
efinance

Release 0.4.9

micro sheep

Jul 29, 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	↳
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.537821e+08	↳
...	↳
414	605580	2021-08-20	33.33%	13.28	10.0249	0.4086	2.413149e+06	2.	↳
415	688029	2021-08-20	455.82%	204.61	-18.5340	8.1809	-1.412053e+08	1.883342e+08	↳
416	688408	2021-08-20	447.86%	179.98	-0.0666	15.3723	-4.336304e+07	3.	↳
417	688556	2021-08-20	60.21%	51.97	17.0495	10.6452	-3.940045e+07	1.642095e+08	↳
418	688636	2021-08-20	247.37%	161.90	15.8332	11.9578	2.922406e+07	6.	↳

[418 rows x 16 columns]

• A

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

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[3725 rows x 14 columns]

• ()

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

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

[102 rows x 15 columns]
```

• ()

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

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

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```

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

```

[240 rows x 8 columns]

2.2 Fund

•

```

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

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

```

[1507 rows x 4 columns]

•

```

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

0  161725  600519    16.78   1.36  2022-03-31
1  161725  600809    15.20   0.52  2022-03-31
2  161725  000568    14.57  -0.89  2022-03-31
3  161725  000858     12.83  -1.26  2022-03-31
4  161725  002304    11.58   0.91  2022-03-31
5  161725  603369     3.75  -0.04  2022-03-31
6  161725  000799     3.40  -0.91  2022-03-31
7  161725  000596     3.27  -0.24  2022-03-31
8  161725  600779     2.59  -0.26  2022-03-31
9  161725  603589     2.30  -0.38  2022-03-31

```

•


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

2.3 Bond

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

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

[388 rows x 16 columns]
```

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

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

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↪None	2027-07-23	00:00:00	6	0.50%	0.70%	1.20%	1.80%	2.40%	...	
3	123119	2	300601	AA	2021-07-15	00:00:00	20.000000	0.014182		↪
↪None	2027-07-15	00:00:00	6	0.30%	0.50%	1.00%	1.50%	1.50%	...	
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%	2.1%	2.1%	2.1%	...	
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%	2.1%	2.1%	...	
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%	2.1%	2.1%	2.1%	...	
84	110026	600026	AAA	2007-07-02	00:00:00	20.000000	1.333453	2007-07-12		↪
↪00:00:00	2008-03-27	00:00:00	0.737	:1.84%	2.05%	2.26%	2.47%	2.47%	...	

[585 rows x 12 columns]

• K

```

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

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

```

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[77 rows x 13 columns]

2.4 Futures

```

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

[851 rows x 4 columns]

```

```

>>> import efinance as ef
>>> # ID
>>> quote_ids = ef.futures.get_realtime_quotes()['ID']
>>> # ID(ID)
>>> quote_id = quote_ids[0]
>>> # ID
>>> quote_ids[0]
'115.ZCM'
>>> # ID K
>>> ef.futures.get_quote_history(quote_id)
0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.00  0.
↪0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.32 -1.
↪4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.23 -1.
↪0  0.0
3      ZCM  2015-05-21  438.0  443.2  446.8  437.8     37  1.631850e+06  2.06  1.65  7.
↪2  0.0
4      ZCM  2015-05-22  439.2  441.4  443.8  439.2     34  1.502500e+06  1.04  0.09  0.
↪4  0.0
...     ...     ...     ...     ...     ...     ...     ...     ...     ...     ...
↪ ...     ...
1524   ZCM  2021-08-17  755.0  770.8  776.0  750.6  82373  6.288355e+09  3.25 -1.26 -9.
↪8  0.0

```

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```

1525    ZCM  2021-08-18  770.8  776.8  785.8  766.0  77392  6.016454e+09  2.59  1.76  13.
↪4  0.0
1526    ZCM  2021-08-19  776.8  777.6  798.0  764.6  97229  7.597474e+09  4.30  0.03  0.
↪2  0.0
1527    ZCM  2021-08-20  778.0  793.0  795.0  775.2  70549  5.553617e+09  2.53  1.48  11.
↪6  0.0
1528    ZCM  2021-08-23  796.8  836.6  843.8  796.8  82954  6.850341e+09  5.97  6.28  49.
↪4  0.0

[1529 rows x 13 columns]

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

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

[1529 rows x 13 columns]

