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**efinance**

***Release 0.4.3***

**micro sheep**

**Apr 28, 2022**



# GETTING STARTED

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efinance Python

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## 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)
```

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```

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

[8744 rows x 13 columns]

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

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

```

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[8362 rows x 13 columns]

- ETF K

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

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

[1102 rows x 13 columns]

- 5 K

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

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

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```

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

```

[1526 rows x 13 columns]

- A

```

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

```

```

↪      ID
0      688787  N 277.59 139.48 172.39 139.25 171.66 102.54 85.62 - 78.93 ↪
↪ 74519 1110318832.0 36.94 5969744000 1213908667 1.688787 A
1      301045  N 149.34 39.42 48.95 39.2 48.95 23.61 66.66 - 37.81 ↪
↪ 163061 683878656.0 15.81 4066344240 964237089 0.301045 A
2      300532  20.04 12.16 12.16 10.69 10.69 2.03 8.85 3.02 -22.72 ↪
↪ 144795 171535181.0 10.13 3322510580 1989333440 0.300532 A
3      300600  20.02 13.19 13.19 11.11 11.41 2.2 18.61 2.82 218.75 ↪
↪ 423779 541164432.0 10.99 3915421427 3003665117 0.300600 A
4      300985  20.01 47.08 47.08 36.8 39.4 7.85 66.65 2.17 58.37 ↪
↪ 210697 897370992.0 39.23 6277336472 1488300116 0.300985 A
...
↪ ...
4598 603186 -10.0 43.27 44.09 43.27 43.99 -4.81 1.98 0.48 25.24 ↪
↪ 27697 120486294.0 48.08 6146300650 6063519472 1.603186 A
4599 688185 -U -10.11 476.4 534.94 460.13 530.0 -53.6 6.02 2.74 -2088.07 ↪
↪ 40239 1960540832.0 530.0 117885131884 31831479215 1.688185 A
4600 688148 -10.57 31.3 34.39 31.3 33.9 -3.7 26.07 0.56 220.01 ↪
↪ 188415 620632512.0 35.0 15923562000 2261706043 1.688148 A
4601 300034 -10.96 43.12 46.81 42.88 46.5 -5.31 7.45 1.77 59.49 ↪
↪ 323226 1441101824.0 48.43 20959281094 18706911861 0.300034 A
4602 300712 -13.71 96.9 110.94 95.4 109.0 -15.4 6.96 1.26 511.21 ↪
↪ 126705 1265152928.0 112.3 17645877600 17645877600 0.300712 A

```

[4603 rows x 18 columns]

```

>>> import efinance as ef
>>> # ()

```

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```

>>> 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

```

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```

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

```

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[3725 rows x 14 columns]

&gt;&gt;&gt;

• ()

```
>>> 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				

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```

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	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%2.00%		
1 110081	600745	AA+	2021-07-28 00:00:00	86.000000	0.044030
None	2027-07-28 00:00:00	6	0.10%0.20%0.30%1.50%1.80%2.00%		
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%2.80%		

