
efinance

Release 0.3.6

micro sheep

Aug 22, 2021

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efinance Python

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-

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      688787  N 277.59 139.48 172.39 139.25 171.66 102.54 85.62 - 78.93 ↪
↪ 74519 1110318832.0 36.94 5969744000 1213908667 1.688787 A
1      301045  N 149.34 39.42 48.95 39.2 48.95 23.61 66.66 - 37.81 ↪
↪ 163061 683878656.0 15.81 4066344240 964237089 0.301045 A
2      300532  20.04 12.16 12.16 10.69 10.69 2.03 8.85 3.02 -22.72 ↪
↪ 144795 171535181.0 10.13 3322510580 1989333440 0.300532 A
3      300600  20.02 13.19 13.19 11.11 11.41 2.2 18.61 2.82 218.75 ↪
↪ 423779 541164432.0 10.99 3915421427 3003665117 0.300600 A
4      300985  20.01 47.08 47.08 36.8 39.4 7.85 66.65 2.17 58.37 ↪
↪ 210697 897370992.0 39.23 6277336472 1488300116 0.300985 A
...
↪ ...
4598 603186 -10.0 43.27 44.09 43.27 43.99 -4.81 1.98 0.48 25.24 ↪
↪ 27697 120486294.0 48.08 6146300650 6063519472 1.603186 A
4599 688185 -U -10.11 476.4 534.94 460.13 530.0 -53.6 6.02 2.74 -2088.07 ↪
↪ 40239 1960540832.0 530.0 117885131884 31831479215 1.688185 A
4600 688148 -10.57 31.3 34.39 31.3 33.9 -3.7 26.07 0.56 220.01 ↪
↪ 188415 620632512.0 35.0 15923562000 2261706043 1.688148 A
4601 300034 -10.96 43.12 46.81 42.88 46.5 -5.31 7.45 1.77 59.49 ↪
↪ 323226 1441101824.0 48.43 20959281094 18706911861 0.300034 A
4602 300712 -13.71 96.9 110.94 95.4 109.0 -15.4 6.96 1.26 511.21 ↪
↪ 126705 1265152928.0 112.3 17645877600 17645877600 0.300712 A

```

[4603 rows x 18 columns]

```

>>> import efinance as ef
>>> ef.stock.get_all_company_performance() #

```

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```

0      000422      2021-08-16 00:00:00  2021Q2  0.8080  9.348938e+09  52.140693  7.
↳255041e+08  367.934874  2021
1      000960      2021-08-16 00:00:00  2021Q2  0.5832  2.945845e+10  30.908034  9.
↳598990e+08  375.105697  2021
2      002194      2021-08-16 00:00:00  2021Q2  0.1919  8.717292e+08  25.840099  1.
↳292094e+08  61.258608  2021
3      002499 *ST  2021-08-16 00:00:00  2021Q2 -0.1514  1.480752e+07 -17.804820 -2.
↳861696e+07 -13.834797  2021
4      002821      2021-08-16 00:00:00  2021Q2  1.7800  1.760187e+09  39.042667  4.
↳293279e+08  36.031188  2021
..      ...      ...      ...      ...      ...      ...
↳ ...      ...      ...
597  002261      2021-07-15 00:00:00  2021Q2  0.0550  8.901777e+08  47.505282  6.
↳071063e+07  68.323793  2021
598  600644      2021-07-15 00:00:00  2021Q2      NaN  1.257030e+09  18.079648  8.
↳379727e+07 -14.303494  2021
599  603100      2021-07-15 00:00:00  2021Q2  0.7700  2.536000e+09  42.040204  3.
↳040000e+08  273.372636  2021
600  601952      2021-07-13 00:00:00  2021Q2  0.2400  4.544138e+09  11.754570  3.
↳278197e+08  1.156936  2021
601  601568      2021-07-09 00:00:00  2021Q2  0.3200  6.031506e+09  32.543303  1.
↳167989e+09  61.053739  2021

```

[602 rows x 10 columns]

