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**efinance**

***Release 0.4.9***

**micro sheep**

**Jul 29, 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]

• ()

```
>>> 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_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

```



```
>>> import efinance as ef
>>> #
>>> ef.fund.get_base_info(['161725', '005827'])
0 161725 (LOF)A 2015-05-27 -6.03 1.1959 2021-07-30
1 005827 2018-09-05 -2.98 2.4967 2021-07-30 A+H
```

## 2.3 Bond

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

ID	123015	13.49	198.613	205.0	175.5	23.613	315.36	-	316062
613480512.0	175.0	199056701	199056701	0.123015	A				
123077	9.59	115.51	122.971	105.401	10.11	32.59	-	305380	
358093216.0	105.4	1082332396	1082332396	0.123077	A				
2123066	8.08	232.377	245.8	225.0	17.377	470.3	-	454204	
1081363632.0	215.0	224423665	224423665	0.123066	A				
3128093	7.69	360.751	367.9	335.5	25.751	343.84	-	558874	
1984944768.0	335.0	586364315	586364315	0.128093	A				
4128082	7.41	158.507	163.769	147.089	10.935	103.16	-	226444	
355827984.0	147.572	347931900	347931900	0.128082	A				
...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	
383123087	-4.34	151.75	169.0	150.302	-6.879	117.66	-	520370	
817884784.0	158.629	671147760	671147760	0.123087	A				
384123070	-4.63	175.001	179.799	174.471	-8.499	18.46	-	144998	
257005833.0	183.5	1374730681	1374730681	0.123070	A				
385123027	-4.67	338.413	352.825	338.015	-16.586	44.23	-	47356	
162870853.0	354.999	362300558	362300558	0.123027	A				
386113621	-5.03	215.61	222.5	214.41	-11.41	11.46	-	91710	
200327611.0	227.02	1725268098	1725268098	1.113621	A				
387123047	-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

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```

↪None 2027-07-23 00:00:00 6 0.50%0.70%1.20%1.80%2.40%...
3 123119 2 300601 AA 2021-07-15 00:00:00 20.000000 0.014182
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1....
4 113627 603877 AA 2021-07-15 00:00:00 8.000000 0.000542
↪ None 2027-07-15 00:00:00 6 0.30%0.50%1.00%1.50%1.80%...
.. ... ..
↪ ...
↪ ...
80 110227 600227 AAA 2007-10-10 00:00:00 4.500000 0.158854 2007-10-23
↪00:00:00 2009-05-25 00:00:00 1.6192 :1.5%1.8%2....
81 126006 07 600548 AAA 2007-10-09 00:00:00 15.000000 0.290304 2007-10-30
↪00:00:00 2013-10-09 00:00:00 6
↪None
82 110971 600971 AAA 2007-09-24 00:00:00 4.000000 5.311774 2007-10-12
↪00:00:00 2009-12-21 00:00:00 2.2484 :1.5%,1.8%,2.1%,2...
83 110567 600567 AA 2007-09-05 00:00:00 4.700000 0.496391 2007-09-17
↪00:00:00 2010-02-01 00:00:00 2.4055 :1.4%,1.7%,2....
84 110026 600026 AAA 2007-07-02 00:00:00 20.000000 1.333453 2007-07-12
↪00:00:00 2008-03-27 00:00:00 0.737 :1.84%,2.05%,2.26%,2.47%,...

