

```
import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         import seaborn as sns
         import seaborn as sns
         %matplotlib inline

√ 3.6s

[1]
        from plotly import __version__
        print( version )

√ 0.7s

[2]
     5.6.0
         import cufflinks as cf
[3]
      ✓ 1.1s
        from plotly.offline import download_plotlyjs, init_notebook_mode,plot,iplot
[4]

√ 0.4s

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```
init_notebook_mode(connected=True)

√ 0.3s

[5]
        cf.go_offline()
[6]
      ✓ 0.8s
        #DATA
        df = pd.DataFrame(np.random.randn(100,4), columns='A B C D'.split())
[7]

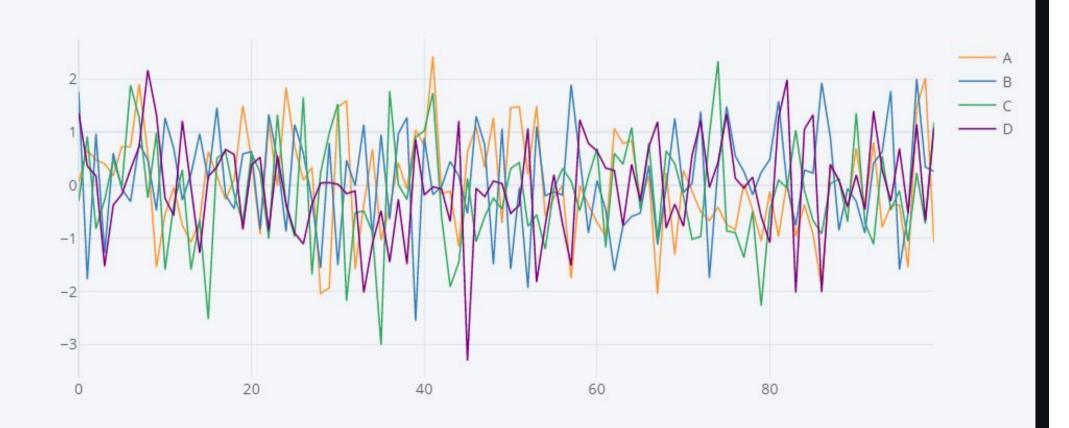
√ 0.8s

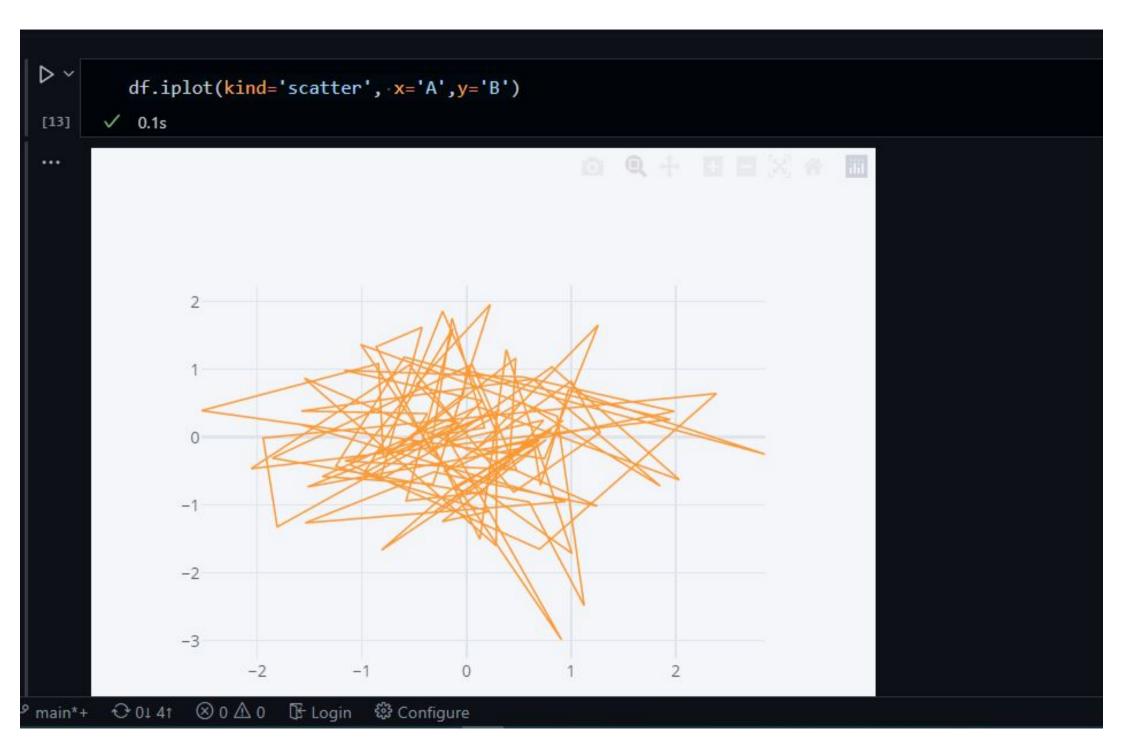
        df.head()

√ 0.1s

[8]
                Α
                            В
                                       C
                                                  D
        -1.611371
                                0.706149
                     0.197909
                                           0.065155
          0.946478
                    -0.948953