• ()

```

>>> import efinance as ef
>>> ef.stock.get_history_bill('300750')

0      300750  2021-03-18  4.453786e+07  51241536.0 -9.577939e+07 -26680704.0
↳71218560.0      1.16      1.33      -2.49      -0.69      1.85  335.56  0.84
1      300750  2021-03-19 -6.129661e+08  423235296.0  1.897308e+08 -244136864.0 -
↳368829200.0     -10.13      6.99      3.14      -4.03      -6.09  316.26 -5.75
2      300750  2021-03-22 -5.674665e+08  473253808.0  9.421272e+07 -255868192.0 -
↳311598336.0     -7.95      6.63      1.32      -3.58      -4.37  307.56 -2.75
3      300750  2021-03-23 -3.168412e+08  131142880.0  1.856984e+08 -349417168.0
↳32575936.0     -6.88      2.85      4.03      -7.59      0.71  303.67 -1.26
4      300750  2021-03-24 -5.999049e+08  371268928.0  2.286360e+08 -6849616.0 -
↳593055328.0     -8.18      5.06      3.12      -0.09      -8.09  288.55 -4.98
..      ...      ...      ...      ...      ...      ...
↳ ...      ...      ...      ...      ...      ...      ...
97      300750  2021-08-09 -1.152779e+09 -596512.0  1.153376e+09 -370189552.0 -
↳782589456.0    -12.09     -0.01     12.10     -3.88     -8.21  516.00 -5.13
98      300750  2021-08-10 -1.009431e+09 -358999.0  1.009790e+09 -392670720.0 -
↳616759952.0    -11.03     -0.00     11.03     -4.29     -6.74  510.50 -1.07
99      300750  2021-08-11  1.305631e+08 -475792.0 -1.300873e+08 -204097776.0
↳334660864.0      2.25     -0.01     -2.25     -3.52      5.78  517.25  1.32
100     300750  2021-08-12 -1.425337e+09 -488240.0  1.425825e+09 -454688192.0 -
↳970648896.0    -16.58     -0.01     16.58     -5.29    -11.29  502.00 -2.95

```

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```
101      300750  2021-08-13 -3.111439e+08  -895641.0  3.120392e+08 -145200128.0 -
→165943808.0    -2.21    -0.01    2.22    -1.03    -1.18  502.05  0.01
```

```
[102 rows x 15 columns]
```

- ()

```
>>> import efinance as ef
>>> ef.stock.get_today_bill('300750')
```

```
0      300750  2021-08-13 09:31  -58855676.0 -171274.0  59026945.0  22025460.0 -
→80881136.0
1      300750  2021-08-13 09:32  -50671227.0 -190312.0  50861534.0   8927176.0 -
→59598403.0
2      300750  2021-08-13 09:33  -67833979.0 -190312.0  68024288.0  34170593.0 -
→102004572.0
3      300750  2021-08-13 09:34  -28890553.0 -220312.0  29110861.0  16373829.0 -
→45264382.0
4      300750  2021-08-13 09:35  -14955904.0 -482660.0  15438561.0  14601153.0 -
→29557057.0
```

```
..      ...      ...      ...      ...      ...      ...      ...
→      ...
```

```
235     300750  2021-08-13 14:56 -311695708.0 -895633.0  312591337.0 -144447542.0 -
→167248166.0
236     300750  2021-08-13 14:57 -310641455.0 -895633.0  311537085.0 -144697852.0 -
→165943603.0
237     300750  2021-08-13 14:58 -311143584.0 -895633.0  312039214.0 -145199981.0 -
→165943603.0
238     300750  2021-08-13 14:59 -311143584.0 -895633.0  312039214.0 -145199981.0 -
→165943603.0
239     300750  2021-08-13 15:00 -311143584.0 -895633.0  312039214.0 -145199981.0 -
→165943603.0
```

```
[240 rows x 8 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
```

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```

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
.. ..
↪ ...

```

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```

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....
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

```

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

```

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```

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
..   ...   ...   ...   ...   ...   ...   ...   ...   ...   ...
↪ ...   ...   ...   ...
72  3  123111  2021-08-09  159.600  159.300  162.990  158.690  596124  9.585751e+08  2.
↪69 -0.34 -0.550  3.77
73  3  123111  2021-08-10  159.190  160.950  161.450  157.000  517237  8.234596e+08  2.
↪79  1.04  1.650  3.27
74  3  123111  2021-08-11  161.110  159.850  162.300  159.400  298906  4.800711e+08  1.
↪80 -0.68 -1.100  1.89
75  3  123111  2021-08-12  159.110  158.290  160.368  158.010  270641  4.298100e+08  1.
↪48 -0.98 -1.560  1.71
76  3  123111  2021-08-13  158.000  158.358  160.290  157.850  250059  3.975513e+08  1.
↪54  0.04  0.068  1.58

```

[77 rows x 13 columns]

2.4 Futures

```

>>> import efinance as ef
>>> ef.futures.get_futures_base_info()

```

```

          ID
0      ZCM      115.ZCM
1    ZC201    201    115.ZC201
2      jm      114.jm
3    j2201    2201    114.j2201
4      jmm      114.jmm
..   ...   ...   ...
846  jm2109    2109    114.jm2109
847  071108    IH2108    8.071108
848  070131    IH      8.070131
849  070120    IH      8.07012
850  lu2109    2109    142.lu2109

```

[851 rows x 4 columns]

```

>>> import efinance as ef
>>> # ID
>>> quote_ids = ef.futures.get_realtime_quotes()['ID']
>>> # ID(ID)
>>> quote_id = quote_ids[0]
>>> # ID
>>> quote_ids[0]
'115.ZCM'
>>> # ID K
>>> ef.futures.get_quote_history(quote_id)

