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**efinance**

***Release 0.3.7***

**micro sheep**

**Aug 31, 2021**



# 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%... ↪
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```

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```

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

[585 rows x 12 columns]

```

- K

```

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

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

[77 rows x 13 columns]

```

## 2.4 Futures

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

```

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

```

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

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

```

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

```

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```

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

[1529 rows x 13 columns]

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

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

[1529 rows x 13 columns]

```

API => Docs

sphinx efinance

•

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

•

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

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

docs/build html

pdoc efinance

•

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

•

```
pdoc efinance -d numpy
```

efinance



---

CHAPTER

**FOUR**

---

**CONTACT**





## CHANGELOG

### 5.1 v0.3.7

### 5.2 Add

- docker
- A
- stock

### 5.3 Fixed

- fund bug
- fund bug

### 5.4 Change

- `efinance.stock.get_all_company_performance`

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

### 5.6 Fixed

-

## 5.7 Changed

- 

## 5.8 Added

- futures
- 

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

### 5.9.1 Added

- - 
  - common bond stock
  - bond
  -
- 

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

### 5.10.1 Changed

- vscode
- 

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

### 5.11.1 Changed

- 
-

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

### 5.12.1 Added

- sphinx
  - read the docs
- 

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

### 5.13.1 Added

- session

### 5.13.2 Fixed

- 
- 

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

### 5.14.1 Added

- 
- jsonpath

### 5.14.2 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;

• ()

```
>>> 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]

## 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) → pandas.core.frame.DataFrame`

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

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

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

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

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

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

0	605033	2021-08-25 00:00:00	2.178208e+08	NaN	NaN	4.319814e+07
↪	NaN	NaN	0.4300	NaN	NaN	37.250416
1	301048	2021-07-30 00:00:00	9.165528e+07	NaN	NaN	-2.189989e+07
↪	NaN	NaN	NaN	-1.91	20.227118	NaN
2	001213	2021-07-29 00:00:00	1.343454e+09	NaN	NaN	-3.753634e+07
↪	NaN	NaN	-0.0100	NaN	NaN	-1.400708
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()` → `pandas.core.frame.DataFrame`

## Returns

**Return type** `DataFrame`

## Examples

```

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

0    2021-06-30    2021
1    2021-03-31    2021
2    2020-12-31    2020
3    2020-09-30    2020
4    2020-06-30    2020
5    2020-03-31    2020
6    2019-12-31    2019
7    2019-09-30    2019
8    2019-06-30    2019
9    2019-03-31    2019
10   2018-12-31    2018
11   2018-09-30    2018
12   2018-06-30    2018
13   2018-03-31    2018
14   2017-12-31    2017
15   2017-09-30    2017
16   2017-06-30    2017
17   2017-03-31    2017
18   2016-12-31    2016
19   2016-09-30    2016
20   2016-06-30    2016
21   2016-03-31    2016
22   2015-12-31    2015
24   2015-06-30    2015
25   2015-03-31    2015
26   2014-12-31    2014
27   2014-09-30    2014
28   2014-06-30    2014

```

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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[pandas.core.series.Series, pandas.core.frame.DataFrame]`

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

**Returns**

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

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

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

## Examples

```

>>> import efinance as ef
>>> #
>>> ef.stock.get_base_info('600519')
        600519
()
        39.38
        12.54

        2198082348462.0
        2198082348462.0
        BK0477
ROE
        8.29
        54.1678
        13954462085.610001
        91.6763
dtype: object

```

