

EPS-analysis

August 17, 2021

1 EPS analysis

1.1 import modules and define basic modules & functions

```
[7]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

import yahoo_fin.stock_info as si

# private module
import mystock_info as mi
```

```
[9]: !pip install dataframe_image
```

```
Defaulting to user installation because normal site-packages is not writeable
Collecting dataframe_image
  Downloading dataframe_image-0.1.1-py3-none-any.whl (32 kB)
Requirement already satisfied: matplotlib>=3.1 in /usr/local/lib/python3.8/dist-packages (from dataframe_image) (3.4.3)
Requirement already satisfied: requests in /usr/local/lib/python3.8/dist-packages (from dataframe_image) (2.26.0)
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.8/dist-packages (from dataframe_image) (4.9.3)
Collecting aiohttp
  Downloading aiohttp-3.7.4.post0-cp38-cp38-manylinux2014_x86_64.whl (1.5 MB)
    |                               | 1.5 MB 1.2 MB/s eta 0:00:01
Requirement already satisfied: pandas>=0.24 in
/home/jovyan/.local/lib/python3.8/site-packages (from dataframe_image) (1.3.1)
Requirement already satisfied: nbconvert>=5 in /usr/local/lib/python3.8/dist-packages (from dataframe_image) (6.1.0)
Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.8/dist-packages (from matplotlib>=3.1->dataframe_image) (8.3.1)
Requirement already satisfied: pyparsing>=2.2.1 in
/usr/local/lib/python3.8/dist-packages (from matplotlib>=3.1->dataframe_image) (2.4.7)
Requirement already satisfied: python-dateutil>=2.7 in
/usr/local/lib/python3.8/dist-packages (from matplotlib>=3.1->dataframe_image)
```

(2.8.2)

Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.8/dist-packages (from matplotlib>=3.1->dataframe_image) (0.10.0)

Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.8/dist-packages (from matplotlib>=3.1->dataframe_image) (1.3.1)

Requirement already satisfied: numpy>=1.16 in /usr/local/lib/python3.8/dist-packages (from matplotlib>=3.1->dataframe_image) (1.21.2)

Requirement already satisfied: six in /usr/local/lib/python3.8/dist-packages (from cycler>=0.10->matplotlib>=3.1->dataframe_image) (1.16.0)

Requirement already satisfied: entrypoints>=0.2.2 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (0.3)

Requirement already satisfied: traitlets>=5.0 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (5.0.5)

Requirement already satisfied: nbformat>=4.4 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (5.1.3)

Requirement already satisfied: jupyter-core in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (4.7.1)

Requirement already satisfied: testpath in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (0.5.0)

Requirement already satisfied: pygments>=2.4.1 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (2.10.0)

Requirement already satisfied: Jinja2>=2.4 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (3.0.1)

Requirement already satisfied: nbclient<0.6.0,>=0.5.0 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (0.5.4)

Requirement already satisfied: pandocfilters>=1.4.1 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (1.4.3)

Requirement already satisfied: bleach in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (4.0.0)

Requirement already satisfied: jupyterlab-pygments in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (0.1.2)

Requirement already satisfied: mistune<2,>=0.8.1 in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (0.8.4)

Requirement already satisfied: defusedxml in /usr/local/lib/python3.8/dist-packages (from nbconvert>=5->dataframe_image) (0.7.1)

Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.8/dist-packages (from Jinja2>=2.4->nbconvert>=5->dataframe_image) (2.0.1)

Requirement already satisfied: jupyter-client>=6.1.5 in /usr/local/lib/python3.8/dist-packages (from nbclient<0.6.0,>=0.5.0->nbconvert>=5->dataframe_image) (6.1.12)

Requirement already satisfied: nest-asyncio in /usr/local/lib/python3.8/dist-packages (from nbclient<0.6.0,>=0.5.0->nbconvert>=5->dataframe_image) (1.5.1)

Requirement already satisfied: certifi>=2017.4.17 in
 /usr/local/lib/python3.8/dist-packages (from requests->dataframe_image)
 (2021.5.30)
 Installing collected packages: multidict, yarl, typing-extensions, chardet,
 async-timeout, aiohttp, dataframe-image
 WARNING: The script chardetect is installed in '/home/jovyan/.local/bin'
 which is not on PATH.
 Consider adding this directory to PATH or, if you prefer to suppress this
 warning, use --no-warn-script-location.
 WARNING: The script dataframe_image is installed in
 '/home/jovyan/.local/bin' which is not on PATH.
 Consider adding this directory to PATH or, if you prefer to suppress this
 warning, use --no-warn-script-location.
 Successfully installed aiohttp-3.7.4.post0 async-timeout-3.0.1 chardet-4.0.0
 dataframe-image-0.1.1 multidict-5.1.0 typing-extensions-3.10.0.0 yarl-1.6.3

```
[33]: import importlib
importlib.reload(mi)
```

```
[33]: <module 'mystock_info' from '/home/jovyan/yahoo_fin/mystock_info.py'>
```

