

Matplotlib 17__ Kustomisasi Matplotlib dengan Style Sheets

June 8, 2022

1 Matplotlib Customisation: Style Sheet

Dalam sesi ini kita akan mempelajari kustomisasi Matplotlib dengan Style Sheets.

1.1 1. Import Modules

```
[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

1.2 2. Predefined Styles

Matplotlib menyediakan beberapa predefined styles.

```
[3]: plt.style.available
```

```
[3]: ['Solarize_Light2',
      '_classic_test_patch',
      'bmh',
      'classic',
      'dark_background',
      'fast',
      'fivethirtyeight',
      'ggplot',
      'grayscale',
      'seaborn',
      'seaborn-bright',
      'seaborn-colorblind',
      'seaborn-dark',
      'seaborn-dark-palette',
```

```

'seaborn-darkgrid',
'seaborn-deep',
'seaborn-muted',
'seaborn-notebook',
'seaborn-paper',
'seaborn-pastel',
'seaborn-poster',
'seaborn-talk',
'seaborn-ticks',
'seaborn-white',
'seaborn-whitegrid',
'tableau-colorblind10']

```

```
[4]: plt.style.use('ggplot')
```

```

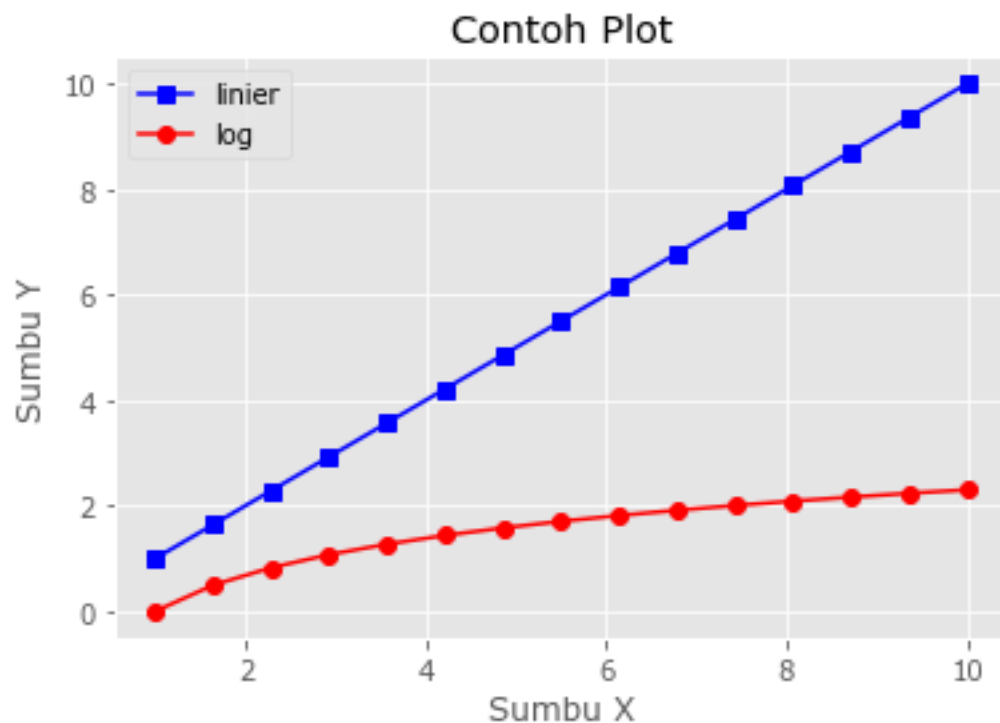
[5]: x = np.linspace(1, 10, 15)

plt.plot(x, x, 'bs-', label = 'linier')
plt.plot(x, np.log(x), 'ro-', label = 'log')

plt.legend()
plt.xlabel('Sumbu X')
plt.ylabel('Sumbu Y')
plt.title('Contoh Plot')

plt.show()

```



1.3 3. Membuat Style Sendiri

Buat file .txt melalui homepage jupyter notebook dengan penulisan seperti dibawah ini:

```
axes.titlesize : 24
axes.labelsize : 20
lines.linewidth : 3
lines.markersize : 10
xtick.labelsize : 16
ytick.labelsize : 16
```

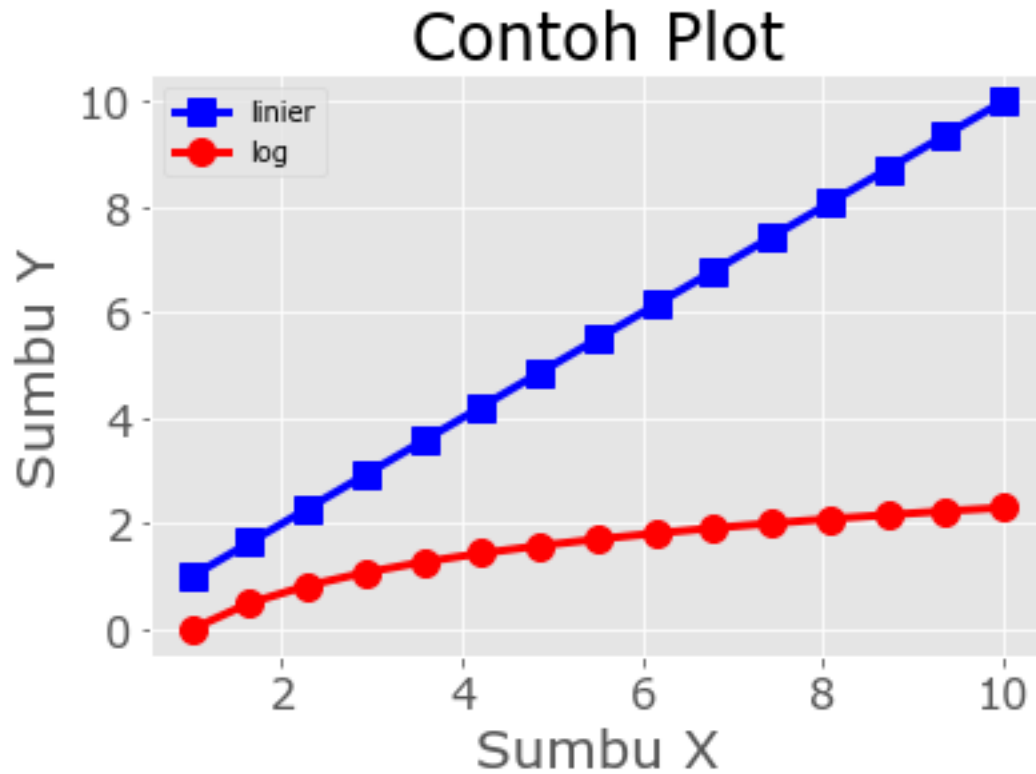
```
[6]: plt.style.use('./style_ku.mplstyle')
```

```
[7]: x = np.linspace(1, 10, 15)

plt.plot(x, x, 'bs-', label = 'linier')
plt.plot(x, np.log(x), 'ro-', label = 'log')

plt.legend()
plt.xlabel('Sumbu X')
plt.ylabel('Sumbu Y')
plt.title('Contoh Plot')

plt.show()
```



1.4 4. Menerapkan Multiple Style

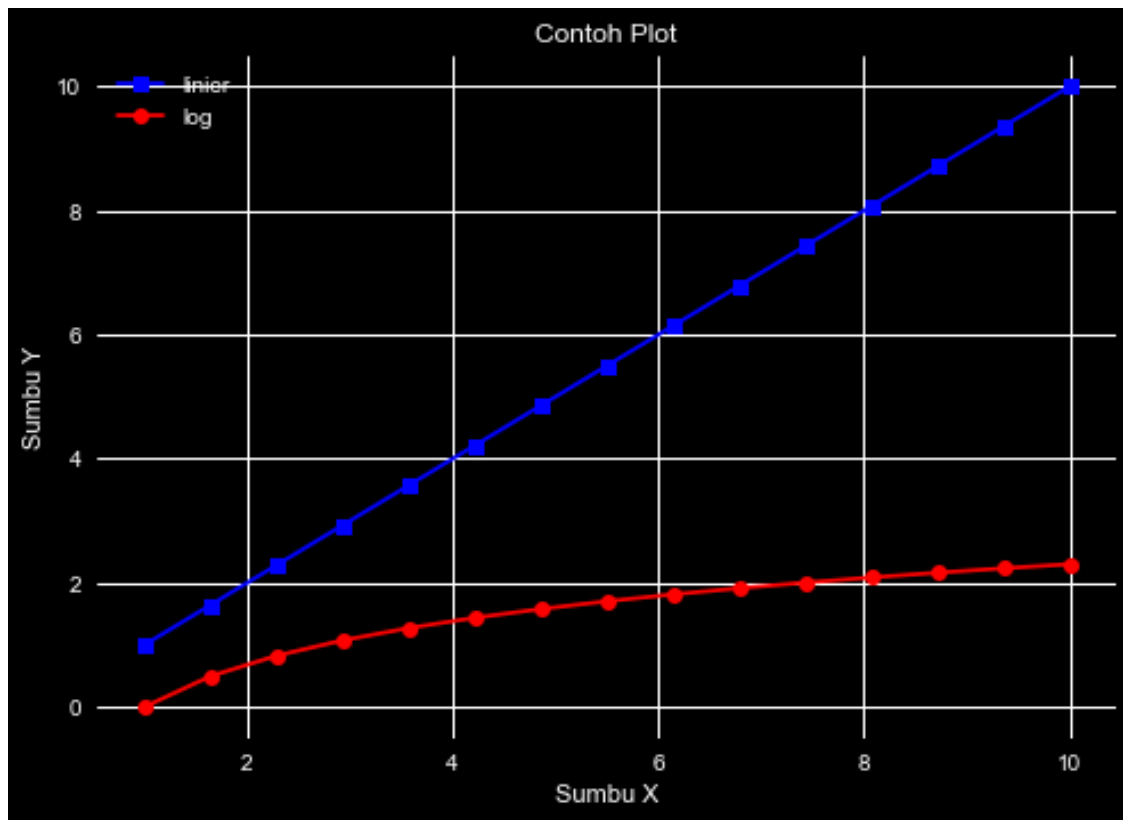
```
[8]: plt.style.use(['seaborn', 'dark_background'])
```

```
[9]: x = np.linspace(1, 10, 15)

plt.plot(x, x, 'bs-', label = 'linier')
plt.plot(x, np.log(x), 'ro-', label = 'log')

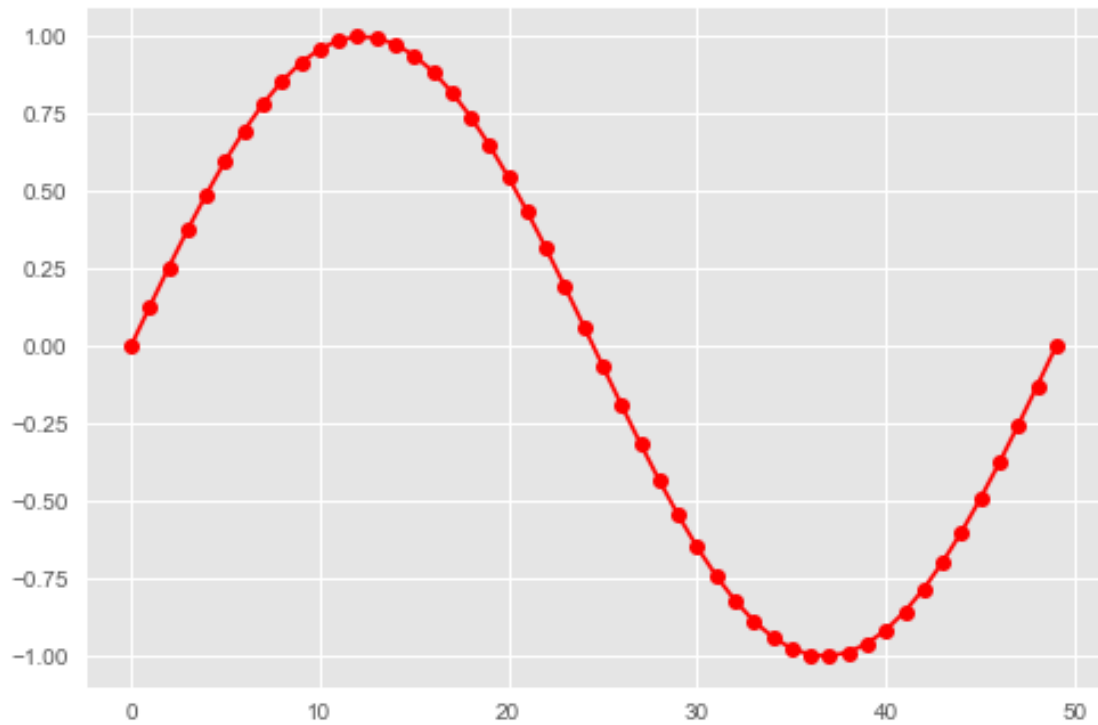
plt.legend()
plt.xlabel('Sumbu X')
plt.ylabel('Sumbu Y')
plt.title('Contoh Plot')

plt.show()
```



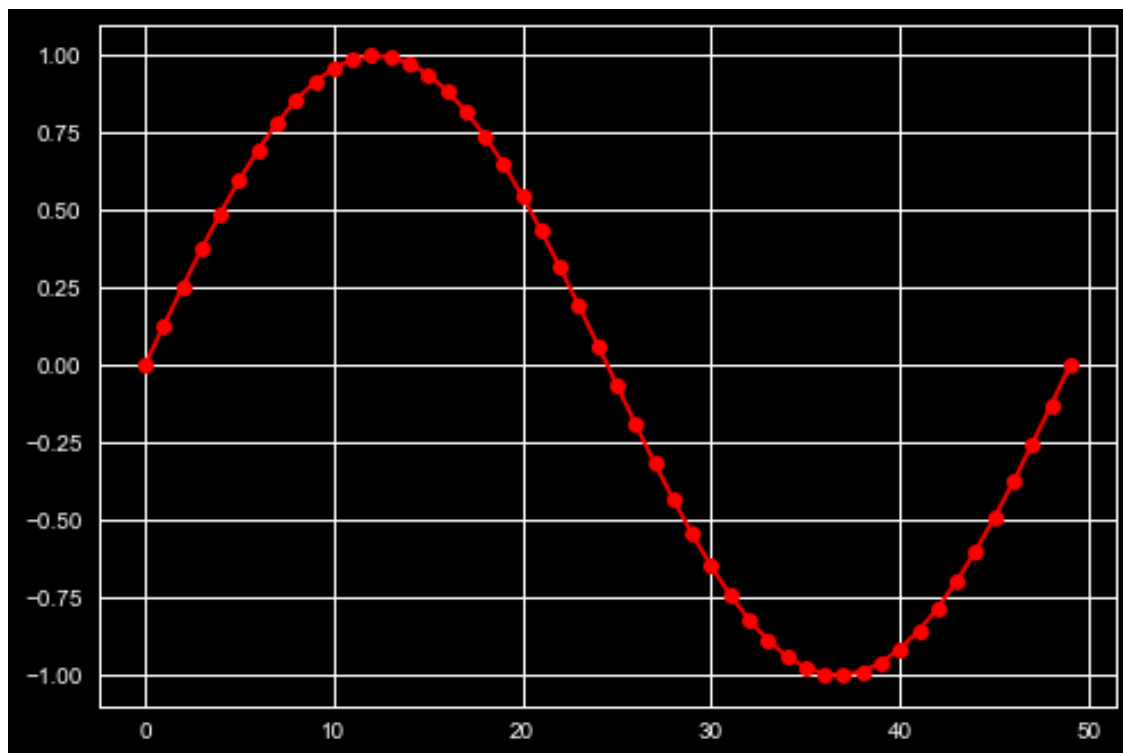
1.5 5. Menerapkan Temporary Styling

```
[10]: plt.style.use('ggplot')  
  
plt.plot(np.sin(np.linspace(0, 2 * np.pi)), 'r-o')  
plt.show()
```



```
[11]: # temporary
with plt.style.context('dark_background'):
    plt.plot(np.sin(np.linspace(0, 2 * np.pi)), 'r-o')

plt.show()
```



```
[12]: plt.plot(np.sin(np.linspace(0, 2 * np.pi)), 'r-o')  
plt.show()
```

