
efinance

Release 0.4.5

micro sheep

Jun 05, 2022

GETTING STARTED

1	Installation	3
2	Examples	5
2.1	Stock	5
2.2	Fund	12
2.3	Bond	13
2.4	Futures	15
3	Docs	17
4	Contact	19
5	Changelog	21
5.1	[Unreleased]	21
5.2	Added	21
5.3	v0.4.4(2022-04-29)	21
5.4	v0.4.3(2022-04-28)	21
5.5	v0.4.2(2022-03-07)	22
5.6	v0.4.0(2021-12-02)	22
5.7	v0.3.9(2021-10-23)	22
5.8	v0.3.8(2021-09-18)	23
5.9	v0.3.7(2021-08-30)	23
5.10	v0.3.6 (2021-08-21)	23
5.11	v0.3.5 (2021-08-15)	24
5.12	v0.3.4 (2021-08-08)	24
5.13	v0.3.3 (2021-08-08)	24
5.14	v0.3.2 (2021-08-08)	24
5.15	v0.3.1 (2021-08-05)	25
5.16	v0.3.0 (2021-08-03)	25
	Python Module Index	71
	Index	73

efinance Python

- [Source Code](#)
 - [Docs](#)
 - [Changelog](#)
-

INSTALLATION

- pip

```
pip install efinance
```

- pip

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

- docker

```
#  
git clone https://github.com/Micro-sheep/efinance  
#  
cd efinance  
# (-t . build dockerfile)  
docker build -t efinance . --no-cache  
# (, --rm)  
docker run --rm -it efinance
```

-

```
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)
```

(continues on next page)

(continued from previous page)

```

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

```

(continues on next page)

(continued from previous page)

[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				

(continues on next page)

(continued from previous page)

```

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
>>> # ()

```

(continues on next page)

(continued from previous page)

```

>>> ef.stock.get_daily_billboard()

0  000608    2021-08-27    48.36%    3.73   -9.9034    3.8430  -8.709942e+06  1.422786e+07
   2.293780e+07  3.716565e+07  110838793  -7.858208  33.531268  2.796761e+09
   7%5
1  000751    2021-08-27    T18.84%    5.32   -2.9197   19.6505  -1.079219e+08  5.
   638899e+07  1.643109e+08  2.206999e+08  1462953973  -7.376984  15.085906  7.500502e+09
   15%5
2  000762    2021-08-27    39.42%    63.99    1.0741  15.6463  2.938758e+07  4.675541e+08
   4.381665e+08  9.057206e+08  4959962598  0.592496  18.260633  3.332571e+10
   15%5
3  000833    2021-08-27    44.55%    8.87   10.0496  8.8263  4.993555e+07  1.292967e+08
   7.936120e+07  2.086580e+08  895910429  5.573721  23.290046  3.353614e+09
   20%
4  001208    2021-08-27   140.43%   19.72    4.3386  46.1985  4.055258e+07  1.537821e+08
   1.132295e+08  2.670117e+08  1203913048  3.368398  22.178651  2.634710e+09
   20%5
..  ...  ...  ...  ...  ...  ...  ...
   ...  ...  ...  ...  ...  ...  ...
   ...
70 688558    2021-08-27    38.71%   60.72    1.6064  34.0104  1.835494e+07  1.057779e+08
   8.742293e+07  1.932008e+08  802569300  2.287023  24.072789  2.321743e+09
   30%
71 688596    2021-08-27   157.67%   26.72    3.1660  3.9065  -1.371039e+07  8.409046e+07
   9.780085e+07  1.818913e+08  745137400  -1.839982  24.410438  4.630550e+09  330%
72 688663    2021-08-27    37.18%   28.17  -17.6316  32.2409  1.036460e+07  5.
   416901e+07  4.380440e+07  9.797341e+07  274732700  3.772613  35.661358  8.492507e+08
   15%
73 688663    2021-08-27    37.18%   28.17  -17.6316  32.2409  1.036460e+07  5.
   416901e+07  4.380440e+07  9.797341e+07  274732700  3.772613  35.661358  8.492507e+08
   30%
74 688667    2021-08-27   149.69%  123.37  -18.8996  17.7701  -2.079877e+06  4.611216e+07
   4.819204e+07  9.430420e+07  268503400  -0.774618  35.122163  1.461225e+09  15%

[75 rows x 16 columns]

>>> #
>>> start_date = '2021-08-20' #
>>> end_date = '2021-08-27' #
>>> ef.stock.get_daily_billboard(start_date = start_date,end_date = end_date)

0  000608    2021-08-27    48.36%    3.73   -9.9034    3.8430  -8.709942e+06  1.
   422786e+07  2.293780e+07  3.716565e+07  110838793  -7.858208  33.531268  2.
   796761e+09  7%5
1  000751    2021-08-27    T18.84%    5.32   -2.9197   19.6505  -1.079219e+08  5.
   638899e+07  1.643109e+08  2.206999e+08  1462953973  -7.376984  15.085906  7.
   500502e+09  15%5
2  000762    2021-08-27    39.42%    63.99    1.0741  15.6463  2.938758e+07  4.675541e+08
   4.381665e+08  9.057206e+08  4959962598  0.592496  18.260633  3.332571e+10
   15%5

```

(continues on next page)

(continued from previous page)

```

3      000833      2021-08-27  44.55%    8.87  10.0496  8.8263  4.993555e+07  1.292967e+08  ↵
↪ 7.936120e+07  2.086580e+08  895910429  5.573721  23.290046  3.353614e+09      20%
4      001208      2021-08-27  140.43%   19.72  4.3386  46.1985  4.055258e+07  1.537821e+08 ↵
↪ 1.132295e+08  2.670117e+08  1203913048  3.368398  22.178651  2.634710e+09      ↵
↪      20%5
..      ...      ...      ...      ...      ...      ...      ...      ...      ↵
↪      ...      ...      ...      ...      ...      ...      ...      ...      .
↪ ...
414    605580      2021-08-20    33.33%   13.28  10.0249  0.4086  2.413149e+06  2.
↪ 713051e+06  2.999022e+05  3.012953e+06      2713051  88.945937  111.054054  6.
↪ 640000e+08  7%
415    688029      2021-08-20  455.82%  204.61 -18.5340  8.1809 -1.412053e+08  1.883342e+08 ↵
↪ 3.295394e+08  5.178736e+08  762045800 -18.529760  67.958326  9.001510e+09      15%
416    688408      2021-08-20  447.86%  179.98 -0.0666  15.3723 -4.336304e+07  3.
↪ 750919e+08  4.184550e+08  7.935469e+08  846547400 -5.122340  93.739221  5.
↪ 695886e+09      30%
417    688556      2021-08-20  60.21%   51.97  17.0495  10.6452 -3.940045e+07  1.642095e+08 ↵
↪ 2.036099e+08  3.678194e+08  575411600 -6.847351  63.922831  5.739089e+09      15%
418    688636      2021-08-20  247.37%  161.90  15.8332  11.9578  2.922406e+07  6.
↪ 598126e+07  3.675721e+07  1.027385e+08  188330100  15.517464  54.552336  1.
↪ 647410e+09      15%

[418 rows x 16 columns]

