



# Python 101

## Python Programming for Beginners

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15 September 2021

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สังคมแห่งการเรียนรู้ DAT-A  
**DATA SCIENCE &  
RESEARCH THAILAND**

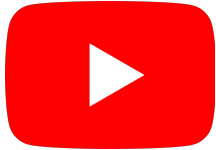
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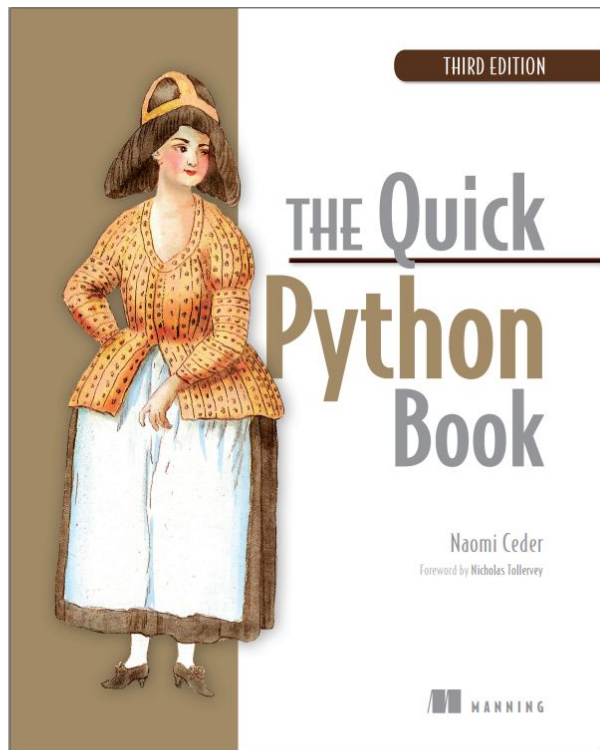


<https://www.facebook.com/groups/dataawarenessth/>



<https://www.youtube.com/channel/UCsqxPVqZdCK0jcHTJBFY4NQ>

# Why Python?



- Python is a modern programming language developed by Guido van Rossum in the 1990s
- *What Python does well*
  - *Python is easy to use*
  - *Python is expressive*
  - *Python is readable*
  - *Python is complete—“batteries included”*
  - *Python is cross-platform*
  - *Python is free*
- *What Python doesn't do as well*
  - *Python isn't the fastest language*
  - *Python doesn't have the most libraries*
  - *Python doesn't check variable types at compile time*
  - *Python doesn't have much mobile support*
  - *Python doesn't use multiple processors well*

# TOP PYTHON MACHINE LEARNING LIBRARIES





Notepad++ : <https://notepad-plus-plus.org/downloads/>

Visual Studio Code : <https://code.visualstudio.com/>





# Data Science Workflow



What is data science?

<https://campus.datacamp.com/courses/data-science-for-everyone/introduction-to-data-science-1>

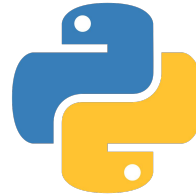


# Agenda

- |                                    |         |
|------------------------------------|---------|
| • Introduction to Google Colab     | 30 mins |
| • Basic Python Programming         | 1.5 hrs |
| • NumPy : Work with Array          | 1 hr    |
| • SciPy : Linear Algebra in Python | 1 hr    |
| • Matplotlib : Plotting in Python  | 1 hr    |
| • Pandas : Data Preprocessing      | 1 hr    |



<https://github.com/Limpapat/Python101>



<https://www.python.org>