Exercise5 Seaborn

April 14, 2018

- 1 Hochschule Bonn-Rhein-Sieg
- 2 Learning and Adaptivity, SS18
- **3 Assignment 01 (15-April-2018)**
- 3.1 Sathiya Ramesh, Pradheep Krishna Muthukrishnan Padmanabhan, Naresh Kumar Gurulingan

4 Seaborn

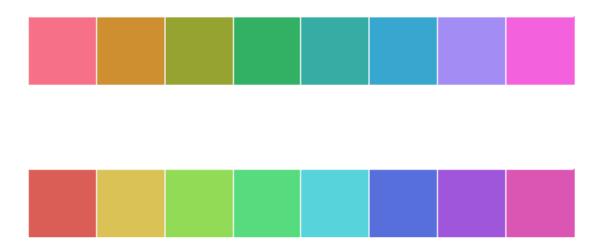
Seaborn is a library for making attractive and informative statistical graphics in Python. It is built on top of matplotlib and tightly integrated with the PyData stack, including support for numpy and pandas data structures and statistical routines from scipy and statismodels.

Library documentation: http://stanford.edu/~mwaskom/software/seaborn/

```
In [1]: import numpy as np
    import pandas as pd
    import matplotlib.pyplot as plt
    import seaborn as sb
    %matplotlib inline
```

4.0.1 Themes

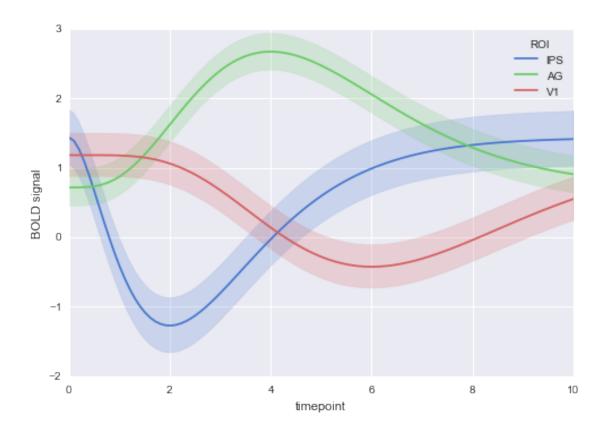




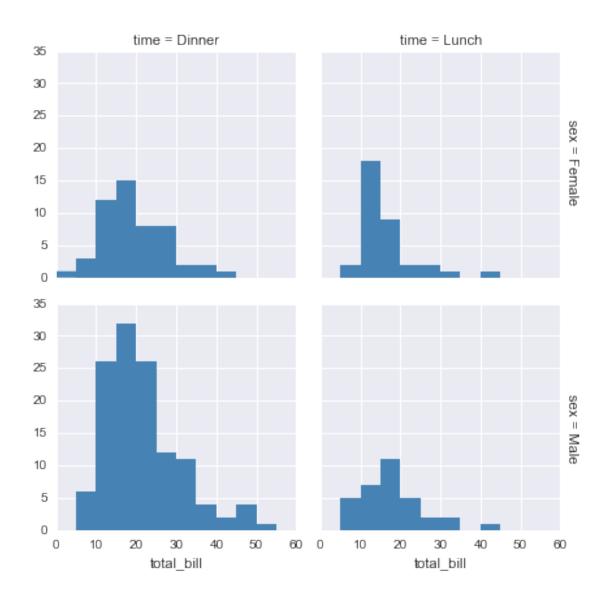




Out[6]: <matplotlib.axes._subplots.AxesSubplot at 0x1815b5f8>



4.0.2 Advanced Plots



```
In [8]: # several distribution plot examples
    sb.set(style="white", palette="muted")
    f, axes = plt.subplots(2, 2, figsize=(7, 7), sharex=True)
    sb.despine(left=True)

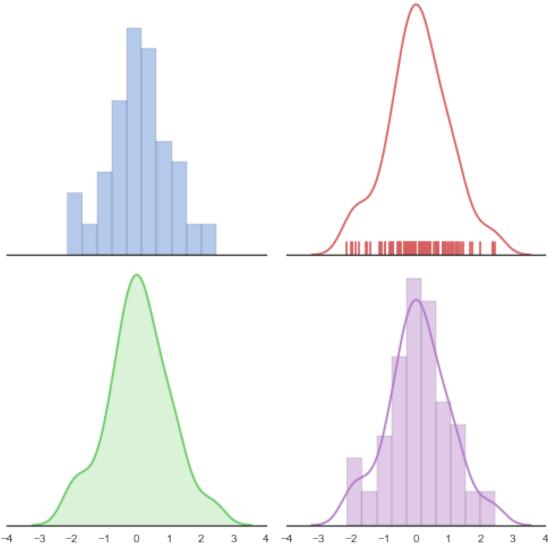
rs = np.random.RandomState(10)

b, g, r, p = sb.color_palette("muted", 4)

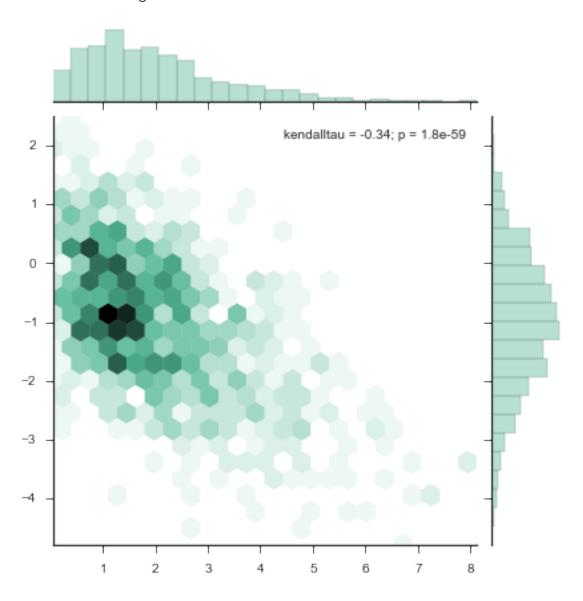
d = rs.normal(size=100)

sb.distplot(d, kde=False, color=b, ax=axes[0, 0])
    sb.distplot(d, hist=False, rug=True, color=r, ax=axes[0, 1])
```