[585 rows x 12 columns]

```

- K

```

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

0 3 123111 2021-04-23 130.000 130.000 130.000 130.000 1836427 2.387355e+09 0.
↪00 30.00 30.000 11.62
1 3 123111 2021-04-26 130.353 130.010 133.880 125.110 8610944 1.126033e+10 6.
↪75 0.01 0.010 54.50
2 3 123111 2021-04-27 129.000 129.600 130.846 128.400 1820766 2.357472e+09 1.
↪88 -0.32 -0.410 11.52
3 3 123111 2021-04-28 129.100 130.770 131.663 128.903 1467727 1.921641e+09 2.
↪13 0.90 1.170 9.29
4 3 123111 2021-04-29 130.690 131.208 133.150 130.560 1156934 1.525974e+09 1.
↪98 0.33 0.438 7.32
.. ... ..
↪ ...
72 3 123111 2021-08-09 159.600 159.300 162.990 158.690 596124 9.585751e+08 2.
↪69 -0.34 -0.550 3.77
73 3 123111 2021-08-10 159.190 160.950 161.450 157.000 517237 8.234596e+08 2.
↪79 1.04 1.650 3.27
74 3 123111 2021-08-11 161.110 159.850 162.300 159.400 298906 4.800711e+08 1.
↪80 -0.68 -1.100 1.89
75 3 123111 2021-08-12 159.110 158.290 160.368 158.010 270641 4.298100e+08 1.
↪48 -0.98 -1.560 1.71
76 3 123111 2021-08-13 158.000 158.358 160.290 157.850 250059 3.975513e+08 1.
↪54 0.04 0.068 1.58

```

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[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											

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```

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

•

```
cd efinance
pdoc . -d numpy
```

efinance



---

CHAPTER

**FOUR**

---

**CONTACT**





## CHANGELOG

### 5.1 v0.4.9(2022-07-29)

#### 5.1.1 Added

- `get_quote_history`

### 5.2 v0.4.8(2022-06-30)

#### 5.2.1 Fixed

- `stock get_base_info` bug

### 5.3 v0.4.7(2022-06-24)

#### 5.3.1 Added

- `n 1 K`

#### 5.3.2 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.

```

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```

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

[8362 rows x 13 columns]

```

- ETF K

```

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

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

```

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```
↪ 90 5.73 0.089 7.99
```

```
[1102 rows x 13 columns]
```

- 5 K

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

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

```
[1526 rows x 13 columns]
```

- A

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

	ID										
0	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				

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```

4      300985      20.01  47.08  47.08  36.8  39.4  7.85 66.65 2.17 58.37
↳210697  897370992.0 39.23  6277336472  1488300116 0.300985  A
...
↳
4598  603186      -10.0  43.27  44.09  43.27  43.99  -4.81 1.98 0.48 25.24
↳27697  120486294.0 48.08  6146300650  6063519472 1.603186  A
4599  688185  -U  -10.11  476.4  534.94  460.13  530.0  -53.6 6.02 2.74 -2088.07
↳40239  1960540832.0 530.0  117885131884  31831479215 1.688185  A
4600  688148      -10.57  31.3  34.39  31.3  33.9  -3.7 26.07 0.56 220.01
↳188415  620632512.0 35.0  15923562000  2261706043 1.688148  A
4601  300034      -10.96  43.12  46.81  42.88  46.5  -5.31 7.45 1.77 59.49
↳323226  1441101824.0 48.43  20959281094  18706911861 0.300034  A
4602  300712      -13.71  96.9  110.94  95.4  109.0  -15.4 6.96 1.26 511.21
↳126705  1265152928.0 112.3  17645877600  17645877600 0.300712  A

[4603 rows x 18 columns]

```

```

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

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

```

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```

→          30%
74  688667    2021-08-27 149.69% 123.37 -18.8996 17.7701 -2.079877e+06 4.611216e+07
→4.819204e+07 9.430420e+07 268503400 -0.774618 35.122163 1.461225e+09 15%

[75 rows x 16 columns]

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

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

```

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```

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

[3725 rows x 14 columns]

```

• ()

```

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

0      300750      2021-03-18  4.453786e+07   51241536.0 -9.577939e+07  -26680704.0  ␣
↳71218560.0    1.16    1.33    -2.49    -0.69    1.85  335.56  0.84
1      300750      2021-03-19 -6.129661e+08  423235296.0  1.897308e+08 -244136864.0  -
↳368829200.0  -10.13    6.99    3.14    -4.03    -6.09  316.26  -5.75
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

```

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[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	--

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[1507 rows x 4 columns]

•

