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**efinance**

***Release 0.4.6***

**micro sheep**

**Jun 19, 2022**



# GETTING STARTED

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efinance Python

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## INSTALLATION

- pip

```
pip install efinance
```

- pip

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

- docker

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

- 

```
git clone https://github.com/Micro-sheep/efinance  
cd efinance  
pip install -e .
```





## EXAMPLES

## 2.1 Stock

- K

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

|       |        |            |         |         |         |         |          |              |    |
|-------|--------|------------|---------|---------|---------|---------|----------|--------------|----|
| 0     | 600519 | 2001-08-27 | -89.74  | -89.53  | -89.08  | -90.07  | 406318.0 | 1.410347e+09 | -  |
| →1.10 | 0.92   | 0.83       | 56.83   |         |         |         |          |              |    |
| 1     | 600519 | 2001-08-28 | -89.64  | -89.27  | -89.24  | -89.72  | 129647.0 | 4.634630e+08 | -  |
| →0.54 | 0.29   | 0.26       | 18.13   |         |         |         |          |              |    |
| 2     | 600519 | 2001-08-29 | -89.24  | -89.36  | -89.24  | -89.42  | 53252.0  | 1.946890e+08 | -  |
| →0.20 | -0.10  | -0.09      | 7.45    |         |         |         |          |              |    |
| 3     | 600519 | 2001-08-30 | -89.38  | -89.22  | -89.14  | -89.44  | 48013.0  | 1.775580e+08 | -  |
| →0.34 | 0.16   | 0.14       | 6.72    |         |         |         |          |              |    |
| 4     | 600519 | 2001-08-31 | -89.21  | -89.24  | -89.12  | -89.28  | 23231.0  | 8.623100e+07 | -  |
| →0.18 | -0.02  | -0.02      | 3.25    |         |         |         |          |              |    |
| ...   | ...    | ...        | ...     | ...     | ...     | ...     | ...      | ...          | .. |
| →     | ...    | ...        | ...     | ...     | ...     | ...     | ...      | ...          | .. |
| 4756  | 600519 | 2021-07-23 | 1937.82 | 1900.00 | 1937.82 | 1895.09 | 47585.0  | 9.057762e+09 | └  |
| →2.20 | -2.06  | -40.01     | 0.38    |         |         |         |          |              |    |
| 4757  | 600519 | 2021-07-26 | 1879.00 | 1804.11 | 1879.00 | 1780.00 | 98619.0  | 1.789436e+10 | └  |
| →5.21 | -5.05  | -95.89     | 0.79    |         |         |         |          |              |    |
| 4758  | 600519 | 2021-07-27 | 1803.00 | 1712.89 | 1810.00 | 1703.00 | 86577.0  | 1.523081e+10 | └  |
| →5.93 | -5.06  | -91.22     | 0.69    |         |         |         |          |              |    |
| 4759  | 600519 | 2021-07-28 | 1703.00 | 1768.90 | 1788.20 | 1682.12 | 85369.0  | 1.479247e+10 | └  |
| →6.19 | 3.27   | 56.01      | 0.68    |         |         |         |          |              |    |
| 4760  | 600519 | 2021-07-29 | 1810.01 | 1740.00 | 1823.00 | 1734.34 | 51035.0  | 9.067345e+09 | └  |
| →5.01 | -1.63  | -28.90     | 0.41    |         |         |         |          |              |    |

```
[4761 rows x 13 columns]
```

- A K

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

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```

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

[8744 rows x 13 columns]

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

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

```

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[8362 rows x 13 columns]

- ETF K

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

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

[1102 rows x 13 columns]

- 5 K

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

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

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```

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

```

[1526 rows x 13 columns]

- A

```

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

```

```

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

```

[4603 rows x 18 columns]

```

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

```

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```

>>> ef.stock.get_daily_billboard()

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

[75 rows x 16 columns]

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

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

```

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```

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

[418 rows x 16 columns]

```

• A

```

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

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

```

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[3725 rows x 14 columns]

&gt;&gt;&gt;

• ()

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

|     |        |            |               |             |               |              |                           |
|-----|--------|------------|---------------|-------------|---------------|--------------|---------------------------|
| 0   | 300750 | 2021-03-18 | 4.453786e+07  | 51241536.0  | -9.577939e+07 | -26680704.0  | ↩                         |
|     |        |            | ↩71218560.0   | 1.16        | 1.33          | -2.49        | -0.69 1.85 335.56 0.84    |
| 1   | 300750 | 2021-03-19 | -6.129661e+08 | 423235296.0 | 1.897308e+08  | -244136864.0 | -                         |
|     |        |            | ↩368829200.0  | -10.13      | 6.99          | 3.14         | -4.03 -6.09 316.26 -5.75  |
| 2   | 300750 | 2021-03-22 | -5.674665e+08 | 473253808.0 | 9.421272e+07  | -255868192.0 | -                         |
|     |        |            | ↩311598336.0  | -7.95       | 6.63          | 1.32         | -3.58 -4.37 307.56 -2.75  |
| 3   | 300750 | 2021-03-23 | -3.168412e+08 | 131142880.0 | 1.856984e+08  | -349417168.0 | ↩                         |
|     |        |            | ↩32575936.0   | -6.88       | 2.85          | 4.03         | -7.59 0.71 303.67 -1.26   |
| 4   | 300750 | 2021-03-24 | -5.999049e+08 | 371268928.0 | 2.286360e+08  | -6849616.0   | -                         |
|     |        |            | ↩593055328.0  | -8.18       | 5.06          | 3.12         | -0.09 -8.09 288.55 -4.98  |
| ..  | ...    | ...        | ...           | ...         | ...           | ...          | ↩                         |
|     |        |            | ↩...          | ...         | ...           | ...          | ...                       |
| 97  | 300750 | 2021-08-09 | -1.152779e+09 | -596512.0   | 1.153376e+09  | -370189552.0 | -                         |
|     |        |            | ↩782589456.0  | -12.09      | -0.01         | 12.10        | -3.88 -8.21 516.00 -5.13  |
| 98  | 300750 | 2021-08-10 | -1.009431e+09 | -358999.0   | 1.009790e+09  | -392670720.0 | -                         |
|     |        |            | ↩616759952.0  | -11.03      | -0.00         | 11.03        | -4.29 -6.74 510.50 -1.07  |
| 99  | 300750 | 2021-08-11 | 1.305631e+08  | -475792.0   | -1.300873e+08 | -204097776.0 | ↩                         |
|     |        |            | ↩334660864.0  | 2.25        | -0.01         | -2.25        | -3.52 5.78 517.25 1.32    |
| 100 | 300750 | 2021-08-12 | -1.425337e+09 | -488240.0   | 1.425825e+09  | -454688192.0 | -                         |
|     |        |            | ↩970648896.0  | -16.58      | -0.01         | 16.58        | -5.29 -11.29 502.00 -2.95 |
| 101 | 300750 | 2021-08-13 | -3.111439e+08 | -895641.0   | 3.120392e+08  | -145200128.0 | -                         |
|     |        |            | ↩165943808.0  | -2.21       | -0.01         | 2.22         | -1.03 -1.18 502.05 0.01   |