1.2 Tech companies

```
[8]: fangam=["FB", "AAPL", "NFLX", "GOOG", "AMZN", "MSFT"]
```

```
###
ant=["ADBE", "NVDA", "TSLA"]
saas=["CRWD", "OKTA", "ZS", "TTD", "TWLO"]
ecommerce=["SHOP", "ETSY", "FIVN"]

fintech=["SQ", "DOCU", "PYPL"]
media=["TWTR", "PINS"]
techs=["U", "ZM", "FVRR", "ABNB", "ROKU"]
eauto=["F", "GM", "MGA"]

growth1=ant+saas+ecommerce
growth2=fintech+media+techs+eauto
```

```
[10]: E12 = ["FB", "AAPL", "GOOG", "AMZN", "MSFT"] #Billions
E11 = ["NFLX", "TSLA", "ADBE", "NVDA", "PYPL", "SHOP", "SQ", "ZM"] # over 100
↳million
E10_5 = ( # Over 50 million
    ["ABNB", "GM", "F"]
    + ["CRWD", "TWLO", "TWTR"]
```

```

    + [ "DOCU" ]
)
E10_1 = ["ROKU", "PLTR", "OKTA", "EPAM", "U", "MGA", "ZS", "ETSY", "FIVN", "PINS"]
    ↪ # over 10 million

E9 = ["FVRR", "FSLY", "TTD"] # over 1 million

LIST=E12+E11+E10_5+E10_1+E9
###

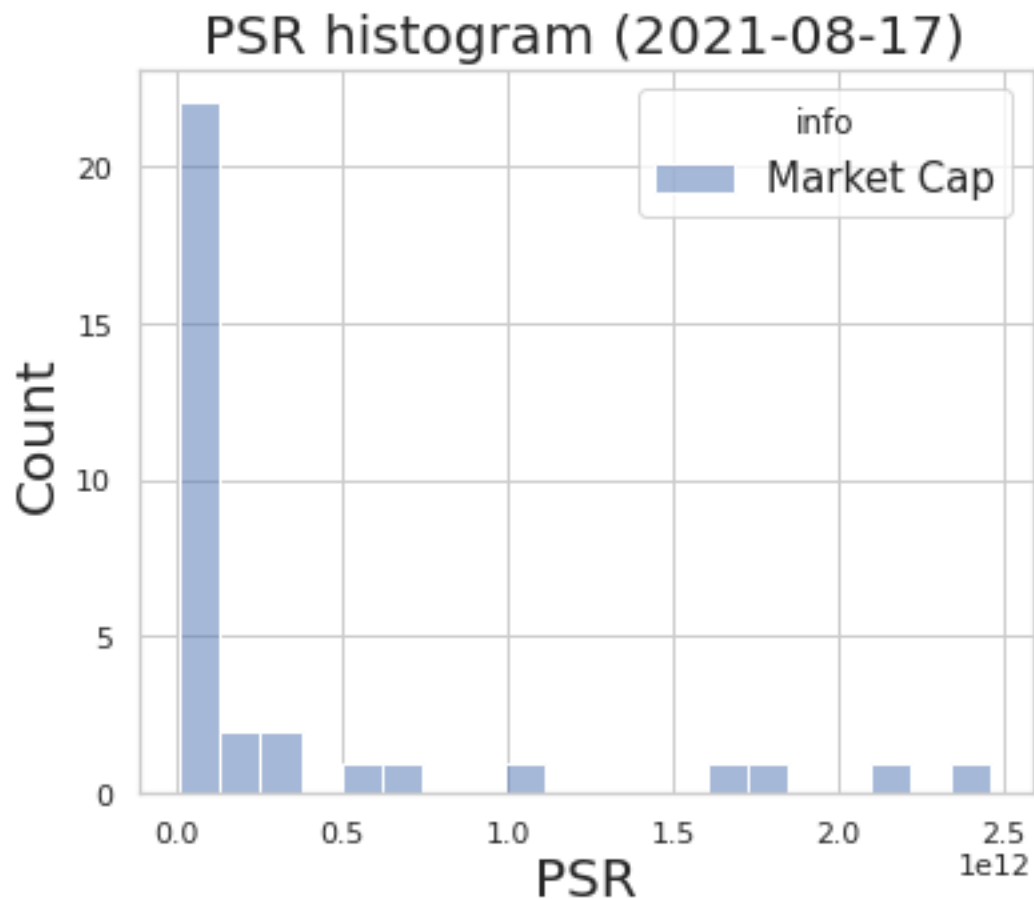
```

1.2.1 PSR distribution and Market Cap

```

[11]: import importlib
importlib.reload(mi)
df=mi.show_valuation(LIST, table=False, key="Cap")
df["Market Cap"]

```



The top 5 CAP stocks (2021-08-17)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	Y1	alpha	TS
ticker												
AAPL	\$2.46e+12	\$148.9	\$159.3	7.1	29.2	38.4	127.1%	36.4%	30.1%	Y	a	TS
MSFT	\$2.19e+12	\$289.8	\$298.9	13.0	36.2	15.4	47.1%	21.3%	45.7%	Y	a	TS
GOOG	\$1.84e+12	\$2,767.8	\$2,625.0	8.3	30.0	7.8	28.3%	61.6%	36.7%	Y	a	TS
AMZN	\$1.67e+12	\$3,303.5	\$4,241.3	3.8	57.4	14.5	31.2%	27.2%	13.4%	Y	a	TS
FB	\$1.02e+12	\$362.6	\$386.5	9.8	27.0	7.4	31.3%	55.6%	47.1%	Y	a	TS

[11]: ticker

```

AAPL    2.464000e+12
MSFT    2.188000e+12
GOOG    1.837000e+12
AMZN    1.668000e+12
FB       1.025000e+12
TSLA    7.158300e+11
NVDA    4.994210e+11
PYPL    3.230280e+11
ADBE    3.036840e+11
NFLX    2.286540e+11
SHOP    1.860530e+11
SQ       1.238240e+11
ZM       1.068590e+11
ABNB    9.172100e+10
GM       7.843600e+10
TWLO    6.508800e+10
DOCU    5.794400e+10
CRWD    5.578100e+10
F        5.504800e+10
TWTR    5.214800e+10
PLTR    4.863300e+10
ROKU    4.858200e+10
TTD     3.962000e+10
OKTA    3.639700e+10
PINS    3.613100e+10
U       3.550300e+10
EPAM    3.461100e+10
ZS      3.365500e+10
MGA     2.573800e+10
ETSY    2.410800e+10
FIVN    1.293300e+10
FVR     6.185000e+09
FSLY    4.983000e+09

```

Name: Market Cap, dtype: float64

[7]: df.head()

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Quarterly Revenue Growth (yoy)	Profit Margin	Operating Margin (ttm)
ticker									
AAPL	2.464000e+12	148.89	159.34	7.10	29.18	38.39	36.4	25.00	28.79
MSFT	2.188000e+12	289.81	298.92	13.01	36.17	15.41	21.3	36.45	41.60
GOOG	1.837000e+12	2767.79	2625.00	8.34	30.02	7.78	61.6	28.57	28.45
AMZN	1.668000e+12	3303.50	4241.33	3.76	57.39	14.52	27.2	6.64	6.68
FB	1.025000e+12	362.65	386.47	9.78	27.00	7.43	55.6	37.18	42.52