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```

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

```

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```

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 v0.4.3(2022-04-28)

#### 5.1.1 Added

- stock get\_belong\_plate
- stock get\_deal\_detail

### 5.2 v0.4.2(2022-03-07)

#### 5.2.1 Changed

- get\_quote\_history kwargs

#### 5.2.2 Added

- stock get\_quote\_snapshot 3
- 

### 5.3 v0.4.0(2021-12-02)

#### 5.3.1 Fiexd

- fund bug

### 5.3.2 Added

- A
- 

## 5.4 v0.3.9(2021-10-23)

### 5.4.1 Changed

- fund
- common

### 5.4.2 Added

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

## 5.5 v0.3.8(2021-09-18)

### 5.5.1 Changed

- fund

### 5.5.2 Added

- 
- ETFLOF

## 5.6 v0.3.7(2021-08-30)

### 5.6.1 Added

- docker
- A
- stock

### 5.6.2 Fixed

- fund bug
- fund bug

### 5.6.3 Changed

- `efinance.stock.get_all_company_performance`

## 5.7 v0.3.6 (2021-08-21)

### 5.7.1 Fixed

- 

### 5.7.2 Changed

- 

### 5.7.3 Added

- futures
- 

## 5.8 v0.3.5 (2021-08-15)

### 5.8.1 Added

- - 
  - common bond stock
  - bond
  -
-

## 5.9 v0.3.4 (2021-08-08)

### 5.9.1 Changed

- vscode
- 

## 5.10 v0.3.3 (2021-08-08)

### 5.10.1 Changed

- 
- 

## 5.11 v0.3.2 (2021-08-08)

### 5.11.1 Added

- sphinx
  - read the docs
- 

## 5.12 v0.3.1 (2021-08-05)

### 5.12.1 Added

- session

### 5.12.2 Fixed

- 
- 

## 5.13 v0.3.0 (2021-08-03)

### 5.13.1 Added

- 
- jsonpath

### 5.13.2 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						

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```

... ..
↪. ... ..
4756 600519 2021-07-23 1937.82 1900.00 1937.82 1895.09 47585.0 9.057762e+09 ↪
↪2.20 -2.06 -40.01 0.38
4757 600519 2021-07-26 1879.00 1804.11 1879.00 1780.00 98619.0 1.789436e+10 ↪
↪5.21 -5.05 -95.89 0.79
4758 600519 2021-07-27 1803.00 1712.89 1810.00 1703.00 86577.0 1.523081e+10 ↪
↪5.93 -5.06 -91.22 0.69
4759 600519 2021-07-28 1703.00 1768.90 1788.20 1682.12 85369.0 1.479247e+10 ↪
↪6.19 3.27 56.01 0.68
4760 600519 2021-07-29 1810.01 1740.00 1823.00 1734.34 51035.0 9.067345e+09 ↪
↪5.01 -1.63 -28.90 0.41

[4761 rows x 13 columns]

```

- A K

```

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

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

[8744 rows x 13 columns]

>>> #
>>> 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

```

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```

1      MSFT  1986-03-14  -20.73 -20.73 -20.73 -20.73  3.081600e+08  0.000000e+00  0.
↪00  0.00  0.00   4.10
2      MSFT  1986-03-17  -20.73 -20.73 -20.73 -20.73  1.331712e+08  0.000000e+00  0.
↪00  0.00  0.00   1.77
3      MSFT  1986-03-18  -20.73 -20.73 -20.73 -20.73  6.776640e+07  0.000000e+00  0.
↪00  0.00  0.00   0.90
4      MSFT  1986-03-19  -20.73 -20.73 -20.73 -20.73  4.789440e+07  0.000000e+00  0.
↪00  0.00  0.00   0.64
...
↪ ...
8357   MSFT  2021-07-22  283.84 286.14 286.42 283.42  2.338406e+07  6.677062e+09  1.
↪07  1.68  4.74   0.31
8358   MSFT  2021-07-23  287.37 289.67 289.99 286.50  2.276807e+07  6.578686e+09  1.
↪22  1.23  3.53   0.30
8359   MSFT  2021-07-26  289.00 289.05 289.69 286.64  2.317607e+07  6.685868e+09  1.
↪05 -0.21 -0.62   0.31
8360   MSFT  2021-07-27  289.43 286.54 289.58 282.95  3.360407e+07  9.599993e+09  2.
↪29 -0.87 -2.51   0.45
8361   MSFT  2021-07-28  288.99 286.22 290.15 283.83  3.356685e+07  9.638499e+09  2.
↪21 -0.11 -0.32   0.45
[8362 rows x 13 columns]

```

- ETF K