[102 rows x 15 columns]

• ()

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

|     |        |                  |              |           |             |              |   |
|-----|--------|------------------|--------------|-----------|-------------|--------------|---|
| 0   | 300750 | 2021-08-13 09:31 | -58855676.0  | -171274.0 | 59026945.0  | 22025460.0   | - |
|     |        |                  | ↩80881136.0  |           |             |              |   |
| 1   | 300750 | 2021-08-13 09:32 | -50671227.0  | -190312.0 | 50861534.0  | 8927176.0    | - |
|     |        |                  | ↩59598403.0  |           |             |              |   |
| 2   | 300750 | 2021-08-13 09:33 | -67833979.0  | -190312.0 | 68024288.0  | 34170593.0   | - |
|     |        |                  | ↩102004572.0 |           |             |              |   |
| 3   | 300750 | 2021-08-13 09:34 | -28890553.0  | -220312.0 | 29110861.0  | 16373829.0   | - |
|     |        |                  | ↩45264382.0  |           |             |              |   |
| 4   | 300750 | 2021-08-13 09:35 | -14955904.0  | -482660.0 | 15438561.0  | 14601153.0   | - |
|     |        |                  | ↩29557057.0  |           |             |              |   |
| ..  | ...    | ...              | ...          | ...       | ...         | ...          | ↩ |
|     |        |                  | ↩...         |           |             |              |   |
| 235 | 300750 | 2021-08-13 14:56 | -311695708.0 | -895633.0 | 312591337.0 | -144447542.0 | - |
|     |        |                  | ↩167248166.0 |           |             |              |   |

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```

236      300750  2021-08-13 14:57 -310641455.0 -895633.0  311537085.0 -144697852.0 -
↳165943603.0
237      300750  2021-08-13 14:58 -311143584.0 -895633.0  312039214.0 -145199981.0 -
↳165943603.0
238      300750  2021-08-13 14:59 -311143584.0 -895633.0  312039214.0 -145199981.0 -
↳165943603.0
239      300750  2021-08-13 15:00 -311143584.0 -895633.0  312039214.0 -145199981.0 -
↳165943603.0

```

[240 rows x 8 columns]

## 2.2 Fund

```

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

```

```

0      2021-07-29  1.2726  2.9037  -1.52
1      2021-07-28  1.2922  2.9233   0.85
2      2021-07-27  1.2813  2.9124  -3.6
3      2021-07-26  1.3292  2.9603  -7.24
4      2021-07-23  1.4329  3.0640  -2.29
...
1502  2015-06-08  1.0380  1.0380  2.5692
1503  2015-06-05  1.0120  1.0120  1.5045
1504  2015-06-04  0.9970  0.9970   --
1505  2015-05-29  0.9950  0.9950   --
1506  2015-05-27  1.0000  1.0000   --

```

[1507 rows x 4 columns]

```

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

```

```

0  161725  000858    14.88    1.45
1  161725  600519    14.16   -0.86
2  161725  600809    14.03   -0.83
3  161725  000568    13.02   -2.96
4  161725  002304    12.72    1.31
5  161725  000799     5.77    1.34
6  161725  603369     3.46   -0.48
7  161725  000596     2.81   -0.29
8  161725  600779     2.52    2.52
9  161725  603589     2.48   -0.38

```



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

## 2.3 Bond

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

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

[388 rows x 16 columns]
```

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

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

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```

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

[585 rows x 12 columns]
```

- K

```

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

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

[77 rows x 13 columns]
```

## 2.4 Futures

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

```

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

```

```
[851 rows x 4 columns]
```

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

```

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

```

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```

1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28  49.
↪4  0.0

[1529 rows x 13 columns]

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

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

[1529 rows x 13 columns]

```

API => Docs

sphinx efinance

•

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

•

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

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

docs/build html

pdoc efinance

•

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

•

```
pdoc efinance -d numpy
```

efinance



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CHAPTER

**FOUR**

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**CONTACT**





## CHANGELOG

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

#### 5.1.1 Changed

- stock
- common

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

#### 5.2.1 Fixed

- bond get\_base\_info

### 5.3 Added

futures bond

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

#### 5.4.1 Added

- python3.10

#### 5.4.2 Changed

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

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

### 5.5.1 Added

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

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

### 5.6.1 Changed

- get\_quote\_history kwargs

### 5.6.2 Added

- stock get\_quote\_snapshot 3
- 

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

### 5.7.1 Fixed

- fund bug

### 5.7.2 Added

- A
- 

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

### 5.8.1 Changed

- fund
- common

### 5.8.2 Added

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

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

### 5.9.1 Changed

- `fund`

### 5.9.2 Added

- 
- `ETFLOF`

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

### 5.10.1 Added

- `docker`
- `A`
- `stock`

### 5.10.2 Fixed

- `fund bug`
- `fund bug`

### 5.10.3 Changed

- `efinance.stock.get_all_company_performance`

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

### 5.11.1 Fixed

- 

### 5.11.2 Changed

- 

### 5.11.3 Added

- futures
- 

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

### 5.12.1 Added

- - 
  - common bond stock
  - bond
  -
- 

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

### 5.13.1 Changed

- vscode
- 

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

### 5.14.1 Changed

- 
-

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

### 5.15.1 Added

- sphinx
  - read the docs
- 

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

### 5.16.1 Added

- session

### 5.16.2 Fixed

- 
- 

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

### 5.17.1 Added

- 
- jsonpath

### 5.17.2 Fixed

- 

### Installation

- pip

```
pip install efinance
```

- pip

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

- docker

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

- 

```
git clone https://github.com/Micro-sheep/efinance
cd efinance
pip install -e .
```