1.2.2 EPS history

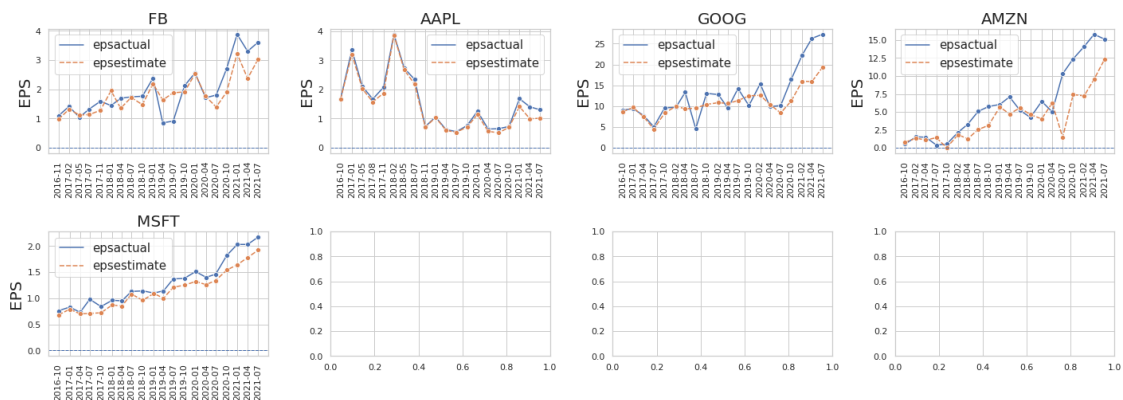
```
[4]: # import importlib
# importlib.reload(mi)

#for i in [fangam, growth1, growth2]:
for i in [E12,E11,E10_5,E10_1,E9]:

    mi.plot_eps_history(i)
```

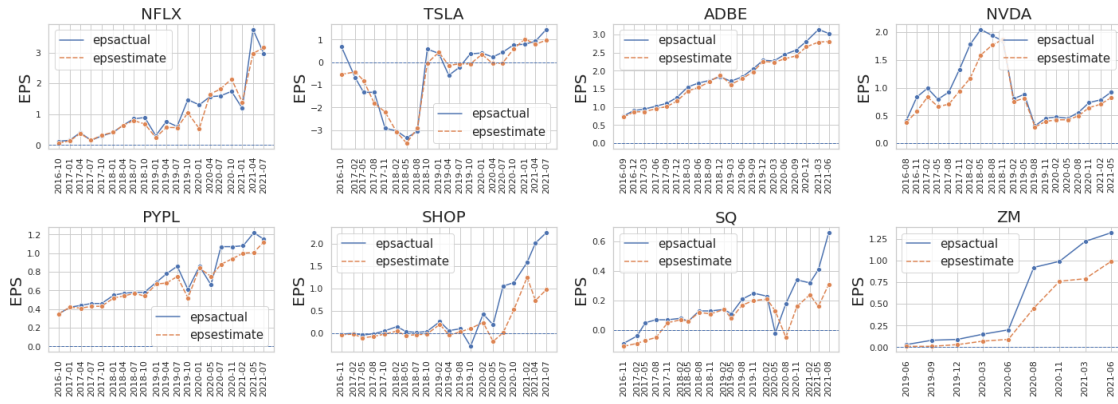
ntick: 5, nrow: 2, ncol: 4

EPS history within last 20 quarters (2021-08-16)



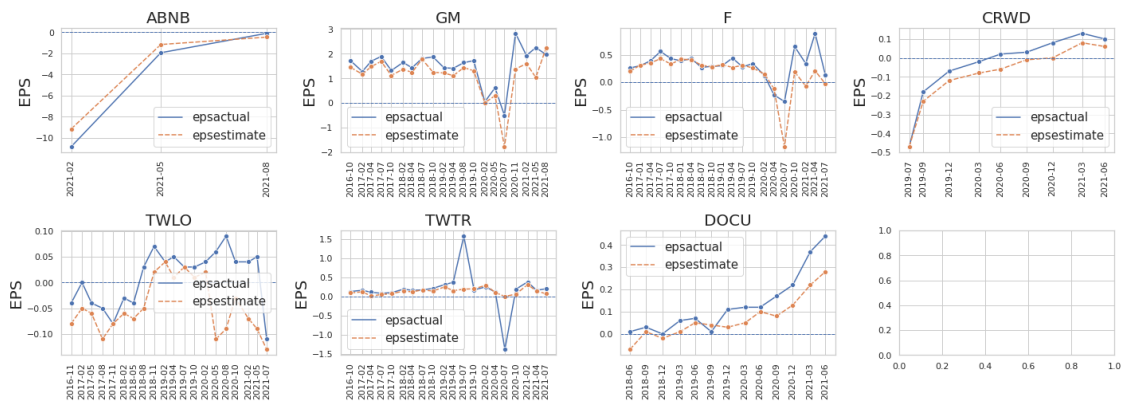
ntick: 8, nrow: 2, ncol: 4

EPS history within last 20 quarters (2021-08-16)



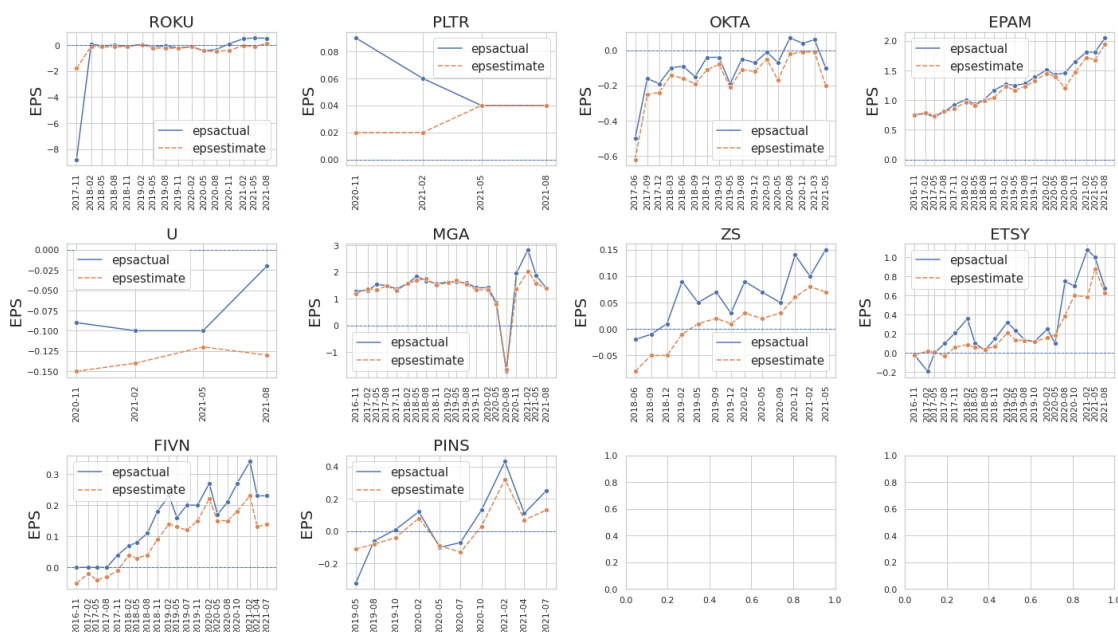
ntick: 7, nrow: 2, ncol: 4

EPS history within last 20 quarters (2021-08-16)