```

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

0      ETF  513050  2017-01-18  0.989 0.977 0.989 0.969  345605.0  3.381795e+07  0.
↪00  0.00  0.000  0.26
1      ETF  513050  2017-01-19  0.978 0.989 0.990 0.978  257716.0  2.542553e+07  1.
↪23  1.23  0.012  0.19
2      ETF  513050  2017-01-20  0.989 0.988 0.990 0.986  50980.0  5.043289e+06  0.
↪40 -0.10 -0.001  0.04
3      ETF  513050  2017-01-23  0.988 0.988 0.989 0.986  13739.0  1.356129e+06  0.
↪30  0.00  0.000  0.01
4      ETF  513050  2017-01-24  0.989 0.989 0.992 0.987  17937.0  1.774398e+06  0.
↪51  0.10  0.001  0.01
...
↪ ...
1097   ETF  513050  2021-07-23  1.789 1.760 1.789 1.758  4427623.0  7.836530e+08  1.
↪73 -1.51 -0.027  3.32
1098   ETF  513050  2021-07-26  1.679 1.645 1.698 1.642  13035366.0  2.182816e+09  3.
↪18 -6.53 -0.115  9.78
1099   ETF  513050  2021-07-27  1.600 1.547 1.620 1.546  14269546.0  2.257610e+09  4.
↪50 -5.96 -0.098  10.70
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

```

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[1102 rows x 13 columns]

- 5 K

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

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

[1526 rows x 13 columns]

- A

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

	ID										
0	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				

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```
[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%	
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

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```

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
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
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
```

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```

387 123047      -5.7    305.5   319.52  305.382  -18.47  122.41      - 193587  _
↳600277600.0   323.97  483119533  483119533  0.123047  A

[388 rows x 16 columns]

```

•

```

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

              ()      (%)              ()      _
↳
0   123120      300263   AA-  2021-07-30 00:00:00   7.989283      NaN      _
↳None  2027-07-30 00:00:00      6   0.40%0.70%1.00%1.60%2....
1   110081      600745   AA+  2021-07-28 00:00:00   86.000000   0.044030      _
↳None  2027-07-28 00:00:00      6   0.10%0.20%0.30%1.50%1.80%...
2   118001      688598   A+   2021-07-23 00:00:00   5.999010   0.001771      _
↳None  2027-07-23 00:00:00      6   0.50%0.70%1.20%1.80%2.40%...
3   123119      2 300601   AA  2021-07-15 00:00:00   20.000000   0.014182      _
↳None  2027-07-15 00:00:00      6   0.30%0.50%1.00%1.50%1....
4   113627      603877   AA  2021-07-15 00:00:00   8.000000   0.000542      _
↳None  2027-07-15 00:00:00      6   0.30%0.50%1.00%1.50%1.80%...
..   ...      ...      ...      ...      ...      ...      ...      _
↳
↳
↳
80  110227      600227   AAA  2007-10-10 00:00:00   4.500000   0.158854  2007-10-23_
↳00:00:00  2009-05-25 00:00:00   1.6192   :1.5%1.8%2....
81  126006      07 600548   AAA  2007-10-09 00:00:00   15.000000   0.290304  2007-10-30_
↳00:00:00  2013-10-09 00:00:00      6
↳None
82  110971      600971   AAA  2007-09-24 00:00:00   4.000000   5.311774  2007-10-12_
↳00:00:00  2009-12-21 00:00:00   2.2484   :1.5%,1.8%,2.1%,2...
83  110567      600567   AA   2007-09-05 00:00:00   4.700000   0.496391  2007-09-17_
↳00:00:00  2010-02-01 00:00:00   2.4055   :1.4%,1.7%,2....
84  110026      600026   AAA  2007-07-02 00:00:00   20.000000   1.333453  2007-07-12_
↳00:00:00  2008-03-27 00:00:00   0.737   :1.84%,2.05%,2.26%,2.47%,...