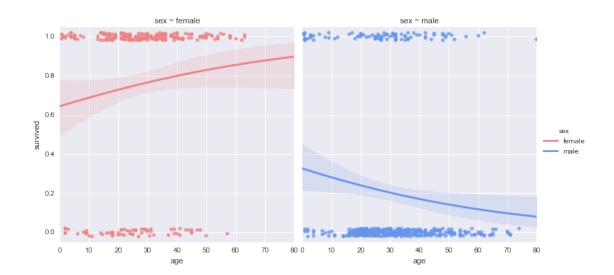
```
sb.distplot(d, hist=False, color=g, kde_kws={"shade": True}, ax=axes[1, 0])
sb.distplot(d, color=p, ax=axes[1, 1])
plt.setp(axes, yticks=[])
plt.tight_layout()
```

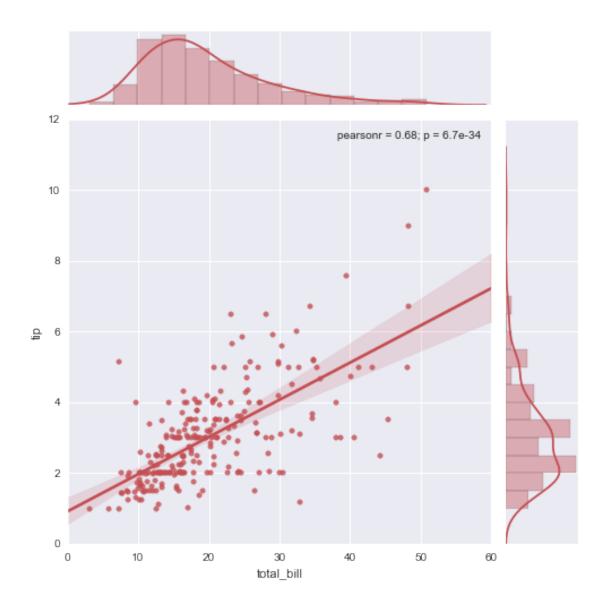


Out[9]: <seaborn.axisgrid.JointGrid at 0x19267550>

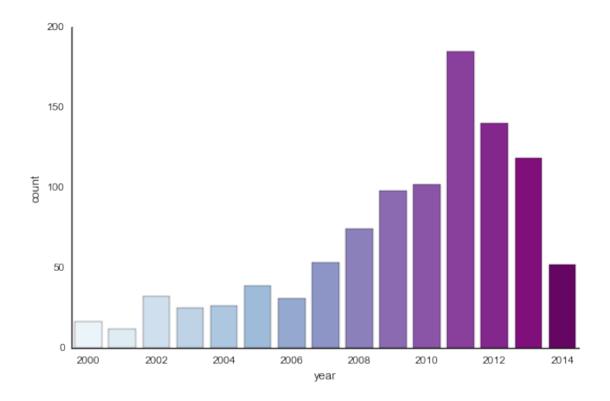


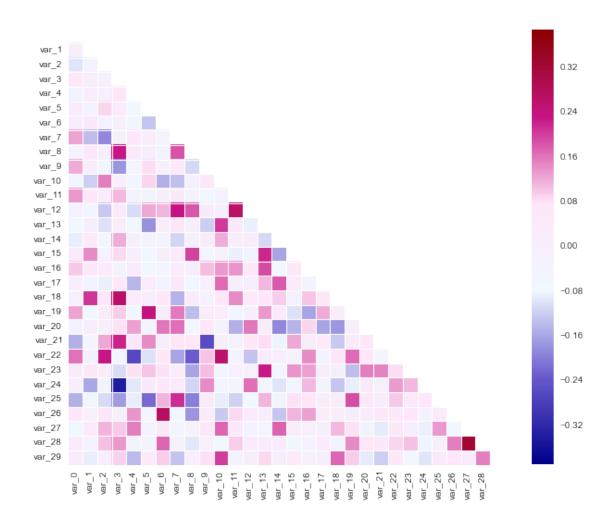
Out[10]: <seaborn.axisgrid.FacetGrid at 0x1a053f98>





Out[12]: <seaborn.axisgrid.FacetGrid at 0x1ab42518>





Out[14]: <seaborn.axisgrid.PairGrid at 0x1a7cd4e0>