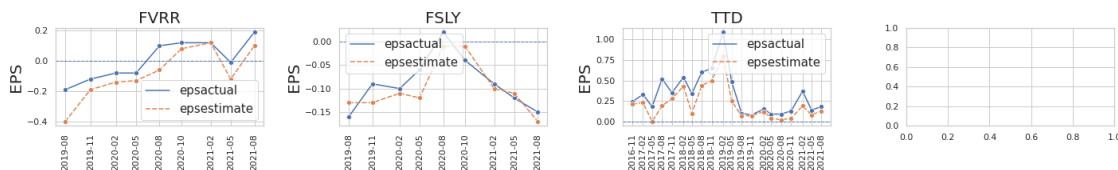
ntick: 10, nrow: 3, ncol: 4

EPS history within last 20 quarters (2021-08-16)



ntick: 3, nrow: 1, ncol: 4

EPS history within last 20 quarters (2021-08-16)



```
[6]: import importlib
importlib.reload(mi)
#mi.show_beat_ratio(LIST, last=20)
for i in [E12,E11,E10_5,E10_1,E9]:
    df_res = mi.show_valuation(i, hist=False, table=True)
```

PSR sorted list (2021-08-16)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	YI	alpha	TS
ticker												
MSFT	\$2.19e+12	\$289.8	\$298.9	13.0	36.2	15.4	47.1%	21.3%	45.7%	Y	a	TS
FB	\$1.02e+12	\$362.6	\$386.5	9.8	27.0	7.4	31.3%	55.6%	47.1%	Y	a	TS
GOOG	\$1.84e+12	\$2,767.8	\$2,625.0	8.3	30.0	7.8	28.3%	61.6%	36.7%	Y	a	TS
AAPL	\$2.46e+12	\$148.9	\$159.3	7.1	29.2	38.4	127.1%	36.4%	30.1%	Y	a	TS
AMZN	\$1.67e+12	\$3,303.5	\$4,241.3	3.8	57.4	14.5	31.2%	27.2%	13.4%	Y	a	TS

PSR sorted list (2021-08-16)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	Y!	alpha	TS
ticker												
SHOP	\$1.86e+11	\$1,503.2	\$1,515.1	48.3	76.5	18.4	33.3%	56.7%	13.9%	Y	a	TS
ZM	\$1.07e+11	\$362.9	\$415.5	32.6	124.1	25.3	34.3%	191.4%	53.4%	Y	a	TS
NVDA	\$4.99e+11	\$199.1	\$757.3	25.9	94.8	26.6	33.4%	83.8%	35.3%	Y	a	TS
ADBE	\$3.04e+11	\$634.4	\$619.0	21.1	55.2	21.9	45.1%	22.6%	48.5%	Y	a	TS
TSLA	\$7.16e+11	\$722.2	\$655.1	17.1	381.1	28.7	12.3%	98.1%	21.9%	Y	a	TS
PYPL	\$3.23e+11	\$274.6	\$317.8	13.6	67.1	15.4	25.2%	18.6%	24.0%	Y	a	TS
NFLX	\$2.29e+11	\$510.7	\$613.7	8.3	53.5	16.5	37.9%	19.4%	6.7%	Y	a	TS
SQ	\$1.24e+11	\$268.6	\$276.7	7.8	243.1	45.9	24.6%	143.3%	5.2%	Y	a	TS

PSR sorted list (2021-08-16)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	Y!	alpha	TS
ticker												
CRWD	\$5.58e+10	\$245.8	\$269.8	55.8	-	65.7	-19.4%	70.1%	40.6%	Y	a	TS
DOCU	\$5.79e+10	\$295.5	\$281.2	35.7	-	238.1	-53.2%	57.9%	22.9%	Y	a	TS
TWLO	\$6.51e+10	\$368.3	\$464.9	28.9	-	6.0	-9.7%	66.9%	2.0%	Y	a	TS
ABNB	\$9.17e+10	\$151.2	\$172.5	26.8	-	28.6	-	5.4%	12.7%	Y	a	TS
TWTR	\$5.21e+10	\$65.0	\$62.2	11.7	139.0	6.7	5.0%	74.2%	29.7%	Y	a	TS
GM	\$7.84e+10	\$54.6	\$72.1	0.6	6.3	1.6	24.9%	103.6%	18.9%	Y	a	TS
F	\$5.50e+10	\$13.9	\$15.0	0.4	16.1	1.6	10.4%	38.1%	15.3%	Y	a	TS

PSR sorted list (2021-08-16)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	Y!	alpha	TS
ticker												
ZS	\$3.37e+10	\$242.9	\$240.6	55.9	-	66.2	-54.7%	59.6%	31.4%	Y	a	TS
OKTA	\$3.64e+10	\$236.1	\$277.9	40.3	-	46.2	-58.0%	37.3%	16.1%	Y	a	TS
U	\$3.55e+10	\$126.7	\$123.0	38.2	-	17.6	-37.0%	48.4%	-8.6%	Y	a	TS
PLTR	\$4.86e+10	\$24.9	\$23.0	36.6	-	23.3	-90.3%	49.1%	5.2%	Y	a	TS
FIVN	\$1.29e+10	\$193.0	\$206.6	24.8	-	79.5	-22.8%	44.1%	12.9%	Y	a	TS
ROKU	\$4.86e+10	\$369.5	\$450.5	20.9	211.4	18.9	12.9%	81.2%	9.2%	Y	a	TS
PINS	\$3.61e+10	\$56.8	\$84.3	16.1	222.4	14.4	7.3%	125.0%	17.0%	Y	a	TS
EPAM	\$3.46e+10	\$602.0	\$505.0	11.4	90.1	15.6	20.1%	39.4%	13.7%	Y	a	TS
ETSY	\$2.41e+10	\$193.2	\$226.8	11.2	54.8	45.4	91.4%	23.4%	32.5%	Y	a	TS
MGA	\$2.57e+10	\$86.4	\$109.9	0.7	11.8	2.1	19.1%	110.4%	13.0%	Y	a	TS