[585 rows x 12 columns]

```

• K

```

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

0   3  123111  2021-04-23  130.000  130.000  130.000  130.000  1836427  2.387355e+09  0.
↳00  30.00  30.000  11.62
1   3  123111  2021-04-26  130.353  130.010  133.880  125.110  8610944  1.126033e+10  6.
↳75  0.01  0.010  54.50
2   3  123111  2021-04-27  129.000  129.600  130.846  128.400  1820766  2.357472e+09  1.
↳88 -0.32 -0.410  11.52
3   3  123111  2021-04-28  129.100  130.770  131.663  128.903  1467727  1.921641e+09  2.
↳13  0.90  1.170  9.29

```

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```

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)

```

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```

0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.00  0.
↪0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.32 -1.
↪4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.23 -1.
↪0  0.0
3      ZCM  2015-05-21  438.0  443.2  446.8  437.8     37  1.631850e+06  2.06  1.65  7.
↪2  0.0
4      ZCM  2015-05-22  439.2  441.4  443.8  439.2     34  1.502500e+06  1.04  0.09  0.
↪4  0.0
...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...      ...
1524    ZCM  2021-08-17  755.0  770.8  776.0  750.6  82373  6.288355e+09  3.25 -1.26 -9.
↪8  0.0
1525    ZCM  2021-08-18  770.8  776.8  785.8  766.0  77392  6.016454e+09  2.59  1.76 13.
↪4  0.0
1526    ZCM  2021-08-19  776.8  777.6  798.0  764.6  97229  7.597474e+09  4.30  0.03  0.
↪2  0.0
1527    ZCM  2021-08-20  778.0  793.0  795.0  775.2  70549  5.553617e+09  2.53  1.48 11.
↪6  0.0
1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28 49.
↪4  0.0

[1529 rows x 13 columns]

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

0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.00  0.
↪0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.32 -1.
↪4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.23 -1.
↪0  0.0
3      ZCM  2015-05-21  438.0  443.2  446.8  437.8     37  1.631850e+06  2.06  1.65  7.
↪2  0.0
4      ZCM  2015-05-22  439.2  441.4  443.8  439.2     34  1.502500e+06  1.04  0.09  0.
↪4  0.0
...      ...      ...      ...      ...      ...      ...      ...      ...
↪      ...      ...
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

```

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```
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  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
```

```

>>> #
>>> 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      NaN
1      301048      2021-07-30 00:00:00  9.165528e+07      NaN      NaN -2.189989e+07
→      NaN      NaN      NaN      NaN -1.91  20.227118      NaN
2      001213      2021-07-29 00:00:00  1.343454e+09      NaN      NaN -3.753634e+07
→      NaN      NaN -0.0100      NaN      NaN -1.400708      NaN
3      605588      2021-07-28 00:00:00  1.960175e+08      NaN      NaN  1.906751e+07
→      NaN      NaN  0.3500      NaN      NaN  16.324650      NaN
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      NaN
...      ...      ...      ...      ...      ...      ...
→ ...      ...      ...      ...      ...      ...      ...
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  0.094249
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  0.186421
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  0.085698
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

```

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11	2018-09-30	2018
12	2018-06-30	2018
13	2018-03-31	2018
14	2017-12-31	2017
15	2017-09-30	2017
16	2017-06-30	2017
17	2017-03-31	2017
18	2016-12-31	2016
19	2016-09-30	2016
20	2016-06-30	2016
21	2016-03-31	2016
22	2015-12-31	2015
24	2015-06-30	2015
25	2015-03-31	2015
26	2014-12-31	2014
27	2014-09-30	2014
28	2014-06-30	2014
29	2014-03-31	2014
30	2013-12-31	2013
31	2013-09-30	2013
32	2013-06-30	2013
33	2013-03-31	2013
34	2012-12-31	2012
35	2012-09-30	2012
36	2012-06-30	2012
37	2012-03-31	2012
38	2011-12-31	2011
39	2011-09-30	2011

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

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

**Returns**

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

**Return type** `Union[Series, DataFrame]`

**Raises** `TypeError` – `stock_codes`

### Examples

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

()          39.38
           12.54
```

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```

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

**Parameters** `stock_code (str)` –

**Returns**

**Return type** `DataFrame`

### Examples