```
>>> 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
```

•

```
>>> 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 ↪
```

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```

↪162870853.0 354.999 362300558 362300558 0.123027 A
386 113621 -5.03 215.61 222.5 214.41 -11.41 11.46 - 91710 ↪
↪200327611.0 227.02 1725268098 1725268098 1.113621 A
387 123047 -5.7 305.5 319.52 305.382 -18.47 122.41 - 193587 ↪
↪600277600.0 323.97 483119533 483119533 0.123047 A

```

[388 rows x 16 columns]

•

```

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

```

					( )	(%)		( )	↪
↪									
0	123120	300263	AA-	2021-07-30	00:00:00	7.989283		NaN	↪
↪	None	2027-07-30	00:00:00	6	0.40%0.70%1.00%1.60%2.00%				↪
1	110081	600745	AA+	2021-07-28	00:00:00	86.000000	0.044030		↪
↪	None	2027-07-28	00:00:00	6	0.10%0.20%0.30%1.50%1.80%2.00%				↪
2	118001	688598	A+	2021-07-23	00:00:00	5.999010	0.001771		↪
↪	None	2027-07-23	00:00:00	6	0.50%0.70%1.20%1.80%2.40%2.80%				↪
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						

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```

2   3  123111  2021-04-27  129.000  129.600  130.846  128.400  1820766  2.357472e+09  1.
↪88  -0.32  -0.410  11.52
3   3  123111  2021-04-28  129.100  130.770  131.663  128.903  1467727  1.921641e+09  2.
↪13   0.90   1.170   9.29
4   3  123111  2021-04-29  130.690  131.208  133.150  130.560  1156934  1.525974e+09  1.
↪98   0.33   0.438   7.32
..   ...   ...   ...   ...   ...   ...   ...   ...   ...   ...
↪ ...   ...   ...   ...
72  3  123111  2021-08-09  159.600  159.300  162.990  158.690   596124  9.585751e+08  2.
↪69  -0.34  -0.550   3.77
73  3  123111  2021-08-10  159.190  160.950  161.450  157.000   517237  8.234596e+08  2.
↪79   1.04   1.650   3.27
74  3  123111  2021-08-11  161.110  159.850  162.300  159.400   298906  4.800711e+08  1.
↪80  -0.68  -1.100   1.89
75  3  123111  2021-08-12  159.110  158.290  160.368  158.010   270641  4.298100e+08  1.
↪48  -0.98  -1.560   1.71
76  3  123111  2021-08-13  158.000  158.358  160.290  157.850   250059  3.975513e+08  1.
↪54   0.04   0.068   1.58

[77 rows x 13 columns]

```

## Futures

```

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

[851 rows x 4 columns]

```

```

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

```

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```
'115.ZCM'
>>> # ID K
>>> ef.futures.get_quote_history(quote_id)
```

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

```
[1529 rows x 13 columns]

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

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

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```

1526    ZCM  2021-08-19  776.8  777.6  798.0  764.6  97229  7.597474e+09  4.30  0.03  0.
↪2  0.0
1527    ZCM  2021-08-20  778.0  793.0  795.0  775.2  70549  5.553617e+09  2.53  1.48  11.
↪6  0.0
1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28  49.
↪4  0.0

[1529 rows x 13 columns]