PSR sorted list (2021-08-16)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	Y!	alpha	TS
ticker												
TTD	\$3.96e+10	\$85.6	\$69.7	38.3	155.9	33.0	26.9%	100.9%	32.8%	Y	a	TS
FVRR	\$6.18e+09	\$172.1	\$258.9	24.6	-	18.1	-12.6%	59.7%	12.6%	Y	a	TS
FLSY	\$4.98e+09	\$43.0	\$56.2	15.4	-	4.8	-22.7%	13.9%	-9.8%	Y	a	TS

```
[5]: import importlib
importlib.reload(mi)
df_res = mi.show_valuation(LIST, hist=False, table=True)
df_res = mi.show_valuation(LIST, hist=False, table=True, key="QRG")
```

PSR sorted list (2021-08-16)

Info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin (ttm)	Y!	alpha	TS
ticker												
ZS	\$3.37e+10	\$242.9	\$240.6	55.9	-	66.2	-54.7%	59.6%	31.4%	Y	a	TS
CRWD	\$5.58e+10	\$245.8	\$269.8	55.8	-	65.7	-19.4%	70.1%	40.6%	Y	a	TS
SHOP	\$1.86e+11	\$1,503.2	\$1,515.1	48.3	76.5	18.4	33.3%	56.7%	13.9%	Y	a	TS
OKTA	\$3.64e+10	\$236.1	\$277.9	40.3	-	46.2	-58.0%	37.3%	16.1%	Y	a	TS
TTD	\$3.96e+10	\$85.6	\$69.7	38.3	155.9	33.0	26.9%	100.9%	32.8%	Y	a	TS
U	\$3.55e+10	\$126.7	\$123.0	38.2	-	17.6	-37.0%	48.4%	-8.6%	Y	a	TS
PLTR	\$4.86e+10	\$24.9	\$23.0	36.6	-	23.3	-90.3%	49.1%	5.2%	Y	a	TS
DOCU	\$5.79e+10	\$295.5	\$281.2	35.7	-	238.1	-53.2%	57.9%	22.9%	Y	a	TS
ZIM	\$1.07e+11	\$362.9	\$415.5	32.6	124.1	25.3	34.3%	191.4%	53.4%	Y	a	TS
TWLO	\$6.51e+10	\$368.3	\$464.9	28.9	-	6.0	-9.7%	66.9%	2.0%	Y	a	TS
ABNB	\$9.17e+10	\$151.2	\$172.5	26.8	-	28.6	-	5.4%	12.7%	Y	a	TS
NVDA	\$4.99e+11	\$199.1	\$757.3	25.9	94.8	26.6	33.4%	83.8%	35.3%	Y	a	TS
FIVN	\$1.29e+10	\$193.0	\$206.6	24.8	-	79.5	-22.8%	44.1%	12.9%	Y	a	TS
FVR	\$6.18e+09	\$172.1	\$258.9	24.6	-	18.1	-12.6%	59.7%	12.6%	Y	a	TS
ADBE	\$3.04e+11	\$634.4	\$619.0	21.1	55.2	21.9	45.1%	22.6%	48.5%	Y	a	TS
ROKU	\$4.86e+10	\$369.5	\$450.5	20.9	211.4	18.9	12.9%	81.2%	9.2%	Y	a	TS
TSLA	\$7.16e+11	\$722.2	\$655.1	17.1	381.1	28.7	12.3%	98.1%	21.9%	Y	a	TS
PINS	\$3.61e+10	\$56.8	\$84.3	16.1	222.4	14.4	7.3%	125.0%	17.0%	Y	a	TS
FSLY	\$4.98e+09	\$43.0	\$56.2	15.4	-	4.8	-22.7%	13.9%	-9.8%	Y	a	TS
PYPL	\$3.23e+11	\$274.6	\$317.8	13.6	67.1	15.4	25.2%	18.6%	24.0%	Y	a	TS
MSFT	\$2.19e+12	\$289.8	\$298.9	13.0	36.2	15.4	47.1%	21.3%	45.7%	Y	a	TS
TWTR	\$5.21e+10	\$65.0	\$62.2	11.7	139.0	6.7	5.0%	74.2%	29.7%	Y	a	TS
EPAM	\$3.46e+10	\$602.0	\$505.0	11.4	90.1	15.6	20.1%	39.4%	13.7%	Y	a	TS
ETSY	\$2.41e+10	\$193.2	\$226.8	11.2	54.8	45.4	91.4%	23.4%	32.5%	Y	a	TS
FB	\$1.02e+12	\$362.6	\$386.5	9.8	27.0	7.4	31.3%	55.6%	47.1%	Y	a	TS
GOOG	\$1.84e+12	\$2,767.8	\$2,625.0	8.3	30.0	7.8	28.3%	61.6%	36.7%	Y	a	TS
NFLX	\$2.29e+11	\$510.7	\$613.7	8.3	53.5	16.5	37.9%	19.4%	6.7%	Y	a	TS
SQ	\$1.24e+11	\$268.6	\$276.7	7.8	243.1	45.9	24.6%	143.3%	5.2%	Y	a	TS
AAPL	\$2.46e+12	\$148.9	\$159.3	7.1	29.2	38.4	127.1%	36.4%	30.1%	Y	a	TS
AMZN	\$1.67e+12	\$3,303.5	\$4,241.3	3.8	57.4	14.5	31.2%	27.2%	13.4%	Y	a	TS
MGA	\$2.57e+10	\$86.4	\$109.9	0.7	11.8	2.1	19.1%	110.4%	13.0%	Y	a	TS
GM	\$7.84e+10	\$54.6	\$72.1	0.6	6.3	1.6	24.9%	103.6%	18.9%	Y	a	TS
F	\$5.50e+10	\$13.9	\$15.0	0.4	16.1	1.6	10.4%	38.1%	15.3%	Y	a	TS