## Examples

### Stock

- K

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

|        |        |            |         |         |         |         |          |              |    |
|--------|--------|------------|---------|---------|---------|---------|----------|--------------|----|
| 0      | 600519 | 2001-08-27 | -89.74  | -89.53  | -89.08  | -90.07  | 406318.0 | 1.410347e+09 | -  |
| ↪ 1.10 | 0.92   | 0.83       | 56.83   |         |         |         |          |              |    |
| 1      | 600519 | 2001-08-28 | -89.64  | -89.27  | -89.24  | -89.72  | 129647.0 | 4.634630e+08 | -  |
| ↪ 0.54 | 0.29   | 0.26       | 18.13   |         |         |         |          |              |    |
| 2      | 600519 | 2001-08-29 | -89.24  | -89.36  | -89.24  | -89.42  | 53252.0  | 1.946890e+08 | -  |
| ↪ 0.20 | -0.10  | -0.09      | 7.45    |         |         |         |          |              |    |
| 3      | 600519 | 2001-08-30 | -89.38  | -89.22  | -89.14  | -89.44  | 48013.0  | 1.775580e+08 | -  |
| ↪ 0.34 | 0.16   | 0.14       | 6.72    |         |         |         |          |              |    |
| 4      | 600519 | 2001-08-31 | -89.21  | -89.24  | -89.12  | -89.28  | 23231.0  | 8.623100e+07 | -  |
| ↪ 0.18 | -0.02  | -0.02      | 3.25    |         |         |         |          |              |    |
| ...    | ...    | ...        | ...     | ...     | ...     | ...     | ...      | ...          | .. |
| ↪ .    | ...    | ...        | ...     | ...     | ...     | ...     | ...      | ...          | .. |
| 4756   | 600519 | 2021-07-23 | 1937.82 | 1900.00 | 1937.82 | 1895.09 | 47585.0  | 9.057762e+09 | ↵  |
| ↪ 2.20 | -2.06  | -40.01     | 0.38    |         |         |         |          |              |    |
| 4757   | 600519 | 2021-07-26 | 1879.00 | 1804.11 | 1879.00 | 1780.00 | 98619.0  | 1.789436e+10 | ↵  |
| ↪ 5.21 | -5.05  | -95.89     | 0.79    |         |         |         |          |              |    |
| 4758   | 600519 | 2021-07-27 | 1803.00 | 1712.89 | 1810.00 | 1703.00 | 86577.0  | 1.523081e+10 | ↵  |
| ↪ 5.93 | -5.06  | -91.22     | 0.69    |         |         |         |          |              |    |
| 4759   | 600519 | 2021-07-28 | 1703.00 | 1768.90 | 1788.20 | 1682.12 | 85369.0  | 1.479247e+10 | ↵  |
| ↪ 6.19 | 3.27   | 56.01      | 0.68    |         |         |         |          |              |    |
| 4760   | 600519 | 2021-07-29 | 1810.01 | 1740.00 | 1823.00 | 1734.34 | 51035.0  | 9.067345e+09 | ↵  |
| ↪ 5.01 | -1.63  | -28.90     | 0.41    |         |         |         |          |              |    |

```
[4761 rows x 13 columns]
```

- A K

```

>>> import efinance as ef
>>> #
>>> stock_code = 'AAPL'
>>> ef.stock.get_quote_history(stock_code)
0      AAPL  1984-09-07  -5.37  -5.37  -5.36  -5.37  2981600.0  0.000000e+00  0.
↪00  0.00  0.00  0.02
1      AAPL  1984-09-10  -5.37  -5.37  -5.36  -5.37  2346400.0  0.000000e+00 -0.
↪19  0.00  0.00  0.01
2      AAPL  1984-09-11  -5.36  -5.36  -5.36  -5.36  5444000.0  0.000000e+00  0.
↪00  0.19  0.01  0.03
3      AAPL  1984-09-12  -5.36  -5.37  -5.36  -5.37  4773600.0  0.000000e+00 -0.
↪19 -0.19 -0.01  0.03
4      AAPL  1984-09-13  -5.36  -5.36  -5.36  -5.36  7429600.0  0.000000e+00  0.
↪00  0.19  0.01  0.04
...
↪...
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

```

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```
8361      MSFT  2021-07-28  288.99  286.22  290.15  283.83  3.356685e+07  9.638499e+09  2.
↪21 -0.11 -0.32   0.45
```

```
[8362 rows x 13 columns]
```

- ETF K

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

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

[1102 rows x 13 columns]
```

- 5 K

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

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
```

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```

3      600519  2021-06-16 09:50  2159.61  2148.87  2159.71  2148.87  586.0  127346502.
↪0  0.50 -0.50 -10.84  0.00
4      600519  2021-06-16 09:55  2148.87  2161.04  2163.71  2148.72  788.0  171491075.
↪0  0.70  0.57  12.17  0.01
...      ...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...      ...      ...      ...
1521    600519  2021-07-29 13:50  1746.51  1746.09  1748.95  1746.01  738.0  128889575.
↪0  0.17 -0.09 -1.49  0.01
1522    600519  2021-07-29 13:55  1746.08  1742.01  1746.09  1741.96  831.0  144968679.
↪0  0.24 -0.23 -4.08  0.01
1523    600519  2021-07-29 14:00  1742.00  1739.58  1742.00  1739.58  864.0  150446840.
↪0  0.14 -0.14 -2.43  0.01
1524    600519  2021-07-29 14:05  1741.87  1740.00  1745.00  1738.88  1083.0  188427970.
↪0  0.35  0.02  0.42  0.01
1525    600519  2021-07-29 14:10  1740.00  1740.02  1740.10  1740.00   59.0  10315488.
↪0  0.01  0.00  0.02  0.00

```

[1526 rows x 13 columns]

- A

```

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

```

```

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

```

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

[75 rows x 16 columns]

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

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

```

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```

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

```

[418 rows x 16 columns]

• A

```

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

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

```

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[3725 rows x 14 columns]

&gt;&gt;&gt;

• ()