```

>>> import efinance as ef
>>> ef.stock.get_belong_plate('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	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%					

```

>>> #
>>> 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%
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
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		

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```

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  1.
↳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

```

`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

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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			
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			

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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
```

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```
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
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

```

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

ID	ETF	4.49	1.444	1.455	1.433	1.452	0.062	6.71	0.92	-
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				
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						

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```

4      600519  2021-07-29  09:35      7853716.0  -970615.0  -6883104.0  -75692436.0  ↪
↪83546152.0
..      ...      ...      ...      ...      ...      ...      ↪
↪      ...
235  600519  2021-07-29  14:56 -918956019.0 -1299630.0  920255661.0 -397127393.0 -
↪521828626.0
236  600519  2021-07-29  14:57 -920977761.0 -2319213.0  923296987.0 -397014702.0 -
↪523963059.0
237  600519  2021-07-29  14:58 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0
238  600519  2021-07-29  14:59 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0
239  600519  2021-07-29  15:00 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0

```

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

**Parameters**

- **stock\_code** (*str*) –
- **top** (*int, optional*) – top 10, 4

**Returns** 10**Return type** DataFrame**Examples**

```

>>> import efinance as ef
>>> ef.stock.get_top10_stock_holder_info('600519', top = 1)

```

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

## Fund

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

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

**Returns**

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

**Return type** `Union[Series, DataFrame]`

**Raises** `TypeError` – `fund_codes`

## Examples

```
>>> import efinance as ef
>>> ef.fund.get_base_info('161725')
              161725
              (LOF)A
              2015-05-27
                  -6.03
                  1.1959
              2021-07-30

dtype: object
```

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

`efinance.fund.get_fund_codes(ft: 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

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```

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])

```

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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
```

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```

...      ...      ...      ...
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...
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%
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\_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	
..	...	...	...	...	...	...	...	...	...
	↪	...	...	...	...	...	...	...	...

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390	113621	-4.45	188.57	198.22	188.0	196.01	-8.79	29.91	0.47	└
↪-	168709	326018848.0	197.36	1063693010	1063693010	1.113621	A			└
391	128017	-4.86	182.676	204.989	182.61	195.16	-9.324	35.58	2.0	└
↪-	196375	375750768.0	192.0	1008366222	1008366222	0.128017	A			└
392	113548	-5.16	250.22	267.57	246.56	262.3	-13.61	143.32	0.72	└
↪-	175893	452796304.0	263.83	307086749	307086749	1.113548	A			└
393	128093	-5.71	429.042	449.97	426.078	443.1	-25.958	426.86	0.36	└
↪-	693261	3032643232.0	455.0	696810974	696810974	0.128093	A			└
394	123066	-6.0	193.08	203.999	193.08	203.0	-12.32	323.13	0.22	└
↪-	133317	261546032.0	205.4	79660753	79660753	0.123066	A			└

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

**Parameters** `bond_code` (`str`) –

**Returns**

**Return type** `DataFrame`

### Examples

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

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

## Futures

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

### Returns

**Return type** `DataFrame`

### Examples

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

### Notes

ID `efinance.futures.get_quote_history`

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

### Parameters

- **quote\_ids** (`Union[str, List[str]]`) – ID ID
- **beg** (`str, optional`) – '19000101' 190011
- **end** (`str, optional`) – '20500101' 205011
- **klt** (`int, optional`) – 101
  - 1 :
  - 5 : 5
  - 15 : 15
  - 30 : 30
  - 60 : 60
  - 101 :
  - 102 :
  - 103 :

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

**Returns**

K

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

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

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

0	ZCM	2015-05-18	440.0	437.6	440.2	437.6	64	2.806300e+06	0.00	0.
↪00	0.0	0.0								
1	ZCM	2015-05-19	436.0	437.0	437.6	436.0	6	2.621000e+05	0.36	-0.
↪32	-1.4	0.0								
2	ZCM	2015-05-20	436.8	435.8	437.0	434.8	8	3.487500e+05	0.50	-0.
↪23	-1.0	0.0								
3	ZCM	2015-05-21	438.0	443.2	446.8	437.8	37	1.631850e+06	2.06	1.
↪65	7.2	0.0								
4	ZCM	2015-05-22	439.2	441.4	443.8	439.2	34	1.502500e+06	1.04	0.
↪09	0.4	0.0								
...	...	...	...	...	...	...	...	...	...	...
↪	...	...	...							
1524	ZCM	2021-08-17	755.0	770.8	776.0	750.6	82373	6.288355e+09	3.25	-1.
↪26	-9.8	0.0								
1525	ZCM	2021-08-18	770.8	776.8	785.8	766.0	77392	6.016454e+09	2.59	1.
↪76	13.4	0.0								
1526	ZCM	2021-08-19	776.8	777.6	798.0	764.6	97229	7.597474e+09	4.30	0.
↪03	0.2	0.0								
1527	ZCM	2021-08-20	778.0	793.0	795.0	775.2	70549	5.553617e+09	2.53	1.
↪48	11.6	0.0								
1528	ZCM	2021-08-23	796.8	836.6	843.8	796.8	82954	6.850341e+09	5.97	6.
↪28	49.4	0.0								