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
...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...      ...
1524    ZCM  2021-08-17  755.0  770.8  776.0  750.6  82373  6.288355e+09  3.25 -1.26 -9.
↪8  0.0
1525    ZCM  2021-08-18  770.8  776.8  785.8  766.0  77392  6.016454e+09  2.59  1.76 13.
↪4  0.0
1526    ZCM  2021-08-19  776.8  777.6  798.0  764.6  97229  7.597474e+09  4.30  0.03  0.
↪2  0.0
1527    ZCM  2021-08-20  778.0  793.0  795.0  775.2  70549  5.553617e+09  2.53  1.48 11.
↪6  0.0
1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28 49.
↪4  0.0

[1529 rows x 13 columns]

>>> # ID
>>> quote_ids = ['115.ZCM', '115.ZC109']
>>> futures_df = ef.futures.get_quote_history(quote_ids)
>>> type(futures_df)
<class 'dict'>
>>> futures_df['115.ZCM']

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

```

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...
↪										
1524	ZCM	2021-08-17	755.0	770.8	776.0	750.6	82373	6.288355e+09	3.25	-1.26	-9.	
↪8	0.0											
1525	ZCM	2021-08-18	770.8	776.8	785.8	766.0	77392	6.016454e+09	2.59	1.76	13.	
↪4	0.0											
1526	ZCM	2021-08-19	776.8	777.6	798.0	764.6	97229	7.597474e+09	4.30	0.03	0.	
↪2	0.0											
1527	ZCM	2021-08-20	778.0	793.0	795.0	775.2	70549	5.553617e+09	2.53	1.48	11.	
↪6	0.0											
1528	ZCM	2021-08-23	796.8	836.6	843.8	796.8	82954	6.850341e+09	5.97	6.28	49.	
↪4	0.0											
[1529 rows x 13 columns]												

API => Docs

sphinx efinance

•

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

•

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

```
sphinx-build . ./build -b html -D language=zh
```

docs/build.html

pdoc efinance

•

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

•

```
pdoc efinance -d numpy
```

efinance

CHAPTER

FOUR

CONTACT

CHANGELOG

5.1 v0.3.6 (2021-08-21)

5.2 Fixed

-

5.3 Changed

-

5.4 Added

- futures

5.5 v0.3.5 (2021-08-15)

5.5.1 Added

-
-
- common bond stock
- bond
-

5.6 v0.3.4 (2021-08-08)

5.6.1 Changed

- vscode
-

5.7 v0.3.3 (2021-08-08)

5.7.1 Changed

-
-

5.8 v0.3.2 (2021-08-08)

5.8.1 Added

- sphinx
 - read the docs
-

5.9 v0.3.1 (2021-08-05)

5.9.1 Added

- session

5.9.2 Fixed

-
-

5.10 v0.3.0 (2021-08-03)

5.10.1 Added

-
- jsonpath

5.10.2 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						
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						

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[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						
...
→...						
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						

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```

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
>>> ef.stock.get_quote_history(stock_code, klt=frequency)

```

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```

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      688787  N 277.59 139.48 172.39 139.25 171.66 102.54 85.62 - 78.93 ↪
↪ 74519 1110318832.0 36.94 5969744000 1213908667 1.688787 A
1      301045  N 149.34 39.42 48.95 39.2 48.95 23.61 66.66 - 37.81 ↪
↪ 163061 683878656.0 15.81 4066344240 964237089 0.301045 A
2      300532  20.04 12.16 12.16 10.69 10.69 2.03 8.85 3.02 -22.72 ↪
↪ 144795 171535181.0 10.13 3322510580 1989333440 0.300532 A
3      300600  20.02 13.19 13.19 11.11 11.41 2.2 18.61 2.82 218.75 ↪
↪ 423779 541164432.0 10.99 3915421427 3003665117 0.300600 A
4      300985  20.01 47.08 47.08 36.8 39.4 7.85 66.65 2.17 58.37 ↪
↪ 210697 897370992.0 39.23 6277336472 1488300116 0.300985 A
...      ...      ...      ...      ...      ...      ...      ...      ...
↪
4598 603186 -10.0 43.27 44.09 43.27 43.99 -4.81 1.98 0.48 25.24 ↪
↪ 27697 120486294.0 48.08 6146300650 6063519472 1.603186 A
4599 688185 -U -10.11 476.4 534.94 460.13 530.0 -53.6 6.02 2.74 -2088.07 ↪
↪ 40239 1960540832.0 530.0 117885131884 31831479215 1.688185 A
4600 688148 -10.57 31.3 34.39 31.3 33.9 -3.7 26.07 0.56 220.01 ↪
↪ 188415 620632512.0 35.0 15923562000 2261706043 1.688148 A
4601 300034 -10.96 43.12 46.81 42.88 46.5 -5.31 7.45 1.77 59.49 ↪
↪ 323226 1441101824.0 48.43 20959281094 18706911861 0.300034 A
4602 300712 -13.71 96.9 110.94 95.4 109.0 -15.4 6.96 1.26 511.21 ↪
↪ 126705 1265152928.0 112.3 17645877600 17645877600 0.300712 A

```

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[4603 rows x 18 columns]