&gt;&gt;&gt; import efinance as ef

&gt;&gt;&gt; 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]

• ()

&gt;&gt;&gt; import efinance as ef

&gt;&gt;&gt; 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]

## Fund

```

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

```

```

0      2021-07-29  1.2726  2.9037  -1.52
1      2021-07-28  1.2922  2.9233   0.85
2      2021-07-27  1.2813  2.9124  -3.6
3      2021-07-26  1.3292  2.9603  -7.24
4      2021-07-23  1.4329  3.0640  -2.29
...
1502  2015-06-08  1.0380  1.0380  2.5692
1503  2015-06-05  1.0120  1.0120  1.5045
1504  2015-06-04  0.9970  0.9970   --
1505  2015-05-29  0.9950  0.9950   --
1506  2015-05-27  1.0000  1.0000   --

```

[1507 rows x 4 columns]

```

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

```

```

0  161725  000858    14.88    1.45
1  161725  600519    14.16   -0.86
2  161725  600809    14.03   -0.83
3  161725  000568    13.02   -2.96
4  161725  002304    12.72    1.31
5  161725  000799     5.77    1.34
6  161725  603369     3.46   -0.48
7  161725  000596     2.81   -0.29
8  161725  600779     2.52    2.52
9  161725  603589     2.48   -0.38

```

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

## Bond

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

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

[388 rows x 16 columns]
```

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

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

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```

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

[585 rows x 12 columns]

```

- K

```

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

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

[77 rows x 13 columns]

```

## Futures

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

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

```
[851 rows x 4 columns]
```

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

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

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```

1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28  49.
↪4  0.0

[1529 rows x 13 columns]

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

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

[1529 rows x 13 columns]

```

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

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

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

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```

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

```

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```

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

```

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```

1  600519      39.38  12.54      2.198082e+12  2.198082e+12  BK0477  8.29  54.1678  1.
↪ 395446e+10  91.6763

```

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

**Parameters**

`stock_code (str)` –

**Returns****Return type**

DataFrame

**Examples**

```

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

```

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

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

**Parameters**

- `start_date (str, optional)` –

– None ()  
– "2021-08-27" 2021827

- `end_date (str, optional)` –

– None ()  
– "2021-08-31" 2021831

**Returns****Return type**

DataFrame

## Examples

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

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

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

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

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

efinance.stock.get\_deal\_detail(stock\_code: str, max\_count: int = 1000000) → 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
```

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|      |        |         |          |         |     |     |
|------|--------|---------|----------|---------|-----|-----|
| 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 | 1.014016e+07  | -0.12  | -0.01 | 0.13  | -0.19 | 0.08   | 2040.82 | 1.35  |
| 2   | 600519 | 2021-03-08 | -8.001702e+08 | -877074.0   | 8.010473e+08  | 5.670671e+08  | -1.367237e+09 | -6.29  | -0.01 | 6.30  | 4.46  | -10.75 | 1940.71 | -4.91 |
| 3   | 600519 | 2021-03-09 | -2.237770e+08 | -6391767.0  | 2.301686e+08  | -1.795013e+08 | -4.427571e+07 | -1.39  | -0.04 | 1.43  | -1.11 | -0.27  | 1917.70 | -1.19 |
| 4   | 600519 | 2021-03-10 | -2.044173e+08 | -1551798.0  | 2.059690e+08  | -2.378506e+08 | 3.343331e+07  | -2.02  | -0.02 | 2.03  | -2.35 | 0.33   | 1950.72 | 1.72  |
| ... | ...    | ...        | ...           | ...         | ...           | ...           | ...           | ...    | ...   | ...   | ...   | ...    | ...     | ...   |
| 97  | 600519 | 2021-07-26 | -1.564233e+09 | 13142211.0  | 1.551091e+09  | -1.270400e+08 | -1.437193e+09 | -8.74  | 0.07  | 8.67  | -0.71 | -8.03  | 1804.11 | -5.05 |
| 98  | 600519 | 2021-07-27 | -7.803296e+08 | -10424715.0 | 7.907544e+08  | 6.725104e+07  | -8.475807e+08 | -5.12  | -0.07 | 5.19  | 0.44  | -5.56  | 1712.89 | -5.06 |
| 99  | 600519 | 2021-07-28 | 3.997645e+08  | 2603511.0   | -4.023677e+08 | 2.315648e+08  | 1.681997e+08  | 2.70   | 0.02  | -2.72 | 1.57  | 1.14   | 1768.90 | 3.27  |
| 100 | 600519 | 2021-07-29 | -9.209842e+08 | -2312235.0  | 9.232964e+08  | -3.959741e+08 | -5.250101e+08 | -8.15  | -0.02 | 8.17  | -3.50 | -4.65  | 1749.79 | -1.08 |
| 101 | 600519 | 2021-07-30 | -1.524740e+09 | -6020099.0  | 1.530761e+09  | 1.147248e+08  | -1.639465e+09 | -11.63 | -0.05 | 11.68 | 0.88  | -12.51 | 1678.99 | -4.05 |

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

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```

4293  002471      75592  1.026409      768.0  2021-06-30 00:00:00  4.864536e+04  1.
↳677426e+04  3.677200e+09  1268000000  2021-07-12 00:00:00
4294  600093  *ST   52497  -2.118099   -1136.0  2021-06-30 00:00:00  1.267904e+05  ↳
↳2.138117e+04  6.656114e+09  1122447500  2021-07-06 00:00:00
4295  688091      25    0.000000      0.0  2021-06-30 00:00:00      NaN  3.
↳174000e+06      NaN    79350000  2021-07-02 00:00:00
4296  301053      10    0.000000      0.0  2021-06-30 00:00:00      NaN  6.
↳131250e+06      NaN    61312500  2021-06-30 00:00:00

```

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

IPO

**Returns**

IPO

**Return type**

DataFrame

## Examples

```

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

↳
0          ()  2021-10-09 00:00:00  2021-06-24 00:00:00
1          ()  2021-10-09 00:00:00  2020-12-08 00:00:00
2          ()  2021-10-08 00:00:00  2021-09-06 00:00:00↳
↳
3          ()  2021-10-08 00:00:00  2021-06-10 00:00:00
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
```

