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More projects can be found on my GitHub home page: https://github.com/wswvv

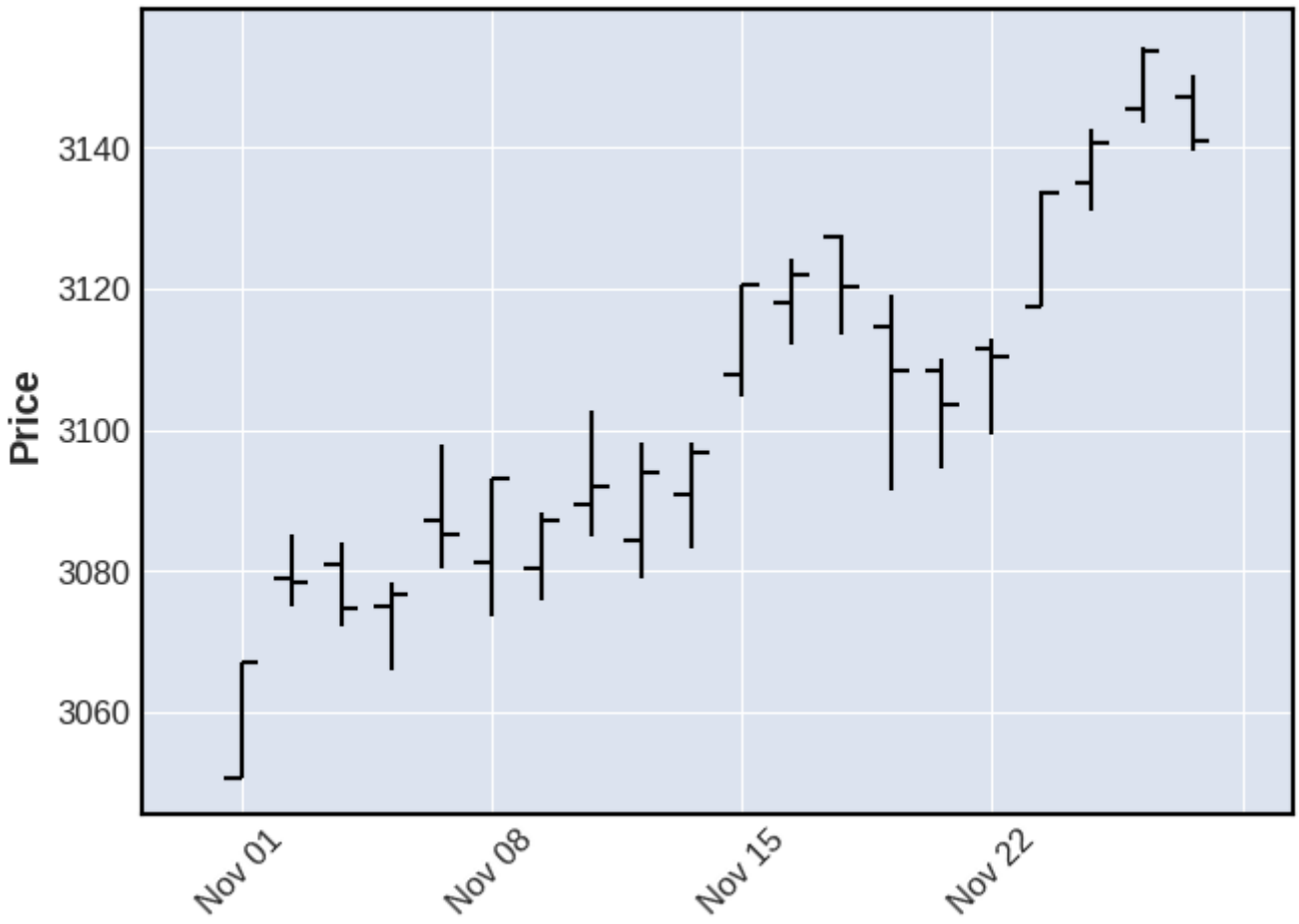
```
# 导入依赖环境
import numpy as np
import pandas as pd
import mplfinance as mpf
```

```
# 读取测试数据
daily =
