
efinance

Release 0.4.4

micro sheep

Apr 30, 2022

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efinance Python

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-

INSTALLATION

- pip

```
pip install efinance
```

- pip

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

- docker

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

-

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


EXAMPLES

2.1 Stock

- K

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

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

[4761 rows x 13 columns]

- A K

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

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```

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

[8744 rows x 13 columns]

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

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

```

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[8362 rows x 13 columns]

- ETF K

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

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

[1102 rows x 13 columns]

- 5 K

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

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

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```

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

```

[1526 rows x 13 columns]

- A

```

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

```

```

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

```

[4603 rows x 18 columns]

-

```

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

```

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```

>>> ef.stock.get_daily_billboard()

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

[75 rows x 16 columns]

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

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

```

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```

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

[418 rows x 16 columns]

```

• A

```

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

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

```

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[3725 rows x 14 columns]

>>>

• ()

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

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

[102 rows x 15 columns]

• ()

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

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

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```

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

```

[240 rows x 8 columns]

2.2 Fund

```

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

```

```

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

```

[1507 rows x 4 columns]

```

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

```

```

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

```



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

2.3 Bond

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

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

[388 rows x 16 columns]

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

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

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```

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

[585 rows x 12 columns]

```

- K

```

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

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

[77 rows x 13 columns]

```

2.4 Futures

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

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

[851 rows x 4 columns]

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

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

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```

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

[1529 rows x 13 columns]

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

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

[1529 rows x 13 columns]

```

API => Docs

sphinx efinance

•

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

•

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

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

docs/build.html

pdoc efinance

•

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

•

```
pdoc efinance -d numpy
```

efinance

CHAPTER

FOUR

CONTACT

CHANGELOG

5.1 v0.4.4(2022-04-29)

5.1.1 Added

- python3.10

5.1.2 Changed

- stock get_belong_plate get_belong_board

5.2 v0.4.3(2022-04-28)

5.2.1 Added

- stock get_belong_plate
- stock get_deal_detail

5.3 v0.4.2(2022-03-07)

5.3.1 Changed

- get_quote_history kwargs

5.3.2 Added

- stock get_quote_snapshot 3

5.4 v0.4.0(2021-12-02)

5.4.1 Fiexd

- fund bug

5.4.2 Added

- A
-

5.5 v0.3.9(2021-10-23)

5.5.1 Changed

- fund
- common

5.5.2 Added

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

5.6 v0.3.8(2021-09-18)

5.6.1 Changed

- fund

5.6.2 Added

-
- ETFLOF

5.7 v0.3.7(2021-08-30)

5.7.1 Added

- docker
- A
- stock

5.7.2 Fixed

- fund bug
- fund bug

5.7.3 Changed

- `efinance.stock.get_all_company_performance`

5.8 v0.3.6 (2021-08-21)

5.8.1 Fixed

-

5.8.2 Changed

-

5.8.3 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						

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```

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

[4761 rows x 13 columns]

```

- A K

```

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

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

[8744 rows x 13 columns]

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

0      MSFT 1986-03-13 -20.74 -20.73 -20.73 -20.74 1.031789e+09 0.000000e+00 0.
↪00 0.00 0.00 13.72

```

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```

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

```

- ETF K

```

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

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

```

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[1102 rows x 13 columns]

- 5 K

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

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

[1526 rows x 13 columns]

- A

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

	ID										
↪											
0	688787	N	277.59	139.48	172.39	139.25	171.66	102.54	85.62	-	78.93
↪	74519	1110318832.0	36.94	5969744000	1213908667	1.688787	A				
1	301045	N	149.34	39.42	48.95	39.2	48.95	23.61	66.66	-	37.81
↪	163061	683878656.0	15.81	4066344240	964237089	0.301045	A				
2	300532		20.04	12.16	12.16	10.69	10.69	2.03	8.85	3.02	-22.72
↪	144795	171535181.0	10.13	3322510580	1989333440	0.300532	A				
3	300600		20.02	13.19	13.19	11.11	11.41	2.2	18.61	2.82	218.75
↪	423779	541164432.0	10.99	3915421427	3003665117	0.300600	A				
4	300985		20.01	47.08	47.08	36.8	39.4	7.85	66.65	2.17	58.37
↪	210697	897370992.0	39.23	6277336472	1488300116	0.300985	A				

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```
[4603 rows x 18 columns]
```

