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**efinance**

***Release 0.4.7***

**micro sheep**

**Jun 25, 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
0 123015 13.49 198.613 205.0 175.5 23.613 315.36 - 316062 ↪
↪ 613480512.0 175.0 199056701 199056701 0.123015 A
1 123077 9.59 115.51 122.971 105.401 10.11 32.59 - 305380 ↪
↪ 358093216.0 105.4 1082332396 1082332396 0.123077 A
2 123066 8.08 232.377 245.8 225.0 17.377 470.3 - 454204 ↪
↪ 1081363632.0 215.0 224423665 224423665 0.123066 A
3 128093 7.69 360.751 367.9 335.5 25.751 343.84 - 558874 ↪
↪ 1984944768.0 335.0 586364315 586364315 0.128093 A
4 128082 7.41 158.507 163.769 147.089 10.935 103.16 - 226444 ↪
↪ 355827984.0 147.572 347931900 347931900 0.128082 A
.. ... ..
↪ ... ..
383 123087 -4.34 151.75 169.0 150.302 -6.879 117.66 - 520370 ↪
↪ 817884784.0 158.629 671147760 671147760 0.123087 A
384 123070 -4.63 175.001 179.799 174.471 -8.499 18.46 - 144998 ↪
↪ 257005833.0 183.5 1374730681 1374730681 0.123070 A
385 123027 -4.67 338.413 352.825 338.015 -16.586 44.23 - 47356 ↪
↪ 162870853.0 354.999 362300558 362300558 0.123027 A
386 113621 -5.03 215.61 222.5 214.41 -11.41 11.46 - 91710 ↪
↪ 200327611.0 227.02 1725268098 1725268098 1.113621 A
387 123047 -5.7 305.5 319.52 305.382 -18.47 122.41 - 193587 ↪
↪ 600277600.0 323.97 483119533 483119533 0.123047 A

[388 rows x 16 columns]
```

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

          () (%)          () ↪
↪
0 123120 300263 AA- 2021-07-30 00:00:00 7.989283 NaN ↪
↪ None 2027-07-30 00:00:00 6 0.40%0.70%1.00%1.60%2....
1 110081 600745 AA+ 2021-07-28 00:00:00 86.000000 0.044030 ↪
↪ None 2027-07-28 00:00:00 6 0.10%0.20%0.30%1.50%1.80%...
2 118001 688598 A+ 2021-07-23 00:00:00 5.999010 0.001771 ↪
↪ None 2027-07-23 00:00:00 6 0.50%0.70%1.20%1.80%2.40%...
(continues on next page)
```

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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 v0.4.7(2022-06-24)

#### 5.2 Added

- n l K

#### 5.3 Fixed

- 

### 5.4 v0.4.6(2022-06-19)

#### 5.4.1 Changed

- stock
- common

### 5.5 v0.4.5(2022-06-05)

#### 5.5.1 Fixed

- bond get\_base\_info

## 5.6 Added

futures bond

## 5.7 v0.4.4(2022-04-29)

### 5.7.1 Added

- python3.10

### 5.7.2 Changed

- stock get\_belong\_plate get\_belong\_board

## 5.8 v0.4.3(2022-04-28)

### 5.8.1 Added

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

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

### 5.9.1 Changed

- get\_quote\_history kwargs

### 5.9.2 Added

- stock get\_quote\_snapshot 3
- 

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

### 5.10.1 Fixed

- fund bug

### 5.10.2 Added

- A
- 

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

### 5.11.1 Changed

- fund
- common

### 5.11.2 Added

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

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

### 5.12.1 Changed

- fund

### 5.12.2 Added

- 
- ETFLOF

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

### 5.13.1 Added

- docker
- A
- stock

### **5.13.2 Fixed**

- fund bug
- fund bug

### **5.13.3 Changed**

- `efinance.stock.get_all_company_performance`

## **5.14 v0.3.6 (2021-08-21)**

### **5.14.1 Fixed**

- 

### **5.14.2 Changed**

- 

### **5.14.3 Added**

- futures
- 

## **5.15 v0.3.5 (2021-08-15)**

### **5.15.1 Added**

- - 
  - common bond stock
  - bond
  -
-

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

### 5.16.1 Changed

- `vscode`
- 

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

### 5.17.1 Changed

- 
- 

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

### 5.18.1 Added

- `sphinx`
  - `read the docs`
- 

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

### 5.19.1 Added

- `session`

### 5.19.2 Fixed

- 
- 

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

### 5.20.1 Added

- 
- `jsonpath`

## 5.20.2 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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```

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

```

```
>>> 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%						
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%						
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%						
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%						
..	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...
		...						
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%						