```
>>> import efinance as ef
>>> ef.stock.get_all_company_performance() #
```

0	000422	2021-08-16 00:00:00	2021Q2	0.8080	9.348938e+09	52.140693	7.
	↪255041e+08	367.934874	2021				
1	000960	2021-08-16 00:00:00	2021Q2	0.5832	2.945845e+10	30.908034	9.
	↪598990e+08	375.105697	2021				
2	002194	2021-08-16 00:00:00	2021Q2	0.1919	8.717292e+08	25.840099	1.
	↪292094e+08	61.258608	2021				
3	002499	*ST 2021-08-16 00:00:00	2021Q2	-0.1514	1.480752e+07	-17.804820	-2.
	↪861696e+07	-13.834797	2021				
4	002821	2021-08-16 00:00:00	2021Q2	1.7800	1.760187e+09	39.042667	4.
	↪293279e+08	36.031188	2021				
..
	↪...				
597	002261	2021-07-15 00:00:00	2021Q2	0.0550	8.901777e+08	47.505282	6.
	↪071063e+07	68.323793	2021				
598	600644	2021-07-15 00:00:00	2021Q2	NaN	1.257030e+09	18.079648	8.
	↪379727e+07	-14.303494	2021				
599	603100	2021-07-15 00:00:00	2021Q2	0.7700	2.536000e+09	42.040204	3.
	↪040000e+08	273.372636	2021				
600	601952	2021-07-13 00:00:00	2021Q2	0.2400	4.544138e+09	11.754570	3.
	↪278197e+08	1.156936	2021				
601	601568	2021-07-09 00:00:00	2021Q2	0.3200	6.031506e+09	32.543303	1.
	↪167989e+09	61.053739	2021				

[602 rows x 10 columns]

• ()

```
>>> import efinance as ef
>>> ef.stock.get_history_bill('300750')
```

0	300750	2021-03-18	4.453786e+07	51241536.0	-9.577939e+07	-26680704.0	
	↪71218560.0	1.16	1.33	-2.49	-0.69	1.85 335.56 0.84	
1	300750	2021-03-19	-6.129661e+08	423235296.0	1.897308e+08	-244136864.0	-
	↪368829200.0	-10.13	6.99	3.14	-4.03	-6.09 316.26 -5.75	
2	300750	2021-03-22	-5.674665e+08	473253808.0	9.421272e+07	-255868192.0	-
	↪311598336.0	-7.95	6.63	1.32	-3.58	-4.37 307.56 -2.75	
3	300750	2021-03-23	-3.168412e+08	131142880.0	1.856984e+08	-349417168.0	
	↪32575936.0	-6.88	2.85	4.03	-7.59	0.71 303.67 -1.26	
4	300750	2021-03-24	-5.999049e+08	371268928.0	2.286360e+08	-6849616.0	-
	↪593055328.0	-8.18	5.06	3.12	-0.09	-8.09 288.55 -4.98	
..
	↪...
97	300750	2021-08-09	-1.152779e+09	-596512.0	1.153376e+09	-370189552.0	-
	↪782589456.0	-12.09	-0.01	12.10	-3.88	-8.21 516.00 -5.13	

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```

98      300750  2021-08-10 -1.009431e+09 -358999.0  1.009790e+09 -392670720.0 -
↳ 616759952.0 -11.03 -0.00 11.03 -4.29 -6.74 510.50 -1.07
99      300750  2021-08-11 1.305631e+08 -475792.0 -1.300873e+08 -204097776.0 ↳
↳ 334660864.0 2.25 -0.01 -2.25 -3.52 5.78 517.25 1.32
100     300750  2021-08-12 -1.425337e+09 -488240.0 1.425825e+09 -454688192.0 -
↳ 970648896.0 -16.58 -0.01 16.58 -5.29 -11.29 502.00 -2.95
101     300750  2021-08-13 -3.111439e+08 -895641.0 3.120392e+08 -145200128.0 -
↳ 165943808.0 -2.21 -0.01 2.22 -1.03 -1.18 502.05 0.01

```

[102 rows x 15 columns]

• ()

```

>>> import efinance as ef
>>> ef.stock.get_today_bill('300750')

0      300750  2021-08-13 09:31 -58855676.0 -171274.0  59026945.0  22025460.0 -
↳ 80881136.0
1      300750  2021-08-13 09:32 -50671227.0 -190312.0  50861534.0  8927176.0 -
↳ 59598403.0
2      300750  2021-08-13 09:33 -67833979.0 -190312.0  68024288.0  34170593.0 -
↳ 102004572.0
3      300750  2021-08-13 09:34 -28890553.0 -220312.0  29110861.0  16373829.0 -
↳ 45264382.0
4      300750  2021-08-13 09:35 -14955904.0 -482660.0  15438561.0  14601153.0 -
↳ 29557057.0
..      ...      ...      ...      ...      ...      ...      ...      ↳
↳ ...
235     300750  2021-08-13 14:56 -311695708.0 -895633.0  312591337.0 -144447542.0 -
↳ 167248166.0
236     300750  2021-08-13 14:57 -310641455.0 -895633.0  311537085.0 -144697852.0 -
↳ 165943603.0
237     300750  2021-08-13 14:58 -311143584.0 -895633.0  312039214.0 -145199981.0 -
↳ 165943603.0
238     300750  2021-08-13 14:59 -311143584.0 -895633.0  312039214.0 -145199981.0 -
↳ 165943603.0
239     300750  2021-08-13 15:00 -311143584.0 -895633.0  312039214.0 -145199981.0 -
↳ 165943603.0