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```
[75 rows x 16 columns]
```

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

0	000608	2021-08-27	48.36%	3.73	-9.9034	3.8430	-8.709942e+06	1.
	422786e+07	2.293780e+07	3.716565e+07	110838793	-7.858208	33.531268	2.	
	796761e+09		7%5					
1	000751	2021-08-27	T18.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.
	638899e+07	1.643109e+08	2.206999e+08	1462953973	-7.376984	15.085906	7.	
	500502e+09		15%5					
2	000762	2021-08-27	39.42%	63.99	1.0741	15.6463	2.938758e+07	4.675541e+08
	4.381665e+08	9.057206e+08	4959962598	0.592496	18.260633	3.332571e+10		
			15%5					
3	000833	2021-08-27	44.55%	8.87	10.0496	8.8263	4.993555e+07	1.292967e+08
	7.936120e+07	2.086580e+08	895910429	5.573721	23.290046	3.353614e+09	20%	
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.537821e+08
	1.132295e+08	2.670117e+08	1203913048	3.368398	22.178651	2.634710e+09		
			20%5					
..
414	605580	2021-08-20	33.33%	13.28	10.0249	0.4086	2.413149e+06	2.
	713051e+06	2.999022e+05	3.012953e+06	2713051	88.945937	111.054054	6.	
	640000e+08		7%					
415	688029	2021-08-20	455.82%	204.61	-18.5340	8.1809	-1.412053e+08	1.883342e+08
	3.295394e+08	5.178736e+08	762045800	-18.529760	67.958326	9.001510e+09	15%	
416	688408	2021-08-20	447.86%	179.98	-0.0666	15.3723	-4.336304e+07	3.
	750919e+08	4.184550e+08	7.935469e+08	846547400	-5.122340	93.739221	5.	
	695886e+09		30%					
417	688556	2021-08-20	60.21%	51.97	17.0495	10.6452	-3.940045e+07	1.642095e+08
	2.036099e+08	3.678194e+08	575411600	-6.847351	63.922831	5.739089e+09	15%	
418	688636	2021-08-20	247.37%	161.90	15.8332	11.9578	2.922406e+07	6.
	598126e+07	3.675721e+07	1.027385e+08	188330100	15.517464	54.552336	1.	
	647410e+09		15%					

```
[418 rows x 16 columns]
```

• A

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

0	688981	2021-08-28 00:00:00	1.609039e+10	22.253453	20.6593	5.241321e+09	
	278.100000	307.8042	0.6600	11.949525	5.20	26.665642	1.182556
1	688819	2021-08-28 00:00:00	1.625468e+10	9.343279	23.9092	6.719446e+08	-
	14.890000	-36.8779	0.7100	11.902912	6.15	17.323263	-1.562187
2	688789	2021-08-28 00:00:00	4.555604e+08	56.418441	6.5505	1.076986e+08	
	49.360000	-7.3013	1.8900	14.926761	13.51	43.011243	1.421272

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```

3      688681      2021-08-28 00:00:00  1.503343e+08  17.706987  121.9407  1.664509e+07  -
↳13.100000  383.3331  0.2100  5.232517  4.84  47.455511 -0.232395
4      688670      2021-08-28 00:00:00  3.209423e+07 -63.282413 -93.1788 -2.330505e+07 -
↳242.275001 -240.1554 -0.3500  3.332254 -10.10  85.308531  1.050348
...
...
3720   600131      2021-07-16 00:00:00  2.880378e+09  6.787087  69.5794  2.171389e+08  ↳
↳29.570000  296.2051  0.1800  4.063260  4.57  19.137437 -0.798689
3721   600644      2021-07-15 00:00:00  1.257030e+09  18.079648  5.7300  8.379727e+07  -
↳14.300000  25.0007  0.1556  3.112413  5.13  23.645137  0.200906
3722   002261      2021-07-15 00:00:00  8.901777e+08  47.505282  24.0732  6.071063e+07  ↳
↳68.320000  30.0596  0.0550  2.351598  2.37  37.047968 -0.131873
3723   601952      2021-07-13 00:00:00  4.544138e+09  11.754570  47.8758  3.288132e+08  ↳
↳1.460000  83.1486  0.2400  3.888046  6.05  15.491684 -0.173772
3724   601568      2021-07-09 00:00:00  6.031506e+09  32.543303  30.6352  1.167989e+09  ↳
↳61.050000  40.8165  0.3200  3.541533  9.01  27.879243  0.389860

[3725 rows x 14 columns]
>>>