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|    |        |        |      |
|----|--------|--------|------|
| 8  | 399997 | 603369 | 1.26 |
| 9  | 399997 | 603198 | 0.89 |
| 10 | 399997 | 603589 | 0.67 |
| 11 | 399997 | 000860 | 0.59 |
| 12 | 399997 | 600559 | 0.44 |
| 13 | 399997 | 603919 | 0.39 |
| 14 | 399997 | 600197 | 0.28 |
| 15 | 399997 | 600199 | 0.26 |

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

K

**Parameters**

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

**Returns**

K

- **DataFrame**: stock\_codes str
- **Dict[str, DataFrame]**: stock\_codes List[str]

**Return type**

Union[DataFrame, Dict[str, DataFrame]]

## Examples

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

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

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

|      |             |            |         |         |         |         |        |     |
|------|-------------|------------|---------|---------|---------|---------|--------|-----|
| 0    | 600519      | 2001-08-27 | -89.74  | -89.53  | -89.08  | -90.07  | 406318 | 1.  |
|      | ↪410347e+09 | -1.10      | 0.92    | 0.83    | 56.83   |         |        |     |
| 1    | 600519      | 2001-08-28 | -89.64  | -89.27  | -89.24  | -89.72  | 129647 | 4.  |
|      | ↪634630e+08 | -0.54      | 0.29    | 0.26    | 18.13   |         |        |     |
| 2    | 600519      | 2001-08-29 | -89.24  | -89.36  | -89.24  | -89.42  | 53252  | 1.  |
|      | ↪946890e+08 | -0.20      | -0.10   | -0.09   | 7.45    |         |        |     |
| 3    | 600519      | 2001-08-30 | -89.38  | -89.22  | -89.14  | -89.44  | 48013  | 1.  |
|      | ↪775580e+08 | -0.34      | 0.16    | 0.14    | 6.72    |         |        |     |
| 4    | 600519      | 2001-08-31 | -89.21  | -89.24  | -89.12  | -89.28  | 23231  | 8.  |
|      | ↪623100e+07 | -0.18      | -0.02   | -0.02   | 3.25    |         |        |     |
| ...  | ...         | ...        | ...     | ...     | ...     | ...     | ...    | ... |
|      | ↪...        | ...        | ...     | ...     | ...     |         |        |     |
| 4756 | 600519      | 2021-07-23 | 1937.82 | 1900.00 | 1937.82 | 1895.09 | 47585  | 9.  |
|      | ↪057762e+09 | 2.20       | -2.06   | -40.01  | 0.38    |         |        |     |
| 4757 | 600519      | 2021-07-26 | 1879.00 | 1804.11 | 1879.00 | 1780.00 | 98619  | 1.  |
|      | ↪789436e+10 | 5.21       | -5.05   | -95.89  | 0.79    |         |        |     |

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|             |        |            |         |         |         |         |       |    |
|-------------|--------|------------|---------|---------|---------|---------|-------|----|
| 4758        | 600519 | 2021-07-27 | 1803.00 | 1712.89 | 1810.00 | 1703.00 | 86577 | 1. |
| ↪523081e+10 | 5.93   | -5.06      | -91.22  | 0.69    |         |         |       |    |
| 4759        | 600519 | 2021-07-28 | 1703.00 | 1768.90 | 1788.20 | 1682.12 | 85369 | 1. |
| ↪479247e+10 | 6.19   | 3.27       | 56.01   | 0.68    |         |         |       |    |
| 4760        | 600519 | 2021-07-29 | 1810.01 | 1749.79 | 1823.00 | 1734.34 | 63864 | 1. |
| ↪129957e+10 | 5.01   | -1.08      | -19.11  | 0.51    |         |         |       |    |