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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%2.00%			
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%			
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%1.80%2.00%			
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%2.00%			
..	...	...	...	...	...	...	...	...
↳	...	...	...	...	...	...	...	...
80	110227	600227	AAA	2007-10-10	00:00:00	4.500000	0.158854	2007-10-23
↳	00:00:00	2009-05-25	00:00:00	1.6192	:1.5%1.8%2.0%2.2%2.4%			
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%,2.4%,2.7%			
83	110567	600567	AA	2007-09-05	00:00:00	4.700000	0.496391	2007-09-17
↳	00:00:00	2010-02-01	00:00:00	2.4055	:1.4%,1.7%,2.0%,2.3%,2.6%			
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%,2.7%			

[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) → 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

```

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```

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()` → 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

```

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

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

**Parameters**

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

**Returns**

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

**Return type**

`Union[Series, DataFrame]`

**Raises**

**`TypeError`** – `stock_codes`

## Examples

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

()
39.38
12.54

2198082348462.0
2198082348462.0
BK0477
ROE 8.29
54.1678
13954462085.610001
91.6763
dtype: object
```

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

`efinance.stock.get_belong_board(stock_code: str) → DataFrame`

### Parameters

**stock\_code** (*str*) –

### Returns

#### Return type

DataFrame

## Examples

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

0 600519 BK0477 0.56
1 600519 BK0173 -1.27
2 600519 BK0611 50_ 0.60
3 600519 BK0718 0.54
4 600519 BK0896 0.25
5 600519 BK0500 HS300_ 0.21
6 600519 BK0612 180_ 0.18
7 600519 BK0999 0.10
8 600519 BK0610 50_ 0.03
9 600519 BK0821 MSCI -0.12
10 600519 BK0879 -0.37
```

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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) → 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%					

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```

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, **kwargs) → 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) → 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	0.14016e+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

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```

...      ...      ...      ...      ...      ...      ...      ...
↪
97      600519  2021-07-26 -1.564233e+09  13142211.0  1.551091e+09 -1.270400e+08 -1.
↪437193e+09  -8.74      0.07      8.67      -0.71      -8.03  1804.11 -5.05
98      600519  2021-07-27 -7.803296e+08 -10424715.0  7.907544e+08  6.725104e+07 -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) → 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

```

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```

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 13333334 2021-08-31 00:00:00
3      688586      20436 -5.642257 -1222.0 2021-06-30 00:00:00 5.508121e+05 1.
↳ 975653e+04 1.125640e+10 403744467 2021-08-31 00:00:00
4      688559      7491 -16.460355 -1476.0 2021-06-30 00:00:00 8.071019e+05 2.
↳ 669871e+04 6.046000e+09 200000000 2021-08-31 00:00:00
...      ...      ...      ...      ...      ...      ...
↳
4292 002261      144793  0.931290      1336.0 2021-06-30 00:00:00 7.731589e+04 7.
↳ 602349e+03 1.119480e+10 1100766874 2021-07-15 00:00:00
4293 002471      75592  1.026409      768.0 2021-06-30 00:00:00 4.864536e+04 1.
↳ 677426e+04 3.677200e+09 1268000000 2021-07-12 00:00:00
4294 600093 *ST 52497 -2.118099 -1136.0 2021-06-30 00:00:00 1.267904e+05
↳ 2.138117e+04 6.656114e+09 1122447500 2021-07-06 00:00:00
4295 688091      25  0.000000      0.0 2021-06-30 00:00:00      NaN 3.
↳ 174000e+06      NaN 79350000 2021-07-02 00:00:00
4296 301053      10  0.000000      0.0 2021-06-30 00:00:00      NaN 6.
↳ 131250e+06      NaN 61312500 2021-06-30 00:00:00

```

efinance.stock.get\_latest\_ipo\_info() → 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

```

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```

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: Union[str, List[str]], **kwargs) → DataFrame`

**Parameters**

`stock_codes` (`Union[str, List[str]]`) –  
 - '600519' - ['600519', '300750']

**Returns****Return type**

DataFrame

**Examples**

```

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

```

	ID										
0	600519	3.94	1951.00	1952.00	1878.09	1878.09	74.00	0.40	1.45	35.53	
↪	50542	9.749531e+09	1877.0	2450841907800	2450841907800			A	1.600519		
1	300750	5.60	486.06	490.68	451.22	452.30	25.76	1.39	1.15	189.73	
↪	282939	1.359520e+10	460.3	1132933534272	990909383251			A	0.300750		

**Notes**

A `efinance.stock.get_realtime_quotes`

`efinance.stock.get_members(index_code: str) → DataFrame`

**Parameters**

`index_code` (`str`) –

**Returns****Return type**

DataFrame

## Examples

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

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

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

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

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

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```

>>> type(stock_df)
<class 'dict'>
>>> stock_df.keys()
dict_keys(['300750', '600519'])
>>> stock_df['600519']

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