```

• ()

```

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

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

[102 rows x 15 columns]

```

• ()

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

0	300750	2021-08-13 09:31	-58855676.0	-171274.0	59026945.0	22025460.0	-
			↪80881136.0				
1	300750	2021-08-13 09:32	-50671227.0	-190312.0	50861534.0	8927176.0	-
			↪59598403.0				
2	300750	2021-08-13 09:33	-67833979.0	-190312.0	68024288.0	34170593.0	-
			↪102004572.0				
3	300750	2021-08-13 09:34	-28890553.0	-220312.0	29110861.0	16373829.0	-
			↪45264382.0				
4	300750	2021-08-13 09:35	-14955904.0	-482660.0	15438561.0	14601153.0	-
			↪29557057.0				
...
			↪				
235	300750	2021-08-13 14:56	-311695708.0	-895633.0	312591337.0	-144447542.0	-
			↪167248166.0				
236	300750	2021-08-13 14:57	-310641455.0	-895633.0	311537085.0	-144697852.0	-
			↪165943603.0				
237	300750	2021-08-13 14:58	-311143584.0	-895633.0	312039214.0	-145199981.0	-
			↪165943603.0				
238	300750	2021-08-13 14:59	-311143584.0	-895633.0	312039214.0	-145199981.0	-
			↪165943603.0				
239	300750	2021-08-13 15:00	-311143584.0	-895633.0	312039214.0	-145199981.0	-
			↪165943603.0				

[240 rows x 8 columns]

Fund

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

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

[1507 rows x 4 columns]

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

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

•

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

Bond

•

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

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

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```

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

[388 rows x 16 columns]

```

•

```

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

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

[585 rows x 12 columns]

```

• K

```

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

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

```

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```

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

[77 rows x 13 columns]

```

Futures

•

```

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

[851 rows x 4 columns]

```

•

```

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

```

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```

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

[1529 rows x 13 columns]

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

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

```

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

