In [1]: import glob import pandas as pd from pandas import read csv import ipywidgets as widgets from ipywidgets import interact, interact manual import plotly.express as px import plotly.graph_objects as go import os from IPython.display import display, Image import numpy as np In [2]: | # get data file names path =r'/Users/cindymendoncapaez/opt/anaconda3/lib/python3.8/site-packages/folium/finance project/Breakout US stocks' filenames = glob.glob(path + "/*.csv") dfs = []for filename in filenames: dfs.append(pd.read csv(filename)) # Concatenate all data into one DataFrame big frame = pd.concat(dfs, ignore index=True) In [3]: #set the column names big frame.columns = ['time', 'open', 'high', 'low', 'close', 'MA50', 'MA20', 'MA10', 'ADR', 'DV M', 'MA20 DV M', 'entry/exit'] big frame Out[3]: high **MA50 MA20 MA10 ADR** DV M MA20 DV M entry/exit time low close open **0** 2014-04-16T15:30:00+02:00 1.32 1.3297 1.270 1.2900 1.526000 1.398500 1.40402 4.946169 0.124528 0.160346 NaN 1.4400 1.320 1.3700 1.393000 1.40302 5.228300 0.167653 **1** 2014-04-17T15:30:00+02:00 1.34 1.524400 0.266812 NaN 1.3900 1.523074 1.391185 **2** 2014-04-21T15:30:00+02:00 1.37 1.340 1.3637 1.38939 4.950582 0.202221 0.159332 NaN 3 2014-04-22T15:30:00+02:00 1.3900 1.350 1.38638 4.762909 0.111773 1.39 1.3600 1.519874 1.391185 0.143844 NaN **4** 2014-04-23T15:30:00+02:00 1.33 1.4100 1.330 1.3900 1.512874 1.392185 1.37538 4.838097 0.110897 0.143069 NaN 2021-12-08T15:30:00+01:00 2013.76 2019.9650 1940.600 1988.8600 1803.385200 1880.377000 1875.55300 2.231629 285934 497.250916 300.128051 NaN 285935 2021-12-09T15:30:00+01:00 1978.23 2008.2400 1951.860 1965.8300 1807.961800 1884.597500 1886.63100 2.283983 532.271101 308.351072 NaN 1958.950 2003.0200 1814.062400 285936 2021-12-10T15:30:00+01:00 1975.79 2006.6700 1890.404000 1905.51500 2.331454 319.769752 312.102683 NaN 2021-12-13T15:30:00+01:00 2001.38 2001.3900 1963.630 1986.1000 1820.338800 1895.397500 1920.25600 2.362024 336.616320 285937 317.529991 NaN 285938 2021-12-14T15:30:00+01:00 1982.98 2011.2100 1971.075 1986.5000 1827.218600 1899.130500 1937.19900 2.370320 307.330713 NaN 285939 rows × 12 columns #file=os.listdir(csv directory)): In [11]: #tickers = pd.read csv(path+file, sep = ',') combined data = big frame #combined_data.columns = ['time', 'open', 'high', 'low', 'close', 'MA50', 'MA20', 'MA10', 'ADR', 'DV M', 'MA20 DV M', 'entry/exit'] #days high = tickers["high"] #days low = tickers["low"] #days close = tickers["close"] combined_data = combined_data[combined_data['entry/exit'].isin(["entry","exit"])] combined data['entry price'] = np.NaN combined data['exit price'] = np.NaN combined_data['profit'] = np.NaN combined data['risk'] = np.NaN combined data['R'] = np.NaN combined_data.loc[combined_data['entry/exit'].isin(["entry"]), 'entry_price'] = (combined_data['low'] + combined_data['high']) /2 combined data.loc[combined data['entry/exit'].isin(["exit"]), 'exit price'] = combined data['close'] combined_data['entry_price'] = combined_data['entry_price'].fillna(method='ffill') combined_data.loc[combined_data['entry/exit'].isin(["exit"]), 'profit'] = combined_data['exit_price']-combined_data['entry_price'] combined_data.loc[combined_data['entry/exit'].isin(["entry"]),'risk'] = combined_data['entry_price']-combined_data['low'] combined data['risk'] = combined data['risk'].fillna(method='ffill') combined_data.loc[combined_data['entry/exit'].isin(["exit"]), 'R'] = combined_data['profit']/combined_data['risk'] from plotly import __version__ from plotly.offline import download_plotlyjs, init_notebook_mode, plot, iplot import cufflinks as cf cf.go_offline() combined data.drop(combined data[combined data['entry/exit'] == 'entry'].index, inplace=True) combined_data.iplot(kind='scatter', x='ADR', y='R', mode='markers', size=10) <ipython-input-11-66d8a0ee39ef>:9: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row_indexer,col_indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#returning-a-view-versus-a-copy <ipython-input-11-66d8a0ee39ef>:10: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row indexer,col indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy <ipython-input-11-66d8a0ee39ef>:11: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row indexer,col indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy <ipython-input-11-66d8a0ee39ef>:12: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row_indexer,col_indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy <ipython-input-11-66d8a0ee39ef>:13: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row_indexer,col_indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row_indexer,col_indexer] = value instead See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy <ipython-input-11-66d8a0ee39ef>:16: SettingWithCopyWarning: A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row indexer,col indexer] = value instead

