94 -0.09
7 161725 000860 3.12 -0.70
8 161725 000596 3.10 -0.15
9 161725 603589 2.86 0.21

```

`efinance.fund.get_pdf_reports(fund_code: str, max_count: int = 12, save_dir: str = 'pdf')` → None
pdf

Parameters

- `fund_code` (*str*) – 6
- `max_count` (*int*, *optional*) – pdf (), 12
- `save_dir` (*str*, *optional*) – pdf, 'pdf'

Examples

```
>>> import efinance as ef
>>> # 161725 pdf
>>> ef.fund.get_pdf_reports('161725', max_count = 2)
161725 pdf pdf/161725
```

`efinance.fund.get_period_change(fund_code: str) → pandas.core.frame.DataFrame`

Parameters `fund_code (str)` – 6

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> ef.fund.get_period_change('161725')
```

0	161725	-6.28	0.07	1408	1409
1	161725	10.85	5.82	178	1382
2	161725	25.32	7.10	20	1332
3	161725	22.93	10.39	79	1223
4	161725	103.76	33.58	7	1118
5	161725	166.59	55.42	9	796
6	161725	187.50	48.17	2	611
7	161725	519.44	61.62	1	389
8	161725	6.46	5.03	423	1243
9	161725	477.00			

`efinance.fund.get_public_dates(fund_code: str) → List[str]`

Parameters `fund_code (str)` – 6

Returns

Return type List[str]

Examples

```
>>> import efinance as ef
>>> public_dates = ef.fund.get_public_dates('161725')
>>> # 5
>>> public_dates[:5]
['2021-03-31', '2021-01-08', '2020-12-31', '2020-09-30', '2020-06-30']
```

`efinance.fund.get_quote_history(fund_code: str, pz: int = 40000) → pandas.core.frame.DataFrame`

Parameters

- `fund_code (str)` – 6

- `pz` (*int, optional*) –, 40000

Returns**Return type** DataFrame**Examples**

```
>>> import efinance as ef
>>> ef.fund.get_quote_history('161725')

0    2021-06-11  1.5188  3.1499  -3.09
1    2021-06-10  1.5673  3.1984   1.69
2    2021-06-09  1.5412  3.1723   0.11
3    2021-06-08  1.5395  3.1706  -6.5
4    2021-06-07  1.6466  3.2777   1.61
...
1469 2015-06-08  1.0380  1.0380  2.5692
1470 2015-06-05  1.0120  1.0120  1.5045
1471 2015-06-04  0.9970  0.9970   --
1472 2015-05-29  0.9950  0.9950   --
1473 2015-05-27  1.0000  1.0000   --
```

`efinance.fund.get_realtime_increase_rate(fund_codes: Union[List[str], str]) → pandas.core.frame.DataFrame`

Parameters `fund_codes` (*Union[List[str], str]*) – 6 6**Returns****Return type** DataFrame**Examples**

```
>>> import efinance as ef
>>> #
>>> ef.fund.get_realtime_increase_rate('161725')

0  161725  (LOF)A  -0.64  2021-06-15  11:13
>>> #
>>> ef.fund.get_realtime_increase_rate(['161725', '005827'])

0  161725  (LOF)A  -0.60  2021-06-15  11:16
1  005827                -1.36  2021-06-15  11:16
```

`efinance.fund.get_types_persentage(fund_code: str, dates: Optional[Union[List[str], str]] = None) → pandas.core.frame.DataFrame`

Parameters

- `fund_code` (*str*) – 6
- `dates` (*Union[List[str], str, None]*) – (dates)

- None :
- '2020-01-01' :
- ['2020-12-31' , '2019-12-31'] :