```
[1529 rows x 13 columns]
```

API REFERENCE

Stock

`efinance.stock.get_all_company_performance(date: str = None) → pandas.core.frame.DataFrame`

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

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

Returns

Return type DataFrame

Examples

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

0      688981    2021-08-28 00:00:00  1.609039e+10  22.253453  20.6593  5.
↳241321e+09  278.100000  307.8042  0.6600  11.949525  5.20  26.665642  1.182556
1      688819    2021-08-28 00:00:00  1.625468e+10  9.343279  23.9092  6.
↳719446e+08 -14.890000 -36.8779  0.7100  11.902912  6.15  17.323263 -1.562187
2      688789    2021-08-28 00:00:00  4.555604e+08  56.418441  6.5505  1.
↳076986e+08  49.360000 -7.3013  1.8900  14.926761  13.51  43.011243  1.421272
3      688681    2021-08-28 00:00:00  1.503343e+08  17.706987  121.9407  1.
↳664509e+07 -13.100000  383.3331  0.2100  5.232517  4.84  47.455511 -0.232395
4      688670    2021-08-28 00:00:00  3.209423e+07 -63.282413 -93.1788 -2.
↳330505e+07 -242.275001 -240.1554 -0.3500  3.332254 -10.10  85.308531  1.050348
...      ...      ...      ...      ...      ...      ...
↳ ...      ...      ...      ...      ...      ...      ...
3720  600131    2021-07-16 00:00:00  2.880378e+09  6.787087  69.5794  2.
↳171389e+08  29.570000  296.2051  0.1800  4.063260  4.57  19.137437 -0.798689
3721  600644    2021-07-15 00:00:00  1.257030e+09  18.079648  5.7300  8.
↳379727e+07 -14.300000  25.0007  0.1556  3.112413  5.13  23.645137  0.200906
3722  002261    2021-07-15 00:00:00  8.901777e+08  47.505282  24.0732  6.
↳071063e+07  68.320000  30.0596  0.0550  2.351598  2.37  37.047968 -0.131873
3723  601952    2021-07-13 00:00:00  4.544138e+09  11.754570  47.8758  3.
↳288132e+08  1.460000  83.1486  0.2400  3.888046  6.05  15.491684 -0.173772
3724  601568    2021-07-09 00:00:00  6.031506e+09  32.543303  30.6352  1.
↳167989e+09  61.050000  40.8165  0.3200  3.541533  9.01  27.879243  0.389860
```

```

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

0      605033      2021-08-25 00:00:00  2.178208e+08      NaN      NaN  4.319814e+07
→      NaN      NaN  0.4300      NaN      NaN  37.250416      NaN
1      301048      2021-07-30 00:00:00  9.165528e+07      NaN      NaN -2.189989e+07
→      NaN      NaN      NaN      NaN -1.91  20.227118      NaN
2      001213      2021-07-29 00:00:00  1.343454e+09      NaN      NaN -3.753634e+07
→      NaN      NaN -0.0100      NaN      NaN -1.400708      NaN
3      605588      2021-07-28 00:00:00  1.960175e+08      NaN      NaN  1.906751e+07
→      NaN      NaN  0.3500      NaN      NaN  16.324650      NaN
4      688798      2021-07-27 00:00:00  2.469943e+08      NaN      NaN  2.707568e+07
→      NaN      NaN  0.3300      NaN      8.16  33.641934      NaN
...      ...      ...      ...      ...      ...      ...
→ ...      ...      ...      ...      ...      ...      ...
4440  603186      2020-04-09 00:00:00  4.117502e+08 -6.844813 -23.2633  1.763252e+07
→  18.870055 -26.3345  0.1400  5.878423  2.35  18.861255  0.094249
4441  002838      2020-04-09 00:00:00  6.191659e+08 -8.019810 -16.5445  6.939886e+07
→  91.601624  76.7419  0.1700  2.840665  6.20  22.575224  0.186421
4442  600396      2020-04-08 00:00:00  2.023133e+09  0.518504 -3.0629  1.878432e+08
→  114.304022  61.2733  0.1275  1.511012  8.81  21.422393  0.085698
4443  002913      2020-04-08 00:00:00  4.898977e+08 -3.883035 -23.2268  2.
→  524717e+07 -47.239162 -58.8136  0.1700  16.666749  1.03  22.470020  0.552624
4444  002007      2020-04-08 00:00:00  6.775414e+08 -2.622289 -36.1714  2.472864e+08
→ -4.708821 -22.6345  0.1354  4.842456  3.71  61.408522  0.068341

```

Notes

`efinance.stock.get_all_report_dates`

`efinance.stock.get_all_report_dates()` → `pandas.core.frame.DataFrame`

Returns

Return type `DataFrame`

Examples

```

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

0      2021-06-30      2021
1      2021-03-31      2021
2      2020-12-31      2020
3      2020-09-30      2020
4      2020-06-30      2020
5      2020-03-31      2020
6      2019-12-31      2019
7      2019-09-30      2019
8      2019-06-30      2019
9      2019-03-31      2019
10     2018-12-31      2018

```

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

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

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

Returns

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

Return type `Union[Series, DataFrame]`

Raises `TypeError` – `stock_codes`

Examples

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

()          39.38
           12.54
```

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```

2198082348462.0
2198082348462.0
BK0477
ROE 8.29
54.1678
13954462085.610001
91.6763
dtype: object

```

```

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

```

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

Parameters `stock_code (str)` –

Returns

Return type `DataFrame`

Examples

```

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

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

```

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

Parameters

- **start_date**(*str*, *optional*) –
 - None ()
 - "2021-08-27" 2021827
- **end_date**(*str*, *optional*) –
 - None ()
 - "2021-08-31" 2021831