```

• A

```

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

0      688981      2021-08-28 00:00:00  1.609039e+10  22.253453  20.6593  5.241321e+09  ↵
↪ 278.100000  307.8042  0.6600  11.949525  5.20  26.665642  1.182556
1      688819      2021-08-28 00:00:00  1.625468e+10  9.343279  23.9092  6.719446e+08  -
↪ 14.890000 -36.8779  0.7100  11.902912  6.15  17.323263 -1.562187
2      688789      2021-08-28 00:00:00  4.555604e+08  56.418441  6.5505  1.076986e+08  ↵
↪ 49.360000 -7.3013  1.8900  14.926761  13.51  43.011243  1.421272
3      688681      2021-08-28 00:00:00  1.503343e+08  17.706987  121.9407  1.664509e+07  -
↪ 13.100000  383.3331  0.2100  5.232517  4.84  47.455511 -0.232395
4      688670      2021-08-28 00:00:00  3.209423e+07  -63.282413  -93.1788 -2.330505e+07  -
↪ 242.275001 -240.1554 -0.3500  3.332254  -10.10  85.308531  1.050348
...      ...      ...      ...      ...      ...      ...      ...      ...      ↵
↪      ...      ...      ...      ...      ...      ...      ...      ...
3720    600131      2021-07-16 00:00:00  2.880378e+09  6.787087  69.5794  2.171389e+08  ↵
↪ 29.570000  296.2051  0.1800  4.063260  4.57  19.137437 -0.798689
3721    600644      2021-07-15 00:00:00  1.257030e+09  18.079648  5.7300  8.379727e+07  -
↪ 14.300000  25.0007  0.1556  3.112413  5.13  23.645137  0.200906
3722    002261      2021-07-15 00:00:00  8.901777e+08  47.505282  24.0732  6.071063e+07  ↵
↪ 68.320000  30.0596  0.0550  2.351598  2.37  37.047968 -0.131873
3723    601952      2021-07-13 00:00:00  4.544138e+09  11.754570  47.8758  3.288132e+08  ↵
↪ 1.460000  83.1486  0.2400  3.888046  6.05  15.491684 -0.173772
3724    601568      2021-07-09 00:00:00  6.031506e+09  32.543303  30.6352  1.167989e+09  ↵
↪ 61.050000  40.8165  0.3200  3.541533  9.01  27.879243  0.389860

```

(continues on next page)

(continued from previous page)

[3725 rows x 14 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
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				

(continues on next page)

(continued from previous page)

```

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
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%... ↪
(continues on next page)
```

(continued from previous page)

```

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]

```

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

```

(continues on next page)

(continued from previous page)

```

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
...      ...      ...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...
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 [Unreleased]

5.1.1 Fixed

- bond get_base_info

5.2 Added

futures bond

5.3 v0.4.4(2022-04-29)

5.3.1 Added

- python3.10

5.3.2 Changed

- stock get_belong_plate get_belong_board

5.4 v0.4.3(2022-04-28)

5.4.1 Added

- stock get_belong_plate
- stock get_deal_detail

5.5 v0.4.2(2022-03-07)

5.5.1 Changed

- `get_quote_history` kwargs

5.5.2 Added

- `stock.get_quote_snapshot` 3
-

5.6 v0.4.0(2021-12-02)

5.6.1 Fixed

- fund bug

5.6.2 Added

- A
-

5.7 v0.3.9(2021-10-23)

5.7.1 Changed

- fund
- common

5.7.2 Added

- `efnance.stock.get_members`
 - `efnance.stock.get_realtime_quotes`
 - IPO `efnance.stock.get_latest_ipo_info`
 -
 - `efnance.stock.get_latest_holder_number`
-

5.8 v0.3.8(2021-09-18)

5.8.1 Changed

- fund

5.8.2 Added

-
- ETFLOF

5.9 v0.3.7(2021-08-30)

5.9.1 Added

- docker
- A
- stock

5.9.2 Fixed

- fund bug
- fund bug

5.9.3 Changed

- `efinance.stock.get_all_company_performance`

5.10 v0.3.6 (2021-08-21)

5.10.1 Fixed

-

5.10.2 Changed

-

5.10.3 Added

- futures
-

5.11 v0.3.5 (2021-08-15)

5.11.1 Added

- -
 - common bond stock
 - bond
 -
-

5.12 v0.3.4 (2021-08-08)

5.12.1 Changed

- vscode
-

5.13 v0.3.3 (2021-08-08)

5.13.1 Changed

-
-

5.14 v0.3.2 (2021-08-08)

5.14.1 Added

- sphinx
 - read the docs
-

5.15 v0.3.1 (2021-08-05)

5.15.1 Added

- session

5.15.2 Fixed

-
-

5.16 v0.3.0 (2021-08-03)

5.16.1 Added

-
- jsonpath

5.16.2 Fixed

-

Installation

- pip

```
pip install efinance
```

- pip

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

- docker

```
#
git clone https://github.com/Micro-sheep/efinance
#
cd efinance
# (-t . build dockerfile)
docker build -t efinance . --no-cache
# (, --rm)
docker run --rm -it efinance
```

-

```
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						

[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						

(continues on next page)

(continued from previous page)

```

... ..
↪ ... ..
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

[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

```

(continues on next page)

(continued from previous page)

```

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
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

```

(continues on next page)

(continued from previous page)

