ApytorLab [] # Python 3 (ipykernel) | |

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Seaborn is a powerful and user-friendly Python library hullt on top of Mutplotlib. It simplifies the process of creating attractive and informative etatistical graphics, making it an excellent choice for data visualization.

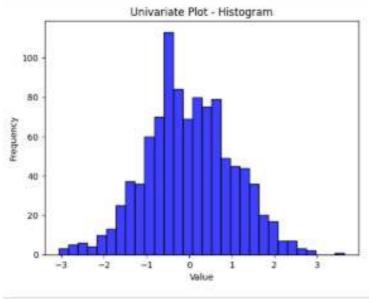
any feature:

- 1. Ease of use: Simple syntam to create complex visualizations.
- 2. Built in themes: Costomizable themes for styling plots,
- 3. Statistical plotting: Built in methods for regression, box plots, violin plots, etc.
- 4. Integration: works smanlessly with pundus DataFriens and NumPy arrays.

Univariate Pints

1. Histogram

[:] laport seaborn as sea import matplottlib.pyplot as plt import mampy as up # dimercite rondom deta data = sp.random.rando(1880) # Creute a Mistogram ans.histplot(data, bins=30, color="blos") plt.title("belivariate Plot = Histogram") plt.vindo(("belivariate Plot = Histogram") plt.vindo(("belivariate Plot = Histogram") plt.vindo(("Frequency") plt.shaw()



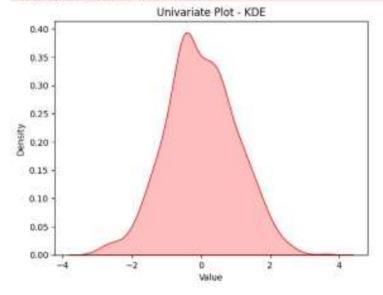
1. KDE Plot (Kornel Donsity Estimate)

(i) ses, kosplet(data, shade=free, color="red")
 plt, title("telyariate Plot = 606")
 plt, slatel("Value")
 plt, slatel("Termity")
 plt, shee()

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shade is one deprecated in favor of Fill, setting Fill-True. This will become an error in seaborn w0.14.0; please update your code.

ses, adeplot(data, shade-leve, color-"red")



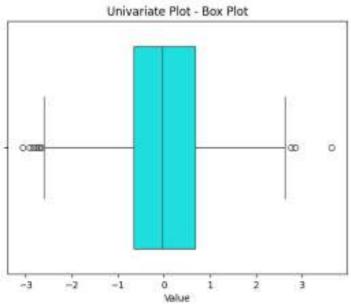
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3. Now Plat

| Sime should (s-data, color="Cyan")

plt.title("delwarTata Plot = Box Plot")

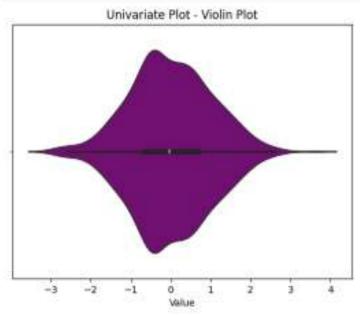
plt.xlabel("Value")

plt.show()
```

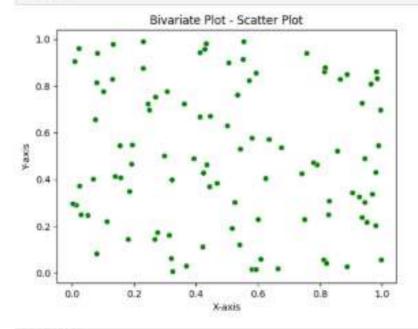


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4. Violin Plot
```

```
|s| | ses_violisplot(x=data, color="purple")
| plt.title("Meisariate Plot - Violin Plot")
| plt.xlatel("Value")
| plt.stee()
```

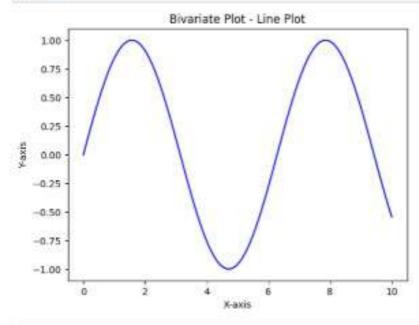


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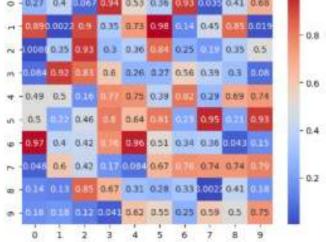
```
2. Line Plot
```

```
[8] s = (p,linspace(0, 18, 180)
y = (p,sin(x)
sns.lineplot(s=s, y=y, color="blue")
plt.title("blue-inte Flot = time Flot")
plt.slabel("A-asis")
plt.ylabel("y-asis")
plt.ylabel("y-asis")
```



Supytorium 付 🀞 Python B (bykumori) 🔘 🔳

3. Maximup data = np.random.rand(18, 18) ans.houtwap(data, amost-free, cmap="coolbare") plt.title("Bivariate Plot - Hautwap") plt.show() Bivariate Plot - Heatmap 0 -0.27 0.4 1067 0.94 0.53 0.36 0.93 0.035 0.41 0.66 H -0.830,0022 0.5 0.35 0.73 0.98 0.14 0.45 0.15 0.019



4. Har Flot

[11]: categories = ["A", "B", "C"]
 values = [10, 10, 15]
 sns.barglot(s=categories, y=values, palette="ented")
 plt.vitle("Bivariate Plot = Bar Plot")
 plt.vlamel("Categories")
 plt.ylamel("Values")
 plt.ylamel("Values")

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Passing "palette" without assigning "hoo" is deprecated and will be removed in v0.14.0. Assign the "s" variable to "hoo" and set "legend-False" for the same affect.

ses, barplot(x=categories, y=values, palette="mutad")