```
>>> # ID
>>> quote_ids = ['115.ZCM', '115.ZC109']
```

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```

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

```

0	ZCM	2015-05-18	440.0	437.6	440.2	437.6	64	2.806300e+06	0.00	0.
→00	0.0	0.0								
1	ZCM	2015-05-19	436.0	437.0	437.6	436.0	6	2.621000e+05	0.36	-0.
→32	-1.4	0.0								
2	ZCM	2015-05-20	436.8	435.8	437.0	434.8	8	3.487500e+05	0.50	-0.
→23	-1.0	0.0								
3	ZCM	2015-05-21	438.0	443.2	446.8	437.8	37	1.631850e+06	2.06	1.
→65	7.2	0.0								
4	ZCM	2015-05-22	439.2	441.4	443.8	439.2	34	1.502500e+06	1.04	0.
→09	0.4	0.0								
...	...	...	...	...	...	...	...	...	...	...
→	...	...	...							
1524	ZCM	2021-08-17	755.0	770.8	776.0	750.6	82373	6.288355e+09	3.25	-1.
→26	-9.8	0.0								
1525	ZCM	2021-08-18	770.8	776.8	785.8	766.0	77392	6.016454e+09	2.59	1.
→76	13.4	0.0								
1526	ZCM	2021-08-19	776.8	777.6	798.0	764.6	97229	7.597474e+09	4.30	0.
→03	0.2	0.0								
1527	ZCM	2021-08-20	778.0	793.0	795.0	775.2	70549	5.553617e+09	2.53	1.
→48	11.6	0.0								
1528	ZCM	2021-08-23	796.8	836.6	843.8	796.8	82954	6.850341e+09	5.97	6.
→28	49.4	0.0								

efinance.futures.get\_realtime\_quotes() → pandas.core.frame.DataFrame

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

```

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

```

											ID
0	ZCM	6.28	836.6	843.8	796.8	796.8	49.4	-	2.82	-	
→82954	6850341376.0	793.0	-	-	115.ZCM						
1	ZC201	201	6.28	836.6	843.8	796.8	796.8	49.4	-	2.82	
→82954	6850341376.0	793.0	-	-	115.ZC201						
2	jm	5.39	2980.0	2982.0	2833.0	2834.0	152.5	-	1.4	-	
→166433	48567923456.0	2830.5	-	-	114.jm						
3	j2201	2201	5.39	2980.0	2982.0	2833.0	2834.0	152.5	-	1.4	
→166433	48567923456.0	2830.5	-	-	114.j2201						
4	jmm	5.0	2354.0	2360.0	2221.0	2221.0	112.0	-	1.42	-	
→238671	32924591872.0	2238.0	-	-	114.jmm						

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

## Notes

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