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**efinance**

*Release 0.4.9*

**micro sheep**

**Jul 29, 2022**



# GETTING STARTED

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efinance Python

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## INSTALLATION

- pip

```
pip install efinance
```

- pip

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

- docker

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

- 

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





## EXAMPLES

### 2.1 Stock

- K

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

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

[4761 rows x 13 columns]
```

- A K

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

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```

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

[8744 rows x 13 columns]

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

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

```

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[8362 rows x 13 columns]

## • ETF K

```

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

[1102 rows x 13 columns]

```

## • 5 K

```

>>> import efinance as ef
>>> #
>>> stock_code = '600519'
>>> # 5
>>> frequency = 5
>>> ef.stock.get_quote_history(stock_code, klt=frequency)
0      600519 2021-06-16 09:35 2172.71 2159.71 2175.71 2150.74 1885.0 411159309.
↪0 1.15 -0.64 -14.00 0.02
1      600519 2021-06-16 09:40 2156.69 2148.71 2160.48 2143.37 1238.0 268790684.
↪0 0.79 -0.51 -11.00 0.01
2      600519 2021-06-16 09:45 2149.79 2159.71 2160.69 2149.79 706.0 153631002.
↪0 0.51 0.51 11.00 0.01
3      600519 2021-06-16 09:50 2159.61 2148.87 2159.71 2148.87 586.0 127346502.
↪0 0.50 -0.50 -10.84 0.00

```

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

[1526 rows x 13 columns]

• A

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

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

[4603 rows x 18 columns]

•

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

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```

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

[75 rows x 16 columns]

>>> #
>>> start_date = '2021-08-20' #
>>> end_date = '2021-08-27' #
>>> ef.stock.get_daily_billboard(start_date = start_date,end_date = end_date)
↳
↳
0  000608  2021-08-27  48.36%  3.73  -9.9034  3.8430  -8.709942e+06  1.
↳ 422786e+07  2.293780e+07  3.716565e+07  110838793  -7.858208  33.531268  2.
↳ 796761e+09  7%5
1  000751  2021-08-27  T18.84%  5.32  -2.9197  19.6505  -1.079219e+08  5.
↳ 638899e+07  1.643109e+08  2.206999e+08  1462953973  -7.376984  15.085906  7.
↳ 500502e+09  15%5
2  000762  2021-08-27  39.42%  63.99  1.0741  15.6463  2.938758e+07  4.675541e+08
↳ 4.381665e+08  9.057206e+08  4959962598  0.592496  18.260633  3.332571e+10
↳
   15%

```

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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%	...		
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%						
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%						
84	110026	600026	AAA	2007-07-02	00:00:00	20.000000	1.333453	2007-07-12		↪
↪00:00:00	2008-03-27	00:00:00	0.737	:1.84%,2.05%,2.26%,2.47%,...						

[585 rows x 12 columns]

• K

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

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

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[77 rows x 13 columns]

## 2.4 Futures

```

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

```

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

```

[851 rows x 4 columns]

```

```

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

```

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

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```

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

[1529 rows x 13 columns]

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

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

[1529 rows x 13 columns]

```

API => Docs

```
sphinx efinance
```

•

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

•

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

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

```
docs/build html
```

```
pdoc efinance
```

•

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

•

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

```
efinance
```



---

CHAPTER  
**FOUR**

---

**CONTACT**





## CHANGELOG

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

#### 5.1.1 Added

- `get_quote_history`

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

#### 5.2.1 Fixed

- `stock get_base_info` bug

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

#### 5.3.1 Added

- `n 1 K`

#### 5.3.2 Fixed

- 

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

#### 5.4.1 Changed

- `stock`
- `common`

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

### 5.5.1 Fixed

- bond get\_base\_info

## 5.6 Added

futures bond

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

### 5.7.1 Added

- python3.10

### 5.7.2 Changed

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

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

### 5.8.1 Added

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

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

### 5.9.1 Changed

- get\_quote\_history kwargs

### 5.9.2 Added

- stock get\_quote\_snapshot 3
-

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

### 5.10.1 Fixed

- fund bug

### 5.10.2 Added

- A
- 

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

### 5.11.1 Changed

- fund
- common

### 5.11.2 Added

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

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

### 5.12.1 Changed

- fund

### 5.12.2 Added

- 
- ETFLOF

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

### 5.13.1 Added

- docker
- A
- stock

### 5.13.2 Fixed

- fund bug
- fund bug

### 5.13.3 Changed

- `efinance.stock.get_all_company_performance`

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

### 5.14.1 Fixed

- 

### 5.14.2 Changed

- 

### 5.14.3 Added

- futures
- 

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

### 5.15.1 Added

- - 
  - common bond stock
  - bond
  -
-

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

### 5.16.1 Changed

- vscode
- 

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

### 5.17.1 Changed

- 
- 

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

### 5.18.1 Added

- sphinx
  - read the docs
- 

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

### 5.19.1 Added

- session

### 5.19.2 Fixed

- 
- 

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

### 5.20.1 Added

- 
- jsonpath

## 5.20.2 Fixed

- 

### Installation

- pip

```
pip install efinance
```

- pip

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

- docker

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

- 

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

### Examples

#### Stock

- K

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

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```

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

[4761 rows x 13 columns]

```

- A K

```

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

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

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

[8744 rows x 13 columns]

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

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

```

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

[8362 rows x 13 columns]

- ETF K

```

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

```

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

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```
↪90 5.73 0.089 7.99
```

[1102 rows x 13 columns]

- 5 K

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

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

[1526 rows x 13 columns]
```

- A

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

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

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```

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

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

**Parameters**

`ft (str, optional)` –

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

**Returns****Return type**

DataFrame

## Examples

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

```
0      003834
1      005669
```

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

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

**Parameters**

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

**Returns****Return type**

DataFrame

**Examples**

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

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

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

**Parameters**

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

**Returns****Return type**

DataFrame

**Examples**

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

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

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

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

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

**Parameters**

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

**Examples**

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

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

**Parameters**

`fund_code` (*str*) – 6

**Returns****Return type**

DataFrame

**Examples**

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

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

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

**Parameters**

`fund_code` (*str*) – 6

**Returns**

**Return type**

List[str]

**Examples**

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

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

**Parameters**

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

**Returns**

**Return type**

DataFrame

**Examples**

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

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

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

**Parameters**

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

**Returns**

**Return type**

DataFrame



## Examples

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

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

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

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

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

### Parameters

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

### Returns

#### Return type

DataFrame

## Examples

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

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

## Bond

`efinance.bond.get_all_base_info()` → DataFrame

### Returns

#### Return type

DataFrame

### Examples

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

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

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

### Parameters

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

### Returns

- DataFrame: bond\_codes
- Series: bond\_codes

### Return type

Union[DataFrame, Series]



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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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