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> #
>>> public_dates = ef.fund.get_public_dates('005827')
>>> #
>>> dates = public_dates[:2]
>>> ef.fund.get_types_percentage('005827', dates)
      ()
0 005827 94.4 -- 6.06 880.1570625231 0
0 005827 94.09 -- 7.63 677.007455712 0
```

Bond

efinance.bond.get_all_base_info() → pandas.core.frame.DataFrame

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> ef.bond.get_all_base_info()
      () (%)      ()
↪
0 123120 300263 AA- 2021-07-30 00:00:00 7.989283 NaN ↪
↪ None 2027-07-30 00:00:00 6 0.40%0.70%1.00%1.60%2.... ↪
1 110081 600745 AA+ 2021-07-28 00:00:00 86.000000 0.044030 ↪
↪ None 2027-07-28 00:00:00 6 0.10%0.20%0.30%1.50%1.80%... ↪
2 118001 688598 A+ 2021-07-23 00:00:00 5.999010 0.001771 ↪
↪ None 2027-07-23 00:00:00 6 0.50%0.70%1.20%1.80%2.40%... ↪
3 123119 2 300601 AA 2021-07-15 00:00:00 20.000000 0.014182 ↪
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00% 1.50%1.... ↪
4 113627 603877 AA 2021-07-15 00:00:00 8.000000 0.000542 ↪
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1.80%... ↪
... ... ... ... ... ... ... ... ↪
↪ ... ... ... ... ↪
↪ ... ↪
80 110227 600227 AAA 2007-10-10 00:00:00 4.500000 0.158854 2007-10- ↪
↪23 00:00:00 2009-05-25 00:00:00 1.6192 : 1.5%1.8%2.... ↪
81 126006 07 600548 AAA 2007-10-09 00:00:00 15.000000 0.290304 2007-10- ↪
↪30 00:00:00 2013-10-09 00:00:00 6 (continues on next page)
↪ None
```



```
efinance.bond.get_quote_history(stock_codes: Union[str, List[str]], beg: str = '19000101', end: str =
                                '20500101', klt: int = 101, fqt: int = 1) →
                                Union[pandas.core.frame.DataFrame, Dict[str,
                                pandas.core.frame.DataFrame]]
```

ETF K

Parameters

- **stock_codes** (*Union[str, List[str]]*) – ETF
- **beg** (*str, optional*) – '19000101' 190011
- **end** (*str, optional*) – '20500101' 205011
- **klt** (*int, optional*) – 101
 - 1:
 - 5:5
 - 101:
 - 102:
- **fqt** (*int, optional*) – 1
 - 0:
 - 1:
 - 2:

Returns

ETF K

- **DataFrame**: stock_codes str
- **Dict[str, DataFrame]**: stock_codes List[str]

Return type Union[DataFrame, Dict[str, DataFrame]]

Examples

```
>>> import efinance as ef
>>> # K
>>> ef.stock.get_quote_history('600519')
0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318  1.
↪410347e+09 -1.10  0.92  0.83  56.83
1      600519  2001-08-28  -89.64  -89.27  -89.24  -89.72  129647  4.
↪634630e+08 -0.54  0.29  0.26  18.13
2      600519  2001-08-29  -89.24  -89.36  -89.24  -89.42  53252  1.
↪946890e+08 -0.20 -0.10 -0.09  7.45
3      600519  2001-08-30  -89.38  -89.22  -89.14  -89.44  48013  1.
↪775580e+08 -0.34  0.16  0.14  6.72
4      600519  2001-08-31  -89.21  -89.24  -89.12  -89.28  23231  8.
↪623100e+07 -0.18 -0.02 -0.02  3.25
...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...      ...      ...
4756   600519  2021-07-23  1937.82  1900.00  1937.82  1895.09  47585  9.
↪057762e+09  2.20 -2.06 -40.01  0.38
```

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```

4757    600519    2021-07-26    1879.00    1804.11    1879.00    1780.00    98619    1.
↪789436e+10    5.21    -5.05    -95.89    0.79
4758    600519    2021-07-27    1803.00    1712.89    1810.00    1703.00    86577    1.
↪523081e+10    5.93    -5.06    -91.22    0.69
4759    600519    2021-07-28    1703.00    1768.90    1788.20    1682.12    85369    1.
↪479247e+10    6.19    3.27    56.01    0.68
4760    600519    2021-07-29    1810.01    1749.79    1823.00    1734.34    63864    1.
↪129957e+10    5.01    -1.08    -19.11    0.51

```

```

>>> #
>>> stock_df = ef.stock.get_quote_history(['600519', '300750'])
>>> type(stock_df)
<class 'dict'>
>>> stock_df.keys()
dict_keys(['300750', '600519'])
>>> stock_df['600519']