```

[240 rows x 8 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

```

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```

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

```

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```

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....
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

```
>>> 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				
..
↪
72	3	123111	2021-08-09	159.600	159.300	162.990	158.690	596124	9.585751e+08	2.
↪69				-0.34	-0.550	3.77				
73	3	123111	2021-08-10	159.190	160.950	161.450	157.000	517237	8.234596e+08	2.
↪79				1.04	1.650	3.27				
74	3	123111	2021-08-11	161.110	159.850	162.300	159.400	298906	4.800711e+08	1.
↪80				-0.68	-1.100	1.89				
75	3	123111	2021-08-12	159.110	158.290	160.368	158.010	270641	4.298100e+08	1.
↪48				-0.98	-1.560	1.71				
76	3	123111	2021-08-13	158.000	158.358	160.290	157.850	250059	3.975513e+08	1.
↪54				0.04	0.068	1.58				

[77 rows x 13 columns]

Futures

•

```
>>> import efinance as ef
>>> ef.futures.get_futures_base_info()
```

		ID	
0	ZCM	115.ZCM	
1	ZC201	201	115.ZC201
2	jm		114.jm
3	j2201	2201	114.j2201
4	jmm		114.jmm
..
846	jm2109	2109	114.jm2109
847	071108	IH2108	8.071108
848	070131	IH	8.070131
849	070120	IH	8.07012
850	lu2109	2109	142.lu2109

[851 rows x 4 columns]

•

```

>>> import efinance as ef
>>> # ID
>>> quote_ids = ef.futures.get_realtime_quotes()['ID']
>>> # ID(ID)
>>> quote_id = quote_ids[0]
>>> # ID
>>> quote_ids[0]
'115.ZCM'
>>> # ID K
>>> ef.futures.get_quote_history(quote_id)

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
...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...      ...
1524    ZCM  2021-08-17  755.0  770.8  776.0  750.6  82373  6.288355e+09  3.25 -1.26 -9.
↪8  0.0
1525    ZCM  2021-08-18  770.8  776.8  785.8  766.0  77392  6.016454e+09  2.59  1.76 13.
↪4  0.0
1526    ZCM  2021-08-19  776.8  777.6  798.0  764.6  97229  7.597474e+09  4.30  0.03  0.
↪2  0.0
1527    ZCM  2021-08-20  778.0  793.0  795.0  775.2  70549  5.553617e+09  2.53  1.48 11.
↪6  0.0
1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28 49.
↪4  0.0

[1529 rows x 13 columns]

>>> # ID
>>> quote_ids = ['115.ZCM', '115.ZC109']
>>> futures_df = ef.futures.get_quote_history(quote_ids)
>>> type(futures_df)
<class 'dict'>
>>> futures_df['115.ZCM']

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

```

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```

571  002261    2021-07-15 00:00:00  2021Q2  0.0550  8.901777e+08  47.505282  6.
↳071063e+07  68.323793  2021
572  600644    2021-07-15 00:00:00  2021Q2      NaN  1.257030e+09  18.079648  8.
↳379727e+07 -14.303494  2021
573  603100    2021-07-15 00:00:00  2021Q2  0.7700  2.536000e+09  42.040204  3.
↳040000e+08 273.372636  2021
574  601952    2021-07-13 00:00:00  2021Q2  0.2400  4.544138e+09  11.754570  3.
↳278197e+08  1.156936  2021
575  601568    2021-07-09 00:00:00  2021Q2  0.3200  6.031506e+09  32.543303  1.
↳167989e+09 61.053739  2021

```

```

>>> #
>>> ef.stock.get_all_company_performance('2020-03-31')

0      600593 *ST  2021-04-30 00:00:00  2020Q1 -0.1848  1.320271e+07 -63.791831 -2.
↳379923e+07 -46.022446  2020
1      601399    2021-04-21 00:00:00  2020Q1  0.0003  1.825720e+09 -3.353096  2.
↳247111e+06 -85.692860  2020
2      600865    2020-12-30 00:00:00  2020Q1 -0.0200  5.444501e+07 -75.773146 -7.
↳476827e+06 -113.174025  2020
3      600145 *ST  2020-08-29 00:00:00  2020Q1  0.0014  3.907396e+06 -11.812618  2.
↳174314e+06 236.963620  2020
4      600226  ST  2020-06-30 00:00:00  2020Q1  0.0100  1.471848e+08 -33.907527  2.
↳185664e+07 -73.691756  2020
...      ...      ...      ...      ...      ...
↳
3864  002838    2020-04-09 00:00:00  2020Q1  0.1700  6.191659e+08 -8.019810  6.
↳939886e+07 91.601624  2020
3865  603186    2020-04-09 00:00:00  2020Q1  0.1400  4.117502e+08 -6.844813  1.
↳763252e+07 18.870055  2020
3866  002007    2020-04-08 00:00:00  2020Q1  0.1354  6.775414e+08 -2.622289  2.
↳472864e+08 -4.708821  2020
3867  002913    2020-04-08 00:00:00  2020Q1  0.1700  4.898977e+08 -3.883035  2.
↳524717e+07 -47.239162  2020
3868  600396    2020-04-08 00:00:00  2020Q1  0.1275  2.023133e+09  0.518504  1.
↳878432e+08 114.304022  2020