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

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

0	000608	2021-08-27	48.36%	3.73	-9.9034	3.8430	-8.709942e+06	1.
	422786e+07	2.293780e+07	3.716565e+07	110838793	-7.858208	33.531268	2.	
	796761e+09		7%5					
1	000751	2021-08-27	T18.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.
	638899e+07	1.643109e+08	2.206999e+08	1462953973	-7.376984	15.085906	7.	
	500502e+09		15%5					
2	000762	2021-08-27	39.42%	63.99	1.0741	15.6463	2.938758e+07	4.
	675541e+08	4.381665e+08	9.057206e+08	4959962598	0.592496	18.260633	3.	
	332571e+10		15%5					
3	000833	2021-08-27	44.55%	8.87	10.0496	8.8263	4.993555e+07	1.
	292967e+08	7.936120e+07	2.086580e+08	895910429	5.573721	23.290046	3.	
	353614e+09		20%					
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.
	537821e+08	1.132295e+08	2.670117e+08	1203913048	3.368398	22.178651	2.	
	634710e+09		20%5					
..
→
→
70	688558	2021-08-27	38.71%	60.72	1.6064	34.0104	1.835494e+07	1.
	057779e+08	8.742293e+07	1.932008e+08	802569300	2.287023	24.072789	2.	
	321743e+09		30%					
71	688596	2021-08-27	157.67%	26.72	3.1660	3.9065	-1.371039e+07	8.
	409046e+07	9.780085e+07	1.818913e+08	745137400	-1.839982	24.410438	4.	
	630550e+09		330%					
72	688663	2021-08-27	37.18%	28.17	-17.6316	32.2409	1.036460e+07	5.
	416901e+07	4.380440e+07	9.797341e+07	274732700	3.772613	35.661358	8.	
	492507e+08		15%					
73	688663	2021-08-27	37.18%	28.17	-17.6316	32.2409	1.036460e+07	5.
	416901e+07	4.380440e+07	9.797341e+07	274732700	3.772613	35.661358	8.	
	492507e+08		30%					
74	688667	2021-08-27	149.69%	123.37	-18.8996	17.7701	-2.079877e+06	4.
	611216e+07	4.819204e+07	9.430420e+07	268503400	-0.774618	35.122163	1.	
	461225e+09		15%					

```

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

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

```

`efinance.stock.get_deal_detail(stock_code: str, max_count: int = 1000000) → pandas.core.frame.DataFrame`

Parameters

- **stock_code** (*str*) –
- **max_count** (*int*, *optional*) –, 1000000

Returns

Return type DataFrame

Examples

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

0      600519  1794.92  09:15:03  1794.92    5    0
1      600519  1794.92  09:15:06  1809.00   21    0
2      600519  1794.92  09:15:09  1809.00   24    0
3      600519  1794.92  09:15:12  1802.00   29    0
4      600519  1794.92  09:15:15  1804.60   30    0
...      ...      ...      ...      ...      ...
4592     600519  1794.92  14:56:52  1830.88   14   13
4593     600519  1794.92  14:56:55  1830.88   10    9
4594     600519  1794.92  14:56:58  1830.89   10   10
4595     600519  1794.92  14:57:02  1830.80    2    1
4596     600519  1794.92  15:00:00  1835.00  893  406
```

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

Parameters `stock_code (str)` –

Returns

Return type DataFrame

Examples

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

0      600519  2021-03-04 -3.670272e+06 -2282056.0  5.952143e+06  1.461528e+09 -1.
↪ 465199e+09   -0.03   -0.02    0.04    10.99   -11.02  2013.71  -5.05
1      600519  2021-03-05 -1.514880e+07 -1319066.0  1.646793e+07 -2.528896e+07  1.
↪ 014016e+07   -0.12   -0.01    0.13   -0.19    0.08  2040.82  1.35
2      600519  2021-03-08 -8.001702e+08 -877074.0  8.010473e+08  5.670671e+08 -1.
↪ 367237e+09   -6.29   -0.01    6.30    4.46  -10.75  1940.71 -4.91
3      600519  2021-03-09 -2.237770e+08 -6391767.0  2.301686e+08 -1.795013e+08 -4.
↪ 427571e+07   -1.39   -0.04    1.43   -1.11   -0.27  1917.70 -1.19
4      600519  2021-03-10 -2.044173e+08 -1551798.0  2.059690e+08 -2.378506e+08  3.
↪ 343331e+07   -2.02   -0.02    2.03   -2.35    0.33  1950.72  1.72
..      ...      ...      ...      ...      ...      ...      ...
↪
97     600519  2021-07-26 -1.564233e+09  13142211.0  1.551091e+09 -1.270400e+08 -1.
↪ 437193e+09   -8.74    0.07    8.67   -0.71   -8.03  1804.11 -5.05
98     600519  2021-07-27 -7.803296e+08 -10424715.0  7.907544e+08  6.725104e+07 -8.
↪ 475807e+08   -5.12   -0.07    5.19    0.44   -5.56  1712.89 -5.06
99     600519  2021-07-28  3.997645e+08  2603511.0 -4.023677e+08  2.315648e+08  1.
↪ 681997e+08    2.70    0.02   -2.72    1.57    1.14  1768.90  3.27
100    600519  2021-07-29 -9.209842e+08 -2312235.0  9.232964e+08 -3.959741e+08 -5.
↪ 250101e+08   -8.15   -0.02    8.17   -3.50   -4.65  1749.79 -1.08
101    600519  2021-07-30 -1.524740e+09 -6020099.0  1.530761e+09  1.147248e+08 -1.
↪ 639465e+09  -11.63   -0.05   11.68    0.88  -12.51  1678.99 -4.05
```