0      600519    2001-08-27    -89.74    -89.53    -89.08    -90.07    406318    1.
↪410347e+09    -1.10    0.92    0.83    56.83
1      600519    2001-08-28    -89.64    -89.27    -89.24    -89.72    129647    4.
↪634630e+08    -0.54    0.29    0.26    18.13
2      600519    2001-08-29    -89.24    -89.36    -89.24    -89.42    53252    1.
↪946890e+08    -0.20    -0.10    -0.09    7.45
3      600519    2001-08-30    -89.38    -89.22    -89.14    -89.44    48013    1.
↪775580e+08    -0.34    0.16    0.14    6.72
4      600519    2001-08-31    -89.21    -89.24    -89.12    -89.28    23231    8.
↪623100e+07    -0.18    -0.02    -0.02    3.25
...      ...      ...      ...      ...      ...      ...      ...      ...
↪...      ...      ...      ...      ...
4756    600519    2021-07-23    1937.82    1900.00    1937.82    1895.09    47585    9.
↪057762e+09    2.20    -2.06    -40.01    0.38
4757    600519    2021-07-26    1879.00    1804.11    1879.00    1780.00    98619    1.
↪789436e+10    5.21    -5.05    -95.89    0.79
4758    600519    2021-07-27    1803.00    1712.89    1810.00    1703.00    86577    1.
↪523081e+10    5.93    -5.06    -91.22    0.69
4759    600519    2021-07-28    1703.00    1768.90    1788.20    1682.12    85369    1.
↪479247e+10    6.19    3.27    56.01    0.68
4760    600519    2021-07-29    1810.01    1749.79    1823.00    1734.34    63864    1.
↪129957e+10    5.01    -1.08    -19.11    0.51

```

`efinance.bond.get_realtime_quotes()` → `pandas.core.frame.DataFrame`

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> ef.bond.get_realtime_quotes()

→ ID
0 123015 12.01 196.016 205.0 175.5 21.016 289.73 - 290382
→562644960.0 175.0 196453900 196453900 0.123015 A
1 123077 9.81 115.744 122.971 105.401 10.344 27.31 - 255938
→300981808.0 105.4 1084524984 1084524984 0.123077 A
2 123066 9.6 235.636 245.8 225.0 20.636 445.13 - 429894
→1024109200.0 215.0 227571122 227571122 0.123066 A
3 128093 7.97 361.703 367.9 335.5 26.703 331.33 - 538541
→1911599200.0 335.0 587911694 587911694 0.128093 A
4 128082 6.96 157.836 163.769 147.089 10.264 95.79 - 210268
→330316704.0 147.572 346459017 346459017 0.128082 A
... ..
→ ... ..
383 123070 -3.71 176.686 179.799 174.471 -6.814 17.18 - 134937
→239316754.0 183.5 1387967297 1387967297 0.123070 A
384 123027 -3.95 340.972 352.825 340.078 -14.027 39.08 - 41841
→144141944.0 354.999 365040191 365040191 0.123027 A
385 113621 -4.25 217.37 222.5 214.41 -9.65 10.7 - 85599
→187087584.0 227.02 1739351266 1739351266 1.113621 A
386 123047 -4.84 308.3 319.52 305.382 -15.67 113.0 - 178692
→554491376.0 323.97 487547470 487547470 0.123047 A
387 123087 -4.93 150.801 169.0 150.302 -7.828 113.41 - 501561
→789441584.0 158.629 666950599 666950599 0.123087 A
```

Futures

efinance.futures.get_futures_base_info() → pandas.core.frame.DataFrame

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> ef.futures.get_futures_base_info()
      secid
0      jmm      114.jmm
1  jm2109  2109  114.jm2109
2  ss2204  2204  113.ss2204
3  jm2110  2110  114.jm2110
4  jm2108  2108  114.jm2108
..      ...      ...      ...
782  i2204  2204  114.i2204
783  i2112  2112  114.i2112
```

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784	i2203	2203	114.i2203
785	im		114.im
786	i2109	2109	114.i2109

```
efinance.futures.get_quote_history(secids: Union[str, List[str]], beg: str = '19000101', end: str =
'20500101', klt: int = 101, fqt: int = 1) →
pandas.core.frame.DataFrame
```

Parameters

- **secids** (*Union[str, List[str]]*) – secid secid
- **beg** (*str, optional*) – '19000101' 190011
- **end** (*str, optional*) – '20500101' 205011
- **klt** (*int, optional*) – 101
 - 1:
 - 5:5
 - 101:
 - 102:
- **fqt** (*int, optional*) – 1
 - 0:
 - 1:
 - 2:

Returns

K

- DataFrame: secids str
- Dict[str, DataFrame]: secids List[str]

Return type Union[DataFrame, Dict[str, DataFrame]]**Raises TypeError** – secids**Examples**

```
>>> import efinance as ef
>>> # secid
>>> secid = '115.ZCM'
>>> ef.futures.get_quote_history(secid)

0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.
↪00  0.0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.
↪32 -1.4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.
↪23 -1.0  0.0
```

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3	ZCM	2015-05-21	438.0	443.2	446.8	437.8	37	1.631850e+06	2.06	1.
↪65		7.2	0.0							
4	ZCM	2015-05-22	439.2	441.4	443.8	439.2	34	1.502500e+06	1.04	0.
↪09		0.4	0.0							
...
↪							
1509	ZCM	2021-07-27	897.0	892.4	915.8	888.0	109033	9.802067e+09	3.10	-0.
↪53		-4.8	0.0							
1510	ZCM	2021-07-28	892.4	902.4	909.6	890.4	89853	8.086770e+09	2.14	0.
↪38		3.4	0.0							
1511	ZCM	2021-07-29	902.6	918.6	919.0	900.4	83106	7.562646e+09	2.07	2.
↪07		18.6	0.0							
1512	ZCM	2021-07-30	918.6	927.2	943.0	906.2	129862	1.202003e+10	4.04	1.
↪89		17.2	0.0							
1513	ZCM	2021-08-02	898.0	870.0	898.0	852.4	101722	8.900675e+09	4.93	-6.
↪01		-55.6	0.0							

```

>>> # secid
>>> secids = ['115.ZCM', '115.ZC109']
>>> futures_df = ef.futures.get_quote_history(secids)
>>> type(futures_df)
<class 'dict'>
>>> futures_df.keys()
dict_keys(['115.ZC109', '115.ZCM'])
>>> futures_df['115.ZC109']

0    109  ZC109  2020-09-09  551.2  551.2  551.2  551.2      2  1.102400e+05  0.00↵
↪ 0.00  0.0  0.0
1    109  ZC109  2020-09-10  548.6  545.0  549.8  545.0      6  3.289200e+05  0.87↵
↪-1.12 -6.2  0.0
2    109  ZC109  2020-09-11  545.0  544.2  548.4  543.0      7  3.815000e+05  0.99↵
↪-0.73 -4.0  0.0
3    109  ZC109  2020-09-14  546.0  550.4  550.4  546.0      7  3.843000e+05  0.81↵
↪ 0.99  5.4  0.0
4    109  ZC109  2020-09-15  549.0  551.2  551.6  549.0     14  7.705600e+05  0.47↵
↪ 0.40  2.2  0.0
..     ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
↪..     ..  ..  ..  ..  ..  ..  ..  ..  ..  ..  ..
212  109  ZC109  2021-07-27  897.0  892.4  915.8  888.0  109033  9.802067e+09  3.10↵
↪-0.53 -4.8  0.0
213  109  ZC109  2021-07-28  892.4  902.4  909.6  890.4   89853  8.086770e+09  2.14↵
↪ 0.38  3.4  0.0
214  109  ZC109  2021-07-29  902.6  918.6  919.0  900.4   83106  7.562646e+09  2.07↵
↪ 2.07 18.6  0.0
215  109  ZC109  2021-07-30  918.6  927.2  943.0  906.2  129862  1.202003e+10  4.04↵
↪ 1.89 17.2  0.0
216  109  ZC109  2021-08-02  898.0  870.0  898.0  852.4  101722  8.900675e+09  4.93↵
↪-6.01 -55.6 0.0

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