pd.read_csv('data/SP500_NOV2019_Hist.csv',index_col=0,parse_dates=True)
daily.index.name = 'Date'

# 显示数据基本信息
daily.shape
daily.head(3)
daily.tail(3)
```

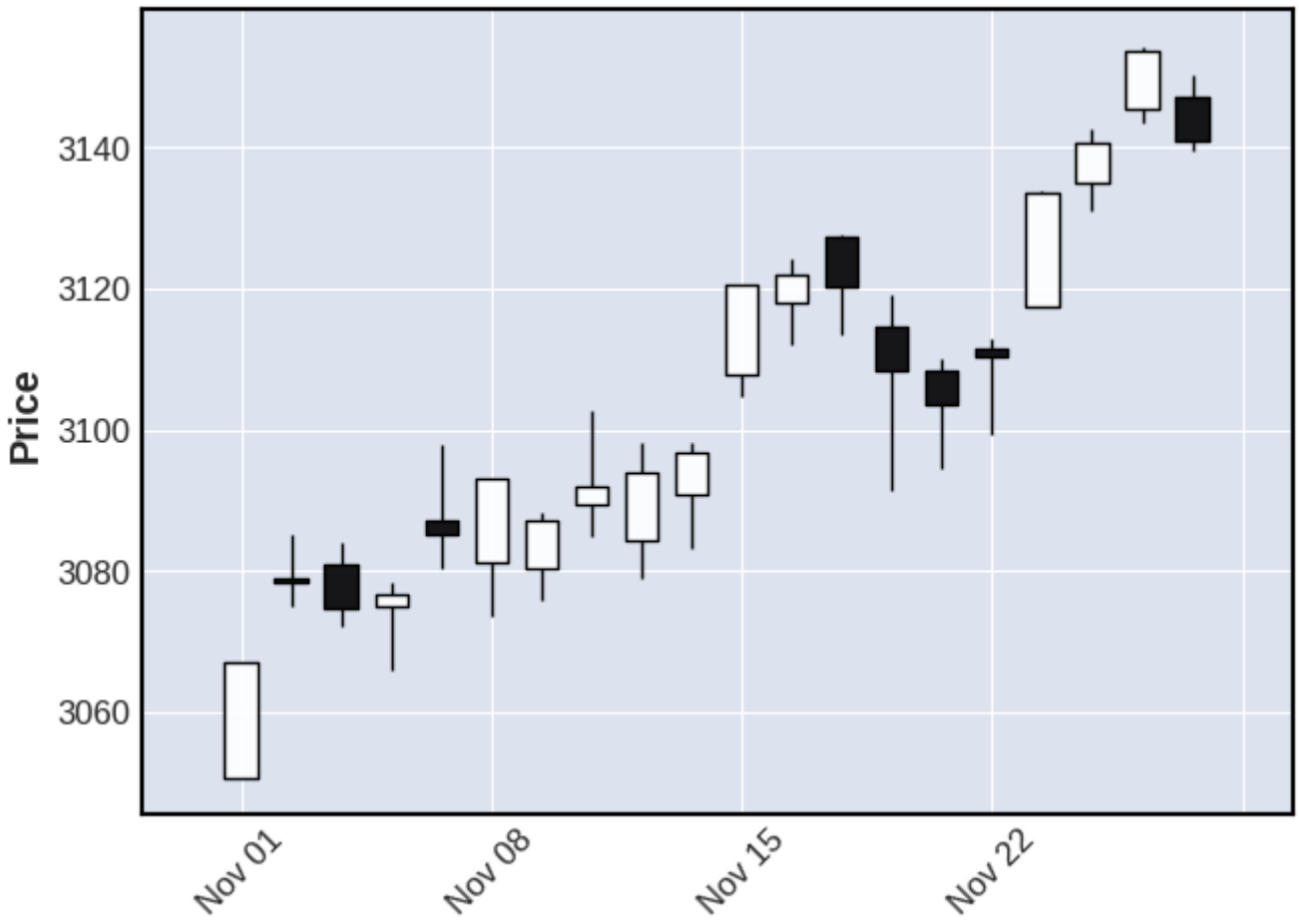
```
.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}
```

	Open	High	Low	Close	Volume
Date					