```

`efinance.stock.get_quote_snapshot(stock_code: str) → 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

```

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```

      1726.65
      1958.55
      1602.45
        0.39
       49156
    8487507456
1      1708.0
2      1708.75
4      1709.6
5      1709.63
1      1707.0
2      1706.99
3      1706.88
4      1706.87
5      1706.86
1         3.0
2         2.0
3        39.0
4         3.0
5         1.0
1        17.0
2         8.0
3        10.0
4         8.0
5        21.0
dtype: object

```

`efinance.stock.get_realtime_quotes(fs: Union[str, List[str]] = None, **kwargs) → 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						

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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	↵
↵	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				

&gt;&gt;&gt; ef.stock.get\_realtime\_quotes(['ETF'])

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

### Parameters

**stock\_code** (*str*) –

### Returns

#### Return type

DataFrame

## Examples

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

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

`efinance.stock.get_top10_stock_holder_info(stock_code: str, top: int = 4) → 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[Series, DataFrame]`

### Parameters

**fund\_codes** (Union[str, List[str]]) – 6 6

### Returns

- Series : ( fund\_codes )
- DataFrame : ( fund\_codes )

### Return type

Union[Series, DataFrame]

### Raises

**TypeError** – fund\_codes

## Examples

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

	161725
(LOF)A	
2015-05-27	
-6.03	
1.1959	
2021-07-30	

dtype: object

```

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

00:00, 1
↪ 6.38it/s]
0  005827          2018-09-05 -2.98  2.4967  2021-07-30  A+H
1  161725  (LOF)A  2015-05-27 -6.03  1.1959  2021-07-30

```

`efinance.fund.get_fund_codes(ft: str = None) → 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      50ETF
1982  012517  ETF
1983  012600          C
1984  011043          C
1985  012516  ETF

```

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

#### Parameters

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

**Returns****Return type**

DataFrame

**Examples**

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

`efinance.fund.get_invest_position(fund_code: str, dates: Union[str, List[str]] = None) → 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_invest_position('161725')

0  161725  600519    16.78    1.36  2022-03-31
1  161725  600809    15.20    0.52  2022-03-31
2  161725  000568    14.57   -0.89  2022-03-31
3  161725  000858     12.83   -1.26  2022-03-31
4  161725  002304    11.58    0.91  2022-03-31
5  161725  603369     3.75   -0.04  2022-03-31
6  161725  000799     3.40   -0.91  2022-03-31
7  161725  000596     3.27   -0.24  2022-03-31
8  161725  600779     2.59   -0.26  2022-03-31
9  161725  603589     2.30   -0.38  2022-03-31
>>> # 2
>>> public_dates = ef.fund.get_public_dates('161725')
>>> ef.fund.get_invest_position('161725',public_dates[:2])

0  161725  600519    16.78    1.36  2022-03-31
1  161725  600809    15.20    0.52  2022-03-31
2  161725  000568    14.57   -0.89  2022-03-31
3  161725  000858     12.83   -1.26  2022-03-31
4  161725  002304    11.58    0.91  2022-03-31
5  161725  603369     3.75   -0.04  2022-03-31
6  161725  000799     3.40   -0.91  2022-03-31
7  161725  000596     3.27   -0.24  2022-03-31
8  161725  600779     2.59   -0.26  2022-03-31
9  161725  603589     2.30   -0.38  2022-03-31
10 161725  000568    15.46    0.57  2021-12-31
11 161725  600519    15.42    0.63  2021-12-31
12 161725  600809    14.68   -1.72  2021-12-31
13 161725  000858     14.09    0.87  2021-12-31
14 161725  002304    10.67   -1.34  2021-12-31
15 161725  000799     4.31    0.09  2021-12-31
16 161725  603369     3.79    0.81  2021-12-31
17 161725  000596     3.51   -0.69  2021-12-31
18 161725  600779     2.85   -0.41  2021-12-31
19 161725  603589     2.68    2.68  2021-12-31
```

`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) → 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) → DataFrame`

### Parameters

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

**Returns****Return type**

DataFrame

**Examples**

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

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

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

**Returns****Return type**

DataFrame

**Examples**

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

						( )	(%)		( )
→									
0	123120	300263	AA-	2021-07-30	00:00:00	7.989283		NaN	
→		None		2027-07-30	00:00:00	6	0.40%0.70%1.00%1.60%2....		
1	110081	600745	AA+	2021-07-28	00:00:00	86.000000	0.044030		
→		None		2027-07-28	00:00:00	6	0.10%0.20%0.30%1.50%1.80%...		
2	118001	688598	A+	2021-07-23	00:00:00	5.999010	0.001771		
→		None		2027-07-23	00:00:00	6	0.50%0.70%1.20%1.80%2.40%...		
3	123119	2 300601	AA	2021-07-15	00:00:00	20.000000	0.014182		
→		None		2027-07-15	00:00:00	6	0.30%0.50%1.00% 1.50%1....		
4	113627	603877	AA	2021-07-15	00:00:00	8.000000	0.000542		
→		None		2027-07-15	00:00:00	6	0.30%0.50%1.00%1.50%1.80%...		
..	...	...	...	...	...	...	...	...	
→		...				...	...		
→		...							