```
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_daily_billboard()
```

```
↳
0      000608      2021-08-27   48.36%   3.73  -9.9034   3.8430 -8.709942e+06  1.422786e+07
↳ 2.293780e+07  3.716565e+07  110838793 -7.858208  33.531268  2.796761e+09
↳      7%5
1      000751      2021-08-27   T18.84%   5.32  -2.9197  19.6505 -1.079219e+08  5.
↳ 638899e+07  1.643109e+08  2.206999e+08  1462953973 -7.376984  15.085906  7.500502e+09
↳      15%5
2      000762      2021-08-27   39.42%   63.99   1.0741  15.6463  2.938758e+07  4.675541e+08
↳ 4.381665e+08  9.057206e+08  4959962598  0.592496  18.260633  3.332571e+10
↳      15%5
```

(continues on next page)

(continued from previous page)

```

3  000833  2021-08-27  44.55%   8.87  10.0496  8.8263  4.993555e+07  1.292967e+08
↳ 7.936120e+07  2.086580e+08  895910429  5.573721  23.290046  3.353614e+09
↳ 20%
4  001208  2021-08-27  140.43%  19.72  4.3386  46.1985  4.055258e+07  1.537821e+08
↳ 1.132295e+08  2.670117e+08  1203913048  3.368398  22.178651  2.634710e+09
↳
    20%5
..      ...      ...      ...      ...      ...      ...      ...
↳      ...      ...      ...      ...      ...      ...      ...
↳
    ...
70 688558  2021-08-27  38.71%   60.72  1.6064  34.0104  1.835494e+07  1.057779e+08
↳ 8.742293e+07  1.932008e+08  802569300  2.287023  24.072789  2.321743e+09
↳ 30%
71 688596  2021-08-27  157.67%  26.72  3.1660  3.9065 -1.371039e+07  8.409046e+07
↳ 9.780085e+07  1.818913e+08  745137400 -1.839982  24.410438  4.630550e+09  330%
72 688663  2021-08-27  37.18%   28.17 -17.6316  32.2409  1.036460e+07  5.
↳ 416901e+07  4.380440e+07  9.797341e+07  274732700  3.772613  35.661358  8.492507e+08
↳
    15%
73 688663  2021-08-27  37.18%   28.17 -17.6316  32.2409  1.036460e+07  5.
↳ 416901e+07  4.380440e+07  9.797341e+07  274732700  3.772613  35.661358  8.492507e+08
↳
    30%
74 688667  2021-08-27  149.69%  123.37 -18.8996  17.7701 -2.079877e+06  4.611216e+07
↳ 4.819204e+07  9.430420e+07  268503400 -0.774618  35.122163  1.461225e+09  15%

[75 rows x 16 columns]

>>> #
>>> start_date = '2021-08-20' #
>>> end_date = '2021-08-27' #
>>> ef.stock.get_daily_billboard(start_date = start_date,end_date = end_date)

↳
0  000608  2021-08-27  48.36%   3.73 -9.9034  3.8430 -8.709942e+06  1.
↳ 422786e+07  2.293780e+07  3.716565e+07  110838793 -7.858208  33.531268  2.
↳ 796761e+09  7%5
1  000751  2021-08-27  T18.84%   5.32 -2.9197  19.6505 -1.079219e+08  5.
↳ 638899e+07  1.643109e+08  2.206999e+08  1462953973 -7.376984  15.085906  7.
↳ 500502e+09  15%5
2  000762  2021-08-27  39.42%   63.99  1.0741  15.6463  2.938758e+07  4.675541e+08
↳ 4.381665e+08  9.057206e+08  4959962598  0.592496  18.260633  3.332571e+10
↳
    15%5
3  000833  2021-08-27  44.55%   8.87  10.0496  8.8263  4.993555e+07  1.292967e+08
↳ 7.936120e+07  2.086580e+08  895910429  5.573721  23.290046  3.353614e+09  20%
4  001208  2021-08-27  140.43%  19.72  4.3386  46.1985  4.055258e+07  1.537821e+08
↳ 1.132295e+08  2.670117e+08  1203913048  3.368398  22.178651  2.634710e+09
↳
    20%5
..      ...      ...      ...      ...      ...      ...      ...
↳      ...      ...      ...      ...      ...      ...      ...
↳
    ...
414 605580  2021-08-20  33.33%   13.28  10.0249  0.4086  2.413149e+06  2.
↳ 713051e+06  2.999022e+05  3.012953e+06  2713051  88.945937  111.054054  6.
↳ 640000e+08  7%
415 688029  2021-08-20  455.82%  204.61 -18.5340  8.1809 -1.412053e+08  1.883342e+08
↳ 3.295394e+08  5.178736e+08  762045800 -18.529760  67.958326  9.001510e+09  15%

```

(continues on next page)

(continued from previous page)

```

416 688408      2021-08-20 447.86% 179.98 -0.0666 15.3723 -4.336304e+07 3.
↳750919e+08 4.184550e+08 7.935469e+08 846547400 -5.122340 93.739221 5.
↳695886e+09      30%
417 688556      2021-08-20 60.21% 51.97 17.0495 10.6452 -3.940045e+07 1.642095e+08
↳2.036099e+08 3.678194e+08 575411600 -6.847351 63.922831 5.739089e+09 15%
418 688636      2021-08-20 247.37% 161.90 15.8332 11.9578 2.922406e+07 6.
↳598126e+07 3.675721e+07 1.027385e+08 188330100 15.517464 54.552336 1.
↳647410e+09      15%

[418 rows x 16 columns]

```

• A

```

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

0      688981      2021-08-28 00:00:00 1.609039e+10 22.253453 20.6593 5.241321e+09
↳278.100000 307.8042 0.6600 11.949525 5.20 26.665642 1.182556
1      688819      2021-08-28 00:00:00 1.625468e+10 9.343279 23.9092 6.719446e+08 -
↳14.890000 -36.8779 0.7100 11.902912 6.15 17.323263 -1.562187
2      688789      2021-08-28 00:00:00 4.555604e+08 56.418441 6.5505 1.076986e+08
↳49.360000 -7.3013 1.8900 14.926761 13.51 43.011243 1.421272
3      688681      2021-08-28 00:00:00 1.503343e+08 17.706987 121.9407 1.664509e+07 -
↳13.100000 383.3331 0.2100 5.232517 4.84 47.455511 -0.232395
4      688670      2021-08-28 00:00:00 3.209423e+07 -63.282413 -93.1788 -2.330505e+07 -
↳242.275001 -240.1554 -0.3500 3.332254 -10.10 85.308531 1.050348
...      ...      ...      ...      ...      ...      ...      ...
↳      ...      ...      ...      ...      ...      ...      ...
3720 600131      2021-07-16 00:00:00 2.880378e+09 6.787087 69.5794 2.171389e+08
↳29.570000 296.2051 0.1800 4.063260 4.57 19.137437 -0.798689
3721 600644      2021-07-15 00:00:00 1.257030e+09 18.079648 5.7300 8.379727e+07 -
↳14.300000 25.0007 0.1556 3.112413 5.13 23.645137 0.200906
3722 002261      2021-07-15 00:00:00 8.901777e+08 47.505282 24.0732 6.071063e+07
↳68.320000 30.0596 0.0550 2.351598 2.37 37.047968 -0.131873
3723 601952      2021-07-13 00:00:00 4.544138e+09 11.754570 47.8758 3.288132e+08
↳1.460000 83.1486 0.2400 3.888046 6.05 15.491684 -0.173772
3724 601568      2021-07-09 00:00:00 6.031506e+09 32.543303 30.6352 1.167989e+09
↳61.050000 40.8165 0.3200 3.541533 9.01 27.879243 0.389860