```

Notes

`efinance.stock.get_all_report_dates`

`efinance.stock.get_all_report_dates()` → `pandas.core.frame.DataFrame`

Returns

Return type `DataFrame`

Examples

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

0    2021-06-30    2021
1    2021-03-31    2021
2    2020-12-31    2020
3    2020-09-30    2020
4    2020-06-30    2020
5    2020-03-31    2020
6    2019-12-31    2019
7    2019-09-30    2019
8    2019-06-30    2019
9    2019-03-31    2019
10   2018-12-31    2018
11   2018-09-30    2018
12   2018-06-30    2018
13   2018-03-31    2018
14   2017-12-31    2017
15   2017-09-30    2017
16   2017-06-30    2017
17   2017-03-31    2017
18   2016-12-31    2016
19   2016-09-30    2016
20   2016-06-30    2016
21   2016-03-31    2016
22   2015-12-31    2015
24   2015-06-30    2015
25   2015-03-31    2015
26   2014-12-31    2014
27   2014-09-30    2014
28   2014-06-30    2014
29   2014-03-31    2014
30   2013-12-31    2013
31   2013-09-30    2013
32   2013-06-30    2013
33   2013-03-31    2013
34   2012-12-31    2012
35   2012-09-30    2012
36   2012-06-30    2012
37   2012-03-31    2012
38   2011-12-31    2011
39   2011-09-30    2011
```

`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
```

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```

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  0.59  1700.04  1713.0  1679.0  1690.0  10.04  0.30  0.72  43.31  ↳
↳37905  6.418413e+09  1690.0  2135586507912  2135586507912  A
1 300750  0.01  502.05  529.9  480.0  480.0  0.05  1.37  1.75  149.57  ↳
↳277258  1.408545e+10  502.0  1169278366994  1019031580505  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]]`

K

Parameters

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

- 5 : 5
- 15 : 15
- 30 : 30
- 60 : 60
- 101 :
- 102 :
- 103 :
- `fqt(int, optional) - 1`
- 0 :
- 1 :
- 2 :

Returns

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.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      688787  N  277.59  139.48  172.39  139.25  171.66  102.54  85.62  -
↪ 78.93  74519  1110318832.0  36.94  5969744000  1213908667  1.688787  A
1      301045  N  149.34  39.42  48.95  39.2  48.95  23.61  66.66  -
↪ 37.81  163061  683878656.0  15.81  4066344240  964237089  0.301045  A
2      300532  20.04  12.16  12.16  10.69  10.69  2.03  8.85  3.02  -22.
↪ 72  144795  171535181.0  10.13  3322510580  1989333440  0.300532  A
3      300600  20.02  13.19  13.19  11.11  11.41  2.2  18.61  2.82  218.
↪ 75  423779  541164432.0  10.99  3915421427  3003665117  0.300600  A
4      300985  20.01  47.08  47.08  36.8  39.4  7.85  66.65  2.17  58.
↪ 37  210697  897370992.0  39.23  6277336472  1488300116  0.300985
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```

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...
↪	↪
4598	603186	-10.0	43.27	44.09	43.27	43.99	-4.81	1.98	0.48	25.	
↪24	27697	120486294.0	48.08	6146300650	6063519472	1.603186	A				
4599	688185	-U -10.11	476.4	534.94	460.13	530.0	-53.6	6.02	2.74	-2088.	
↪07	40239	1960540832.0	530.0	117885131884	31831479215	1.688185	A				
4600	688148	-10.57	31.3	34.39	31.3	33.9	-3.7	26.07	0.56	220.	
↪01	188415	620632512.0	35.0	15923562000	2261706043	1.688148	A				
4601	300034	-10.96	43.12	46.81	42.88	46.5	-5.31	7.45	1.77	59.	
↪49	323226	1441101824.0	48.43	20959281094	18706911861	0.300034	A				
4602	300712	-13.71	96.9	110.94	95.4	109.0	-15.4	6.96	1.26	511.	
↪21	126705	1265152928.0	112.3	17645877600	17645877600	0.300712	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, 1
↪ 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: 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      50ETF
1982  012517  ETF
1983  012600          C
1984  011043          C
1985  012516  ETF
```

`efinance.fund.get_industry_distribution(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
>>> #
>>> 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_persentase(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%...		↩
..	↩
↩			↩
↩		...							↩

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```

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%	

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```

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_history_bill(bond_code: str) → pandas.core.frame.DataFrame`

Parameters `bond_code` (*str*) –

Returns

Return type `DataFrame`

Examples