<ipython-input-11-66d8a0ee39ef>:19: SettingWithCopyWarning:

C:\Users\baszo\anaconda3\lib\site-packages\pandas\core\indexing.py:966: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame. Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user guide/indexing.html#returning-a-view-versus-a-copy

140 120-100-80-60-40 20 0 10 15 20 25 **Export to plot.ly »**

big frame = big frame.replace('entry',1) big frame Out[4]:

fig.add trace(go.Bar(

xperiod="M1",

))

fig.show()

name="Middle-aligned",

xperiodalignment="middle"

x=df["time"], y=df["entry/exit"],

fig.update xaxes(showgrid=True, ticklabelmode="period")

In

In [4]: #find the entries

1613 2020-09-11T15:30:00+02:00 0.684100 0.767000 0.674101

time

big_frame = big_frame.loc[big_frame['entry/exit']=='entry']

open

high

low

	3807	2021-08-02T15:30:00+02:00	12.890000	14.901500	12.890000	14.270000	10.992000	11.938000	12.738000	12.674249	2.589584	3.111956	1	
	5581	2017-11-13T15:30:00+01:00	1.140000	1.260000	1.140000	1.240000	0.850100	1.115210	1.144000	11.801697	2.615341	1.209093	1	
	5601	2017-12-12T15:30:00+01:00	1.600000	1.690000	1.540000	1.680000	1.257448	1.592000	1.632000	15.806241	0.985087	2.211793	1	
	7111	2016-08-23T15:30:00+02:00	13.820000	14.190000	13.740000	14.020000	11.892400	13.296500	13.724000	4.552783	2.458287	4.796923	1	
	•••													
	272622	2019-07-15T15:30:00+02:00	7.060000	7.190000	7.050000	7.180000	6.489800	6.825000	7.002000	2.186272	5.381759	2.894671	1	
	274819	2016-04-07T15:30:00+02:00	3.190000	3.309900	3.170000	3.290000	2.743600	3.074500	3.065000	5.713740	44.724623	40.827642	1	
	279299	2021-04-15T15:30:00+02:00	188.060000	188.750000	187.100000	188.460000	182.615000	186.515500	186.840000	1.736751	180.065789	123.897420	1	
	281173	2016-03-16T14:30:00+01:00	35.852566	37.429836	35.644574	37.265176	34.680533	35.778035	36.589203	3.399712	24.023687	28.360884	1	
	284941	2017-12-28T15:30:00+01:00	709.500000	719.060000	709.120000	718.380000	648.010000	704.945000	706.046000	2.330987	198.668407	351.702049	1	
	179 rows	× 12 columns												
n [5]:	<pre>df = big_frame</pre>													
	fig = g	o.Figure()												