                               -0.041923
                                           1.850320
         -1.541073
                    -1.263148
                                0.864751
                                          -0.770196
         -0.311397
                   -0.512164
                                0.345728
                                           0.906810
```

```
D ~
         df2 = pd.DataFrame({'Categroy':['A','B','C'], 'Values':[32,43,50]})
      ✓ 0.5s
[9]
         df2
      ✓ 0.9s
[10]
                   Values
         Categroy
      0
                Α
                       32
      1
                       43
      2
                       50
         df.iplot()
      ✓ 1.1s
[12]
       ◆014t ⊗0 A 0 1 Login $ Configure
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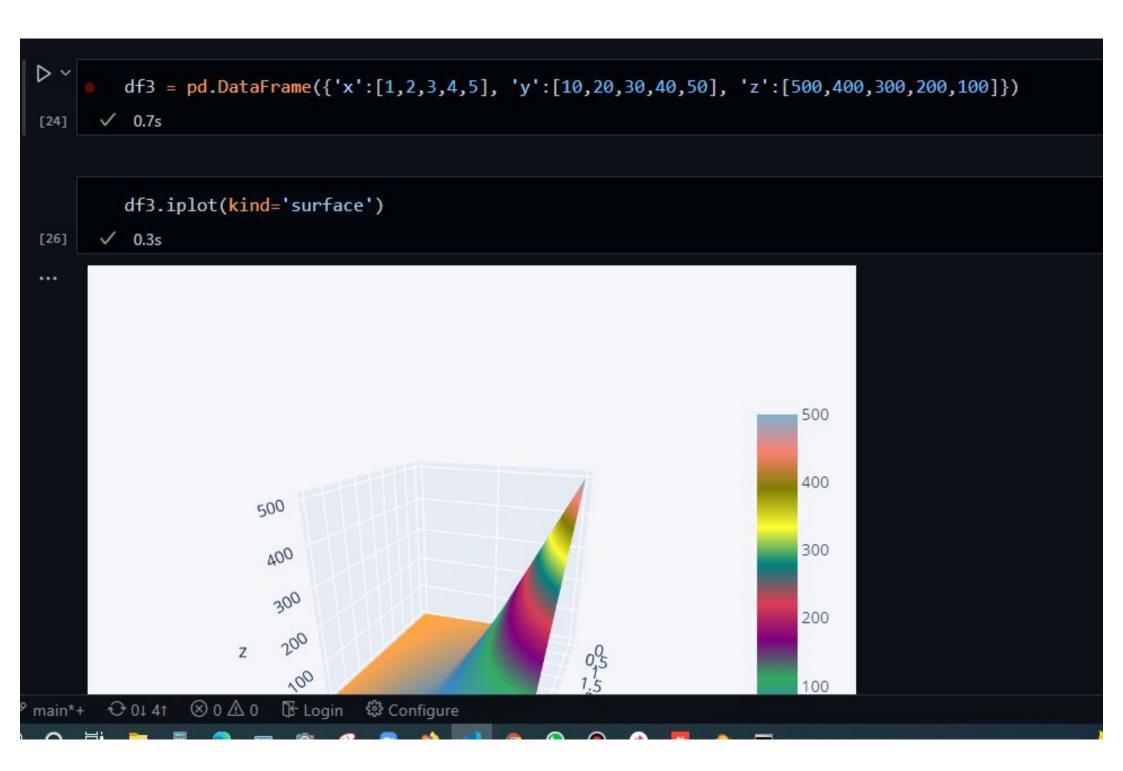


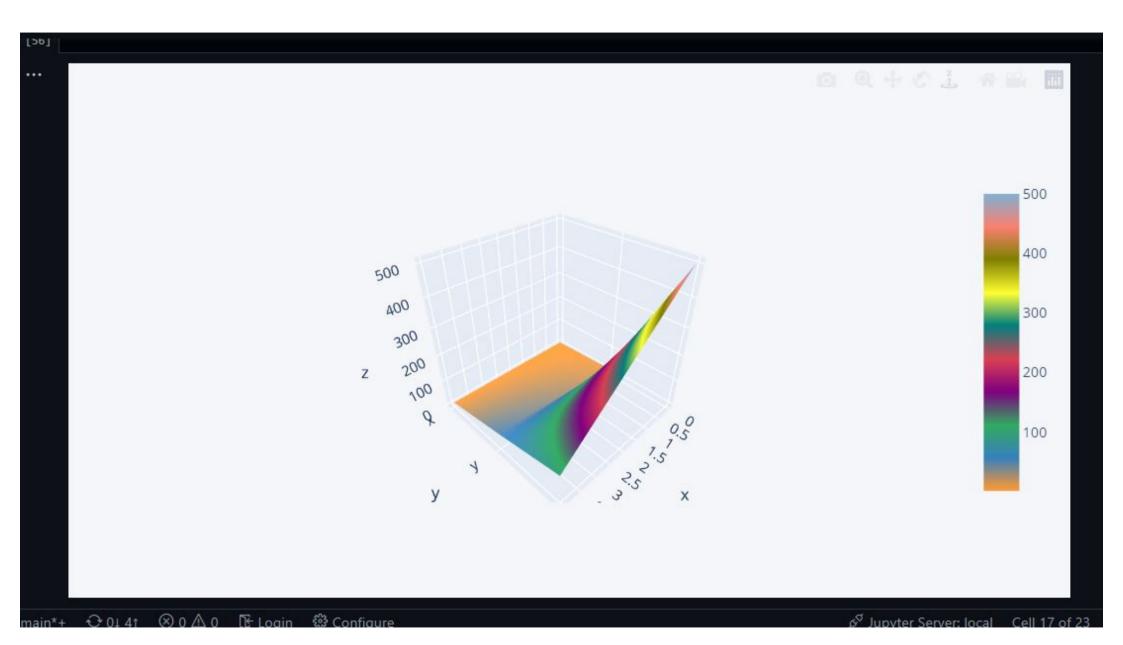
```
df.iplot(kind='scatter', x='A',y='B', mode='markers')
      ✓ 0.2s
[14]
              2
              0
             -2
             -3
                       -2
```