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```

80 110227      600227      AAA  2007-10-10 00:00:00  4.500000    0.158854  2007-10-
→23 00:00:00  2009-05-25 00:00:00  1.6192   : 1.5%1.8%2....
81 126006 07  600548      AAA  2007-10-09 00:00:00  15.000000    0.290304  2007-10-
→30 00:00:00  2013-10-09 00:00:00      6
→      None
82 110971      600971      AAA  2007-09-24 00:00:00  4.000000    5.311774  2007-10-
→12 00:00:00  2009-12-21 00:00:00  2.2484   : 1.5%,1.8%,2.1%,2...
83 110567      600567      AA   2007-09-05 00:00:00  4.700000    0.496391  2007-09-
→17 00:00:00  2010-02-01 00:00:00  2.4055   : 1.4%,1.7%,2....
84 110026      600026      AAA  2007-07-02 00:00:00  20.000000    1.333453  2007-07-
→12 00:00:00  2008-03-27 00:00:00  0.737    : 1.84%,2.05%,2.26%,2.47%,...

```

`efinance.bond.get_base_info(bond_codes: Union[str, List[str]]) → Union[DataFrame, Series]`

**Parameters**

**bond\_codes** (`Union[str, List[str]]`) –

**Returns**

- `DataFrame`: `bond_codes`
- `Series`: `bond_codes`

**Return type**

`Union[DataFrame, Series]`

**Examples**

```

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

```

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

`dtype: object`

```

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

```

	...	( )
→		
0	113050 601009 ... 2021-07-01 00:00:00 2027-06-15 00:00:00 6 0.20%0.	
→	40%0.70%1.20%	

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```

1.70%...
1 123111 3 300059 ... 2021-04-23 00:00:00 2027-04-07 00:00:00 6 0.2
→%0.3%0.4%0.8%
1.8%2.0%

```

`efinance.bond.get_deal_detail(bond_code: str, max_count: int = 1000000, **kwargs) → DataFrame`

**Parameters**

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

**Returns****Return type**

DataFrame

**Examples**

```

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

```

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

`efinance.bond.get_history_bill(bond_code: str) → 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[DataFrame,
                                Dict[str, 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(**kwargs) → 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) → 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_deal_detail(quote_id: str, max_count: int = 1000000) → DataFrame`

### Parameters

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

### Returns

#### Return type

DataFrame

## Notes

ID `efinance.futures.get_futures_base_info`

## Examples

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

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

`efinance.futures.get_futures_base_info() → 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) → DataFrame`

### Parameters

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

### Returns

K

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

### Return type

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

## Examples

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

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```
>>> ef.futures.get_quote_history(quote_id)
```

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

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

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

(continues on next page)

(continued from previous page)

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() → DataFrame

**Returns****Return type**

DataFrame

**Examples**

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

												ID
↪												
0	ZCM	6.28	836.6	843.8	796.8	796.8	49.4	-	2.82	-		
↪82954	6850341376.0	793.0				115.ZCM						
1	ZC201	201 6.28	836.6	843.8	796.8	796.8	49.4	-	2.82	-		
↪82954	6850341376.0	793.0				115.ZC201						
2	jm	5.39	2980.0	2982.0	2833.0	2834.0	152.5	-	1.4	-		
↪166433	48567923456.0	2830.5				114.jm						
3	j2201	2201 5.39	2980.0	2982.0	2833.0	2834.0	152.5	-	1.4	-		
↪166433	48567923456.0	2830.5				114.j2201						
4	jmm	5.0	2354.0	2360.0	2221.0	2221.0	112.0	-	1.42	-		
↪238671	32924591872.0	2238.0				114.jmm						
..	...	...	...	...	...	...	...	...	...	...	...	
↪	...	...	...	...	...	...	...	...	...	...	...	
846	jm2109	2109 -2.28	2748.0	2882.5	2688.0	2845.0	-64.0	-	1.85	-		
↪34029	5656982528.0	2866.0				114.jm2109						
847	071108	IH2108 -2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.39	-		
↪14384	13315567616.0	3139.2	918000			8.071108						
848	070131	IH -2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.57	-		
↪14384	13315567616.0	3139.2	918000			8.070131						
849	070120	IH -2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.39	-		
↪14384	13315567616.0	3139.2	918000			8.070120						
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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