`efinance.stock.get_latest_holder_number(date: str = None) → pandas.core.frame.DataFrame`

A

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

- None
- '2021-06-30' 2021
- '2021-03-31' 2021

Returns A

Return type DataFrame

Examples

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

0	301029	12021	-1.636527	-200.0	2021-09-30 00:00:00	2.790187e+06	
	33275.933783	3.354084e+10	400010000		2021-10-09 00:00:00		
1	301006	10964	-0.463005	-51.0	2021-09-30 00:00:00	3.493433e+05	
	12703.392922	3.830200e+09	139280000		2021-10-09 00:00:00		
2	301003	11642	-2.658863	-318.0	2021-09-30 00:00:00	2.613041e+05	
	5004.867463	3.042103e+09	58266667		2021-10-09 00:00:00		
3	300851	12858	-2.752987	-364.0	2021-09-30 00:00:00	2.177054e+05	
	6761.035931	2.799255e+09	86933400		2021-10-09 00:00:00		
4	300830	34535	-16.670688	-6909.0	2021-09-30 00:00:00	2.001479e+05	
	12454.756045	6.912109e+09	430125000		2021-10-09 00:00:00		
...
4435	600618	45372	-0.756814	-346.0	2014-06-30 00:00:00	1.227918e+05	
	16526.491581	5.571311e+09	749839976		2014-08-22 00:00:00		
4436	601880	89923	-3.589540	-3348.0	2014-03-31 00:00:00	9.051553e+04	
	37403.111551	8.139428e+09	3363400000		2014-04-30 00:00:00		
4437	600685	52296	-4.807325	-2641.0	2014-03-11 00:00:00	1.315491e+05	
	8384.263691	6.879492e+09	438463454		2014-03-18 00:00:00		
4438	000017 A	21358	-10.800200	-2586.0	2013-06-30 00:00:00	5.943993e+04	
	14186.140556	1.269518e+09	302987590		2013-08-24 00:00:00		
4439	601992	66736	-12.690355	-9700.0	2013-06-30 00:00:00	2.333339e+05	
	46666.785918	1.557177e+10	3114354625		2013-08-22 00:00:00		

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

0	688768	24	0.000000	0.0	2021-06-30 00:00:00	NaN	1.
	714395e+06	NaN	41145491		2021-08-31 00:00:00		
1	688669	8355	-11.135929	-1047.0	2021-06-30 00:00:00	3.662956e+05	1.
	117096e+04	3.060400e+09	93333334		2021-08-31 00:00:00		
2	688613	8768	-71.573999	-22077.0	2021-06-30 00:00:00	1.380627e+06	1.
	520681e+04	1.210533e+10	133333334		2021-08-31 00:00:00		
3	688586	20436	-5.642257	-1222.0	2021-06-30 00:00:00	5.508121e+05	1.
	975653e+04	1.125640e+10	403744467		2021-08-31 00:00:00		

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```

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

```

`efinance.stock.get_latest_ipo_info()` → `pandas.core.frame.DataFrame`

IPO

Returns IPO

Return type DataFrame

Examples