```

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

```

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

### Parameters

- **start\_date** (*str, optional*) –
  - None ()
  - "2021-08-27" 2021827
- **end\_date** (*str, optional*) –
  - None ()
  - "2021-08-31" 2021831

### Returns

**Return type** DataFrame

### Examples

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

0	000608	2021-08-27	48.36%	3.73	-9.9034	3.8430	-8.709942e+06	1.
	422786e+07	2.293780e+07	3.716565e+07	110838793	-7.858208	33.531268	2.	
	796761e+09		7%5					
1	000751	2021-08-27	T18.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.
	638899e+07	1.643109e+08	2.206999e+08	1462953973	-7.376984	15.085906	7.	
	500502e+09		15%5					
2	000762	2021-08-27	39.42%	63.99	1.0741	15.6463	2.938758e+07	4.
	675541e+08	4.381665e+08	9.057206e+08	4959962598	0.592496	18.260633	3.	
	332571e+10		15%5					
3	000833	2021-08-27	44.55%	8.87	10.0496	8.8263	4.993555e+07	1.
	292967e+08	7.936120e+07	2.086580e+08	895910429	5.573721	23.290046	3.	
	353614e+09		20%					
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.
	537821e+08	1.132295e+08	2.670117e+08	1203913048	3.368398	22.178651	2.	
	634710e+09		20%5					
...	...	...	...	...	...	...	...	.
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
70	688558	2021-08-27	38.71%	60.72	1.6064	34.0104	1.835494e+07	1.
	057779e+08	8.742293e+07	1.932008e+08	802569300	2.287023	24.072789	2.	
	321743e+09		30%					
71	688596	2021-08-27	157.67%	26.72	3.1660	3.9065	-1.371039e+07	8.
	409046e+07	9.780085e+07	1.818913e+08	745137400	-1.839982	24.410438	4.	
	630550e+09		330%					
72	688663	2021-08-27	37.18%	28.17	-17.6316	32.2409	1.036460e+07	5.
	416901e+07	4.380440e+07	9.797341e+07	274732700	3.772613	35.661358	8.	
	492507e+08		15%					
73	688663	2021-08-27	37.18%	28.17	-17.6316	32.2409	1.036460e+07	5.
	416901e+07	4.380440e+07	9.797341e+07	274732700	3.772613	35.661358	8.	
	492507e+08		30%					

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```

74 688667      2021-08-27 149.69% 123.37 -18.8996 17.7701 -2.079877e+06 4.
↪611216e+07 4.819204e+07 9.430420e+07 268503400 -0.774618 35.122163 1.
↪461225e+09 15%

```

```

>>> #
>>> start_date = '2021-08-20' #
>>> end_date = '2021-08-27' #
>>> ef.stock.get_daily_billboard(start_date = start_date,end_date = end_date)
↪
0 000608      2021-08-27 48.36% 3.73 -9.9034 3.8430 -8.709942e+06 1.
↪422786e+07 2.293780e+07 3.716565e+07 110838793 -7.858208 33.531268 2.
↪796761e+09 7%5
1 000751      2021-08-27 T18.84% 5.32 -2.9197 19.6505 -1.079219e+08 5.
↪638899e+07 1.643109e+08 2.206999e+08 1462953973 -7.376984 15.085906 7.
↪500502e+09 15%5
2 000762      2021-08-27 39.42% 63.99 1.0741 15.6463 2.938758e+07 4.
↪675541e+08 4.381665e+08 9.057206e+08 4959962598 0.592496 18.260633 3.
↪332571e+10 15%5
3 000833      2021-08-27 44.55% 8.87 10.0496 8.8263 4.993555e+07 1.
↪292967e+08 7.936120e+07 2.086580e+08 895910429 5.573721 23.290046 3.
↪353614e+09 20%
4 001208      2021-08-27 140.43% 19.72 4.3386 46.1985 4.055258e+07 1.
↪537821e+08 1.132295e+08 2.670117e+08 1203913048 3.368398 22.178651 2.
↪634710e+09 20%5
.. ...
↪...
↪...
414 605580      2021-08-20 33.33% 13.28 10.0249 0.4086 2.413149e+06 2.
↪713051e+06 2.999022e+05 3.012953e+06 2713051 88.945937 111.054054 6.
↪640000e+08 7%
415 688029      2021-08-20 455.82% 204.61 -18.5340 8.1809 -1.412053e+08 1.
↪883342e+08 3.295394e+08 5.178736e+08 762045800 -18.529760 67.958326 9.
↪001510e+09 15%
416 688408      2021-08-20 447.86% 179.98 -0.0666 15.3723 -4.336304e+07 3.
↪750919e+08 4.184550e+08 7.935469e+08 846547400 -5.122340 93.739221 5.
↪695886e+09 30%
417 688556      2021-08-20 60.21% 51.97 17.0495 10.6452 -3.940045e+07 1.
↪642095e+08 2.036099e+08 3.678194e+08 575411600 -6.847351 63.922831 5.
↪739089e+09 15%
418 688636      2021-08-20 247.37% 161.90 15.8332 11.9578 2.922406e+07 6.
↪598126e+07 3.675721e+07 1.027385e+08 188330100 15.517464 54.552336 1.
↪647410e+09 15%