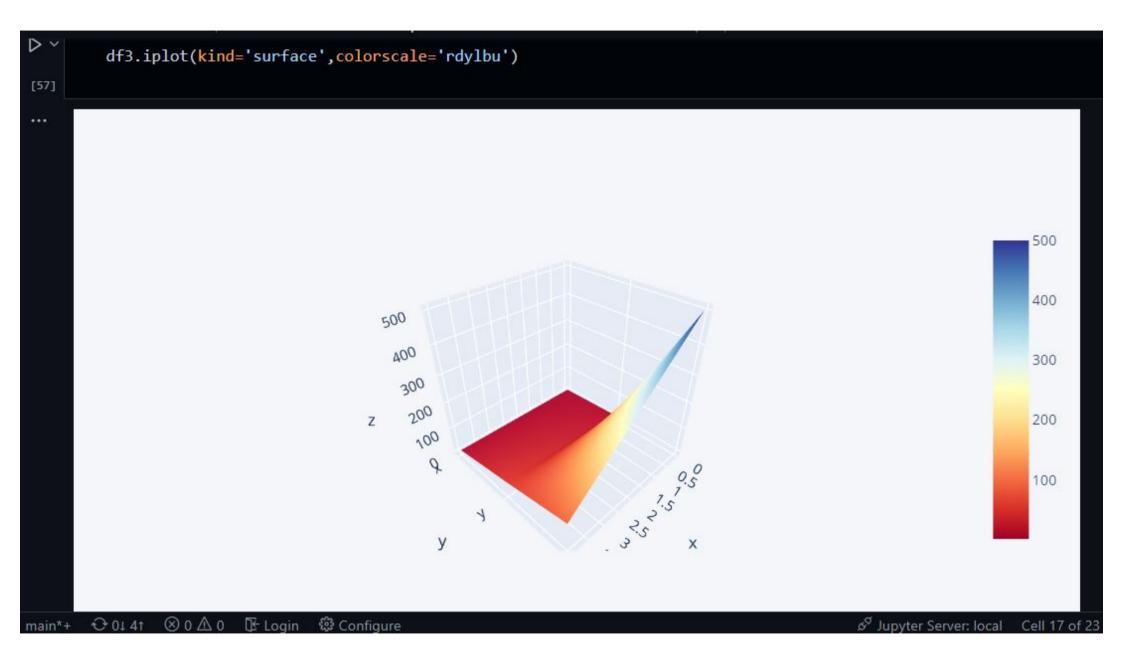
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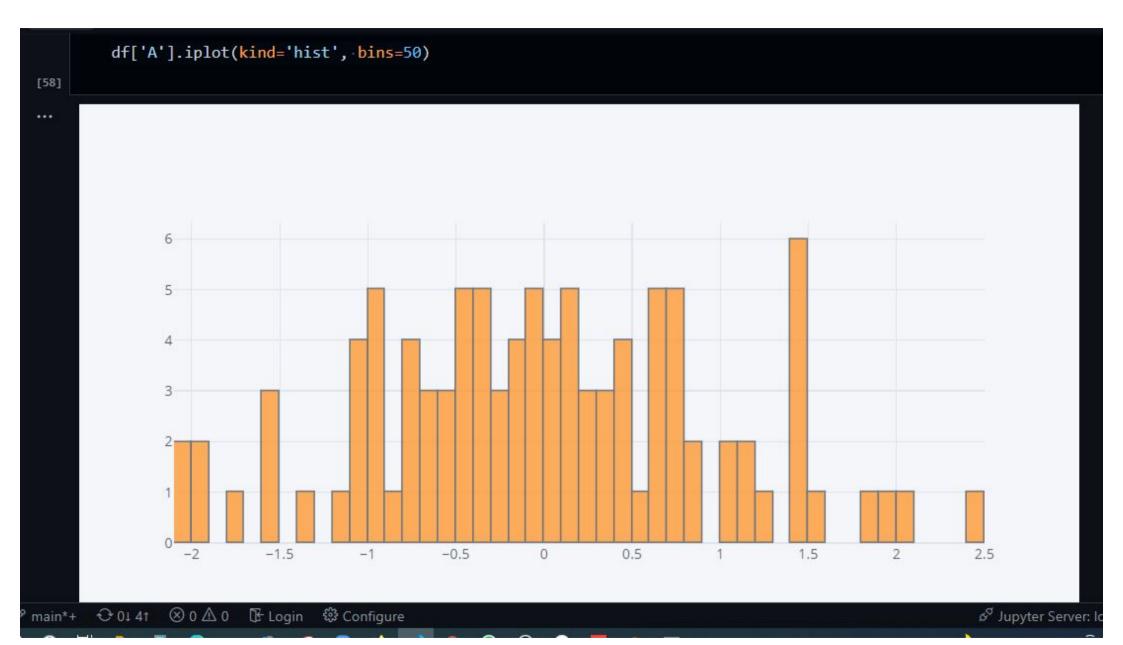


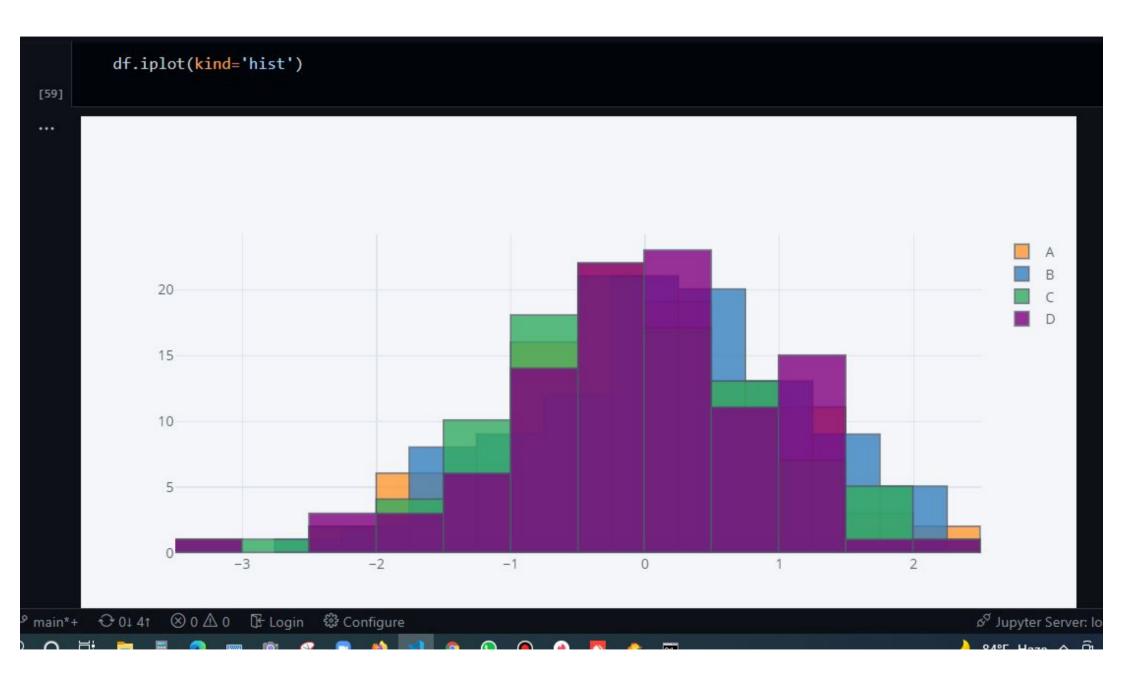
df.iplot(kind='box') ✓ 0.1s [23] 3 2 0 -1 -2 -3 











D \rightarrow df[['A','B']].iplot(kind='spread')
[60]

C:\Users\hp\AppData\Roaming\Python\Python310\site-packages\cufflinks\plotlytools.py:849: FutureWarning:

The pandas.np module is deprecated and will be removed from pandas in a future version. Import numpy directly in

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