2019-11-26	3134.85	3142.69	3131.00	3140.52	986041660
2019-11-27	3145.49	3154.26	3143.41	3153.63	421853938
2019-11-29	3147.18	3150.30	3139.34	3140.98	286602291

```
# 绘制OHLC图
mpf.plot(daily)
```



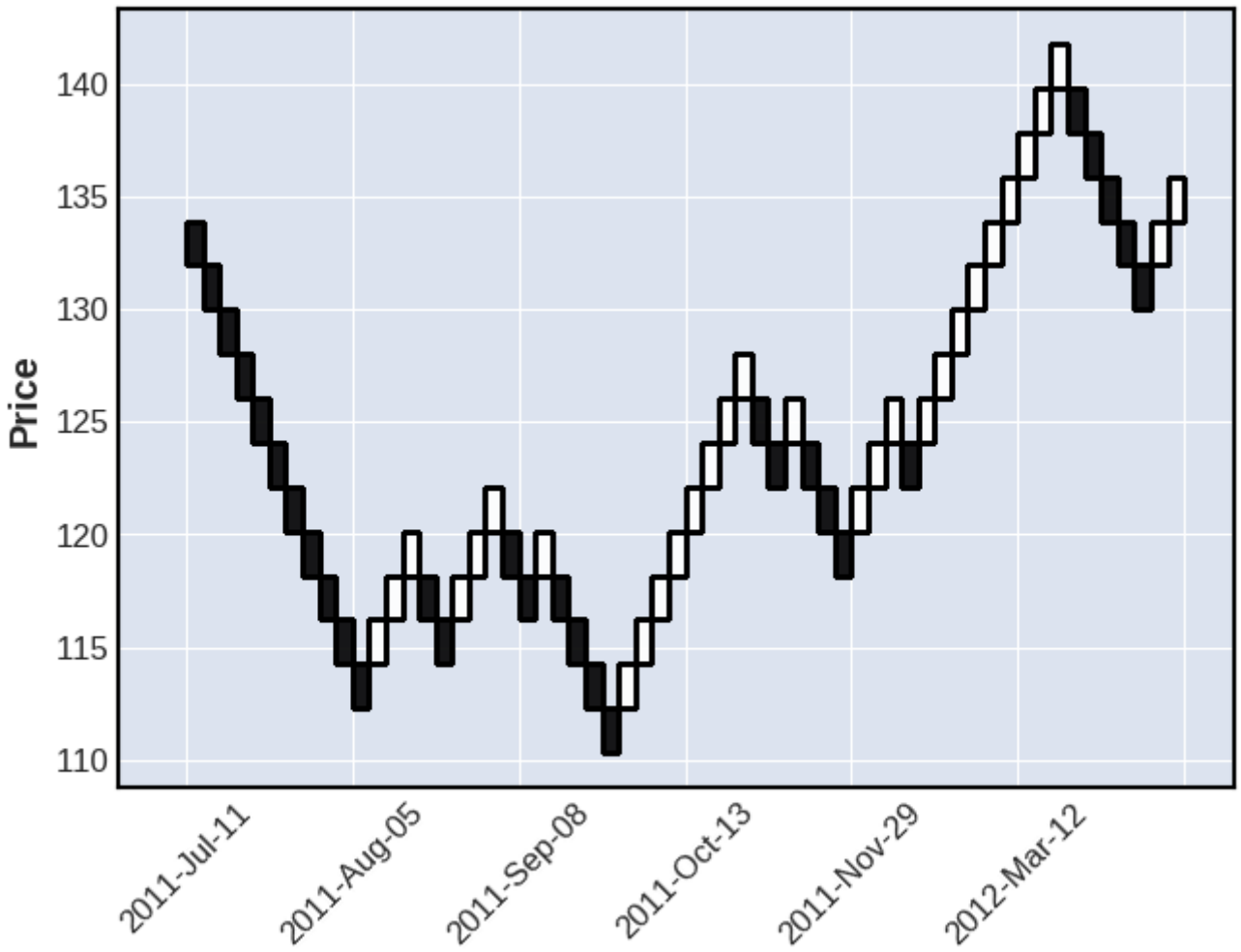

```
# 使用箱线图绘制数据
mpf.plot(daily,type='candle')
```



