

```
Matrix Plots
```

```
import pandas as pd
        import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
       import cv2
       %matplotlib inline
[1]
     √ 7.8s
       tips = sns.load dataset('tips')
       flights = sns.load_dataset('flights')
     √ 1.4s
       tips.head()
[3]
     ✓ 0.7s
        total_bill
                                              time size
                   tip
                          sex smoker
                                        day
           16.99 1.01 Female
                                   No Sun Dinner
     0
```

tips.head() 0.7s [3] total_bill smoker size tip sex day time Sun Dinner 16.99 1.01 Female No 0 2 10.34 Male Sun Dinner 1.66 No 3 Sun Dinner 2 21.01 3.50 Male No 3 23.68 3.31 Male No Sun Dinner 3 2 24.59 3.61 Female No Sun Dinner 4 4 flights.head() 0.6s [4] month passengers year 1949 Jan 112 1949 Feb 118 1949 Mar 132 1949 129 Apr 4 1949 May 121 POLAT ON A DELogin & Configure

```
tc = tips.corr()
       ✓ 0.6s
[8]
          sns.heatmap(tc)
       ✓ 0.4s
[9]
      <AxesSubplot:>
4/>
                                                            -1.0
      total_bill
                                                            -0.9
                                                            -0.8
       dip
                                                            -0.7
                                                            -0.6
       size
              total_bill
                               tip
                                              size
```

sns.heatmap(tc, annot=True) ✓ 0.3s [10] <AxesSubplot:> 4/> -1.0 total_bill 0.68 0.6 1 -0.9 - 0.8 dp -0.68 0.49 1 - 0.7 -0.6 size 0.6 0.49 1 total_bill tip size sns.heatmap(tc,annot=True, cmap=('coolwarm')) √ 0.4s [11]

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√ 0.1s [14] vear month Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

flights.pivot_table(index='month', columns='year', values='passengers')



