# Matplotlib 20\_ Pandas Data Frame dan Matplotlib (Part 1)

June 9, 2022

# 1 Visualisasi Data yang tersimpan pada Pandas Data Frame (bagian 1)

Dalam sesi ini kita akan mempelajari cara untuk melakukan visualisasi data yang tersimpan pada Pandas Data Frame dengan Matplotlib.

#### 1.1 1. Import Modules

```
[1]: %matplotlib inline

[2]: import matplotlib import matplotlib.pyplot as plt import pandas as pd

print(matplotlib.__version__) print(pd.__version__)
```

3.3.4 1.2.4

#### 1.2 2. Sample Dataset

```
[3]: nama usia gender propinsi n_anak n_pets
0 Cecep 23 L Jabar 2 5
1 Karti 78 P Jatim 0 1
```

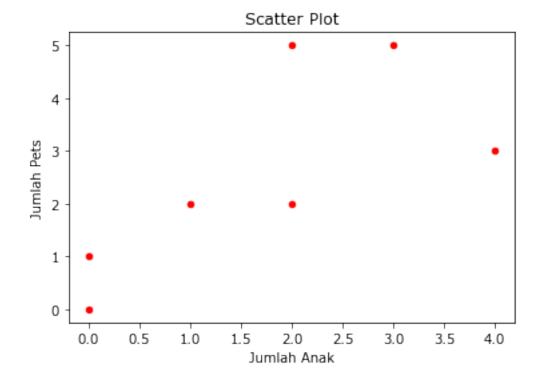
```
22
                            Jabar
                                          0
2
    Bejo
                      L
                                                   0
3
    Tejo
             19
                            Jatim
                                          3
                                                   5
                       L
                                                   2
4
                            Jabar
                                          2
    Asep
             45
                       L
                       Р
                                                   2
5
    Wati
             33
                           Jateng
                                          1
                                                   3
    Amat
             20
                       L
                           Jateng
```

#### 1.3 3. Scatter Plot

```
[4]: df.plot(kind = 'scatter', x = 'n_anak', y='n_pets', color='red')

plt.title('Scatter Plot')
plt.xlabel('Jumlah Anak')
plt.ylabel('Jumlah Pets')

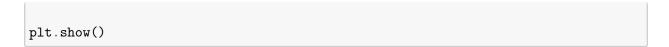
plt.show()
```

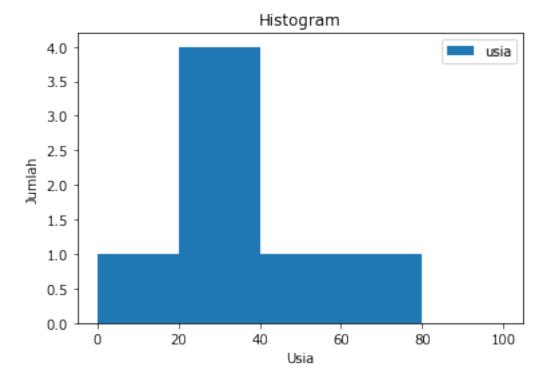


## 1.4 4. Histogram

```
[5]: df[['usia']].plot(kind = 'hist', bins = [0, 20, 40, 60, 80, 100])

plt.title('Histogram')
plt.xlabel('Usia')
plt.ylabel('Jumlah')
```





## 1.5 5. Line Plot

```
[6]: df.plot(kind='line', x='nama', y='n_anak', color='green')

plt.title('Line Plot')
plt.ylabel('Jumlah')

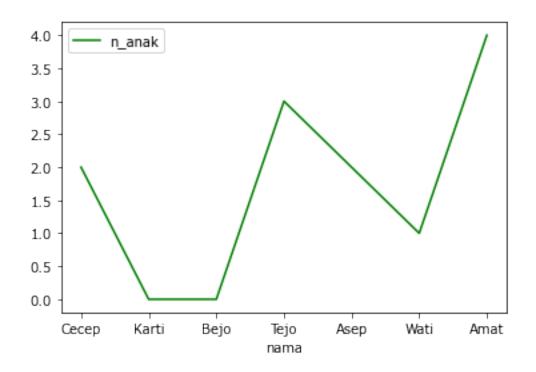
plt.show()
```