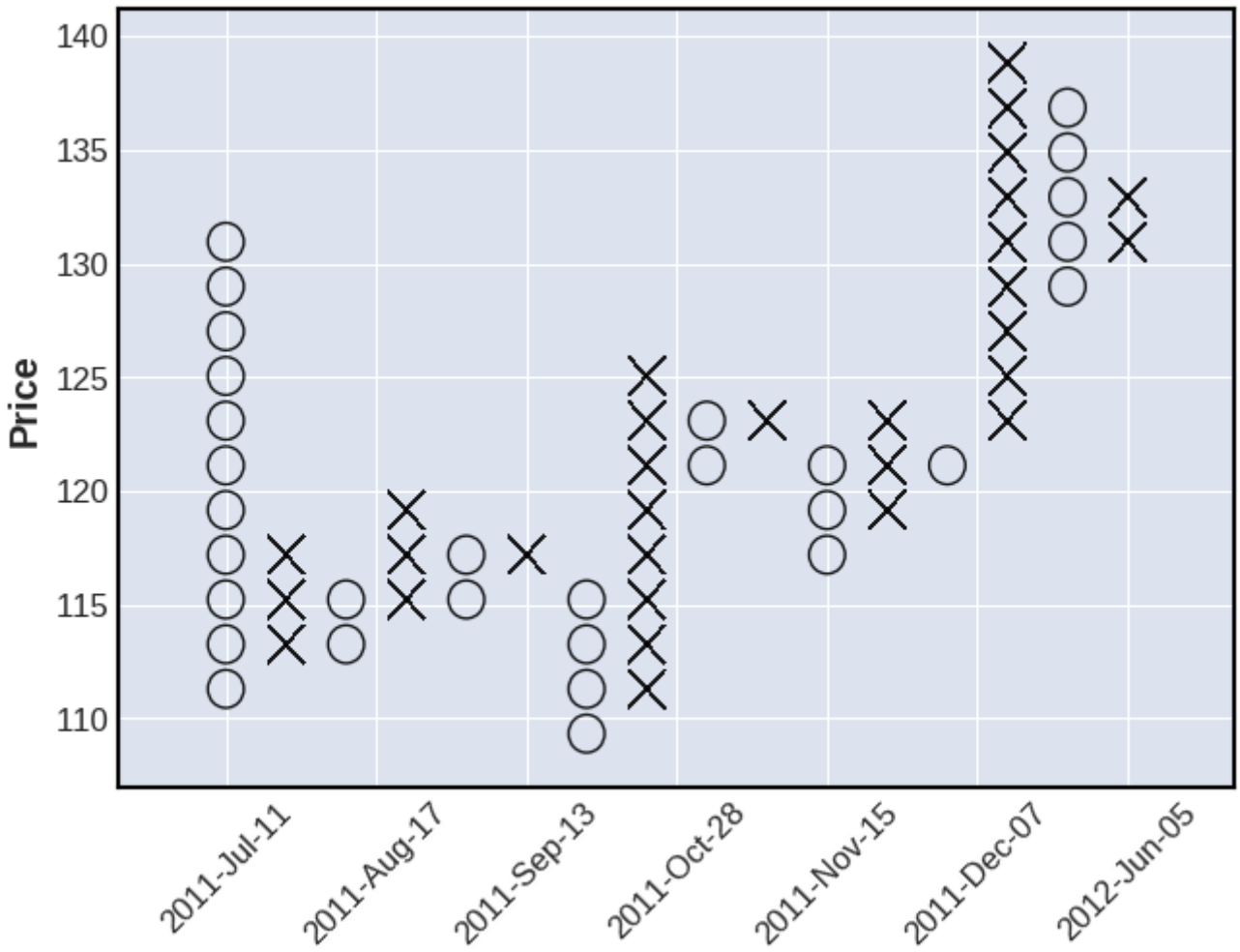

```
# 使用线形图绘制数据
mpf.plot(daily,type='line')
```

```
# 读取横坐标数据
year =
pd.read_csv('data/SPY_20110701_20120630_Bollinger.csv',index_col=0,parse_d
ates=True)
year.index.name = 'Date'
```

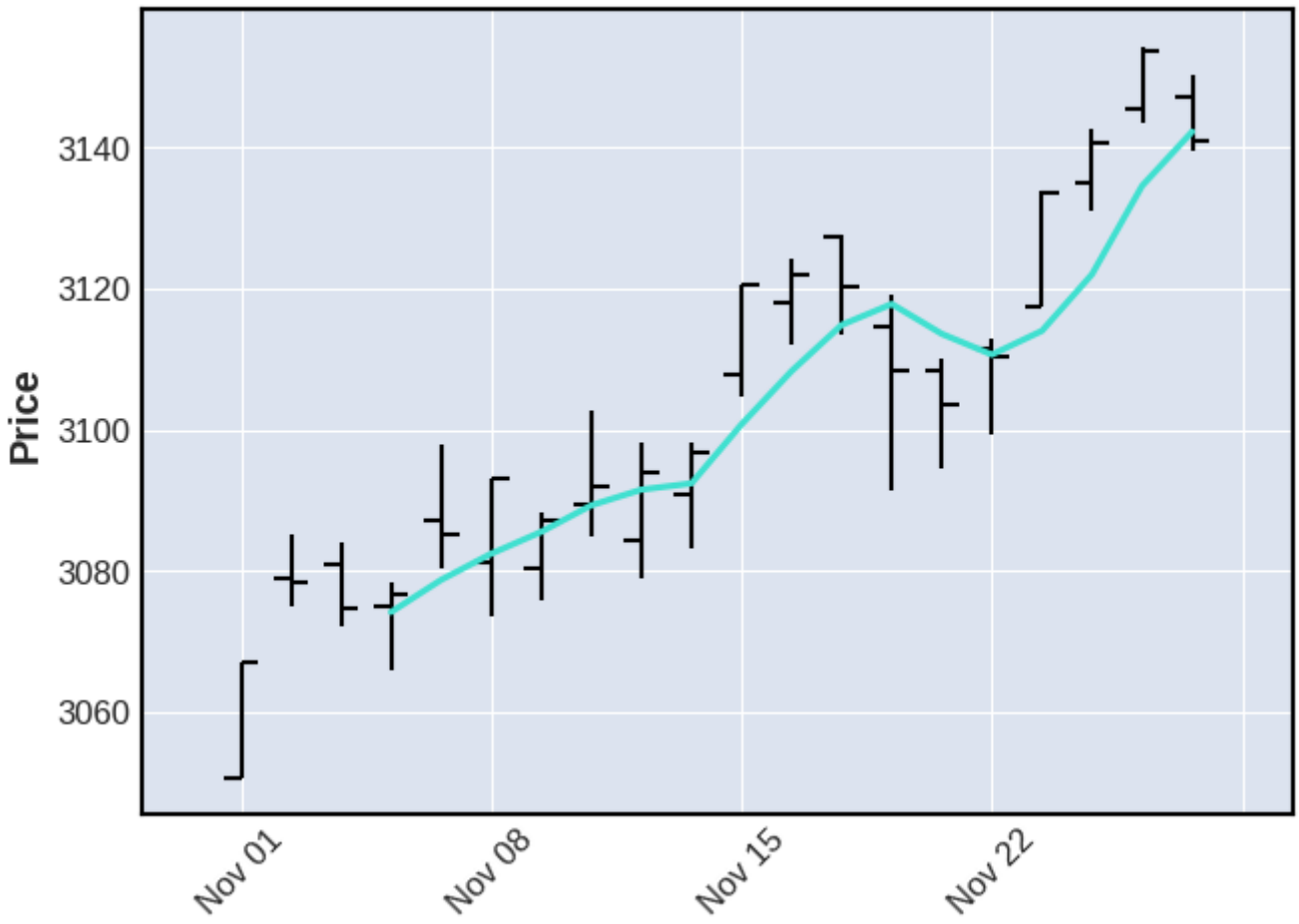
```