QRG sorted list (2021-08-16)

info	Market Cap	Previous Close	1y Target Est	Price/Sales (ttm)	PE Ratio (TTM)	Price/Book (mrq)	Return on Equity (ttm)	Quarterly Revenue Growth (yoy)	Operating Cash Flow Margin(ttm)	Y1	alpha	TS
ticker												
ZM	\$1.07e+11	\$362.9	\$415.5		32.6	124.1	25.3	34.3%	191.4%	53.4%	Y	a TS
SQ	\$1.24e+11	\$268.6	\$276.7		7.8	243.1	45.9	24.6%	143.3%	5.2%	Y	a TS
PINS	\$3.61e+10	\$56.8	\$84.3		16.1	222.4	14.4	7.3%	125.0%	17.0%	Y	a TS
MGA	\$2.57e+10	\$86.4	\$109.9		0.7	11.8	2.1	19.1%	110.4%	13.0%	Y	a TS
GM	\$7.84e+10	\$54.6	\$72.1		0.6	6.3	1.6	24.9%	103.6%	18.9%	Y	a TS
TTD	\$3.96e+10	\$85.6	\$69.7		38.3	155.9	33.0	26.9%	100.9%	32.8%	Y	a TS
TSLA	\$7.16e+11	\$722.2	\$655.1		17.1	381.1	28.7	12.3%	98.1%	21.9%	Y	a TS
NVDA	\$4.99e+11	\$199.1	\$757.3		25.9	94.8	26.6	33.4%	83.8%	35.3%	Y	a TS
ROKU	\$4.86e+10	\$369.5	\$450.5		20.9	211.4	18.9	12.9%	81.2%	9.2%	Y	a TS
TWTR	\$5.21e+10	\$65.0	\$62.2		11.7	139.0	6.7	5.0%	74.2%	29.7%	Y	a TS
CRWD	\$5.58e+10	\$245.8	\$269.8		55.8	-	65.7	-19.4%	70.1%	40.6%	Y	a TS
TWLO	\$6.51e+10	\$368.3	\$464.9		28.9	-	6.0	-9.7%	66.9%	2.0%	Y	a TS
GOOG	\$1.84e+12	\$2,767.8	\$2,625.0		8.3	30.0	7.8	28.3%	61.6%	36.7%	Y	a TS
FVRR	\$6.18e+09	\$172.1	\$258.9		24.6	-	18.1	-12.6%	59.7%	12.6%	Y	a TS
ZS	\$3.37e+10	\$242.9	\$240.6		55.9	-	66.2	-54.7%	59.6%	31.4%	Y	a TS
DOCU	\$5.79e+10	\$295.5	\$281.2		35.7	-	238.1	-53.2%	57.9%	22.9%	Y	a TS
SHOP	\$1.86e+11	\$1,503.2	\$1,515.1		48.3	76.5	18.4	33.3%	56.7%	13.9%	Y	a TS
FB	\$1.02e+12	\$362.6	\$386.5		9.8	27.0	7.4	31.3%	55.6%	47.1%	Y	a TS
PLTR	\$4.86e+10	\$24.9	\$23.0		36.6	-	23.3	-90.3%	49.1%	5.2%	Y	a TS
U	\$3.55e+10	\$126.7	\$123.0		38.2	-	17.6	-37.0%	48.4%	-8.6%	Y	a TS
FIVN	\$1.29e+10	\$193.0	\$206.6		24.8	-	79.5	-22.8%	44.1%	12.9%	Y	a TS
EPAM	\$3.46e+10	\$602.0	\$505.0		11.4	90.1	15.6	20.1%	39.4%	13.7%	Y	a TS
F	\$5.50e+10	\$13.9	\$15.0		0.4	16.1	1.6	10.4%	38.1%	15.3%	Y	a TS
OKTA	\$3.64e+10	\$236.1	\$277.9		40.3	-	46.2	-58.0%	37.3%	16.1%	Y	a TS
AAPL	\$2.46e+12	\$148.9	\$159.3		7.1	29.2	38.4	127.1%	36.4%	30.1%	Y	a TS
AMZN	\$1.67e+12	\$3,303.5	\$4,241.3		3.8	57.4	14.5	31.2%	27.2%	13.4%	Y	a TS
ETSY	\$2.41e+10	\$193.2	\$226.8		11.2	54.8	45.4	91.4%	23.4%	32.5%	Y	a TS
ADBE	\$3.04e+11	\$634.4	\$619.0		21.1	55.2	21.9	45.1%	22.6%	48.5%	Y	a TS
MSFT	\$2.19e+12	\$289.8	\$298.9		13.0	36.2	15.4	47.1%	21.3%	45.7%	Y	a TS
NFLX	\$2.29e+11	\$510.7	\$613.7		8.3	53.5	16.5	37.9%	19.4%	6.7%	Y	a TS
PYPL	\$3.23e+11	\$274.6	\$317.8		13.6	67.1	15.4	25.2%	18.6%	24.0%	Y	a TS
FSLY	\$4.98e+09	\$43.0	\$56.2		15.4	-	4.8	-22.7%	13.9%	-9.8%	Y	a TS
ABNB	\$9.17e+10	\$151.2	\$172.5		26.8	-	28.6	-	5.4%	12.7%	Y	a TS