```

API => Docs

```
sphinx efinance
```

•

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

•

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

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

```
docs/build html
```

```
pdoc efinance
```

•

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

•

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

```
efinance
```

CHAPTER
FOUR

CONTACT

CHANGELOG

5.1 v0.4.9(2022-07-29)

5.1.1 Added

- `get_quote_history`

5.2 v0.4.8(2022-06-30)

5.2.1 Fixed

- `stock get_base_info` bug

5.3 v0.4.7(2022-06-24)

5.3.1 Added

- `n 1 K`

5.3.2 Fixed

-

5.4 v0.4.6(2022-06-19)

5.4.1 Changed

- `stock`
- `common`

5.5 v0.4.5(2022-06-05)

5.5.1 Fixed

- bond get_base_info

5.6 Added

futures bond

5.7 v0.4.4(2022-04-29)

5.7.1 Added

- python3.10

5.7.2 Changed

- stock get_belong_plate get_belong_board

5.8 v0.4.3(2022-04-28)

5.8.1 Added

- stock get_belong_plate
- stock get_deal_detail

5.9 v0.4.2(2022-03-07)

5.9.1 Changed

- get_quote_history kwargs

5.9.2 Added

- stock get_quote_snapshot 3
-

5.10 v0.4.0(2021-12-02)

5.10.1 Fixed

- fund bug

5.10.2 Added

- A
-

5.11 v0.3.9(2021-10-23)

5.11.1 Changed

- fund
- common

5.11.2 Added

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

5.12 v0.3.8(2021-09-18)

5.12.1 Changed

- fund

5.12.2 Added

-
- ETFLOF

5.13 v0.3.7(2021-08-30)

5.13.1 Added

- docker
- A
- stock

5.13.2 Fixed

- fund bug
- fund bug

5.13.3 Changed

- `efinance.stock.get_all_company_performance`

5.14 v0.3.6 (2021-08-21)

5.14.1 Fixed

-

5.14.2 Changed

-

5.14.3 Added

- futures
-

5.15 v0.3.5 (2021-08-15)

5.15.1 Added

- -
 - common bond stock
 - bond
 -
-

5.16 v0.3.4 (2021-08-08)

5.16.1 Changed

- vscode
-

5.17 v0.3.3 (2021-08-08)

5.17.1 Changed

-
-

5.18 v0.3.2 (2021-08-08)

5.18.1 Added

- sphinx
 - read the docs
-

5.19 v0.3.1 (2021-08-05)

5.19.1 Added

- session

5.19.2 Fixed

-
-

5.20 v0.3.0 (2021-08-03)

5.20.1 Added

-
- jsonpath

5.20.2 Fixed

-

Installation

- pip

```
pip install efinance
```

- pip

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

- docker

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

-

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

Examples

Stock

- K

```
>>> import efinance as ef
>>> #
>>> stock_code = '600519'
>>> ef.stock.get_quote_history(stock_code)
0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318.0  1.410347e+09  -
↳1.10  0.92  0.83  56.83
1      600519  2001-08-28  -89.64  -89.27  -89.24  -89.72  129647.0  4.634630e+08  -
↳0.54  0.29  0.26  18.13
2      600519  2001-08-29  -89.24  -89.36  -89.24  -89.42  53252.0  1.946890e+08  -
↳0.20 -0.10 -0.09  7.45
3      600519  2001-08-30  -89.38  -89.22  -89.14  -89.44  48013.0  1.775580e+08  -
↳0.34  0.16  0.14  6.72
4      600519  2001-08-31  -89.21  -89.24  -89.12  -89.28  23231.0  8.623100e+07  -
↳0.18 -0.02 -0.02  3.25
```