[3725 rows x 14 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

```

(continues on next page)

(continued from previous page)

```

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
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
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	123015	13.49	198.613	205.0	175.5	23.613	315.36	-	316062
0	123015	13.49	198.613	205.0	175.5	23.613	315.36	-	316062
1	123077	9.59	115.51	122.971	105.401	10.11	32.59	-	305380
2	123066	8.08	232.377	245.8	225.0	17.377	470.3	-	454204
3	128093	7.69	360.751	367.9	335.5	25.751	343.84	-	558874
4	128082	7.41	158.507	163.769	147.089	10.935	103.16	-	226444
...
383	123087	-4.34	151.75	169.0	150.302	-6.879	117.66	-	520370
384	123070	-4.63	175.001	179.799	174.471	-8.499	18.46	-	144998
385	123027	-4.67	338.413	352.825	338.015	-16.586	44.23	-	47356
386	113621	-5.03	215.61	222.5	214.41	-11.41	11.46	-	91710
387	123047	-5.7	305.5	319.52	305.382	-18.47	122.41	-	193587

[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	
1	110081	600745	AA+	2021-07-28 00:00:00	86.000000	0.044030	
2	118001	688598	A+	2021-07-23 00:00:00	5.999010	0.001771	
3	123119	2 300601	AA	2021-07-15 00:00:00	20.000000	0.014182	
4	113627	603877	AA	2021-07-15 00:00:00	8.000000	0.000542	
...
80	110227	600227	AAA	2007-10-10 00:00:00	4.500000	0.158854	2007-10-23

(continues on next page)

(continued from previous page)

```

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										

(continues on next page)

(continued from previous page)

```

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
...      ...      ...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...
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 REFERENCE

Stock

`efinance.stock.get_all_company_performance(date: str = None) → pandas.core.frame.DataFrame`

Parameters `date` (*str, optional*) – (None)

- None :
- '2021-06-30' : 2021 Q2
- '2021-03-31' : 2021 Q1

Returns

Return type DataFrame

Examples

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

0	688981	2021-08-28 00:00:00	1.609039e+10	22.253453	20.6593	5.
↪	241321e+09	278.100000	307.8042	0.6600	11.949525	5.20
1	688819	2021-08-28 00:00:00	1.625468e+10	9.343279	23.9092	6.
↪	719446e+08	-14.890000	-36.8779	0.7100	11.902912	6.15
2	688789	2021-08-28 00:00:00	4.555604e+08	56.418441	6.5505	1.
↪	076986e+08	49.360000	-7.3013	1.8900	14.926761	13.51
3	688681	2021-08-28 00:00:00	1.503343e+08	17.706987	121.9407	1.
↪	664509e+07	-13.100000	383.3331	0.2100	5.232517	4.84
4	688670	2021-08-28 00:00:00	3.209423e+07	-63.282413	-93.1788	-2.
↪	330505e+07	-242.275001	-240.1554	-0.3500	3.332254	-10.10
...
↪
3720	600131	2021-07-16 00:00:00	2.880378e+09	6.787087	69.5794	2.
↪	171389e+08	29.570000	296.2051	0.1800	4.063260	4.57
3721	600644	2021-07-15 00:00:00	1.257030e+09	18.079648	5.7300	8.
↪	379727e+07	-14.300000	25.0007	0.1556	3.112413	5.13
3722	002261	2021-07-15 00:00:00	8.901777e+08	47.505282	24.0732	6.
↪	071063e+07	68.320000	30.0596	0.0550	2.351598	2.37
3723	601952	2021-07-13 00:00:00	4.544138e+09	11.754570	47.8758	3.
↪	288132e+08	1.460000	83.1486	0.2400	3.888046	6.05
3724	601568	2021-07-09 00:00:00	6.031506e+09	32.543303	30.6352	1.
↪	167989e+09	61.050000	40.8165	0.3200	3.541533	9.01

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

0	605033	2021-08-25 00:00:00	2.178208e+08	NaN	NaN	4.319814e+07
↪	NaN	NaN	0.4300	NaN	NaN	37.250416
1	301048	2021-07-30 00:00:00	9.165528e+07	NaN	NaN	-2.189989e+07
↪	NaN	NaN	NaN	NaN	-1.91	20.227118
2	001213	2021-07-29 00:00:00	1.343454e+09	NaN	NaN	-3.753634e+07
↪	NaN	NaN	-0.0100	NaN	NaN	-1.400708
3	605588	2021-07-28 00:00:00	1.960175e+08	NaN	NaN	1.906751e+07
↪	NaN	NaN	0.3500	NaN	NaN	16.324650
4	688798	2021-07-27 00:00:00	2.469943e+08	NaN	NaN	2.707568e+07
↪	NaN	NaN	0.3300	NaN	8.16	33.641934
...
↪
4440	603186	2020-04-09 00:00:00	4.117502e+08	-6.844813	-23.2633	1.763252e+07
↪	18.870055	-26.3345	0.1400	5.878423	2.35	18.861255
4441	002838	2020-04-09 00:00:00	6.191659e+08	-8.019810	-16.5445	6.939886e+07
↪	91.601624	76.7419	0.1700	2.840665	6.20	22.575224
4442	600396	2020-04-08 00:00:00	2.023133e+09	0.518504	-3.0629	1.878432e+08
↪	114.304022	61.2733	0.1275	1.511012	8.81	21.422393

(continues on next page)