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

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```

3          10.0
4           8.0
5          21.0
dtype: object

```

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

**Parameters**

**fs** (Union[str, List[str]], optional) –

- None A
- 'A' A
- 'A' A
- 'A' A
- A A
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- ''
- 'ETF' ETF
- 'LOF' LOF

**Returns****Return type**

DataFrame

**Raises**

**KeyError** – fs

## Examples

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

|      | ID     |        |              |        |              |             |          |        |       |      |        |  |
|------|--------|--------|--------------|--------|--------------|-------------|----------|--------|-------|------|--------|--|
| 0    | 688787 | N      | 277.59       | 139.48 | 172.39       | 139.25      | 171.66   | 102.54 | 85.62 | -    |        |  |
| →    | 78.93  | 74519  | 1110318832.0 | 36.94  | 5969744000   | 1213908667  | 1.688787 | A      |       |      |        |  |
| 1    | 301045 | N      | 149.34       | 39.42  | 48.95        | 39.2        | 48.95    | 23.61  | 66.66 | -    |        |  |
| →    | 37.81  | 163061 | 683878656.0  | 15.81  | 4066344240   | 964237089   | 0.301045 | A      |       |      |        |  |
| 2    | 300532 |        | 20.04        | 12.16  | 12.16        | 10.69       | 10.69    | 2.03   | 8.85  | 3.02 | -22.   |  |
| →    | 72     | 144795 | 171535181.0  | 10.13  | 3322510580   | 1989333440  | 0.300532 | A      |       |      |        |  |
| 3    | 300600 |        | 20.02        | 13.19  | 13.19        | 11.11       | 11.41    | 2.2    | 18.61 | 2.82 | 218.   |  |
| →    | 75     | 423779 | 541164432.0  | 10.99  | 3915421427   | 3003665117  | 0.300600 | A      |       |      |        |  |
| 4    | 300985 |        | 20.01        | 47.08  | 47.08        | 36.8        | 39.4     | 7.85   | 66.65 | 2.17 | 58.    |  |
| →    | 37     | 210697 | 897370992.0  | 39.23  | 6277336472   | 1488300116  | 0.300985 | A      |       |      |        |  |
| ...  | ...    | ...    | ...          | ...    | ...          | ...         | ...      | ...    | ...   | ...  | ...    |  |
| →    | ...    | ...    | ...          | ...    | ...          | ...         | ...      | ...    | ...   | ...  | ...    |  |
| 4598 | 603186 |        | -10.0        | 43.27  | 44.09        | 43.27       | 43.99    | -4.81  | 1.98  | 0.48 | 25.    |  |
| →    | 24     | 27697  | 120486294.0  | 48.08  | 6146300650   | 6063519472  | 1.603186 | A      |       |      |        |  |
| 4599 | 688185 | -U     | -10.11       | 476.4  | 534.94       | 460.13      | 530.0    | -53.6  | 6.02  | 2.74 | -2088. |  |
| →    | 07     | 40239  | 1960540832.0 | 530.0  | 117885131884 | 31831479215 | 1.688185 | A      |       |      |        |  |
| 4600 | 688148 |        | -10.57       | 31.3   | 34.39        | 31.3        | 33.9     | -3.7   | 26.07 | 0.56 | 220.   |  |
| →    | 01     | 188415 | 620632512.0  | 35.0   | 15923562000  | 2261706043  | 1.688148 | A      |       |      |        |  |
| 4601 | 300034 |        | -10.96       | 43.12  | 46.81        | 42.88       | 46.5     | -5.31  | 7.45  | 1.77 | 59.    |  |
| →    | 49     | 323226 | 1441101824.0 | 48.43  | 20959281094  | 18706911861 | 0.300034 | A      |       |      |        |  |
| 4602 | 300712 |        | -13.71       | 96.9   | 110.94       | 95.4        | 109.0    | -15.4  | 6.96  | 1.26 | 511.   |  |
| →    | 21     | 126705 | 1265152928.0 | 112.3  | 17645877600  | 17645877600 | 0.300712 | A      |       |      |        |  |

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

|      | ID       |     |            |       |            |            |           |        |      |       |        |  |
|------|----------|-----|------------|-------|------------|------------|-----------|--------|------|-------|--------|--|
| 0    | 00859    |     | 49.02      | 0.38  | 0.38       | 0.26       | 0.26      | 0.125  | 0.08 | 86.85 | -2.83  |  |
| →    | 938000   |     | 262860.0   | 0.255 | 427510287  | 427510287  | 128.00859 | None   |      |       |        |  |
| 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  |  |
| →    | 200000   |     | 3240.0     | 0.142 | 212400000  | 212400000  | 128.08668 | None   |      |       |        |  |
| 4    | 08413    |     | 24.44      | 0.28  | 0.28       | 0.25       | 0.25      | 0.055  | 0.01 | 3.48  | -20.76 |  |
| →    | 160000   |     | 41300.0    | 0.225 | 325360000  | 325360000  | 128.08413 | None   |      |       |        |  |
| ...  | ...      | ... | ...        | ...   | ...        | ...        | ...       | ...    | ...  | ...   | ...    |  |
| →    | ...      | ... | ...        | ...   | ...        | ...        | ...       | ...    | ...  | ...   | ...    |  |
| 5632 | 08429    |     | -16.75     | 0.174 | 0.2        | 0.166      | 0.2       | -0.035 | 2.48 | 3.52  | -21.58 |  |
| →    | 11895000 |     | 2074645.0  | 0.209 | 83520000   | 83520000   | 128.08429 | None   |      |       |        |  |
| 5633 | 00524    |     | -17.56     | 0.108 | 0.118      | 0.103      | 0.118     | -0.023 | 0.45 | 15.43 | -6.55  |  |
| →    | 5961200  |     | 649171.0   | 0.131 | 141787800  | 141787800  | 128.00524 | None   |      |       |        |  |
| 5634 | 08377    |     | -17.71     | 0.395 | 0.46       | 0.39       | 0.46      | -0.085 | 0.07 | 8.06  | -5.07  |  |
| →    | 290000   |     | 123200.0   | 0.48  | 161611035  | 161611035  | 128.08377 | None   |      |       |        |  |
| 5635 | 00108    |     | -19.01     | 1.15  | 1.42       | 1.15       | 1.42      | -0.27  | 0.07 | 0.78  | 23.94  |  |
| →    | 2376000  |     | 3012080.0  | 1.42  | 3679280084 | 3679280084 | 128.00108 | None   |      |       |        |  |
| 5636 | 08237    |     | -25.0      | 0.024 | 0.031      | 0.023      | 0.031     | -0.008 | 0.43 | 8.74  | -2.01  |  |
| →    | 15008000 |     | 364188.0   | 0.032 | 83760000   | 83760000   | 128.08237 | None   |      |       |        |  |

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

```

      ID
0    513050    ETF  4.49  1.444  1.455  1.433  1.452  0.062  6.71  0.92  -
↳12961671 1870845984.0 1.382 27895816917 27895816917 1.513050 A
1    513360    ETF  4.38  0.5  0.502  0.486  0.487  0.021 16.89  1.7  -
↳1104254 54634387.0 0.479 326856952 326856952 1.513360 A
2    159766    ETF  3.84  0.974  0.988  0.95  0.95  0.036 14.46  1.97  -
↳463730 45254947.0 0.938 312304295 312304295 0.159766 A
3    159865    ETF  3.8  0.819  0.828  0.785  0.791  0.03 12.13  0.89  -
↳1405871 114254714.0 0.789 949594189 949594189 0.159865 A
4    516670    ETF  3.76  0.856  0.864  0.825  0.835  0.031 24.08  0.98  -
↳292027 24924513.0 0.825 103803953 103803953 1.516670 A
...
↳549 513060    ETF -4.12  0.861  0.905  0.86  0.902 -0.037 47.96  1.57  -
↳1620502 141454355.0 0.898 290926128 290926128 1.513060 A
550 515220    ETF -4.46  2.226  2.394  2.194  2.378 -0.104 14.39  0.98  -
↳2178176 487720560.0 2.330 3369247992 3369247992 1.515220 A
551 513000    225ETF -4.49  1.212  1.269  1.21  1.269 -0.057 5.02  2.49  -
↳25819 3152848.0 1.269 62310617 62310617 1.513000 A
552 513880    225ETF -4.59  1.163  1.224  1.162  1.217 -0.056 16.93  0.94  -
↳71058 8336846.0 1.219 48811110 48811110 1.513880 A
553 513520    ETF -4.76  1.2  1.217  1.196  1.217 -0.06 27.7  1.79  -
↳146520 17645828.0 1.260 63464640 63464640 1.513520 A

```

## Notes

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

### Parameters

`stock_code (str)` –

### Returns

### Return type

DataFrame

## Examples