# 绘制year-price的renko图
mpf.plot(year,type='renko')
```



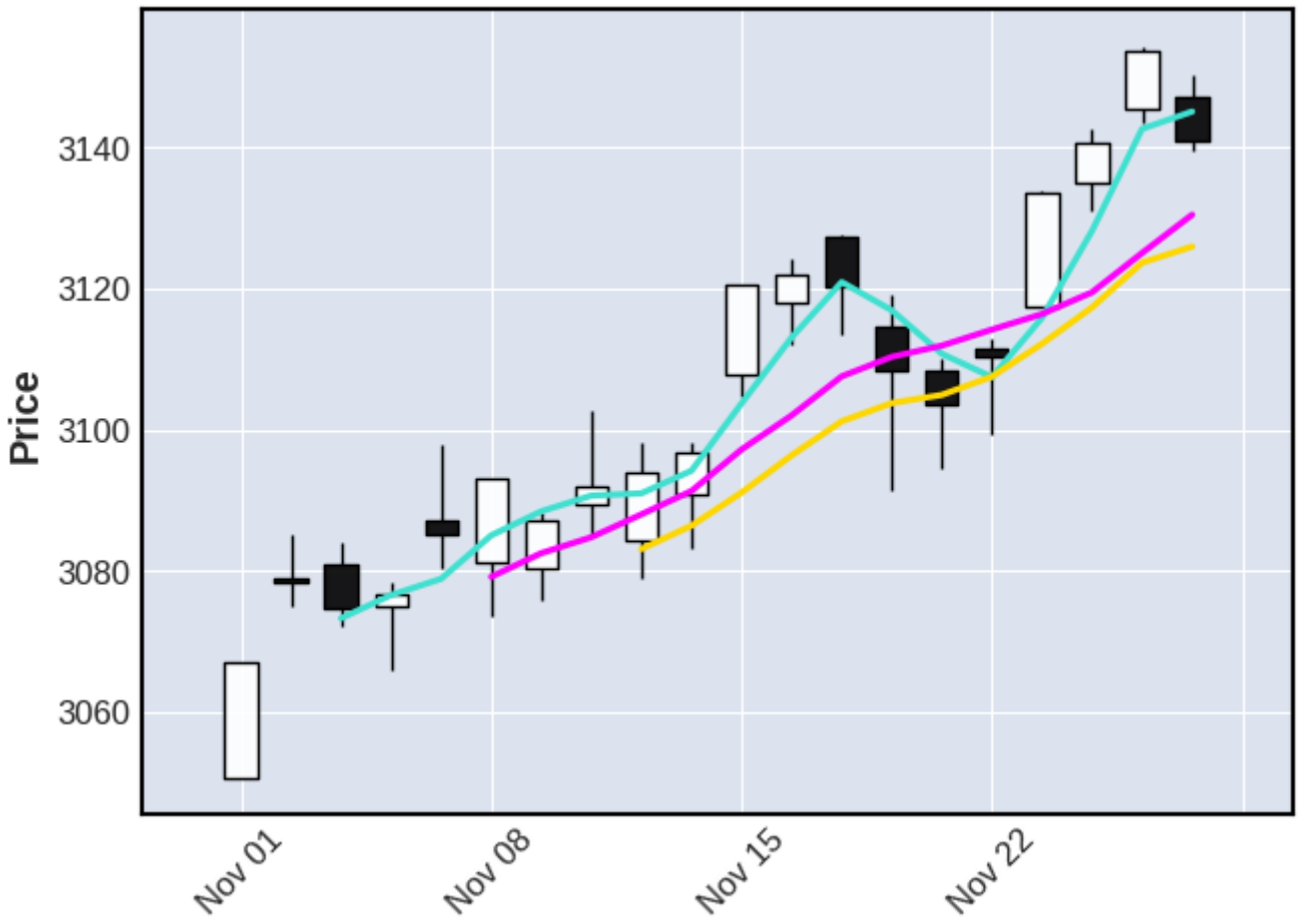

```
# 绘制PNF图
mpf.plot(year,type='pnf')
```




```
# 使用mav参数绘制移动平均线
# 在数据中添加平均线
mpf.plot(daily,type='ohlc',mav=4)
```



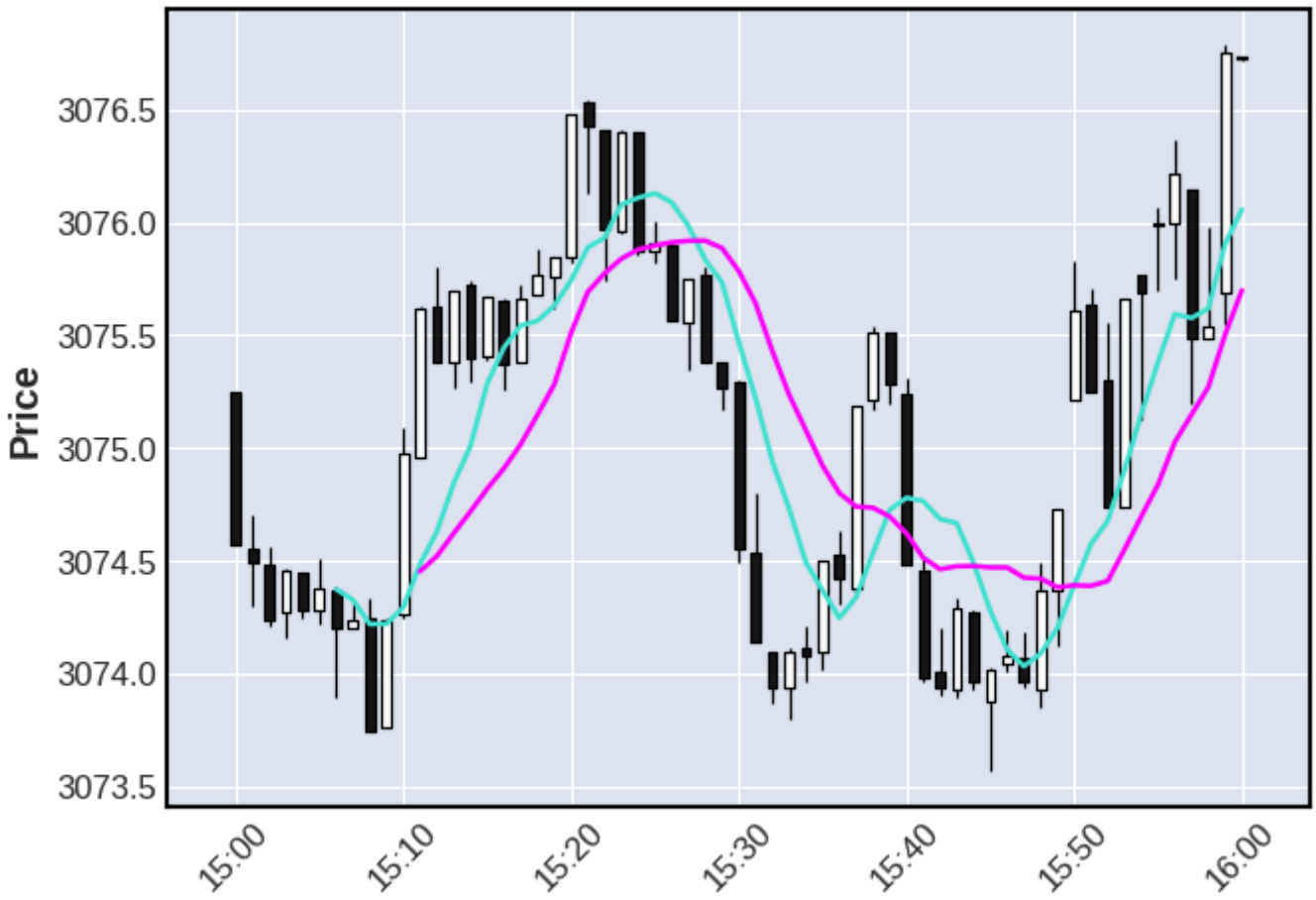

```
# 不同移动范围内的移动平均线
mpf.plot(daily,type='candle',mav=(3,6,9))