(continued from previous page)

```

4443  002913      2020-04-08 00:00:00  4.898977e+08 -3.883035  -23.2268  2.
→ 524717e+07 -47.239162 -58.8136  0.1700  16.666749      1.03  22.470020  0.552624
4444  002007      2020-04-08 00:00:00  6.775414e+08 -2.622289  -36.1714  2.472864e+08
→ -4.708821 -22.6345  0.1354  4.842456      3.71  61.408522  0.068341

```

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

```

(continues on next page)

(continued from previous page)

```

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_belong_board(stock_code: str) → pandas.core.frame.DataFrame`

Parameters `stock_code` (str) –

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

```
>>> import efinance as ef
>>> ef.stock.get_belong_board('600519')
```

0	600519	BK0477	0.56
1	600519	BK0173	-1.27
2	600519	BK0611	50_ 0.60
3	600519	BK0718	0.54
4	600519	BK0896	0.25
5	600519	BK0500	HS300_ 0.21
6	600519	BK0612	180_ 0.18
7	600519	BK0999	0.10
8	600519	BK0610	50_ 0.03
9	600519	BK0821	MSCI -0.12
10	600519	BK0879	-0.37
11	600519	BK0707	-0.45
12	600519	BK1059	-0.46
13	600519	BK0867	-0.68
14	600519	BK0811	-0.74
15	600519	BK0596	-1.38
16	600519	BK0665	-2.19

`efinance.stock.get_daily_billboard(start_date: str = None, end_date: str = None) → pandas.core.frame.DataFrame`

Parameters

- **start_date** (*str, optional*) –
 - None ()
 - "2021-08-27" 2021827
- **end_date** (*str, optional*) –
 - None ()
 - "2021-08-31" 2021831

Returns**Return type** DataFrame

Examples

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

0	000608	2021-08-27	48.36%	3.73	-9.9034	3.8430	-8.709942e+06	1.
	422786e+07	2.293780e+07	3.716565e+07	110838793	-7.858208	33.531268	2.	
	796761e+09		7%5					
1	000751	2021-08-27	118.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.
	638899e+07	1.643109e+08	2.206999e+08	1462953973	-7.376984	15.085906	7.	
	500502e+09		15%5					
2	000762	2021-08-27	39.42%	63.99	1.0741	15.6463	2.938758e+07	4.
	675541e+08	4.381665e+08	9.057206e+08	4959962598	0.592496	18.260633	3.	
	332571e+10		15%5					
3	000833	2021-08-27	44.55%	8.87	10.0496	8.8263	4.993555e+07	1.
	292967e+08	7.936120e+07	2.086580e+08	895910429	5.573721	23.290046	3.	
	353614e+09		20%					
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.
	537821e+08	1.132295e+08	2.670117e+08	1203913048	3.368398	22.178651	2.	
	634710e+09		20%5					
...
...
...
70	688558	2021-08-27	38.71%	60.72	1.6064	34.0104	1.835494e+07	1.
	057779e+08	8.742293e+07	1.932008e+08	802569300	2.287023	24.072789	2.	
	321743e+09		30%					
71	688596	2021-08-27	157.67%	26.72	3.1660	3.9065	-1.371039e+07	8.
	409046e+07	9.780085e+07	1.818913e+08	745137400	-1.839982	24.410438	4.	
	630550e+09		330%					
72	688663	2021-08-27	37.18%	28.17	-17.6316	32.2409	1.036460e+07	5.
	416901e+07	4.380440e+07	9.797341e+07	274732700	3.772613	35.661358	8.	
	492507e+08		15%					
73	688663	2021-08-27	37.18%	28.17	-17.6316	32.2409	1.036460e+07	5.
	416901e+07	4.380440e+07	9.797341e+07	274732700	3.772613	35.661358	8.	
	492507e+08		30%					
74	688667	2021-08-27	149.69%	123.37	-18.8996	17.7701	-2.079877e+06	4.
	611216e+07	4.819204e+07	9.430420e+07	268503400	-0.774618	35.122163	1.	
	461225e+09		15%					

```
>>> #
>>> start_date = '2021-08-20' #
>>> end_date = '2021-08-27' #
>>> ef.stock.get_daily_billboard(start_date = start_date, end_date = end_date)
```

0	000608	2021-08-27	48.36%	3.73	-9.9034	3.8430	-8.709942e+06	1.
	422786e+07	2.293780e+07	3.716565e+07	110838793	-7.858208	33.531268	2.	
	796761e+09		7%5					
1	000751	2021-08-27	118.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.
	638899e+07	1.643109e+08	2.206999e+08	1462953973	-7.376984	15.085906	7.	
	500502e+09		15%5					

(continues on next page)

(continued from previous page)

```

2      000762      2021-08-27 39.42%  63.99  1.0741 15.6463 2.938758e+07 4.
↳675541e+08 4.381665e+08 9.057206e+08 4959962598 0.592496 18.260633 3.
↳332571e+10 15%5
3      000833      2021-08-27 44.55%   8.87 10.0496 8.8263 4.993555e+07 1.
↳292967e+08 7.936120e+07 2.086580e+08 895910429 5.573721 23.290046 3.
↳353614e+09 20%
4      001208      2021-08-27 140.43% 19.72 4.3386 46.1985 4.055258e+07 1.
↳537821e+08 1.132295e+08 2.670117e+08 1203913048 3.368398 22.178651 2.
↳634710e+09 20%5
..      ...      ...      ...      ...      ...      ...      ...
↳...      ...      ...      ...      ...      ...      ...
↳
414    605580      2021-08-20 33.33% 13.28 10.0249 0.4086 2.413149e+06 2.
↳713051e+06 2.999022e+05 3.012953e+06 2713051 88.945937 111.054054 6.
↳640000e+08 7%
415    688029      2021-08-20 455.82% 204.61 -18.5340 8.1809 -1.412053e+08 1.
↳883342e+08 3.295394e+08 5.178736e+08 762045800 -18.529760 67.958326 9.
↳001510e+09 15%
416    688408      2021-08-20 447.86% 179.98 -0.0666 15.3723 -4.336304e+07 3.
↳750919e+08 4.184550e+08 7.935469e+08 846547400 -5.122340 93.739221 5.
↳695886e+09 30%
417    688556      2021-08-20 60.21% 51.97 17.0495 10.6452 -3.940045e+07 1.
↳642095e+08 2.036099e+08 3.678194e+08 575411600 -6.847351 63.922831 5.
↳739089e+09 15%
418    688636      2021-08-20 247.37% 161.90 15.8332 11.9578 2.922406e+07 6.
↳598126e+07 3.675721e+07 1.027385e+08 188330100 15.517464 54.552336 1.
↳647410e+09 15%