```

## API REFERENCE

### Stock

`efinance.stock.get_all_company_performance(date: str = None) → 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.

```

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```

↪ 379727e+07 -14.300000 25.0007 0.1556 3.112413 5.13 23.645137 0.200906
3722 002261 2021-07-15 00:00:00 8.901777e+08 47.505282 24.0732 6.
↪ 071063e+07 68.320000 30.0596 0.0550 2.351598 2.37 37.047968 -0.131873
3723 601952 2021-07-13 00:00:00 4.544138e+09 11.754570 47.8758 3.
↪ 288132e+08 1.460000 83.1486 0.2400 3.888046 6.05 15.491684 -0.173772
3724 601568 2021-07-09 00:00:00 6.031506e+09 32.543303 30.6352 1.
↪ 167989e+09 61.050000 40.8165 0.3200 3.541533 9.01 27.879243 0.389860

```

```

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

0      605033      2021-08-25 00:00:00  2.178208e+08      NaN      NaN  4.319814e+07 ↪
↪      NaN      NaN  0.4300      NaN      NaN  37.250416      NaN
1      301048      2021-07-30 00:00:00  9.165528e+07      NaN      NaN -2.189989e+07 ↪
↪      NaN      NaN      NaN      NaN -1.91  20.227118      NaN
2      001213      2021-07-29 00:00:00  1.343454e+09      NaN      NaN -3.753634e+07 ↪
↪      NaN      NaN -0.0100      NaN      NaN -1.400708      NaN
3      605588      2021-07-28 00:00:00  1.960175e+08      NaN      NaN  1.906751e+07 ↪
↪      NaN      NaN  0.3500      NaN      NaN  16.324650      NaN
4      688798      2021-07-27 00:00:00  2.469943e+08      NaN      NaN  2.707568e+07 ↪
↪      NaN      NaN  0.3300      NaN      NaN  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
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
```

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5	600519	BK0500	HS300_	0.21
6	600519	BK0612	180_	0.18
7	600519	BK0999		0.10
8	600519	BK0610	50_	0.03
9	600519	BK0821	MSCI	-0.12
10	600519	BK0879		-0.37
11	600519	BK0707		-0.45
12	600519	BK1059		-0.46
13	600519	BK0867		-0.68
14	600519	BK0811		-0.74
15	600519	BK0596		-1.38
16	600519	BK0665		-2.19

`efinance.stock.get_daily_billboard(start_date: str = None, end_date: str = None) → 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.
1	000751	2021-08-27	T18.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.
2	000762	2021-08-27	39.42%	63.99	1.0741	15.6463	2.938758e+07	4.
3	000833	2021-08-27	44.55%	8.87	10.0496	8.8263	4.993555e+07	1.
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.

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```

↪634710e+09                20%5
..      ...      ...      ...      ...      ...      ...      .
↪..      ...      ...      ...      ...      ...      ...      ↪
↪      ...      ...      ...
70  688558    2021-08-27    38.71%    60.72    1.6064    34.0104    1.835494e+07    1.
↪057779e+08    8.742293e+07    1.932008e+08    802569300    2.287023    24.072789    2.
↪321743e+09                30%
71  688596    2021-08-27    157.67%    26.72    3.1660    3.9065    -1.371039e+07    8.
↪409046e+07    9.780085e+07    1.818913e+08    745137400    -1.839982    24.410438    4.
↪630550e+09    330%
72  688663    2021-08-27    37.18%    28.17    -17.6316    32.2409    1.036460e+07    5.
↪416901e+07    4.380440e+07    9.797341e+07    274732700    3.772613    35.661358    8.
↪492507e+08                15%
73  688663    2021-08-27    37.18%    28.17    -17.6316    32.2409    1.036460e+07    5.
↪416901e+07    4.380440e+07    9.797341e+07    274732700    3.772613    35.661358    8.
↪492507e+08                30%
74  688667    2021-08-27    149.69%    123.37    -18.8996    17.7701    -2.079877e+06    4.
↪611216e+07    4.819204e+07    9.430420e+07    268503400    -0.774618    35.122163    1.
↪461225e+09                15%

```