```

`efinance.stock.get_history_bill(stock_code: str) → pandas.core.frame.DataFrame`

**Parameters** `stock_code (str)` –

**Returns**

**Return type** DataFrame

## Examples

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

0	600519	2021-03-04	-3.670272e+06	-2282056.0	5.952143e+06	1.461528e+09	-1.465199e+09	-0.03	-0.02	0.04	10.99	-11.02	2013.71	-5.05
1	600519	2021-03-05	-1.514880e+07	-1319066.0	1.646793e+07	-2.528896e+07	1.014016e+07	-0.12	-0.01	0.13	-0.19	0.08	2040.82	1.35
2	600519	2021-03-08	-8.001702e+08	-877074.0	8.010473e+08	5.670671e+08	-1.367237e+09	-6.29	-0.01	6.30	4.46	-10.75	1940.71	-4.91
3	600519	2021-03-09	-2.237770e+08	-6391767.0	2.301686e+08	-1.795013e+08	-4.427571e+07	-1.39	-0.04	1.43	-1.11	-0.27	1917.70	-1.19
4	600519	2021-03-10	-2.044173e+08	-1551798.0	2.059690e+08	-2.378506e+08	3.343331e+07	-2.02	-0.02	2.03	-2.35	0.33	1950.72	1.72
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
97	600519	2021-07-26	-1.564233e+09	13142211.0	1.551091e+09	-1.270400e+08	-1.437193e+09	-8.74	0.07	8.67	-0.71	-8.03	1804.11	-5.05
98	600519	2021-07-27	-7.803296e+08	-10424715.0	7.907544e+08	6.725104e+07	-8.475807e+08	-5.12	-0.07	5.19	0.44	-5.56	1712.89	-5.06
99	600519	2021-07-28	3.997645e+08	2603511.0	-4.023677e+08	2.315648e+08	1.681997e+08	2.70	0.02	-2.72	1.57	1.14	1768.90	3.27
100	600519	2021-07-29	-9.209842e+08	-2312235.0	9.232964e+08	-3.959741e+08	-5.250101e+08	-8.15	-0.02	8.17	-3.50	-4.65	1749.79	-1.08
101	600519	2021-07-30	-1.524740e+09	-6020099.0	1.530761e+09	1.147248e+08	-1.639465e+09	-11.63	-0.05	11.68	0.88	-12.51	1678.99	-4.05

efinance.stock.get\_latest\_holder\_number() → pandas.core.frame.DataFrame

A

Returns A

Return type DataFrame

## Examples

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

0	688981	347706	-3.459784	-12461.0	2021-06-30 00:00:00	3.446469e+05
	5575.005896	1.198358e+11	1938463000	2021-08-28 00:00:00		
1	688819	36749	-11.319981	-4691.0	2021-06-30 00:00:00	1.176868e+06
	26452.420474	4.324873e+10	9721000000	2021-08-28 00:00:00		
2	688575	7347	-74.389989	-21341.0	2021-06-30 00:00:00	2.447530e+06
	55124.540629	1.798200e+10	4050000000	2021-08-28 00:00:00		
3	688538	383993	-70.245095	-906527.0	2021-06-30 00:00:00	1.370180e+05
	35962.732719	5.261396e+10	13809437625	2021-08-28 00:00:00		
4	688425	311356	-64.684452	-570284.0	2021-06-30 00:00:00	1.010458e+05
	16510.746541	3.146121e+10	5140720000	2021-08-28 00:00:00		
...	...	...	...	...	...	...
400	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		

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```

401 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
402 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
403 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
404 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

```

`efinance.stock.get_latest_quote(stock_codes: List[str]) → pandas.core.frame.DataFrame`

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

**Returns**

**Return type** `DataFrame`

## Examples

```

>>> import efinance as ef
>>> ef.stock.get_latest_quote(['600519', '300750'])
↵
↪
0 600519      0.59 1700.04 1713.0 1679.0 1690.0 10.04 0.30 0.72 43.31  ↵
↪ 37905 6.418413e+09 1690.0 2135586507912 2135586507912  A
1 300750      0.01 502.05 529.9 480.0 480.0 0.05 1.37 1.75 149.57  ↵
↪ 277258 1.408545e+10 502.0 1169278366994 1019031580505  A

```

## Notes

A `efinance.stock.get_realtime_quotes`

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

K

**Parameters**

- `stock_codes` (`Union[str, List[str]]`) –
- `beg` (`str`, optional) – '19000101' 190011
- `end` (`str`, optional) – '20500101' 205011
- `klt` (`int`, optional) – 101
  - 1:
  - 5: 5
  - 15: 15
  - 30: 30

- 60 : 60
- 101 :
- 102 :
- 103 :
- `fqt(int, optional) - 1`
- 0 :
- 1 :
- 2 :

**Returns**

K

- `DataFrame: stock_codes str`
- `Dict[str, DataFrame]: stock_codes List[str]`

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

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

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