1.2.3 FANGAM

```
[ ]: mi.plot_eps(fangam,largefig=True)
mi.search_good_eps(fangam, last=200)
```

1.3 Health

```
[12]: H_E11 = [
    "PFE",
    "DHR",
    "MRNA",
    "BMY",
    "AMGN",
    "BNTX",
]
H_E10 = [
    "ANTM",
    "VEEV",
    "BIIB",
```

```

    "A",
    "RPRX",
]
H_E9 = [
    "INOV",
    "PGNY",
    "INMD",
    "DOCS"
]
]
health = H_E11 + H_E10 + H_E9

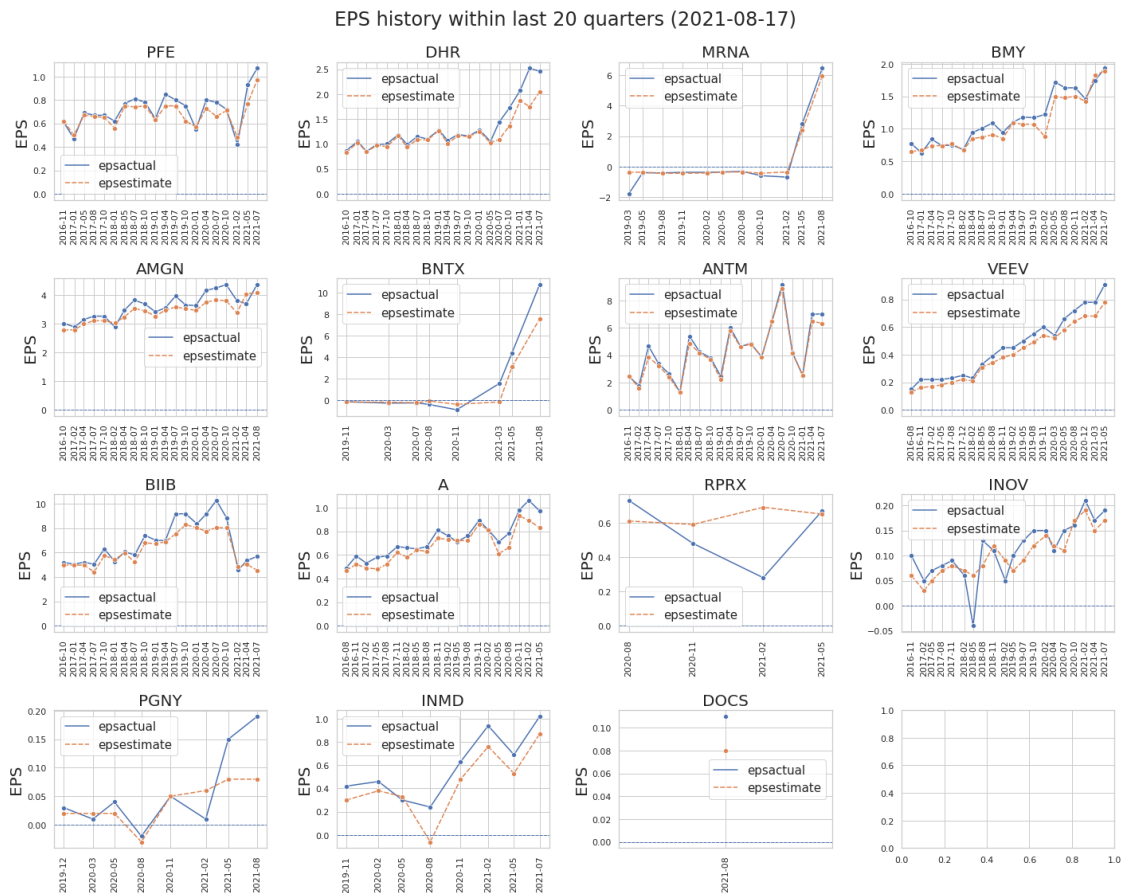
```

```

[13]: # import importlib
# importlib.reload(mi)
# EPS history
mi.plot_eps_history(health,last=20)