```

>>> import efinance as ef
>>> ef.bond.get_history_bill('123111')

```

`efinance.bond.get_quote_history(bond_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]]`

K

Parameters

- `bond_codes` (*Union[str, List[str]]*) –
- `beg` (*str, optional*) – '19000101' 190011
- `end` (*str, optional*) – '20500101' 205011
- `klt` (*int, optional*) – 101
 - 1 :
 - 5 : 5
 - 15 : 15
 - 30 : 30
 - 60 : 60
 - 101 :
 - 102 :
 - 103 :
- `fqt` (*int, optional*) – 1
 - 0 :
 - 1 :
 - 2 :

Returns

K

- DataFrame: codes str
- Dict[str, DataFrame]: bond_codes List[str]

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

Examples

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

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	
..
				↪...	
72	3	123111	2021-08-09	159.600	159.300	162.990	158.690	596124	9.
				↪585751e+08	2.69	-0.34	-0.550	3.77	
73	3	123111	2021-08-10	159.190	160.950	161.450	157.000	517237	8.
				↪234596e+08	2.79	1.04	1.650	3.27	
74	3	123111	2021-08-11	161.110	159.850	162.300	159.400	298906	4.
				↪800711e+08	1.80	-0.68	-1.100	1.89	
75	3	123111	2021-08-12	159.110	158.290	160.368	158.010	270641	4.
				↪298100e+08	1.48	-0.98	-1.560	1.71	
76	3	123111	2021-08-13	158.000	158.358	160.290	157.850	250059	3.
				↪975513e+08	1.54	0.04	0.068	1.58	

`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	123051	24.03	158.66	165.0	134.0	134.0	30.74	496.74	67.16	
	1388341	2185911136.0	127.92	443443594	443443594	0.123051	A			
1	123042	16.04	219.309	224.0	193.11	194.5	30.309	1833.99	1.34	
	3042265	6402014720.0	189.0	363794813	363794813	0.123042	A			
2	113034	13.49	247.71	255.62	214.5	214.5	29.45	334.56	2.96	
	1585993	3798255024.0	218.26	1174284861	1174284861	1.113034	A			

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3	128064	11.29	148.01	150.34	133.007	133.73	15.01	277.06	7.04	↩
↩-	887301	1305800336.0	133.0	474009426	474009426	0.128064	A			↩
4	113027	8.38	129.86	130.2	122.3	123.0	10.04	83.84	4.15	↩
↩-	272641	346817120.0	119.82	422273164	422273164	1.113027	A			↩
..	↩
↩	↩
390	113621	-4.45	188.57	198.22	188.0	196.01	-8.79	29.91	0.47	↩
↩-	168709	326018848.0	197.36	1063693010	1063693010	1.113621	A			↩
391	128017	-4.86	182.676	204.989	182.61	195.16	-9.324	35.58	2.0	↩
↩-	196375	375750768.0	192.0	1008366222	1008366222	0.128017	A			↩
392	113548	-5.16	250.22	267.57	246.56	262.3	-13.61	143.32	0.72	↩
↩-	175893	452796304.0	263.83	307086749	307086749	1.113548	A			↩
393	128093	-5.71	429.042	449.97	426.078	443.1	-25.958	426.86	0.36	↩
↩-	693261	3032643232.0	455.0	696810974	696810974	0.128093	A			↩
394	123066	-6.0	193.08	203.999	193.08	203.0	-12.32	323.13	0.22	↩
↩-	133317	261546032.0	205.4	79660753	79660753	0.123066	A			↩

`efinance.bond.get_today_bill(bond_code: str) → pandas.core.frame.DataFrame`

Parameters `bond_code` (`str`) –

Returns

Return type `DataFrame`

Examples

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

0	3	123111	2021-08-13 09:31	-278046.0	319657.0	-41611.0	-278046.0	↩
↩	0.0							↩
1	3	123111	2021-08-13 09:32	-988506.0	571643.0	416863.0	-988506.0	↩
↩	0.0							↩
2	3	123111	2021-08-13 09:33	-990089.0	501980.0	488109.0	-990089.0	↩
↩	0.0							↩
3	3	123111	2021-08-13 09:34	-1718728.0	9051.0	1709678.0	-1718728.0	↩
↩	0.0							↩
4	3	123111	2021-08-13 09:35	-1653717.0	-133654.0	1787373.0	-1653717.0	↩
↩	0.0							↩
..	↩
↩	...							↩
235	3	123111	2021-08-13 14:56	5942063.0	-747717.0	-5194332.0	11700567.0	-
↩	5758504.0							↩
236	3	123111	2021-08-13 14:57	5916755.0	-483170.0	-5433570.0	11963346.0	-
↩	6046591.0							↩
237	3	123111	2021-08-13 14:58	5503692.0	-187241.0	-5316435.0	11757642.0	-
↩	6253950.0							↩
238	3	123111	2021-08-13 14:59	5503692.0	-187241.0	-5316435.0	11757642.0	-
↩	6253950.0							↩
239	3	123111	2021-08-13 15:00	5503692.0	-187241.0	-5316435.0	11757642.0	-
↩	6253950.0							↩

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()
      ID
0      ZCM      115.ZCM
1  ZC201    201  115.ZC201
2      jm      114.jm
3  j2201    2201  114.j2201
4      jmm      114.jmm
..      ...      ...      ...
846  jm2109    2109  114.jm2109
847  071108  IH2108    8.071108
848  070131  IH      8.070131
849  070120  IH      8.07012
850  lu2109    2109  142.lu2109
```