```
>>> #
>>> stock_df = ef.stock.get_quote_history(['600519', '300750'])
>>> type(stock_df)
```

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```

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

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

```

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

**Returns** A

**Return type** DataFrame

## 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
...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...      ...      ...      ...      ...      ...

```

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4598	603186	-10.0	43.27	44.09	43.27	43.99	-4.81	1.98	0.48	25.
↪24	27697	120486294.0	48.08	6146300650	6063519472	1.603186	A			
4599	688185	-U -10.11	476.4	534.94	460.13	530.0	-53.6	6.02	2.74	-2088.
↪07	40239	1960540832.0	530.0	117885131884	31831479215	1.688185	A			
4600	688148	-10.57	31.3	34.39	31.3	33.9	-3.7	26.07	0.56	220.
↪01	188415	620632512.0	35.0	15923562000	2261706043	1.688148	A			
4601	300034	-10.96	43.12	46.81	42.88	46.5	-5.31	7.45	1.77	59.
↪49	323226	1441101824.0	48.43	20959281094	18706911861	0.300034	A			
4602	300712	-13.71	96.9	110.94	95.4	109.0	-15.4	6.96	1.26	511.
↪21	126705	1265152928.0	112.3	17645877600	17645877600	0.300712	A			

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

**Parameters** `stock_code (str)` –

**Returns**

**Return type** `DataFrame`

### Examples

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

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

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

**Parameters**

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

**Returns** 10

**Return type** DataFrame

### Examples

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

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

### Fund

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

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

**Returns**

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

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

**Raises** **TypeError** – fund\_codes

### Examples

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

	161725
(LOF)A	
2015-05-27	
-6.03	
1.1959	

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2021-07-30

dtype: object

```

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

```

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

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

**Parameters** `ft` (`str`, optional) –

- 'zq' :
- 'gp' :
- None :

**Returns**

**Return type** DataFrame

## Examples

```

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

```

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

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

**Parameters**

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

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

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

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

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

**Parameters**

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

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

## Examples

```

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

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

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

```

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

## Parameters

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

### Examples

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

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

**Parameters** `fund_code (str)` – 6

**Returns**

**Return type** DataFrame

### Examples

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

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

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

**Parameters** `fund_code (str)` – 6

**Returns**

**Return type** List[str]

### Examples

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

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

**Parameters**

- `fund_code (str)` – 6

- `pz(int, optional) - , 40000`

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

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

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

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

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

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

0  161725  (LOF)A  -0.64  2021-06-15  11:13
>>> #
>>> ef.fund.get_realtime_increase_rate(['161725', '005827'])

0  161725  (LOF)A  -0.60  2021-06-15  11:16
1  005827          -1.36  2021-06-15  11:16
```

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

**Parameters**

- `fund_code` (`str`) – 6
- `dates` (`Union[List[str], str, None]`) – ( dates )

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

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

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

**Bond**

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

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

```
>>> import efinance as ef
>>> ef.bond.get_all_base_info()
      () (%)      ()
↪
0  123120   300263   AA-  2021-07-30 00:00:00   7.989283      NaN      ↪
↪      None  2027-07-30 00:00:00      6   0.40%0.70%1.00%1.60%2.... ↪
1  110081   600745   AA+  2021-07-28 00:00:00   86.000000   0.044030      ↪
↪      None  2027-07-28 00:00:00      6   0.10%0.20%0.30%1.50%1.80%... ↪
2  118001   688598   A+   2021-07-23 00:00:00   5.999010   0.001771      ↪
↪      None  2027-07-23 00:00:00      6   0.50%0.70%1.20%1.80%2.40%... ↪
3  123119   2 300601   AA  2021-07-15 00:00:00   20.000000   0.014182      ↪
↪      None  2027-07-15 00:00:00      6   0.30%0.50%1.00% 1.50%1.... ↪
4  113627   603877   AA  2021-07-15 00:00:00   8.000000   0.000542      ↪
↪      None  2027-07-15 00:00:00      6   0.30%0.50%1.00%1.50%1.80%... ↪
..      ...      ...      ...      ...      ...      ...      ...      ↪
↪      ...      ...      ...      ...      ...      ...      ...      ↪
↪      ...      ...      ...      ...      ...      ...      ...      ↪
80 110227   600227   AAA  2007-10-10 00:00:00   4.500000   0.158854  2007-10- ↪
↪23 00:00:00  2009-05-25 00:00:00   1.6192   : 1.5%1.8%2.... ↪
81 126006  07 600548   AAA  2007-10-09 00:00:00  15.000000   0.290304  2007-10- ↪
↪30 00:00:00  2013-10-09 00:00:00      6      (continues on next page) ↪
↪      None
```