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```

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

[4761 rows x 13 columns]

```

- A K

```

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

0      AAPL 1984-09-07 -5.37 -5.37 -5.36 -5.37 2981600.0 0.000000e+00 0.
↪00 0.00 0.00 0.02
1      AAPL 1984-09-10 -5.37 -5.37 -5.36 -5.37 2346400.0 0.000000e+00 -0.
↪19 0.00 0.00 0.01
2      AAPL 1984-09-11 -5.36 -5.36 -5.36 -5.36 5444000.0 0.000000e+00 0.
↪00 0.19 0.01 0.03
3      AAPL 1984-09-12 -5.36 -5.37 -5.36 -5.37 4773600.0 0.000000e+00 -0.
↪19 -0.19 -0.01 0.03
4      AAPL 1984-09-13 -5.36 -5.36 -5.36 -5.36 7429600.0 0.000000e+00 0.
↪00 0.19 0.01 0.04

... ..
↪....
8739  AAPL 2021-07-22 145.94 146.80 148.19 145.81 77338156.0 1.137623e+10 1.
↪64 0.96 1.40 0.47
8740  AAPL 2021-07-23 147.55 148.56 148.72 146.92 71447416.0 1.058233e+10 1.
↪23 1.20 1.76 0.43
8741  AAPL 2021-07-26 148.27 148.99 149.83 147.70 72434089.0 1.080774e+10 1.
↪43 0.29 0.43 0.44
8742  AAPL 2021-07-27 149.12 146.77 149.21 145.55 104818578.0 1.540140e+10 2.
↪46 -1.49 -2.22 0.63
8743  AAPL 2021-07-28 144.81 144.98 146.97 142.54 118931191.0 1.723188e+10 3.
↪02 -1.22 -1.79 0.72

[8744 rows x 13 columns]

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

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

```

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

[8362 rows x 13 columns]

- ETF K

```

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

```

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

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```
↪90 5.73 0.089 7.99
```

[1102 rows x 13 columns]

- 5 K

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

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

[1526 rows x 13 columns]
```

- A

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

↪
↪      ID
0      688787  N 277.59 139.48 172.39 139.25 171.66 102.54 85.62 - 78.93 ↪
↪ 74519 1110318832.0 36.94 5969744000 1213908667 1.688787 A
1      301045  N 149.34 39.42 48.95 39.2 48.95 23.61 66.66 - 37.81 ↪
↪163061 683878656.0 15.81 4066344240 964237089 0.301045 A
2      300532  20.04 12.16 12.16 10.69 10.69 2.03 8.85 3.02 -22.72 ↪
↪144795 171535181.0 10.13 3322510580 1989333440 0.300532 A
3      300600  20.02 13.19 13.19 11.11 11.41 2.2 18.61 2.82 218.75 ↪
↪423779 541164432.0 10.99 3915421427 3003665117 0.300600 A
```

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

[4603 rows x 18 columns]

```

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

```

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```

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

[75 rows x 16 columns]

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

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

[418 rows x 16 columns]

```

• A

```

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

0 688981 2021-08-28 00:00:00 1.609039e+10 22.253453 20.6593 5.241321e+09
↳278.100000 307.8042 0.6600 11.949525 5.20 26.665642 1.182556

```

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

[3725 rows x 14 columns]

• ()

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

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

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[102 rows x 15 columns]

• ()

```

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

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

```

[240 rows x 8 columns]

Fund

•

```

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

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

```

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[1507 rows x 4 columns]

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

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

Bond

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

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```

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

```

[388 rows x 16 columns]

•

```

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

```

				()	(%)		()	↵	
↪	0	123120	300263	AA-	2021-07-30	00:00:00	7.989283	NaN	↵
↪	None	2027-07-30	00:00:00	6	0.40%	0.70%	1.00%	1.60%	2....
↪	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							

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

[77 rows x 13 columns]

Futures

•

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

[851 rows x 4 columns]
```

•

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

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

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

[1529 rows x 13 columns]

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

0      ZCM  2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.00  0.
↳0  0.0
1      ZCM  2015-05-19  436.0  437.0  437.6  436.0      6  2.621000e+05  0.36 -0.32 -1.
↳4  0.0
2      ZCM  2015-05-20  436.8  435.8  437.0  434.8      8  3.487500e+05  0.50 -0.23 -1.
↳0  0.0
3      ZCM  2015-05-21  438.0  443.2  446.8  437.8     37  1.631850e+06  2.06  1.65  7.
↳2  0.0
4      ZCM  2015-05-22  439.2  441.4  443.8  439.2     34  1.502500e+06  1.04  0.09  0.
↳4  0.0
...
↳ ...
1524   ZCM  2021-08-17  755.0  770.8  776.0  750.6  82373  6.288355e+09  3.25 -1.26 -9.
↳8  0.0
1525   ZCM  2021-08-18  770.8  776.8  785.8  766.0  77392  6.016454e+09  2.59  1.76  13.
↳4  0.0
```