```



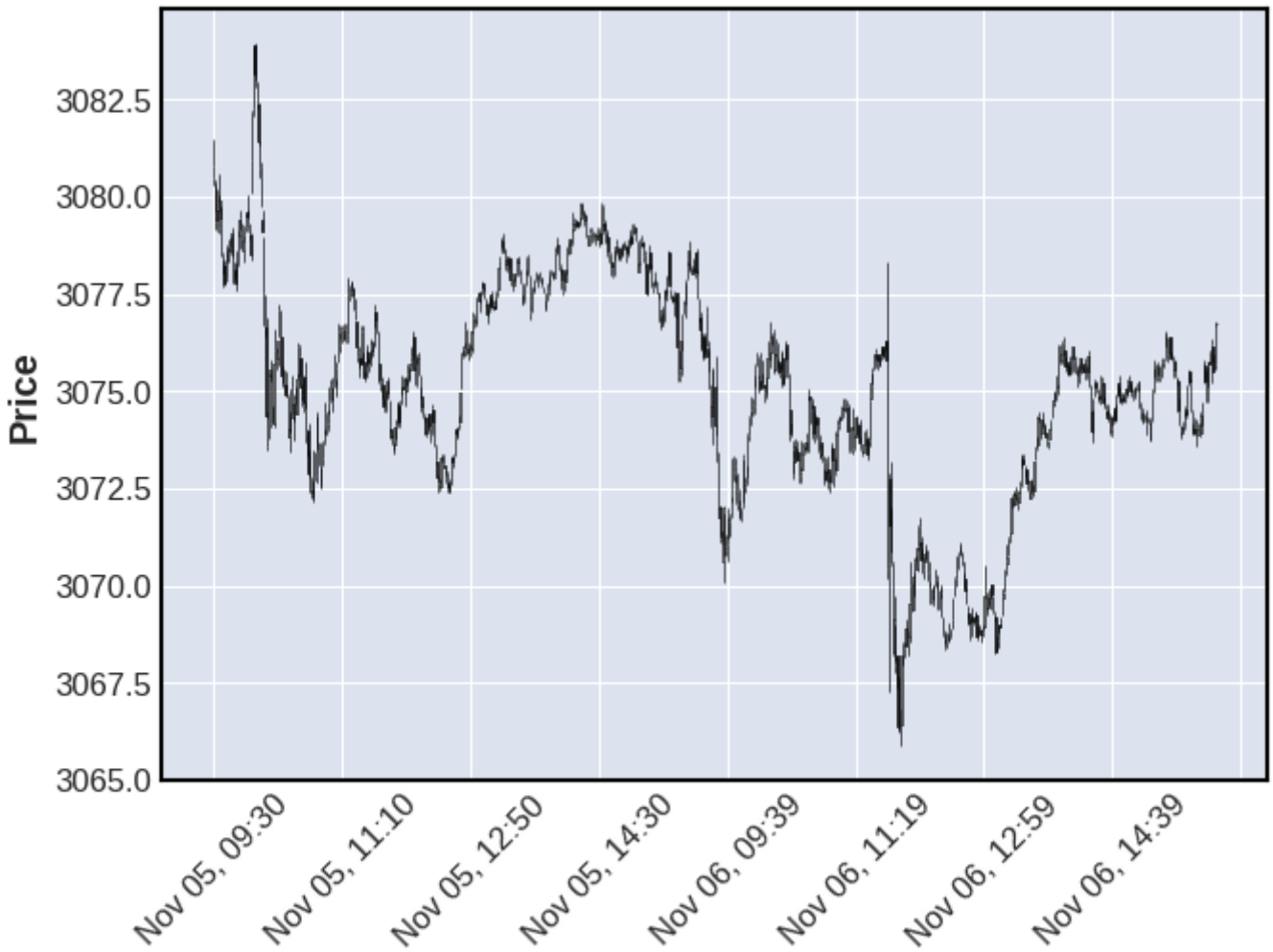

```
# 多数据表融合
mpf.plot(daily,type='candle',mav=(3,6,9),volume=True)
```

```
# 绘制日内交易数据
## 上述数据框包含标准普尔500指数2019年11月5日、6日、7日和8日的开盘、高点、低点和收盘数据，
## 每1分钟一次。让我们看看11月6日最后一个交易小时，7分钟和12分钟的移动平均线。
intraday =
pd.read_csv('data/SP500_NOV2019_IDay.csv',index_col=0,parse_dates=True)
intraday = intraday.drop('Volume',axis=1) # Volume is zero anyway for this
intraday data set
intraday.index.name = 'Date'
```

```
# 绘制日内数据波动图
iday = intraday.loc['2019-11-06 15:00':'2019-11-06 16:00',:]
mpf.plot(iday,type='candle',mav=(7,12))
```




```
# 显示日期的跨日数据波动图
iday = intraday.loc['2019-11-05':'2019-11-06',:]
mpf.plot(iday,type='candle')
```


Price
3082.5
3080.0
3077.5
3075.0
3072.5
3070.0
3067.5
3065.0
Nov 05, 09:30
Nov 05, 11:10
Nov 05, 12:50
Nov 05, 14:30
Nov 06, 09:39
Nov 06, 11:19
Nov 06, 12:59
Nov 06, 14:39