

PROGRAM

DATA SCIENCE_[DAY-8]

FGA KOMINFO 2022



RULE KELAS

FEEL FREE TO ASK

ACF

CALM AND LEARN TOGETHER

ACTIVE

TEKNIS

LOCAL

1. Install Anaconda, jika sudah klik Anaconda Prompt dibuka as administrator
2. Ketikan berikut ini di halaman prompt dengan update pip dengan:

```
python -m pip install --upgrade pip
```

4. Install jupyter notebook:

```
python -m pip install jupyter
```

5. Buka dengan mengetikan:

```
jupyter notebook
```

ONLINE

Jika kamu ingin akses secara online untuk pembelajaran python dapat melalui link dibawah ini ya!

[BIT.LY/BELAJARBERSAMAKOHKRIS](https://bit.ly/belajarbersamakoHKRIS)

CLASS PROGRAM [13 Sep – 20 Okt]

PROGRAM 1

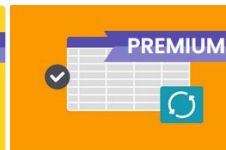
1. Introduction to Data Science with Python
2. Python Fundamental for Data Science
3. Fundamental SQL using Select Statement
4. Fundamental SQL using Function and Group By



Introduction to Data Science with Python



Python Fundamental for Data Science



Fundamental SQL with SELECT Statement



Fundamental SQL Using FUNCTION and GROUP BY

PROGRAM 2

1. Fundamental SQL using Inner Join & Union
2. Exploratory data analysis with Python for Beginner



Fundamental SQL Using INNER JOIN and UNION



Exploratory Data Analysis with Python for Beginner

PROGRAM 3

1. Fundamental Data Visualization with Python
2. Data visualization with Python Matplotlib for Beginner



Fundamental Data Visualization with Python



Data Visualization with Python Matplotlib for Beginner - Part 1



Data Visualization with Python Matplotlib for Beginner - Part 2

PROJECT CAPSTONE

[PRESENTATION 20 Okt]

TASK

1. Peserta membuat visualisasi terkait “Data Covid19 Indonesia”
2. Peserta menyampaikan materi dalam .pptx dan .ipynb
3. Peserta dibebaskan dalam melakukan visualisasi
4. Peserta diharapkan mempelajari berikut ini:



SUBMISSION

Tuliskan ceritamu tentang hasil
visualisasi yang kamu buat dan
tag DQlab, Mentor di LINKEDIN



Abel Kristanto Widodo
Researcher | Data Scientist | Renewable Energy Enthusiast | Fintech Enthusiast
Kyoto, Japan - [Contact Info](#)



DQLab
Belajar Data Science Online Kapan Saja dan Dimana Saja!
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CLASS PROGRAM 3

OUR AGENDA

**Data visualization with Python
Matplotlib for Beginner**

MATPLOTLIB VS SEABORN

MATPLOTLIB

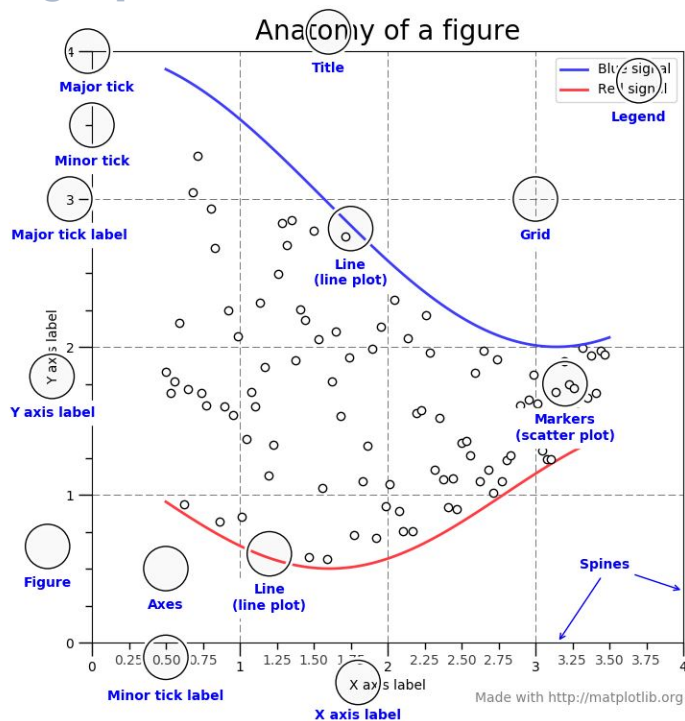
1. python 2D plotting library which produces publication quality figures in a variety of hardcopy formats
2. a set of functionalities similar to those of MATLAB
3. line plots, scatter plots, barcharts, histograms, pie charts etc.
4. relatively low-level; some effort needed to create advanced visualization

SEABORN

1. based on matplotlib
2. provides high level interface for drawing attractive statistical graphics
3. similar (in style) to the popular ggplot2 library in R
4. uses fewer syntax with good default themes
5. Integrated to work great with pandas data-frame



In Matplotlib, the figure (an instance of the class `plt.Figure`) can be thought of as a single container that contains all the objects representing axes, graphics, text, and labels.





#LEARN BY DOING



Any Question?