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

[1529 rows x 13 columns]

API REFERENCE

Stock

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

Parameters

`date` (*str*, optional) – (None)

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

Returns

Return type

DataFrame

Examples

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

0      688981      2021-08-28 00:00:00  1.609039e+10  22.253453  20.6593  5.
↪241321e+09  278.100000  307.8042  0.6600  11.949525  5.20  26.665642  1.182556
1      688819      2021-08-28 00:00:00  1.625468e+10  9.343279  23.9092  6.
↪719446e+08  -14.890000  -36.8779  0.7100  11.902912  6.15  17.323263  -1.562187
2      688789      2021-08-28 00:00:00  4.555604e+08  56.418441  6.5505  1.
↪076986e+08  49.360000  -7.3013  1.8900  14.926761  13.51  43.011243  1.421272
3      688681      2021-08-28 00:00:00  1.503343e+08  17.706987  121.9407  1.
↪664509e+07  -13.100000  383.3331  0.2100  5.232517  4.84  47.455511  -0.232395
4      688670      2021-08-28 00:00:00  3.209423e+07  -63.282413  -93.1788  -2.
↪330505e+07  -242.275001  -240.1554  -0.3500  3.332254  -10.10  85.308531  1.050348
...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...      ...      ...      ...      ...      ...      ...
3720  600131      2021-07-16 00:00:00  2.880378e+09  6.787087  69.5794  2.
↪171389e+08  29.570000  296.2051  0.1800  4.063260  4.57  19.137437  -0.798689
3721  600644      2021-07-15 00:00:00  1.257030e+09  18.079648  5.7300  8.
```

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```

↪379727e+07 -14.300000 25.00007 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()` → DataFrame

Returns

Return type

DataFrame

Examples

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

0    2021-06-30    2021
1    2021-03-31    2021
2    2020-12-31    2020
3    2020-09-30    2020
4    2020-06-30    2020
5    2020-03-31    2020
6    2019-12-31    2019
7    2019-09-30    2019
8    2019-06-30    2019
9    2019-03-31    2019
10   2018-12-31    2018
11   2018-09-30    2018
12   2018-06-30    2018
13   2018-03-31    2018
14   2017-12-31    2017
15   2017-09-30    2017
16   2017-06-30    2017
17   2017-03-31    2017
18   2016-12-31    2016
19   2016-09-30    2016
20   2016-06-30    2016
21   2016-03-31    2016
22   2015-12-31    2015
24   2015-06-30    2015
25   2015-03-31    2015
26   2014-12-31    2014
27   2014-09-30    2014
28   2014-06-30    2014
29   2014-03-31    2014
30   2013-12-31    2013
31   2013-09-30    2013
32   2013-06-30    2013
33   2013-03-31    2013
34   2012-12-31    2012
35   2012-09-30    2012
36   2012-06-30    2012
37   2012-03-31    2012
38   2011-12-31    2011
39   2011-09-30    2011
```

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

Parameters

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

Returns

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

Return type

Union[Series, DataFrame]

Raises**TypeError** – stock_codes**Examples**

```
>>> import efinance as ef
>>> #
>>> ef.stock.get_base_info('600519')
      600519
()
      39.38
      12.54
      2198082348462.0
      2198082348462.0
      BK0477
ROE
      8.29
      54.1678
      13954462085.610001
      91.6763
dtype: object
```

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

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

Parameters**stock_code** (str) –**Returns****Return type**

DataFrame

Examples

```
>>> import efinance as ef
>>> ef.stock.get_belong_board('600519')
0    600519  BK0477    0.56
1    600519  BK0173   -1.27
2    600519  BK0611  50_  0.60
3    600519  BK0718    0.54
4    600519  BK0896    0.25
```