```

`efinance.stock.get_deal_detail(stock_code: str, max_count: int = 1000000) → pandas.core.frame.DataFrame`

Parameters

- `stock_code` (`str`) –
- `max_count` (`int`, *optional*) –, 1000000

Returns

Return type DataFrame

Examples

```

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

0      600519 1794.92 09:15:03 1794.92 5 0
1      600519 1794.92 09:15:06 1809.00 21 0
2      600519 1794.92 09:15:09 1809.00 24 0
3      600519 1794.92 09:15:12 1802.00 29 0
4      600519 1794.92 09:15:15 1804.60 30 0
...      ...      ...      ...      ...      ...
4592    600519 1794.92 14:56:52 1830.88 14 13

```

(continues on next page)

(continued from previous page)

4593	600519	1794.92	14:56:55	1830.88	10	9
4594	600519	1794.92	14:56:58	1830.89	10	10
4595	600519	1794.92	14:57:02	1830.80	2	1
4596	600519	1794.92	15:00:00	1835.00	893	406

`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_holder_number(date: str = None) → pandas.core.frame.DataFrame`

A

Parameters `date (str, optional)` –

- None
- '2021-06-30' 2021
- '2021-03-31' 2021

Returns A

Return type DataFrame

Examples

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

0	301029	12021	-1.636527	-200.0	2021-09-30 00:00:00	2.790187e+06	
	33275.933783	3.354084e+10	400010000		2021-10-09 00:00:00		
1	301006	10964	-0.463005	-51.0	2021-09-30 00:00:00	3.493433e+05	
	12703.392922	3.830200e+09	139280000		2021-10-09 00:00:00		
2	301003	11642	-2.658863	-318.0	2021-09-30 00:00:00	2.613041e+05	
	5004.867463	3.042103e+09	58266667		2021-10-09 00:00:00		
3	300851	12858	-2.752987	-364.0	2021-09-30 00:00:00	2.177054e+05	
	6761.035931	2.799255e+09	86933400		2021-10-09 00:00:00		
4	300830	34535	-16.670688	-6909.0	2021-09-30 00:00:00	2.001479e+05	
	12454.756045	6.912109e+09	430125000		2021-10-09 00:00:00		
...
4435	600618	45372	-0.756814	-346.0	2014-06-30 00:00:00	1.227918e+05	
	16526.491581	5.571311e+09	749839976		2014-08-22 00:00:00		
4436	601880	89923	-3.589540	-3348.0	2014-03-31 00:00:00	9.051553e+04	
	37403.111551	8.139428e+09	3363400000		2014-04-30 00:00:00		
4437	600685	52296	-4.807325	-2641.0	2014-03-11 00:00:00	1.315491e+05	
	8384.263691	6.879492e+09	438463454		2014-03-18 00:00:00		
4438	000017 A	21358	-10.800200	-2586.0	2013-06-30 00:00:00	5.943993e+04	
	14186.140556	1.269518e+09	302987590		2013-08-24 00:00:00		
4439	601992	66736	-12.690355	-9700.0	2013-06-30 00:00:00	2.333339e+05	
	46666.785918	1.557177e+10	3114354625		2013-08-22 00:00:00		

```
>>> ef.stock.get_latest_holder_number(date='2021-06-30')
```

0	688768	24	0.000000	0.0	2021-06-30 00:00:00	NaN	1.	
	714395e+06	NaN	41145491		2021-08-31 00:00:00			
1	688669	8355	-11.135929	-1047.0	2021-06-30 00:00:00	3.662956e+05	1.	
	117096e+04	3.060400e+09	93333334		2021-08-31 00:00:00			
2	688613	8768	-71.573999	-22077.0	2021-06-30 00:00:00	1.380627e+06	1.	
	520681e+04	1.210533e+10	133333334		2021-08-31 00:00:00			
3	688586	20436	-5.642257	-1222.0	2021-06-30 00:00:00	5.508121e+05	1.	
	975653e+04	1.125640e+10	403744467		2021-08-31 00:00:00			
4	688559	7491	-16.460355	-1476.0	2021-06-30 00:00:00	8.071019e+05	2.	
	669871e+04	6.046000e+09	200000000		2021-08-31 00:00:00			
...	
4292	002261	144793	0.931290	1336.0	2021-06-30 00:00:00	7.731589e+04	7.	
	602349e+03	1.119480e+10	1100766874		2021-07-15 00:00:00			
4293	002471	75592	1.026409	768.0	2021-06-30 00:00:00	4.864536e+04	1.	
	677426e+04	3.677200e+09	1268000000		2021-07-12 00:00:00			
4294	600093	*ST	52497	-2.118099	-1136.0	2021-06-30 00:00:00	1.267904e+05	
	2.138117e+04	6.656114e+09	1122447500		2021-07-06 00:00:00			
4295	688091	25	0.000000	0.0	2021-06-30 00:00:00	NaN	3.	
	174000e+06	NaN	79350000		2021-07-02 00:00:00			
4296	301053	10	0.000000	0.0	2021-06-30 00:00:00	NaN	6.	
	131250e+06	NaN	61312500		2021-06-30 00:00:00			

(continues on next page)

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

IPO

Returns IPO

Return type DataFrame

Examples

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

0	(	2021-10-09 00:00:00	2021-06-24 00:00:00
1	(	2021-10-09 00:00:00	2020-12-08 00:00:00
2	(	2021-10-08 00:00:00	2021-09-06 00:00:00
3	(	2021-10-08 00:00:00	2021-06-10 00:00:00
4	(	2021-10-08 00:00:00	2021-06-24 00:00:00
...
1376	(	2019-06-26 00:00:00	2019-04-01 00:00:00
1377	(	2019-06-24 00:00:00	2019-04-15 00:00:00
1378	(	2019-06-20 00:00:00	2019-04-02 00:00:00
1379	(	2019-06-18 00:00:00	2019-03-22 00:00:00
1380	(	2019-06-18 00:00:00	2019-03-27 00:00:00

```
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_members(index_code: str) → pandas.core.frame.DataFrame`

Parameters `index_code` (`str`) –

Returns

Return type `DataFrame`

Examples

```
>>> import efinance as ef
>>> ef.stock.get_members('000300')

0      000300    300    600519      4.77
1      000300    300    601398      3.46
2      000300    300    601939      3.12
3      000300    300    600036      2.65
4      000300    300    601857      2.37
..      ...      ...      ...      ...
295    000300    300    688126      NaN
296    000300    300    688169      NaN
297    000300    300    688036      NaN
298    000300    300    688009      NaN
299    000300    300    688008      NaN
```