close

0.766300

MA50

0.652296

MA20

0.704835

MA10

0.697170

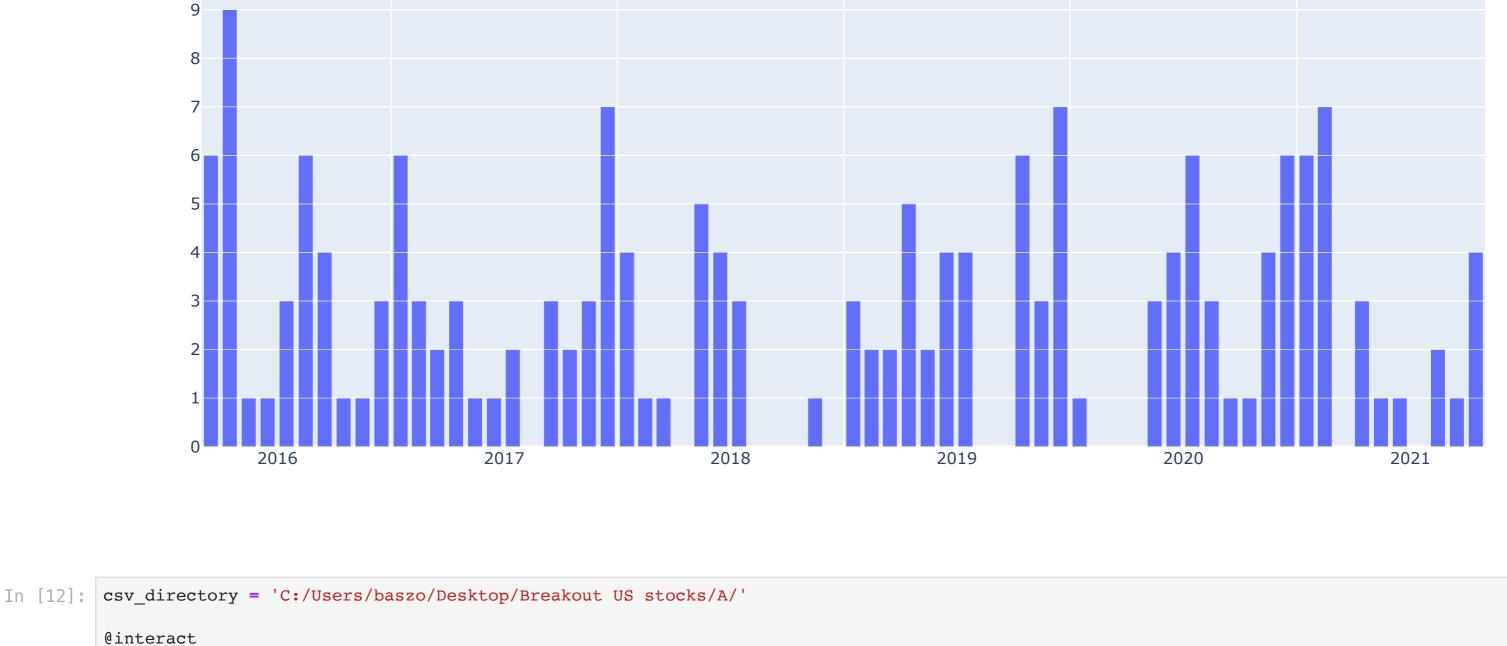
ADR

8.410072

0.813752

DV M MA20 DV M entry/exit

0.379531



```
def show_csv(file=os.listdir(csv_directory)):
             global code
             display(pd.read csv(csv directory+file, sep = ','))
             code = file.split('.csv')[0]
         fdir = '/Users/cindy/Desktop/Breakout US stocks/A/images/'
         @interact
         def show_images(ticker_name = code):
             list_code = os.listdir(fdir)
             list match = [x for x in list_code if x.startswith(ticker_name + '_')]
             for file in list_match:
                  display(Image(fdir+file))
         interactive(children=(Dropdown(description='file', options=('BATS_AAU, 1D_e000d.csv', 'BATS_ACY, 1D_ff128.csv'...
         interactive(children=(Text(value='BATS_AAU, 1D_e000d', description='ticker_name'), Output()), _dom_classes=('w...
In [13]: path = '/Users/cindy/Desktop/Breakout US stocks/A/'
         @interact
```

tickers = pd.read csv(path+file, sep = ',') code = file.split('.csv')[0] @interact def display_time_series(param = tickers):

list code = os.listdir(path) fig = px.line(tickers, x=tickers['time'], y=param)

def show_csv(file=os.listdir(path)):

global tickers

In []:

fig.show()

interactive(children=(Dropdown(description='file', options=('BATS_AAU, 1D_e000d.csv', 'BATS_ACY, 1D_ff128.csv'...

C:\Users\baszo\anaconda3\lib\site-packages\pandas\core\ops\array_ops.py:253: FutureWarning: elementwise comparison failed; returning scalar instead, but in the future will perform elementwise comparison

interactive(children=(Dropdown(description='param', options=('time', 'open', 'high', 'low', 'close', 'MA', 'MA...