```

ntick: 15, nrow: 4, ncol: 4

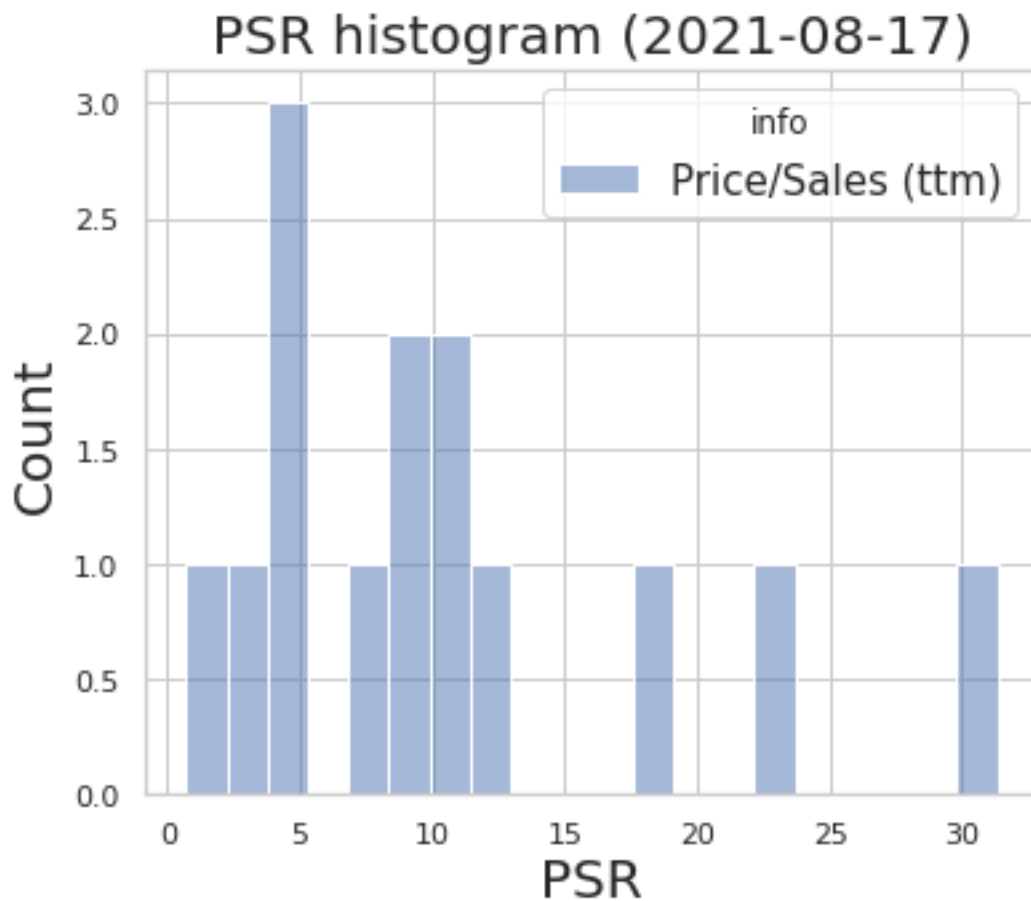


	ticker	companyshortname	startdatetime	startdatetime	type	epsestimate	epsactual	epssurprise	timeZoneShortName	gmtOffsetMilliseconds	quoteType
2	PFE	Pfizer Inc.	2021-07-28		TNS	0.97	1.07	10.20	EDT	0	EQUITY
3	PFE	Pfizer Inc.	2021-05-04		TNS	0.77	0.93	20.31	EDT	0	EQUITY
4	PFE	Pfizer Inc.	2021-02-02		TNS	0.48	0.42	-13.04	EDT	0	EQUITY
5	PFE	Pfizer Inc.	2020-10-27		TNS	0.71	0.72	0.84	EDT	0	EQUITY
6	PFE	Pfizer Inc.	2020-07-28		TNS	0.66	0.78	17.65	EDT	0	EQUITY
...
4	INMD	InMode Ltd.	2020-08-05		TNS	-0.06	0.24	513.79	EDT	0	EQUITY
5	INMD	InMode Ltd.	2020-05-06		TNS	0.33	0.30	-7.69	EDT	0	EQUITY
6	INMD	InMode Ltd.	2020-02-18		TNS	0.38	0.46	20.10	EDT	0	EQUITY
7	INMD	InMode Ltd.	2019-11-05		TNS	0.30	0.42	40.94	EDT	0	EQUITY
0	DOCS	Doximity, Inc.	2021-08-10		TNS	0.08	0.11	41.03	EDT	0	EQUITY

750 rows x 10 columns

```
[15]: import importlib
importlib.reload(mi)

df_res=mi.show_valuation(health,table=True)
#df_cap=mi.show_valuation(health,table=True,hist=False,key="Cap")
```



```

-----
OSError                                Traceback (most recent call last)
/tmp/ipykernel_35/1554294065.py in <module>
      2 importlib.reload(mi)
      3
----> 4 df_res=mi.show_valuation(health,table=True)
      5 #df_cap=mi.show_valuation(health,table=True,hist=False,key="Cap")

~/yahoo_fin/mystock_info.py in show_valuation(tickers, clear_cache, hist, table
↳key, ascending, verbose)
    458     file.write(html)
    459     file.close()
--> 460     dfi.export(html, 'financial.pdf')
    461     dfi.export(html, 'financial.png')
    462

~/local/lib/python3.8/site-packages/dataframe_image/_pandas_accessor.py in
↳export(obj, filename, fontsize, max_rows, max_cols, table_conversion,
↳chrome_path)
    22 def export(obj, filename, fontsize=14, max_rows=None, max_cols=None,
    23               table_conversion='chrome', chrome_path=None):
--> 24     return _export(obj, filename, fontsize, max_rows, max_cols,
↳table_conversion, chrome_path)
    25
    26

~/local/lib/python3.8/site-packages/dataframe_image/_pandas_accessor.py in
↳_export(obj, filename, fontsize, max_rows, max_cols, table_conversion,
↳chrome_path)
    30
    31     if table_conversion == 'chrome':
--> 32         converter = Screenshot(max_rows=max_rows, max_cols=max_cols,
↳chrome_path=chrome_path,
    33                               fontsize=fontsize, encode_base64=False,
↳limit_crop=False).run
    34     else:

~/local/lib/python3.8/site-packages/dataframe_image/_screenshot.py in
↳__init__(self, center_df, max_rows, max_cols, chrome_path, fontsize,
↳encode_base64, limit_crop)
    74     self.ss_width = 1400
    75     self.ss_height = 900
--> 76     self.chrome_path = get_chrome_path(chrome_path)
    77     self.css = self.get_css(fontsize)
    78     self.encode_base64 = encode_base64

```

```
~/local/lib/python3.8/site-packages/dataframe_image/_screenshot.py in
↳get_chrome_path(chrome_path)
    50         if chrome_path:
    51             return chrome_path
---> 52         raise OSError("Chrome executable not able to be found on your
↳machine")
    53     elif system == "windows":
    54         import winreg

OSError: Chrome executable not able to be found on your machine
```

```
[6]: #import pandas as pd
import importlib
importlib.reload(mi)
pd.__version__
```

```
[6]: '1.3.1'
```

1.4 Get stock info of your favorite

1.4.1 Find Tickers with high EPS beat ratio

```
[9]: # pd.set_option('display.max_rows', df.shape[0]+1)
tickers_nasdaq = si.tickers_nasdaq()
ret=mi.search_good_eps(tickers_nasdaq[:10],last=40,threshold=95,min_qtrs=20)
```

```
-----
AttributeError                                Traceback (most recent call last)
/tmp/ipykernel_36/4042142324.py in <module>
      1 # pd.set_option('display.max_rows', df.shape[0]+1)
      2 tickers_nasdaq = si.tickers_nasdaq()
----> 3 ret=mi.search_good_eps(tickers_nasdaq[:
↳10],last=40,threshold=95,min_qtrs=20)

AttributeError: module 'mystock_info' has no attribute 'search_good_eps'
```

```
[8]: !pip install pandas==1.3.1
```

```
Defaulting to user installation because normal site-packages is not writeable
Collecting pandas==1.3.1
  Downloading
pandas-1.3.1-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.7 MB)
    |                               | 11.7 MB 310 kB/s eta 0:00:01
    |                               | 4.1 MB 4.5 MB/s eta 0:00:02
    |                               | 8.8 MB 4.5 MB/s eta 0:00:01
    |                               | 10.2 MB 4.5 MB/s eta 0:00:01
Requirement already satisfied: numpy>=1.17.3 in
```



```
/usr/local/lib/python3.8/dist-packages (from pandas==1.3.1) (1.21.1)
Requirement already satisfied: python-dateutil>=2.7.3 in
/usr/local/lib/python3.8/dist-packages (from pandas==1.3.1) (2.8.2)
Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.8/dist-
packages (from pandas==1.3.1) (2021.1)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.8/dist-
packages (from python-dateutil>=2.7.3->pandas==1.3.1) (1.16.0)
Installing collected packages: pandas
ERROR: pip's dependency resolver does not currently take into account all
the packages that are installed. This behaviour is the source of the following
dependency conflicts.

fastquant 0.1.6.1 requires pandas==1.1.5, but you have pandas 1.3.1 which is
incompatible.
Successfully installed pandas-1.3.1
WARNING: You are using pip version 21.2.2; however, version 21.2.4 is
available.

You should consider upgrading via the '/usr/bin/python -m pip install --upgrade
pip' command.
```

[]: