
efinance

Release 0.3.4

micro sheep

Aug 09, 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 v0.3.4 (2021-08-08)

5.1.1 Changed

- vscode
-

5.2 v0.3.3 (2021-08-08)

5.2.1 Changed

-
-

5.3 v0.3.2 (2021-08-08)

5.3.1 Added

- sphinx
 - read the docs
-

5.4 v0.3.1 (2021-08-05)

5.4.1 Added

- session

5.4.2 Fixed

-
-

5.5 v0.3.0 (2021-08-03)

5.5.1 Added

-
- jsonpath

5.5.2 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
```

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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)

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]

>>> #
```

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```
>>> 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
[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
```

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```

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		
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			

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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]

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

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```

>>> 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%	2.00%
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%	1.50%
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%	2.0%		
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%,2.0%				
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%,2.0%				
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.
				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			

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```
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
```

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```

1510    ZCM  2021-07-28  892.4  902.4  909.6  890.4  89853  8.086770e+09  2.14  0.38  0.0
↳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  0.0
↳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  0.0
↳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 -0.0
↳55.6  0.0

[1514 rows x 13 columns]

>>> 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  0.0
↳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 -1.0
↳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 -0.0
↳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  0.0
↳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  0.0
↳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 -0.0
↳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  0.0
↳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  2.0
↳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  1.0
↳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 -6.0
↳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`

Examples

```
>>> import efinance as ef
>>> #
>>> ef.stock.get_base_info('600519')
        600519
()
        39.38
        12.54
        2198082348462.0
        2198082348462.0
        BK0477
ROE
        8.29
        54.1678
        13954462085.610001
        91.6763
dtype: object
```

```
>>> #
>>> ef.stock.get_base_info(['600519', '300715'])
()
ROE
0 300715 42.29 3.12 9.160864e+09 6.397043e+09 BK0424 3.97 12.1659 5.
  ↪415488e+07 32.8765
1 600519 39.38 12.54 2.198082e+12 2.198082e+12 BK0477 8.29 54.1678 1.
  ↪395446e+10 91.6763
```

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

Parameters `stock_code` (`str`) –

Returns

Return type `DataFrame`

Examples

```

>>> import efinance as ef
>>> ef.stock.get_history_bill('600519')

0      600519  2021-03-04 -3.670272e+06 -2282056.0  5.952143e+06  1.461528e+09 -1.
↳465199e+09  -0.03  -0.02  0.04  10.99  -11.02  2013.71  -5.05
1      600519  2021-03-05 -1.514880e+07 -1319066.0  1.646793e+07 -2.528896e+07  1.
↳014016e+07  -0.12  -0.01  0.13  -0.19  0.08  2040.82  1.35
2      600519  2021-03-08 -8.001702e+08 -877074.0  8.010473e+08  5.670671e+08 -1.
↳367237e+09  -6.29  -0.01  6.30  4.46  -10.75  1940.71  -4.91
3      600519  2021-03-09 -2.237770e+08 -6391767.0  2.301686e+08 -1.795013e+08 -4.
↳427571e+07  -1.39  -0.04  1.43  -1.11  -0.27  1917.70  -1.19
4      600519  2021-03-10 -2.044173e+08 -1551798.0  2.059690e+08 -2.378506e+08  3.
↳343331e+07  -2.02  -0.02  2.03  -2.35  0.33  1950.72  1.72
..      ...      ...      ...      ...      ...      ...      ...      ...
↳
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 -8.
↳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  1.
↳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 -5.
↳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 -1.
↳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
```

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```

... ..
↳ ... ..
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
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
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

```

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```

...      ...      ...      ...      ...      ...      ...
↪      ...
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	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
								↪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
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'])
→6.38it/s]                                00:00, ▮
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

```

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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
```

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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
```

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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_percentage(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
→ 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%,...
```

efinance.bond.get_base_info(*bond_codes: Union[str, List[str]]*) → Union[pandas.core.frame.DataFrame, pandas.core.series.Series]

Parameters *bond_codes* (*Union[str, List[str]]*) –

Returns

- DataFrame: *bond_codes*
- Series: *bond_codes*

Return type Union[DataFrame, Series]

Examples

```
>>> import efinance as ef
>>> #
>>> ef.bond.get_base_info('123111')
```

		123111	
		3	
		300059	
		AA+	
	2021-04-07 00:00:00		
(158	
(%)		0.05877	
	2021-04-23 00:00:00		
	2027-04-07 00:00:00		
(6	
	0.2%0.3%0.4%0.8%1.8%2.0%		

dtype: object

```
>>>
>>> bond_codes = ['123111', '113050']
>>> ef.bond.get_base_info(bond_codes)
```

	...		()
↩			↩
0	113050 601009 ...	2021-07-01 00:00:00 2027-06-15 00:00:00	6 0.20%0.40%0.70%1.20%1.70%...
1	123111 3 300059 ...	2021-04-23 00:00:00 2027-04-07 00:00:00	6 0.2%0.3%0.4%0.8%1.8%2.0%

efinance.bond.get_quote_history(*stock_codes: Union[str, List[str]]*, *beg: str = '19000101'*, *end: str = '20500101'*, *kl: 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
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

```

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...
↪
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
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								
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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