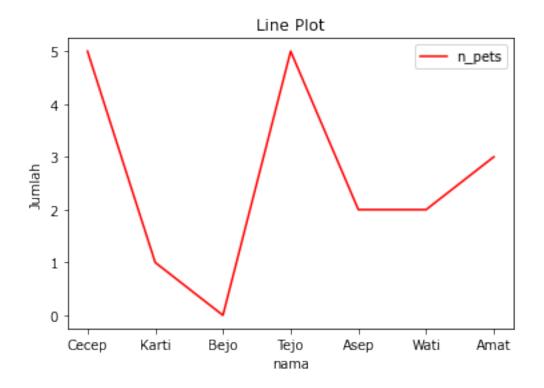


## 1.6 6. Multiple Line Plot

```
[7]: df.plot(kind='line', x='nama', y='n_anak', color='green')
df.plot(kind='line', x='nama', y='n_pets', color ='red')

plt.title('Line Plot')
plt.ylabel('Jumlah')
plt.show()
```





```
[8]: ax =plt.gca()

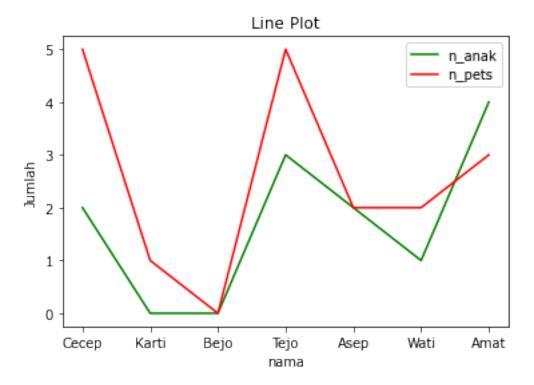
df.plot(kind='line', x='nama', y='n_anak', color='green', ax=ax)

df.plot(kind='line', x='nama', y='n_pets', color ='red', ax=ax)

plt.title('Line Plot')

plt.ylabel('Jumlah')

plt.show()
```

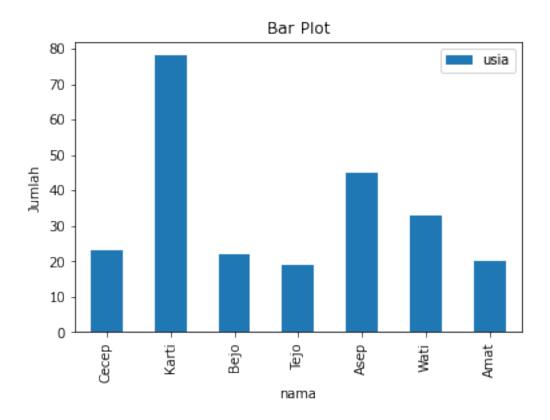


### 1.7 7. Bar Plot

```
[9]: df.plot(kind='bar', x='nama', y='usia')

plt.title('Bar Plot')
plt.ylabel('Jumlah')

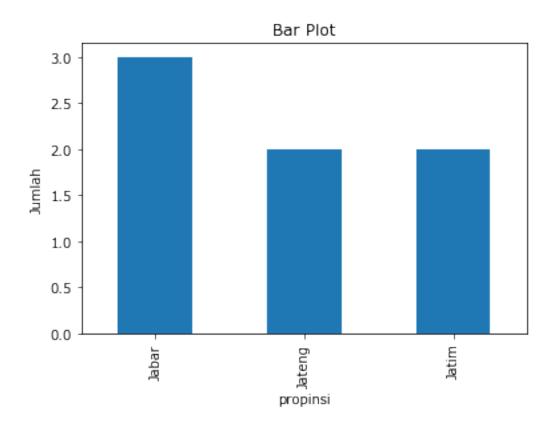
plt.show()
```



```
[10]: df.groupby('propinsi')['nama'].count().plot(kind='bar')

plt.title('Bar Plot')
 plt.ylabel('Jumlah')

plt.show()
```



# 1.8 8. Stacked Bar Plot dengan Dua level Group By