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

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

Parameters

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

Returns**Return type**

DataFrame

Examples

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

↪
0  000608  2021-08-27  48.36%  3.73  -9.9034  3.8430  -8.709942e+06  1.
↪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.
```

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

```

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

```

↪	0	000608	2021-08-27	48.36%	3.73	-9.9034	3.8430	-8.709942e+06	1.
↪422786e+07	2.293780e+07	3.716565e+07		110838793	-7.858208	33.531268	2.		
↪796761e+09			7%5						
1	000751	2021-08-27	118.84%	5.32	-2.9197	19.6505	-1.079219e+08	5.	
↪638899e+07	1.643109e+08	2.206999e+08		1462953973	-7.376984	15.085906	7.		
↪500502e+09			15%5						
2	000762	2021-08-27	39.42%	63.99	1.0741	15.6463	2.938758e+07	4.	
↪675541e+08	4.381665e+08	9.057206e+08		4959962598	0.592496	18.260633	3.		
↪332571e+10			15%5						
3	000833	2021-08-27	44.55%	8.87	10.0496	8.8263	4.993555e+07	1.	
↪292967e+08	7.936120e+07	2.086580e+08		895910429	5.573721	23.290046	3.		
↪353614e+09			20%						
4	001208	2021-08-27	140.43%	19.72	4.3386	46.1985	4.055258e+07	1.	
↪537821e+08	1.132295e+08	2.670117e+08		1203913048	3.368398	22.178651	2.		
↪634710e+09			20%5						
↪
↪
↪					
414	605580	2021-08-20	33.33%	13.28	10.0249	0.4086	2.413149e+06	2.	
↪713051e+06	2.999022e+05	3.012953e+06		2713051	88.945937	111.054054	6.		
↪640000e+08			7%						
415	688029	2021-08-20	455.82%	204.61	-18.5340	8.1809	-1.412053e+08	1.	
↪883342e+08	3.295394e+08	5.178736e+08		762045800	-18.529760	67.958326	9.		
↪001510e+09			15%						
416	688408	2021-08-20	447.86%	179.98	-0.0666	15.3723	-4.336304e+07	3.	
↪750919e+08	4.184550e+08	7.935469e+08		846547400	-5.122340	93.739221	5.		

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```

↪695886e+09      30%
417 688556      2021-08-20 60.21%  51.97  17.0495  10.6452 -3.940045e+07  1.
↪642095e+08  2.036099e+08  3.678194e+08  575411600  -6.847351  63.922831  5.
↪739089e+09      15%
418 688636      2021-08-20 247.37% 161.90  15.8332  11.9578  2.922406e+07  6.
↪598126e+07  3.675721e+07  1.027385e+08  188330100  15.517464  54.552336  1.
↪647410e+09      15%
    
```

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

Parameters

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

Returns

Return type

DataFrame

Examples

```

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

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

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

Parameters

- `stock_code (str)` –

Returns

Return type

DataFrame

Examples

```

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

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

```

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

A

Parameters

`date (str, optional)` –

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

Returns

A

Return type

DataFrame

Examples

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

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

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

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

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

`efinance.stock.get_latest_ipo_info()` → DataFrame

IPO

Returns

IPO

Return type

DataFrame

Examples

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

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

`efinance.stock.get_latest_quote(stock_codes: Union[str, List[str]], **kwargs)` → DataFrame

Parameters

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

- '600519' - ['600519', '300750']

Returns

Return type

DataFrame

Examples

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

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

Notes

A `efinance.stock.get_realtime_quotes`

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

Parameters

`index_code (str)` –

Returns

Return type

DataFrame

Examples

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

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

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

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

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

K

Parameters

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

Returns

K

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

Return type

Union[DataFrame, Dict[str, DataFrame]]

Examples

```

>>> import efinance as ef
>>> # K
>>> ef.stock.get_quote_history('600519')
0      600519  2001-08-27  -89.74  -89.53  -89.08  -90.07  406318  1.
↪410347e+09 -1.10  0.92  0.83  56.83
1      600519  2001-08-28  -89.64  -89.27  -89.24  -89.72  129647  4.
↪634630e+08 -0.54  0.29  0.26  18.13
2      600519  2001-08-29  -89.24  -89.36  -89.24  -89.42  53252  1.
↪946890e+08 -0.20 -0.10 -0.09  7.45
3      600519  2001-08-30  -89.38  -89.22  -89.14  -89.44  48013  1.
↪775580e+08 -0.34  0.16  0.14  6.72
4      600519  2001-08-31  -89.21  -89.24  -89.12  -89.28  23231  8.
↪623100e+07 -0.18 -0.02 -0.02  3.25
...      ...      ...      ...      ...      ...      ...      ...
↪ ...      ...      ...      ...

```

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```

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

```

```

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

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

```

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

Parameters

`stock_code (str)` –

Return type

Series

Examples

```

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

15:59:30
-73.5
-4.13
1707.0
1780.5
1760.2
1760.2
1768.0
1703.8
1726.65
1958.55
1602.45
0.39
49156
8487507456
1 1708.0
2 1708.75
4 1709.6
5 1709.63
1 1707.0
2 1706.99
3 1706.88
4 1706.87
5 1706.86
1 3.0
2 2.0
3 39.0
4 3.0
5 1.0
1 17.0
2 8.0
3 10.0
4 8.0
5 21.0
dtype: object

```

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

Parameters

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

- None A
- 'A' A
- 'A' A
- 'A' A
- A A

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

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

```
>>> ef.stock.get_realtime_quotes(['ETF'])
↪      ID
0      513050      ETF      4.49      1.444      1.455      1.433      1.452      0.062      6.71      0.92      -
↪12961671      1870845984.0      1.382      27895816917      27895816917      1.513050      A
1      513360      ETF      4.38      0.5      0.502      0.486      0.487      0.021      16.89      1.7      -
↪1104254      54634387.0      0.479      326856952      326856952      1.513360      A
2      159766      ETF      3.84      0.974      0.988      0.95      0.95      0.036      14.46      1.97      -
↪463730      45254947.0      0.938      312304295      312304295      0.159766      A
3      159865      ETF      3.8      0.819      0.828      0.785      0.791      0.03      12.13      0.89      -
↪1405871      114254714.0      0.789      949594189      949594189      0.159865      A
4      516670      ETF      3.76      0.856      0.864      0.825      0.835      0.031      24.08      0.98      -
↪292027      24924513.0      0.825      103803953      103803953      1.516670      A
...
↪      ...
549      513060      ETF      -4.12      0.861      0.905      0.86      0.902      -0.037      47.96      1.57      -
```

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↪	1620502	141454355.0	0.898	290926128	290926128	1.513060	A						
	550	515220	ETF	-4.46	2.226	2.394	2.194	2.378	-0.104	14.39	0.98	-	↵
↪	2178176	487720560.0	2.330	3369247992	3369247992	1.515220	A						
	551	513000	225ETF	-4.49	1.212	1.269	1.21	1.269	-0.057	5.02	2.49	-	↵
↪	25819	3152848.0	1.269	62310617	62310617	1.513000	A						
	552	513880	225ETF	-4.59	1.163	1.224	1.162	1.217	-0.056	16.93	0.94	-	↵
↪	71058	8336846.0	1.219	48811110	48811110	1.513880	A						
	553	513520	ETF	-4.76	1.2	1.217	1.196	1.217	-0.06	27.7	1.79	-	↵
↪	146520	17645828.0	1.260	63464640	63464640	1.513520	A						

Notes

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

Parameters

`stock_code (str)` –

Returns

Return type

DataFrame

Examples

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

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

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

Parameters

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

Returns

10

Return type

DataFrame

Examples

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

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

Fund

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

Parameters

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

Returns

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

Return type

Union[Series, DataFrame]

Raises

TypeError – `fund_codes`

Examples

```

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

dtype: object

```

```

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

```

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

Parameters

`ft (str, optional)` –

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

Returns**Return type**

DataFrame

Examples

```

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

0      003834
1      005669

```

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

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

Parameters

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

Returns**Return type**

DataFrame

Examples

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

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```

17 161725          -- 2021-06-30          --
18 161725          --      2021-06-30          --
19 161725          93.08 2021-06-30  6493286.808514

```

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

Parameters

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

Returns**Return type**

DataFrame

Examples

```

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

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

0 161725 600519    16.78    1.36 2022-03-31
1 161725 600809    15.20    0.52 2022-03-31
2 161725 000568    14.57   -0.89 2022-03-31
3 161725 000858     12.83   -1.26 2022-03-31
4 161725 002304    11.58    0.91 2022-03-31
5 161725 603369     3.75   -0.04 2022-03-31
6 161725 000799     3.40   -0.91 2022-03-31
7 161725 000596     3.27   -0.24 2022-03-31
8 161725 600779     2.59   -0.26 2022-03-31
9 161725 603589     2.30   -0.38 2022-03-31
10 161725 000568    15.46    0.57 2021-12-31
11 161725 600519    15.42    0.63 2021-12-31

```

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12	161725	600809	14.68	-1.72	2021-12-31
13	161725	000858	14.09	0.87	2021-12-31
14	161725	002304	10.67	-1.34	2021-12-31
15	161725	000799	4.31	0.09	2021-12-31
16	161725	603369	3.79	0.81	2021-12-31
17	161725	000596	3.51	-0.69	2021-12-31
18	161725	600779	2.85	-0.41	2021-12-31
19	161725	603589	2.68	2.68	2021-12-31

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

Parameters

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

Examples

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

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

Parameters

`fund_code` (*str*) – 6

Returns**Return type**

DataFrame

Examples

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

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

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

Parameters

`fund_code` (*str*) – 6

Returns

Return type

List[str]

Examples

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

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

Parameters

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

Returns

Return type

DataFrame

Examples

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

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

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

Parameters

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

Returns

Return type

DataFrame

Examples

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

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

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

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

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

Parameters

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

Returns

Return type

DataFrame

Examples

```
>>> import efinance as ef
>>> #
>>> public_dates = ef.fund.get_public_dates('005827')
>>> #
>>> dates = public_dates[:2]
>>> ef.fund.get_types_percentage('005827', dates)

()
0 005827 94.4 -- 6.06 880.1570625231 0
0 005827 94.09 -- 7.63 677.007455712 0
```

Bond

`efinance.bond.get_all_base_info()` → DataFrame

Returns

Return type

DataFrame

Examples

```

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

```

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

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

Parameters

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

Returns

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

Return type

Union[DataFrame, Series]

Examples

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

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

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

			...	(└	
0	113050	601009	...	2021-07-01 00:00:00	2027-06-15 00:00:00	6 0.20%0.40%0.70%1.20%
						1.70%...
1	123111	3 300059	...	2021-04-23 00:00:00	2027-04-07 00:00:00	6 0.2%0.3%0.4%0.8%
						1.8%2.0%

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

Parameters

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

Returns

Return type

DataFrame

Examples

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

0	113050	09:15:30	122.44	122.60	21	0
1	113050	09:17:07	122.44	122.60	21	0
2	113050	09:20:52	122.44	122.60	21	0
3	113050	09:22:34	122.44	122.60	21	0
4	113050	09:23:35	122.44	122.56	21	0

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1720	113050	14:58:49	122.44	121.87	1	0
1721	113050	14:58:52	122.44	121.87	5	0
1722	113050	14:59:01	122.44	121.88	4	0
1723	113050	14:59:31	122.44	121.82	130	0
1724	113050	15:00:00	122.44	121.82	50	0

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

Parameters

`bond_code` (*str*) –

Returns**Return type**

DataFrame

Examples

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

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

K

Parameters

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

Returns

K

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

Return type

Union[DataFrame, Dict[str, DataFrame]]

Examples