```

>>> #
>>> start_date = '2021-08-20' #
>>> end_date = '2021-08-27' #
>>> ef.stock.get_daily_billboard(start_date = start_date,end_date = end_date)
↪
0    000608    2021-08-27    48.36%    3.73    -9.9034    3.8430    -8.709942e+06    1.
↪422786e+07    2.293780e+07    3.716565e+07    110838793    -7.858208    33.531268    2.
↪796761e+09                7%5
1    000751    2021-08-27    118.84%    5.32    -2.9197    19.6505    -1.079219e+08    5.
↪638899e+07    1.643109e+08    2.206999e+08    1462953973    -7.376984    15.085906    7.
↪500502e+09                15%5
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.

```

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```

↪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
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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			
4438	000017 A	21358	-10.800200	-2586.0	2013-06-30 00:00:00	5.943993e+04	↩
	↪14186.140556	1.269518e+09	302987590	2013-08-24 00:00:00			
4439	601992	66736	-12.690355	-9700.0	2013-06-30 00:00:00	2.333339e+05	↩
	↪46666.785918	1.557177e+10	3114354625	2013-08-22 00:00:00			

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

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

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↪ 131250e+06	NaN	61312500	2021-06-30 00:00:00
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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				
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			
...	...	...	...	...	...	...	...	...
↪	...	...	...	...	...	...	...	...

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```

4756      600519  2021-07-23  1937.82  1900.00  1937.82  1895.09  47585  9.
↪057762e+09  2.20 -2.06 -40.01  0.38
4757      600519  2021-07-26  1879.00  1804.11  1879.00  1780.00  98619  1.
↪789436e+10  5.21 -5.05 -95.89  0.79
4758      600519  2021-07-27  1803.00  1712.89  1810.00  1703.00  86577  1.
↪523081e+10  5.93 -5.06 -91.22  0.69
4759      600519  2021-07-28  1703.00  1768.90  1788.20  1682.12  85369  1.
↪479247e+10  6.19  3.27  56.01  0.68
4760      600519  2021-07-29  1810.01  1749.79  1823.00  1734.34  63864  1.
↪129957e+10  5.01 -1.08 -19.11  0.51

```

```

>>> #
>>> stock_df = ef.stock.get_quote_history(['600519', '300750'])
>>> type(stock_df)
<class 'dict'>
>>> stock_df.keys()
dict_keys(['300750', '600519'])
>>> stock_df['600519']

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

```

`efinance.stock.get_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
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
```

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```

4599 688185 -U -10.11 476.4 534.94 460.13 530.0 -53.6 6.02 2.74 -2088.
↪07 40239 1960540832.0 530.0 117885131884 31831479215 1.688185 A
4600 688148 -10.57 31.3 34.39 31.3 33.9 -3.7 26.07 0.56 220.
↪01 188415 620632512.0 35.0 15923562000 2261706043 1.688148 A
4601 300034 -10.96 43.12 46.81 42.88 46.5 -5.31 7.45 1.77 59.
↪49 323226 1441101824.0 48.43 20959281094 18706911861 0.300034 A
4602 300712 -13.71 96.9 110.94 95.4 109.0 -15.4 6.96 1.26 511.
↪21 126705 1265152928.0 112.3 17645877600 17645877600 0.300712 A

```

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

```

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

```

```
>>> 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 - ↪

```

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↪ 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

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

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

**Parameters**

- **fund\_code** (*str*) – 6
- **dates** (*Union[str, List[str]]*, *optional*) –
  - None :
  - '2020-01-01' :
  - ['2020-12-31' , '2019-12-31'] :

**Returns****Return type**

DataFrame

**Examples**

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

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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
```

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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%...
...	...	...	...	...	...	...	...	...	...
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%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

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...	...	...	...	...	...	...
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			
..	...	...	...	...	...	...	...	...	...	...
↪	...	...	...	...	...	...	...	...	...	...
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	

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```

↪ 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
>>> 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								

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

efinance.futures.get\_realtime\_quotes() → 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						

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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						

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