```

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

↳
0      ()  2021-10-09 00:00:00  2021-06-24 00:00:00
1      ()  2021-10-09 00:00:00  2020-12-08 00:00:00
2      ()  2021-10-08 00:00:00  2021-09-06 00:00:00
↳
3      ()  2021-10-08 00:00:00  2021-06-10 00:00:00
4      ()  2021-10-08 00:00:00  2021-06-24 00:00:00
...      ...      ...      ...      ...      ...
↳...      ...      ...      ...      ...      ...
1376      ()  2019-06-26 00:00:00  2019-04-01 00:00:00
1377      ()  2019-06-24 00:00:00  2019-04-15 00:00:00
1378      ()  2019-06-20 00:00:00  2019-04-02 00:00:00
1379      ()  2019-06-18 00:00:00  2019-03-22 00:00:00
1380      ()  2019-06-18 00:00:00  2019-03-27 00:00:00

```

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

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

Returns

Return type DataFrame

Examples

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

0	600519	0.59	1700.04	1713.0	1679.0	1690.0	10.04	0.30	0.72	43.31
37905	6.418413e+09	1690.0	2135586507912	2135586507912	A					
1	300750	0.01	502.05	529.9	480.0	480.0	0.05	1.37	1.75	149.57
277258	1.408545e+10	502.0	1169278366994	1019031580505	A					

Notes

A `efinance.stock.get_realtime_quotes`

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

Parameters `index_code (str)` –

Returns

Return type DataFrame

Examples

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

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

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

0	399997	600519	49.25
1	399997	000858	18.88
2	399997	600809	8.45
3	399997	000568	7.03
4	399997	002304	5.72
5	399997	000596	2.76
6	399997	000799	1.77
7	399997	600779	1.36
8	399997	603369	1.26
9	399997	603198	0.89

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10	399997	603589	0.67
11	399997	000860	0.59
12	399997	600559	0.44
13	399997	603919	0.39
14	399997	600197	0.28
15	399997	600199	0.26

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

K

Parameters

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

Returns

K

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

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

Examples

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

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

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

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

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

`efinance.stock.get_quote_snapshot(stock_code: str) → pandas.core.series.Series`

Parameters `stock_code (str)` –

Return type Series

Examples

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

15:59:30
-73.5
-4.13
1707.0
1780.5
1760.2
1760.2
1768.0
1703.8
1726.65
1958.55
1602.45
0.39
49156
8487507456
1      1708.0
2      1708.75
4      1709.6
5      1709.63
1      1707.0
2      1706.99
3      1706.88
4      1706.87
5      1706.86
1         3.0
2         2.0
3        39.0
4         3.0
5         1.0
1        17.0
2         8.0
3        10.0
4         8.0
```

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```
5          21.0
dtype: object
```

`efinance.stock.get_realtime_quotes(fs: Union[str, List[str]] = None) → pandas.core.frame.DataFrame`

Parameters `fs` (Union[str, List[str]], optional) –

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

Returns

Return type DataFrame

Raises **KeyError** – fs

Examples

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

```

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

```

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

```

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

```

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

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

Notes

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

Parameters `stock_code (str)` –

Returns

Return type `DataFrame`

Examples

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

0	600519	2021-07-29 09:31	-3261705.0	-389320.0	3651025.0	-12529658.0
9267953.0						
1	600519	2021-07-29 09:32	6437999.0	-606994.0	-5831006.0	-42615994.0
49053993.0						
2	600519	2021-07-29 09:33	13179707.0	-606994.0	-12572715.0	-85059118.0
98238825.0						
3	600519	2021-07-29 09:34	15385244.0	-970615.0	-14414632.0	-86865209.0
102250453.0						

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```

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

```

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

Parameters

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

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

```

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

```

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

Fund

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

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

Returns

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

Return type `Union[Series, DataFrame]`

Raises `TypeError` – `fund_codes`

Examples

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

dtype: object
```

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

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

Parameters `ft` (`str`, optional) –

- `'zq'` :
- `'gp'` :
- `'etf'` : ETF
- `'hh'` :
- `'zs'` :
- `'fof'` : FOF
- `'qdii'` : QDII
- `None` :

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

```

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

```

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

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

Parameters

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

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