```

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

0    600519  2021-07-29 09:31  -3261705.0  -389320.0  3651025.0  -12529658.0
↳9267953.0
1    600519  2021-07-29 09:32   6437999.0  -606994.0  -5831006.0  -42615994.0
↳49053993.0
2    600519  2021-07-29 09:33  13179707.0  -606994.0  -12572715.0  -85059118.0
↳98238825.0

```

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```

3      600519  2021-07-29  09:34   15385244.0  -970615.0  -14414632.0  -86865209.0  ↪
↪102250453.0
4      600519  2021-07-29  09:35    7853716.0  -970615.0  -6883104.0  -75692436.0  ↪
↪83546152.0
..      ...      ...      ...      ...      ...      ...      ↪
↪      ...
235    600519  2021-07-29  14:56 -918956019.0 -1299630.0  920255661.0 -397127393.0 -
↪521828626.0
236    600519  2021-07-29  14:57 -920977761.0 -2319213.0  923296987.0 -397014702.0 -
↪523963059.0
237    600519  2021-07-29  14:58 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0
238    600519  2021-07-29  14:59 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0
239    600519  2021-07-29  15:00 -920984196.0 -2312233.0  923296442.0 -395974137.0 -
↪525010059.0

```

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

#### Parameters

- `stock_code` (`str`) –
- `top` (`int`, *optional*) – top 10, 4

#### Returns

10

#### Return type

DataFrame

#### Examples

```

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

```

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

## Fund

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

### Parameters

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

### Returns

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

### Return type

Union[Series, DataFrame]

### Raises

**TypeError** – fund\_codes

## Examples

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

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

`efinance.fund.get_fund_codes(ft: str = None) → DataFrame`

### Parameters

**ft** (str, optional) –

- 'zq' :
- 'gp' :
- 'etf' : ETF
- 'hh' :
- 'zs' :
- 'fof' : FOF

- 'qdii': QDII
- None :

**Returns****Return type**

DataFrame

**Examples**

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

0      003834
1      005669
2      004040      A
3      517793      1.20%
4      004041      C
...      ...
1981  012503      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           --
17 161725           --  2021-06-30           --
18 161725           --  2021-06-30           --
19 161725          93.08  2021-06-30  6493286.808514
```

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

### Parameters

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

### Returns

#### Return type

DataFrame

## Examples

```

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

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

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

```

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

## Parameters

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

## Examples

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

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

### Parameters

`fund_code` (str) – 6

### Returns

#### Return type

DataFrame

## Examples

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

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

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

### Parameters

`fund_code` (str) – 6

### Returns

#### Return type

List[str]

## Examples

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

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

### Parameters

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

**Returns****Return type**

DataFrame

**Examples**

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

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

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

**Parameters**`fund_codes(Union[List[str], str]) - 6 6`**Returns****Return type**

DataFrame

**Examples**

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

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

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

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

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

**Parameters**



- `fund_code(str) - 6`
- `dates(Union[List[str], str, None]) - (dates)`
  - None :
  - '2020-01-01' :
  - ['2020-12-31' , '2019-12-31'] :

**Returns****Return type**

DataFrame

**Examples**

```
>>> import efinance as ef
>>> #
>>> public_dates = ef.fund.get_public_dates('005827')
>>> #
>>> dates = public_dates[:2]
>>> ef.fund.get_types_percentage('005827', dates)
      ()
0  005827  94.4  --  6.06  880.1570625231  0
0  005827  94.09 --  7.63  677.007455712  0
```

**Bond**

efinance.bond.get\_all\_base\_info() → DataFrame

**Returns****Return type**

DataFrame

**Examples**

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

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```

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

```

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

**Parameters**

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

**Returns**

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

**Return type**

`Union[DataFrame, Series]`

**Examples**

```

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

```

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

`dtype: object`

```

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

```

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

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```

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

```

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

**Parameters**

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

**Returns****Return type**

DataFrame

**Examples**