```
>>> ef.stock.get_members('')

0      399997      600519      49.25
1      399997      000858      18.88
2      399997      600809       8.45
3      399997      000568       7.03
4      399997      002304       5.72
5      399997      000596       2.76
6      399997      000799       1.77
7      399997      600779       1.36
8      399997      603369       1.26
9      399997      603198       0.89
10     399997      603589       0.67
11     399997      000860       0.59
12     399997      600559       0.44
13     399997      603919       0.39
14     399997      600197       0.28
15     399997      600199       0.26
```

`efinance.stock.get_quote_history(stock_codes: Union[str, List[str]], beg: str = '19000101', end: str = '20500101', klt: int = 101, fqt: int = 1, **kwargs) → 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
```

(continues on next page)

(continued from previous page)

```

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_quote_snapshot(stock_code: str) → pandas.core.series.Series`

Parameters `stock_code` (`str`) –

Return type Series

Examples

```

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

15:59:30
-73.5
-4.13
1707.0
1780.5
1760.2
1760.2
1768.0
1703.8
1726.65
1958.55
1602.45
0.39
49156
8487507456
1      1708.0
2      1708.75
4      1709.6
5      1709.63
1      1707.0
2      1706.99
3      1706.88
4      1706.87
5      1706.86
1         3.0
2         2.0
3        39.0
4         3.0
5         1.0
1        17.0
2         8.0
3        10.0
4         8.0
5        21.0
dtype: object

```

`efinance.stock.get_realtime_quotes(fs: Union[str, List[str]] = None) → pandas.core.frame.DataFrame`

Parameters `fs` (Union[str, List[str]], optional) –

- None A
- 'A' A
- 'A' A
- 'A' A
- A A
- ''

- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- 'ETF' ETF
- 'LOF' LOF

Returns
Return type DataFrame
Raises **KeyError** – fs

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	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			

(continues on next page)

(continued from previous page)

```

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

```

```
>>> ef.stock.get_realtime_quotes(['', ''])
```

```

↪      ID
0      00859   49.02   0.38   0.38   0.26   0.26   0.125   0.08   86.85  -2.83  ↪
↪938000 262860.0 0.255  427510287 427510287 128.00859 None
1      01058   41.05   1.34   1.51   0.9    0.93   0.39   8.34   1.61  249.89 ↪
↪44878000 57662440.0 0.95  720945460 720945460 128.01058 None
2      00713  ( ) 27.94   0.87   0.9    0.68   0.68   0.19   1.22  33.28   3.64  ↪
↪9372000 7585400.0 0.68  670785156 670785156 128.00713 None
3      08668   24.65   0.177  0.179  0.145  0.145  0.035  0.0   10.0  -9.78  ↪
↪20000 3240.0 0.142  212400000 212400000 128.08668 None
4      08413   24.44   0.28   0.28   0.25   0.25   0.055  0.01   3.48  -20.76 ↪
↪160000 41300.0 0.225  325360000 325360000 128.08413 None
...      ...      ...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...
5632 08429   -16.75   0.174   0.2    0.166   0.2  -0.035  2.48   3.52  -21.58 ↪
↪11895000 2074645.0 0.209  83520000 83520000 128.08429 None
5633 00524   -17.56   0.108   0.118  0.103  0.118  -0.023  0.45  15.43  -6.55  ↪
↪5961200 649171.0 0.131  141787800 141787800 128.00524 None
5634 08377   -17.71   0.395   0.46   0.39   0.46  -0.085  0.07   8.06  -5.07  ↪
↪290000 123200.0 0.48  161611035 161611035 128.08377 None
5635 00108   -19.01   1.15   1.42   1.15   1.42  -0.27  0.07   0.78  23.94  ↪
↪2376000 3012080.0 1.42  3679280084 3679280084 128.00108 None
5636 08237   -25.0    0.024  0.031  0.023  0.031  -0.008  0.43   8.74  -2.01  ↪
↪15008000 364188.0 0.032  83760000 83760000 128.08237 None

```

```
>>> ef.stock.get_realtime_quotes(['ETF'])
```

```

↪      ID
0      513050      ETF  4.49  1.444  1.455  1.433  1.452  0.062  6.71  0.92  -  ↪
↪12961671 1870845984.0 1.382  27895816917 27895816917 1.513050  A
1      513360      ETF  4.38   0.5   0.502  0.486  0.487  0.021  16.89  1.7  -  ↪
↪1104254 54634387.0 0.479  326856952 326856952 1.513360  A
2      159766      ETF  3.84  0.974  0.988  0.95   0.95  0.036  14.46  1.97  -  ↪
↪463730 45254947.0 0.938  312304295 312304295 0.159766  A
3      159865      ETF  3.8   0.819  0.828  0.785  0.791  0.03  12.13  0.89  -  ↪
↪1405871 114254714.0 0.789  949594189 949594189 0.159865  A
4      516670      ETF  3.76  0.856  0.864  0.825  0.835  0.031  24.08  0.98  -  ↪
↪292027 24924513.0 0.825  103803953 103803953 1.516670  A
..      ...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...
549 513060      ETF -4.12  0.861  0.905  0.86   0.902  -0.037  47.96  1.57  -  ↪
↪1620502 141454355.0 0.898  290926128 290926128 1.513060  A
550 515220      ETF -4.46  2.226  2.394  2.194  2.378  -0.104  14.39  0.98  -  ↪
↪2178176 487720560.0 2.330  3369247992 3369247992 1.515220  A
551 513000 225ETF -4.49  1.212  1.269  1.21  1.269  -0.057  5.02  2.49  -  ↪
↪25819 3152848.0 1.269  62310617 62310617 1.513000  A

```

(continues on next page)

(continued from previous page)

552	513880	225ETF	-4.59	1.163	1.224	1.162	1.217	-0.056	16.93	0.94	-	↵
↵	71058	8336846.0	1.219		48811110		48811110	1.513880	A			
553	513520	ETF	-4.76	1.2	1.217	1.196	1.217	-0.06	27.7	1.79	-	↵
↵	146520	17645828.0	1.260		63464640		63464640	1.513520	A			

Notes

`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'])

↪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' :
- 'etf' : ETF
- 'hh' :
- 'zs' :
- 'fof' : FOF
- 'qdii' : QDII
- None :

Returns

Return type `DataFrame`

Examples

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

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

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

Parameters

- `fund_code` (`str`) – 6
- `dates` (`Union[str, List[str]]`, optional) –

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

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

