review

March 10, 2023

0.1 pandas

0.2 subplot function

plt.subplot (1,2) -> the figure has 1 row, 2 columns

[]:

0.3 histogram

0.3.1 seaborn.histplot(data, x, y, hue, stat, bins, binwidth, discrete, kde, log_scale)

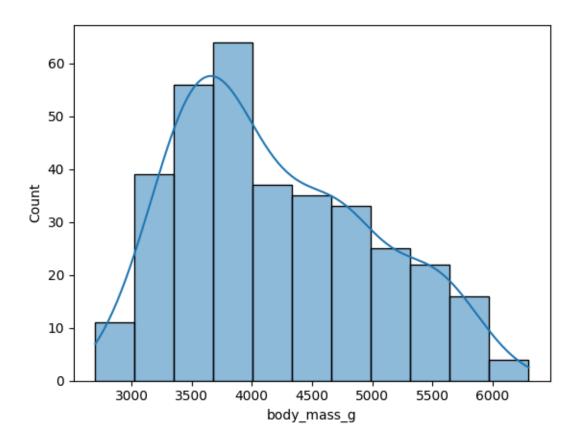
- data: input data in the form of Dataframe or Numpy array
- x, y (optional): key of the data to be positioned on the x and y axes respectively
- hue (optional): semantic data key which is mapped to determine the color of plot elements
- stat (optional): count, frequency, density or probability
- bins : số lượng cột
- edgecolor, color, label

```
[1]: import seaborn as sns
import numpy as np
import pandas as pd

'load csv file, use pandas'
# data = sns.load_dataset('peiguin.csv')
data = pd.read_csv('peiguin.csv')

sns.histplot(data, x= 'body_mass_g', kde = True)
```

[1]: <AxesSubplot: xlabel='body_mass_g', ylabel='Count'>



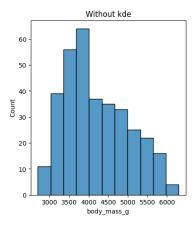
```
fig, axes = plt.subplots(1, 3, figsize=(15, 5), sharey=True)

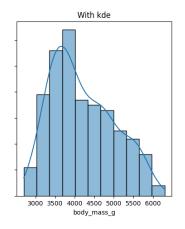
sns.histplot(ax=axes[0], data= data, x=data.body_mass_g)
axes[0].set_title('Without kde')

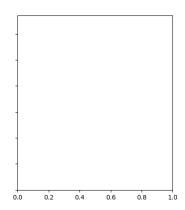
sns.histplot(ax=axes[1], data = data, x=data.body_mass_g, kde = True)
axes[1].set_title('With kde')

# sns.kdeplot(ax=axes[2], data = data, x=data.body_mass_g, fill=True, alpha = 0.8, palette='viridis')
# axes[1].set_title('With kde')
```

[2]: Text(0.5, 1.0, 'With kde')

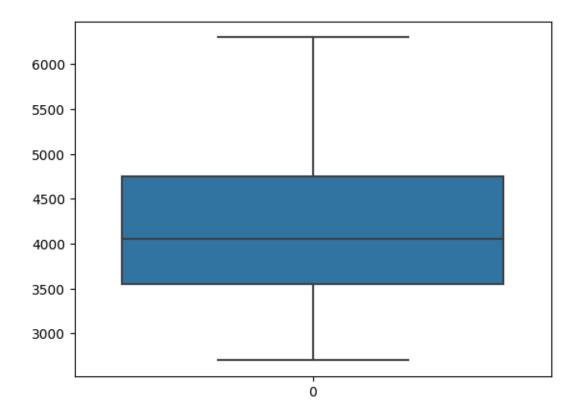






[3]: sns.boxplot(data.body_mass_g)

[3]: <AxesSubplot: >

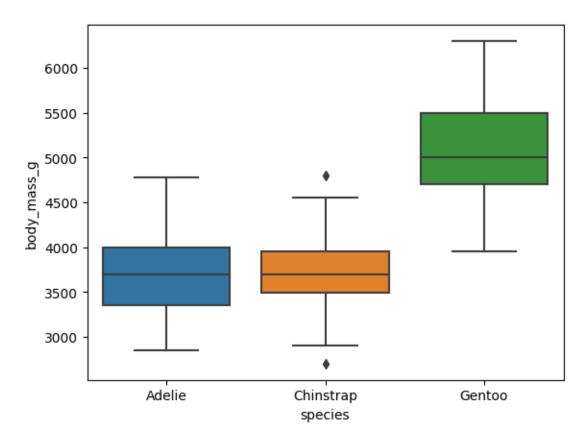


[4]: # Trong cot species co 3 loai laf Adelie, Gentoo,.., vex boxplot cua cot body

→ mass theo cot species

sns.boxplot(x = data['species'], y = data['body_mass_g'])

[4]: <AxesSubplot: xlabel='species', ylabel='body_mass_g'>



```
[11]: sns.boxplot(x = data['species'], y = data['body_mass_g'] )
```

[11]: <AxesSubplot: xlabel='species', ylabel='body_mass_g'>