```

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

```

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

`efinance.bond.get_history_bill(bond_code: str) → DataFrame`

**Parameters**

- `bond_code` (*str*) –

**Returns****Return type**

DataFrame

## Examples

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

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

K

### Parameters

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

### Returns

K

- **DataFrame** : codes str
- **Dict[str, DataFrame]** : bond\_codes List[str]

### Return type

Union[DataFrame, Dict[str, DataFrame]]

## Examples

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

|     |     |        |            |             |         |         |         |         |     |
|-----|-----|--------|------------|-------------|---------|---------|---------|---------|-----|
| 0   | 3   | 123111 | 2021-04-23 | 130.000     | 130.000 | 130.000 | 130.000 | 1836427 | 2.  |
|     |     |        |            | ↪387355e+09 | 0.00    | 30.00   | 30.000  | 11.62   |     |
| 1   | 3   | 123111 | 2021-04-26 | 130.353     | 130.010 | 133.880 | 125.110 | 8610944 | 1.  |
|     |     |        |            | ↪126033e+10 | 6.75    | 0.01    | 0.010   | 54.50   |     |
| 2   | 3   | 123111 | 2021-04-27 | 129.000     | 129.600 | 130.846 | 128.400 | 1820766 | 2.  |
|     |     |        |            | ↪357472e+09 | 1.88    | -0.32   | -0.410  | 11.52   |     |
| 3   | 3   | 123111 | 2021-04-28 | 129.100     | 130.770 | 131.663 | 128.903 | 1467727 | 1.  |
|     |     |        |            | ↪921641e+09 | 2.13    | 0.90    | 1.170   | 9.29    |     |
| 4   | 3   | 123111 | 2021-04-29 | 130.690     | 131.208 | 133.150 | 130.560 | 1156934 | 1.  |
|     |     |        |            | ↪525974e+09 | 1.98    | 0.33    | 0.438   | 7.32    |     |
| ... | ... | ...    | ...        | ...         | ...     | ...     | ...     | ...     | ... |
|     |     |        |            | ↪...        | ...     | ...     | ...     | ...     |     |
| 72  | 3   | 123111 | 2021-08-09 | 159.600     | 159.300 | 162.990 | 158.690 | 596124  | 9.  |
|     |     |        |            | ↪585751e+08 | 2.69    | -0.34   | -0.550  | 3.77    |     |
| 73  | 3   | 123111 | 2021-08-10 | 159.190     | 160.950 | 161.450 | 157.000 | 517237  | 8.  |
|     |     |        |            | ↪234596e+08 | 2.79    | 1.04    | 1.650   | 3.27    |     |
| 74  | 3   | 123111 | 2021-08-11 | 161.110     | 159.850 | 162.300 | 159.400 | 298906  | 4.  |
|     |     |        |            | ↪800711e+08 | 1.80    | -0.68   | -1.100  | 1.89    |     |
| 75  | 3   | 123111 | 2021-08-12 | 159.110     | 158.290 | 160.368 | 158.010 | 270641  | 4.  |
|     |     |        |            | ↪298100e+08 | 1.48    | -0.98   | -1.560  | 1.71    |     |
| 76  | 3   | 123111 | 2021-08-13 | 158.000     | 158.358 | 160.290 | 157.850 | 250059  | 3.  |
|     |     |        |            | ↪975513e+08 | 1.54    | 0.04    | 0.068   | 1.58    |     |

`efinance.bond.get_realtime_quotes(**kwargs) → DataFrame`

### Returns

#### Return type

DataFrame

## Examples

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

|     | ID     |         |              |        |            |            |          |         |       |
|-----|--------|---------|--------------|--------|------------|------------|----------|---------|-------|
| 0   | 123051 | 24.03   | 158.66       | 165.0  | 134.0      | 134.0      | 30.74    | 496.74  | 67.16 |
|     | ↪-     | 1388341 | 2185911136.0 | 127.92 | 443443594  | 443443594  | 0.123051 | A       |       |
| 1   | 123042 | 16.04   | 219.309      | 224.0  | 193.11     | 194.5      | 30.309   | 1833.99 | 1.34  |
|     | ↪-     | 3042265 | 6402014720.0 | 189.0  | 363794813  | 363794813  | 0.123042 | A       |       |
| 2   | 113034 | 13.49   | 247.71       | 255.62 | 214.5      | 214.5      | 29.45    | 334.56  | 2.96  |
|     | ↪-     | 1585993 | 3798255024.0 | 218.26 | 1174284861 | 1174284861 | 1.113034 | A       |       |
| 3   | 128064 | 11.29   | 148.01       | 150.34 | 133.007    | 133.73     | 15.01    | 277.06  | 7.04  |
|     | ↪-     | 887301  | 1305800336.0 | 133.0  | 474009426  | 474009426  | 0.128064 | A       |       |
| 4   | 113027 | 8.38    | 129.86       | 130.2  | 122.3      | 123.0      | 10.04    | 83.84   | 4.15  |
|     | ↪-     | 272641  | 346817120.0  | 119.82 | 422273164  | 422273164  | 1.113027 | A       |       |
| ... | ...    | ...     | ...          | ...    | ...        | ...        | ...      | ...     | ...   |
|     | ↪      | ...     | ...          | ...    | ...        | ...        | ...      | ...     | ...   |

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

efinance.bond.get\_today\_bill(bond\_code: str) → DataFrame

**Parameters****bond\_code** (str) –**Returns****Return type**

DataFrame

**Examples**

```

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

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

```

## Futures

`efinance.futures.get_deal_detail(quote_id: str, max_count: int = 1000000) → DataFrame`

### Parameters

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

### Returns

#### Return type

DataFrame

## Notes

ID `efinance.futures.get_futures_base_info`

## Examples

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

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

`efinance.futures.get_futures_base_info() → DataFrame`

### Returns

#### Return type

DataFrame

## Examples

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

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

## Notes

ID `efinance.futures.get_quote_history`

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

### Parameters

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

### Returns

K

- DataFrame: secids str
- Dict[str, DataFrame]: quote\_ids List[str]

### Return type

Union[DataFrame, Dict[str, DataFrame]]

## Examples

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

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

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

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

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

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|      |      |            |       |       |       |       |       |              |      |    |
|------|------|------------|-------|-------|-------|-------|-------|--------------|------|----|
| 1527 | ZCM  | 2021-08-20 | 778.0 | 793.0 | 795.0 | 775.2 | 70549 | 5.553617e+09 | 2.53 | 1. |
| →48  | 11.6 | 0.0        |       |       |       |       |       |              |      |    |
| 1528 | ZCM  | 2021-08-23 | 796.8 | 836.6 | 843.8 | 796.8 | 82954 | 6.850341e+09 | 5.97 | 6. |
| →28  | 49.4 | 0.0        |       |       |       |       |       |              |      |    |

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

## Returns

### Return type

## DataFrame

## Examples

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

|  | ID |
|--|----|
| 0 ZCM 6.28 836.6 843.8 796.8 796.8 49.4 - 2.82 -                   |    |
| 82954 6850341376.0 793.0 - - 115.ZCM                               |    |
| 1 ZC201 201 6.28 836.6 843.8 796.8 796.8 49.4 - 2.82 -             |    |
| 82954 6850341376.0 793.0 - - 115.ZC201                             |    |
| 2 jm 5.39 2980.0 2982.0 2833.0 2834.0 152.5 - 1.4 -                |    |
| 166433 48567923456.0 2830.5 - - 114.jm                             |    |
| 3 j2201 2201 5.39 2980.0 2982.0 2833.0 2834.0 152.5 - 1.4 -        |    |
| 166433 48567923456.0 2830.5 - - 114.j2201                          |    |
| 4 jmm 5.0 2354.0 2360.0 2221.0 2221.0 112.0 - 1.42 -               |    |
| 238671 32924591872.0 2238.0 - - 114.jmm                            |    |
| .. ... ..  |    |
| 846 jm2109 2109 -2.28 2748.0 2882.5 2688.0 2845.0 -64.0 - 1.85 -   |    |
| 34029 5656982528.0 2866.0 - - 114.jm2109                           |    |
| 847 071108 IH2108 -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.39 - |    |
| 14384 13315567616.0 3139.2 918000 - 8.071108                       |    |
| 848 070131 IH -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.57 -     |    |
| 14384 13315567616.0 3139.2 918000 - 8.070131                       |    |
| 849 070120 IH -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.39 -     |    |
| 14384 13315567616.0 3139.2 918000 - 8.070120                       |    |
| 850 lu2109 2109 -3.79 3123.0 3127.0 3121.0 3121.0 -123.0 - -       |    |
| 22 687420.0 3143.0 - - 142.lu2109                                  |    |

## Notes

ID, efinance.futures.get\_realtime\_quotes efinance.futures.get\_quote\_history K

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