```

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

```

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

Returns**Return type**

DataFrame

Examples

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

↪          ID
0  123051  24.03  158.66  165.0  134.0  134.0  30.74  496.74  67.16
↪- 1388341 2185911136.0 127.92 443443594 443443594 0.123051 A
1  123042  16.04  219.309  224.0  193.11  194.5  30.309  1833.99  1.34
↪- 3042265 6402014720.0 189.0 363794813 363794813 0.123042 A
2  113034  13.49  247.71  255.62  214.5  214.5  29.45  334.56  2.96
↪- 1585993 3798255024.0 218.26 1174284861 1174284861 1.113034 A
3  128064  11.29  148.01  150.34  133.007  133.73  15.01  277.06  7.04
↪- 887301 1305800336.0 133.0 474009426 474009426 0.128064 A
4  113027  8.38  129.86  130.2  122.3  123.0  10.04  83.84  4.15
↪- 272641 346817120.0 119.82 422273164 422273164 1.113027 A
..  ...  ...  ...  ...  ...  ...  ...  ...  ...
↪  ...  ...  ...  ...  ...  ...  ...  ...  ...
390 113621 -4.45 188.57 198.22 188.0 196.01 -8.79 29.91 0.47
↪- 168709 326018848.0 197.36 1063693010 1063693010 1.113621 A
391 128017 -4.86 182.676 204.989 182.61 195.16 -9.324 35.58 2.0
↪- 196375 375750768.0 192.0 1008366222 1008366222 0.128017 A
392 113548 -5.16 250.22 267.57 246.56 262.3 -13.61 143.32 0.72
↪- 175893 452796304.0 263.83 307086749 307086749 1.113548 A
393 128093 -5.71 429.042 449.97 426.078 443.1 -25.958 426.86 0.36
↪- 693261 3032643232.0 455.0 696810974 696810974 0.128093 A
394 123066 -6.0 193.08 203.999 193.08 203.0 -12.32 323.13 0.22
↪- 133317 261546032.0 205.4 79660753 79660753 0.123066 A
```

efinance.bond.get_today_bill(*bond_code: str*) → DataFrame

Parameters

bond_code (*str*) –

Returns

Return type

DataFrame

Examples

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

0  3  123111  2021-08-13 09:31 -278046.0 319657.0 -41611.0 -278046.0
↪ 0.0
1  3  123111  2021-08-13 09:32 -988506.0 571643.0 416863.0 -988506.0
↪ 0.0
2  3  123111  2021-08-13 09:33 -990089.0 501980.0 488109.0 -990089.0
↪ 0.0
3  3  123111  2021-08-13 09:34 -1718728.0 9051.0 1709678.0 -1718728.0
↪ 0.0
4  3  123111  2021-08-13 09:35 -1653717.0 -133654.0 1787373.0 -1653717.0
```

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```

↪ 0.0
..      ...      ...      ...      ...      ...      ...      ...      ...
↪
235 3 123111 2021-08-13 14:56 5942063.0 -747717.0 -5194332.0 11700567.0 -
↪ 5758504.0
236 3 123111 2021-08-13 14:57 5916755.0 -483170.0 -5433570.0 11963346.0 -
↪ 6046591.0
237 3 123111 2021-08-13 14:58 5503692.0 -187241.0 -5316435.0 11757642.0 -
↪ 6253950.0
238 3 123111 2021-08-13 14:59 5503692.0 -187241.0 -5316435.0 11757642.0 -
↪ 6253950.0
239 3 123111 2021-08-13 15:00 5503692.0 -187241.0 -5316435.0 11757642.0 -
↪ 6253950.0

```

Futures

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

Parameters

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

Returns

Return type

DataFrame

Notes

ID `efinance.futures.get_futures_base_info`

Examples

```

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

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

```

`efinance.futures.get_futures_base_info()` → DataFrame

Returns

Return type

DataFrame

Examples

```

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

```

Notes

ID `efinance.futures.get_quote_history`

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

Parameters

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

Returns

K

- DataFrame: secids str

• Dict[str, DataFrame]: quote_ids List[str]

Return type

Union[DataFrame, Dict[str, DataFrame]]

Examples

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

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

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

0      ZCM    2015-05-18  440.0  437.6  440.2  437.6      64  2.806300e+06  0.00  0.
↪00    0.0  0.0
```

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

efinance.futures.get_realtime_quotes() → DataFrame

Returns

Return type

DataFrame

Examples

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

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

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849	070120	IH	-2.52	3060.0	3130.0	3043.0	3111.2	-79.0	-	0.39	-	└
↪14384	13315567616.0		3139.2	918000	-	8.070120						
850	lu2109	2109	-3.79	3123.0	3127.0	3121.0	3121.0	-123.0	-	-	-	└
↪22	687420.0		3143.0		-	-	142.lu2109					

Notes

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