```

>>> import efinance as ef
>>> #
>>> public_dates = ef.fund.get_public_dates('161725')
>>> #
>>> dates = public_dates[:1]
>>> ef.fund.get_industry_distribution('161725', dates)

```

0	161725	93.07	2021-06-30	6492580.019556
1	161725	0.01	2021-06-30	485.060688
2	161725	0	2021-06-30	0.585078
3	161725	0	2021-06-30	1.302039

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```

4  161725          0  2021-06-30      2.537137
5  161725          0  2021-06-30      5.888394
6  161725          0  2021-06-30     157.037536
7  161725          0  2021-06-30      4.443833
8  161725          0  2021-06-30      1.626203
9  161725          0  2021-06-30      48.30805
10 161725          -- 2021-06-30      --
11 161725          -- 2021-06-30      --
12 161725          -- 2021-06-30      --
13 161725          -- 2021-06-30      --
14 161725          -- 2021-06-30      --
15 161725          -- 2021-06-30      --
16 161725          -- 2021-06-30      --
17 161725          -- 2021-06-30      --
18 161725          -- 2021-06-30      --
19 161725      93.08  2021-06-30  6493286.808514

```

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

Parameters

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

Returns

Return type DataFrame

Examples

```

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

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

```

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

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

Parameters

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

Examples

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

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

Parameters `fund_code (str)` – 6

Returns

Return type DataFrame

Examples

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

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

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

Parameters `fund_code (str)` – 6

Returns

Return type List[str]

Examples

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

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

Parameters

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

Returns

Return type DataFrame

Examples

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

0    2021-06-11  1.5188  3.1499  -3.09
1    2021-06-10  1.5673  3.1984   1.69
2    2021-06-09  1.5412  3.1723   0.11
3    2021-06-08  1.5395  3.1706  -6.5
4    2021-06-07  1.6466  3.2777   1.61
```

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```

...      ...      ...      ...
1469 2015-06-08 1.0380 1.0380 2.5692
1470 2015-06-05 1.0120 1.0120 1.5045
1471 2015-06-04 0.9970 0.9970 --
1472 2015-05-29 0.9950 0.9950 --
1473 2015-05-27 1.0000 1.0000 --

```

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

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

Returns

Return type DataFrame

Examples

```

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

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

```

```

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

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

```

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

Parameters

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

Returns

Return type DataFrame

Examples

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

Bond

`efinance.bond.get_all_base_info()` → `pandas.core.frame.DataFrame`

Returns

Return type `DataFrame`

Examples

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


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

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

Returns

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

Return type `Union[DataFrame, Series]`

Examples

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

```

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

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

```

...                                ()
↪
0  113050    601009    ...  2021-07-01 00:00:00  2027-06-15 00:00:00    6  0.20%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, **kwargs) →
                                Union[pandas.core.frame.DataFrame, Dict[str,
                                pandas.core.frame.DataFrame]]
```

K

Parameters

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

Returns

K

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

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

Examples

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

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

efinance.bond.get_realtime_quotes() → pandas.core.frame.DataFrame

Returns

Return type DataFrame

Examples

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

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

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

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

Parameters `bond_code` (`str`) –

Returns

Return type `DataFrame`

Examples

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

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

Futures

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

Returns

Return type `DataFrame`

Examples

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

Notes

ID `efinance.futures.get_quote_history`

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

Parameters

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

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

Returns

K

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

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

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

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

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

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```

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

```

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

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

Returns

Return type DataFrame

Examples

```

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

```

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

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846	jm2109	2109	-2.28	2748.0	2882.5	2688.0	2845.0	-64.0	-	1.85	-
↪34029	5656982528.0	2866.0	-	-	114.jm2109						
847	071108	IH2108	-2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.39	-
↪14384	13315567616.0	3139.2	918000	-	8.071108						
848	070131	IH	-2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.57	-
↪14384	13315567616.0	3139.2	918000	-	8.070131						
849	070120	IH	-2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.39	-
↪14384	13315567616.0	3139.2	918000	-	8.070120						
850	lu2109	2109	-3.79	3123.0	3127.0	3121.0	3121.0	-123.0	-	-	-
↪22	687420.0	3143.0	-	-	142.lu2109						

Notes

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

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