Notes

ID `efinance.futures.get_quote_history`

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

Parameters

- **quote_ids** (*Union[str, List[str]]*) – ID ID
- **beg** (*str*, *optional*) – '19000101' 190011
- **end** (*str*, *optional*) – '20500101' 205011
- **klt** (*int*, *optional*) – 101
 - 1 :
 - 5 : 5
 - 15 : 15
 - 30 : 30
 - 60 : 60
 - 101 :
 - 102 :

- 103:
- `fqt(int, optional) - 1`
- 0:
- 1:
- 2:

Returns

K

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

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

Examples

```
>>> import efinance as ef
>>> # ID
>>> quote_ids = ef.futures.get_realtime_quotes()['ID']
>>> # ID(ID)
>>> quote_id = quote_ids[0]
>>> # ID
>>> quote_ids[0]
'115.ZCM'
>>> # ID K
>>> ef.futures.get_quote_history(quote_id)
```

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								
...
↪							
1524	ZCM	2021-08-17	755.0	770.8	776.0	750.6	82373	6.288355e+09	3.25	-1.
↪26	-9.8	0.0								
1525	ZCM	2021-08-18	770.8	776.8	785.8	766.0	77392	6.016454e+09	2.59	1.
↪76	13.4	0.0								
1526	ZCM	2021-08-19	776.8	777.6	798.0	764.6	97229	7.597474e+09	4.30	0.
↪03	0.2	0.0								
1527	ZCM	2021-08-20	778.0	793.0	795.0	775.2	70549	5.553617e+09	2.53	1.
↪48	11.6	0.0								
1528	ZCM	2021-08-23	796.8	836.6	843.8	796.8	82954	6.850341e+09	5.97	6.
↪28	49.4	0.0								

```

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

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
...      ...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...      ...
1524   ZCM  2021-08-17  755.0  770.8  776.0  750.6  82373  6.288355e+09  3.25 -1.
↪26 -9.8  0.0
1525   ZCM  2021-08-18  770.8  776.8  785.8  766.0  77392  6.016454e+09  2.59  1.
↪76 13.4  0.0
1526   ZCM  2021-08-19  776.8  777.6  798.0  764.6  97229  7.597474e+09  4.30  0.
↪03  0.2  0.0
1527   ZCM  2021-08-20  778.0  793.0  795.0  775.2  70549  5.553617e+09  2.53  1.
↪48 11.6  0.0
1528   ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.
↪28 49.4  0.0

```

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

Returns

Return type DataFrame

Examples

```

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

```

	ID
0	ZCM 6.28 836.6 843.8 796.8 796.8 49.4 - 2.82 -
↪82954	6850341376.0 793.0 - - 115.ZCM
1	ZC201 201 6.28 836.6 843.8 796.8 796.8 49.4 - 2.82 -
↪82954	6850341376.0 793.0 - - 115.ZC201
2	jm 5.39 2980.0 2982.0 2833.0 2834.0 152.5 - 1.4 -
↪166433	48567923456.0 2830.5 - - 114.jm
3	j2201 2201 5.39 2980.0 2982.0 2833.0 2834.0 152.5 - 1.4 -
↪166433	48567923456.0 2830.5 - - 114.j2201

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```

4      jmm      5.0 2354.0 2360.0 2221.0 2221.0 112.0 - 1.42 - 1.42
↪238671 32924591872.0 2238.0 - - 114.jmm
..      ...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...      ...      ...      ...      ...      ...      ...      ...      ...
846 jm2109      2109 -2.28 2748.0 2882.5 2688.0 2845.0 -64.0 - 1.85 - 1.85
↪34029 5656982528.0 2866.0 - - 114.jm2109
847 071108      IH2108 -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.39 - 0.39
↪ 14384 13315567616.0 3139.2 918000 - 8.071108
848 070131      IH -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.57 - 0.57
↪14384 13315567616.0 3139.2 918000 - 8.070131
849 070120      IH -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.39 - 0.39
↪14384 13315567616.0 3139.2 918000 - 8.070120
850 lu2109      2109 -3.79 3123.0 3127.0 3121.0 3121.0 -123.0 - - -
↪22      687420.0 3143.0 - - 142.lu2109

```

Notes

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