```

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

```

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

Parameters

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

Returns**Return type** DataFrame

Examples

```

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

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

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

```

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

Parameters

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

Examples

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

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

Parameters `fund_code (str)` – 6

Returns

Return type DataFrame

Examples

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

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

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

Parameters `fund_code (str)` – 6

Returns

Return type List[str]

Examples

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

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

Parameters

- `fund_code (str)` – 6
- `pz (int, optional)` –, 40000

Returns

Return type DataFrame

Examples

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

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

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

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

Returns

Return type DataFrame

Examples

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

0  161725  (LOF)A  2.8856  2021-09-07  2021-09-07  15:00   0.64
```

```
>>> #
>>> ef.fund.get_realtime_increase_rate(['161725', '005827'])

0  161725  (LOF)A  2.8856  2021-09-07  2021-09-07  15:00   0.64
1  005827          2.5704  2021-09-07  2021-09-07  15:00   0.67
```

`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...				

(continues on next page)

(continued from previous page)

```

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_deal_detail(bond_code: str, max_count: int = 1000000) → pandas.core.frame.DataFrame`

Parameters

- `bond_code (str)` –
- `max_count (int, optional)` –, 1000000

Returns

Return type DataFrame

Examples

```
>>> import efinance as ef
>>> ef.bond.get_deal_detail('113050')

0      113050  09:15:30  122.44  122.60  21  0
1      113050  09:17:07  122.44  122.60  21  0
2      113050  09:20:52  122.44  122.60  21  0
3      113050  09:22:34  122.44  122.60  21  0
4      113050  09:23:35  122.44  122.56  21  0
...      ...      ...      ...      ...      ...  ..
1720    113050  14:58:49  122.44  121.87    1  0
1721    113050  14:58:52  122.44  121.87    5  0
1722    113050  14:59:01  122.44  121.88    4  0
1723    113050  14:59:31  122.44  121.82   130  0
1724    113050  15:00:00  122.44  121.82   50  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, **kwargs) → 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			
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			

(continues on next page)

(continued from previous page)

```

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_deal_detail(quote_id: str, max_count: int = 1000000) → pandas.core.frame.DataFrame`

Parameters

- `quote_id` (*str*) – ID
- `max_count` (*int, optional*) –, 1000000

Returns

Return type DataFrame

Notes

ID `efinance.futures.get_futures_base_info`

Examples

```

>>> import efinance as ef
>>> ef.futures.get_deal_detail('115.ZCM', 3)

0      ZCM  21:00:00  0.0  879.0  23      0.0
1      ZCM  21:00:00  0.0  879.0   0 -373.0
2      ZCM  21:00:00  0.0  879.0   0   0.0

```

`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, ***kwargs*) → pandas.core.frame.DataFrame

Parameters

- **quote_ids** (Union[str, List[str]]) – 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								

(continues on next page)

(continued from previous page)

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						
4	jmm	5.0	2354.0	2360.0	2221.0	2221.0	112.0	-	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	↪
↪34029	5656982528.0	2866.0	-	-	114.jm2109						
847	071108	IH2108	-2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	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	↪
↪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	↪
↪14384	13315567616.0	3139.2	918000	-	8.070120						

(continues on next page)

(continued from previous page)

850	lu2109	2109	-3.79	3123.0	3127.0	3121.0	3121.0	-123.0	-	-	-	↵
↵22		687420.0	3143.0		-	-	142.lu2109					

Notes

ID,efinance.futures.get_realtime_quotes efinance.futures.get_quote_history K

PYTHON MODULE INDEX

e

`efinance.bond`, [60](#)
`efinance.fund`, [54](#)
`efinance.futures`, [65](#)
`efinance.stock`, [37](#)

E

`efinance.bond`
 module, 60
`efinance.fund`
 module, 54
`efinance.futures`
 module, 65
`efinance.stock`
 module, 37

G

`get_all_base_info()` (in module `efinance.bond`), 60
`get_all_company_performance()` (in module `efinance.stock`), 37
`get_all_report_dates()` (in module `efinance.stock`), 39
`get_base_info()` (in module `efinance.bond`), 61
`get_base_info()` (in module `efinance.fund`), 54
`get_base_info()` (in module `efinance.stock`), 40
`get_belong_board()` (in module `efinance.stock`), 40
`get_daily_billboard()` (in module `efinance.stock`), 41
`get_deal_detail()` (in module `efinance.bond`), 61
`get_deal_detail()` (in module `efinance.futures`), 65
`get_deal_detail()` (in module `efinance.stock`), 43
`get_fund_codes()` (in module `efinance.fund`), 55
`get_futures_base_info()` (in module `efinance.futures`), 65
`get_history_bill()` (in module `efinance.bond`), 62
`get_history_bill()` (in module `efinance.stock`), 44
`get_industry_distribution()` (in module `efinance.fund`), 55
`get_inverst_position()` (in module `efinance.fund`), 56
`get_latest_holder_number()` (in module `efinance.stock`), 44
`get_latest_ipo_info()` (in module `efinance.stock`), 46
`get_latest_quote()` (in module `efinance.stock`), 46
`get_members()` (in module `efinance.stock`), 47
`get_pdf_reports()` (in module `efinance.fund`), 57
`get_period_change()` (in module `efinance.fund`), 58
`get_public_dates()` (in module `efinance.fund`), 58
`get_quote_history()` (in module `efinance.bond`), 62

`get_quote_history()` (in module `efinance.fund`), 58
`get_quote_history()` (in module `efinance.futures`), 66
`get_quote_history()` (in module `efinance.stock`), 47
`get_quote_snapshot()` (in module `efinance.stock`), 49
`get_realtime_increase_rate()` (in module `efinance.fund`), 59
`get_realtime_quotes()` (in module `efinance.bond`), 63
`get_realtime_quotes()` (in module `efinance.futures`), 68
`get_realtime_quotes()` (in module `efinance.stock`), 50
`get_today_bill()` (in module `efinance.bond`), 64
`get_today_bill()` (in module `efinance.stock`), 53
`get_top10_stock_holder_info()` (in module `efinance.stock`), 53
`get_types_percentage()` (in module `efinance.fund`), 59

M

module
 `efinance.bond`, 60
 `efinance.fund`, 54
 `efinance.futures`, 65
 `efinance.stock`, 37