

Matplotlib 04__ Belajar Histogram

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0.1 Histogram

Dalam sesi ini kita akan mempelajari cara membuat histogram dengan Matplotlib.

```
[1]: %matplotlib inline
```

```
[2]: import matplotlib
import matplotlib.pyplot as plt
import numpy as np

print(matplotlib.__version__)
print(np.__version__)
```

3.3.4

1.20.1

0.2 Sample Data

```
[3]: mu, sigma = 100, 15 # nilai mean dan nilai standard deviation

x = mu + sigma * np.random.randn(10000) # normal distribution
x
```

```
[3]: array([111.17168241,  79.67769633,  92.45263098, ..., 105.35966937,
          90.94021845,  70.58207113])
```

```
[4]: x.shape
```

```
[4]: (10000,)
```

0.3 Histogram dengan pyplot Style

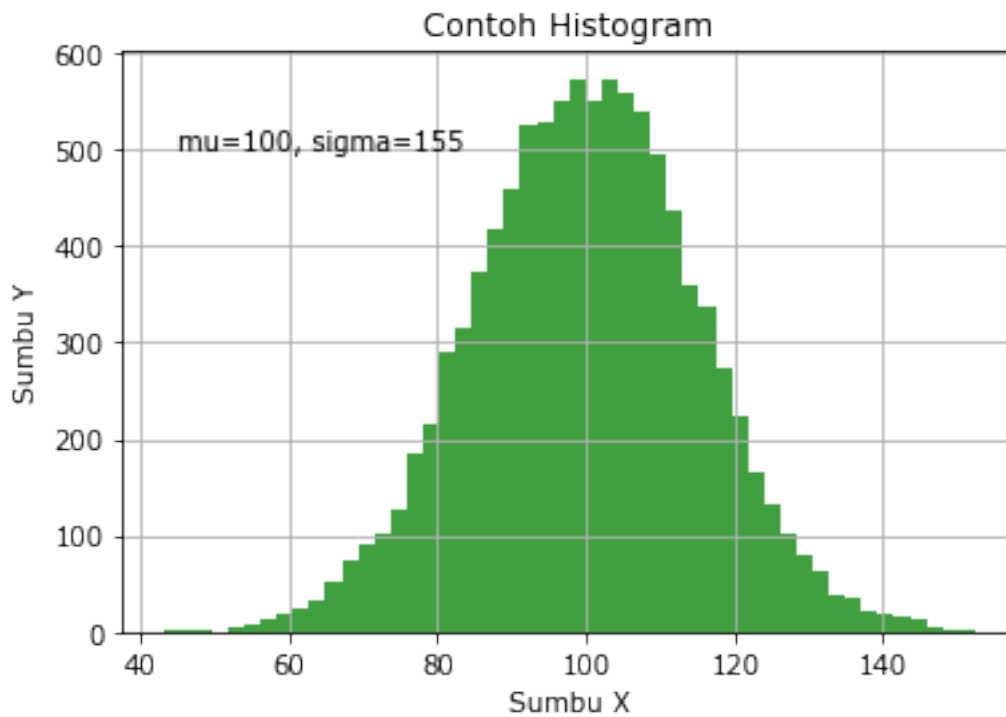
```
[8]: plt.hist(x,
            bins = 50,
            facecolor = 'g',
            alpha = 0.75)

plt.xlabel('Sumbu X')
```

```
plt.ylabel('Sumbu Y')
plt.title('Contoh Histogram')

plt.text(45, 500, r'mu=100, sigma=155')
plt.grid()

plt.show()
```



0.4 Histogram dengan OO Style

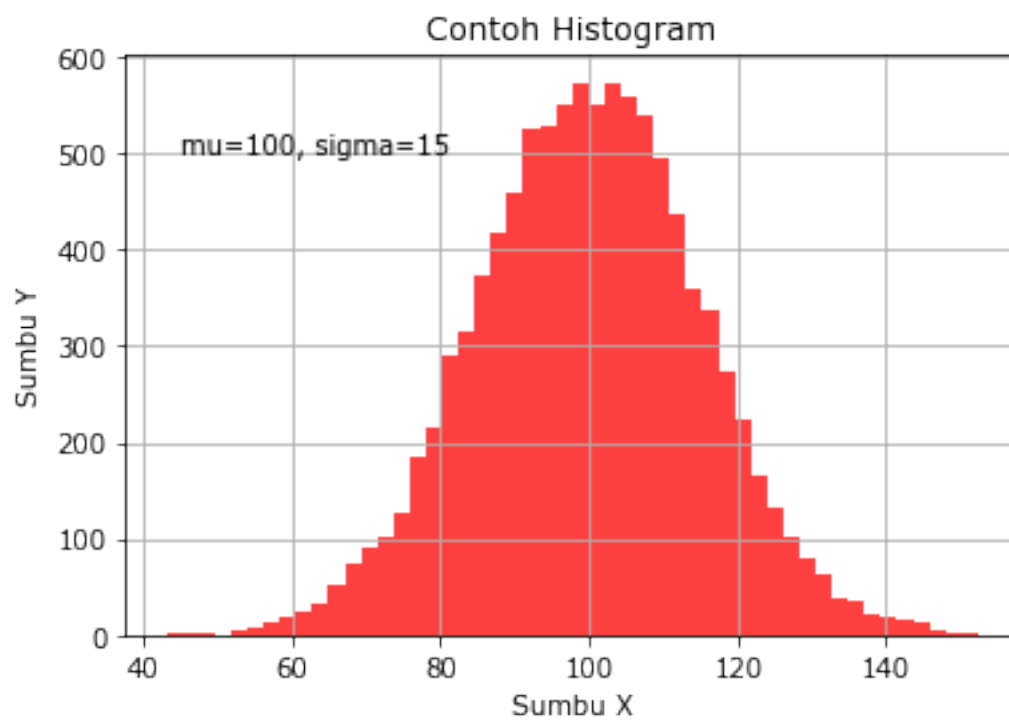
```
[10]: fig, ax = plt.subplots()

ax.hist(x,
        bins = 50,
        facecolor = 'r',
        alpha = 0.75)

ax.set_xlabel('Sumbu X')
ax.set_ylabel('Sumbu Y')
ax.set_title('Contoh Histogram')

ax.text(45, 500, r'mu=100, sigma=15')
ax.grid()
```

```
plt.show()
```



```
[ ]:
```