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```

82 110971      600971      AAA  2007-09-24 00:00:00  4.000000  5.311774  2007-10-
→12 00:00:00  2009-12-21 00:00:00  2.2484   :1.5%,1.8%,2.1%,2...
83 110567      600567      AA   2007-09-05 00:00:00  4.700000  0.496391  2007-09-
→17 00:00:00  2010-02-01 00:00:00  2.4055   :1.4%,1.7%,2...
84 110026      600026      AAA  2007-07-02 00:00:00  20.000000  1.333453  2007-07-
→12 00:00:00  2008-03-27 00:00:00   0.737    :1.84%,2.05%,2.26%,2.47%,...
```

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

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

**Returns**

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

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

## Examples

```

>>> import efinance as ef
>>> #
>>> ef.bond.get_base_info('123111')
                                     123111
                                     3
                                     300059
                                     AA+
2021-04-07 00:00:00
()
158
(%) 0.05877
2021-04-23 00:00:00
2027-04-07 00:00:00
()
0.2%0.3%0.4%0.8%1.8%2.0%
dtype: object
```

```

>>>
>>> bond_codes = ['123111', '113050']
>>> ef.bond.get_base_info(bond_codes)
...
→
0 113050 601009 ... 2021-07-01 00:00:00 2027-06-15 00:00:00 6 0.20%0.
→40%0.70%1.20%
1.70%...
1 123111 3 300059 ... 2021-04-23 00:00:00 2027-04-07 00:00:00 6 0.2
→%0.3%0.4%0.8%
1.8%2.0%
```

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

**Parameters** `bond_code` (*str*) –

**Returns**

**Return type** `DataFrame`

### Examples

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

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

K

**Parameters**

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

**Returns**

K

- `DataFrame`: codes *str*
- `Dict[str, DataFrame]`: `bond_codes` *List[str]*

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

## Examples

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

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

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

## Returns

Return type DataFrame

## Examples

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

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

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

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

**Parameters** `bond_code` (*str*) –

**Returns**

**Return type** `DataFrame`

### Examples

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

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

## Futures

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

### Returns

**Return type** `DataFrame`

### Examples

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

### Notes

ID `efinance.futures.get_quote_history`

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

### Parameters

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

- 103:
- `fqt(int, optional) - 1`
- 0:
- 1:
- 2:

### Returns

K

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

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

### Examples

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

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

```

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

```

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

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

### Returns

**Return type** DataFrame

### Examples

```

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

```

	ID
0	ZCM 6.28 836.6 843.8 796.8 796.8 49.4 - 2.82 -
→82954	6850341376.0 793.0 - - 115.ZCM
1	ZC201 201 6.28 836.6 843.8 796.8 796.8 49.4 - 2.82 -
→82954	6850341376.0 793.0 - - 115.ZC201
2	jm 5.39 2980.0 2982.0 2833.0 2834.0 152.5 - 1.4 -
→166433	48567923456.0 2830.5 - - 114.jm
3	j2201 2201 5.39 2980.0 2982.0 2833.0 2834.0 152.5 - 1.4 -
→166433	48567923456.0 2830.5 - - 114.j2201

(continues on next page)

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```

4      jmm      5.0 2354.0 2360.0 2221.0 2221.0 112.0 - 1.42 -  L
↪238671 32924591872.0 2238.0 - - 114.jmm
..      ...      ...      ...      ...      ...      ...      ...      ...      ...      ...      L
↪      ...      ...      ...      ...      ...      ...      ...      ...      ...      ...      ...      L
846 jm2109      2109 -2.28 2748.0 2882.5 2688.0 2845.0 -64.0 - 1.85 -  L
↪34029 5656982528.0 2866.0 - - 114.jm2109
847 071108      IH2108 -2.52 3060.0 3130.0 3043.0 3111.2 -79.0 - 0.39 -  L
↪ 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 -  L
↪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 -  L
↪14384 13315567616.0 3139.2 918000 - 8.070120
850 lu2109      2109 -3.79 3123.0 3127.0 3121.0 3121.0 -123.0 - - -  L
↪22      687420.0 3143.0 - - 142.lu2109

```

## Notes

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



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