

Programming in Python

이 윤준
SoC, KAIST

Who Am I?



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개요

This class introduces the basic skill set and the programming capabilities with Python for data analysis and machine learning.

Why Python?

- Python has become the lingua franca for many data science applications.
 - It combines the powers of general purpose programming languages with the ease of use of domain specific scripting languages like matlab or R.
- Python has libraries for data loading, visualization, statistics, natural language processing, image processing, and more.
- Python also allows for the creation of complex graphic user interfaces (GUIs), web services and for integration into existing systems.

교육목표

- Python으로 data science에서 필요로 하는 다양한 능력을 배양하여 업무에 활용

Lecture & Activity

- 강의는 100분 강의와 50분 실습으로 운영 예정
- 6/4 월요일 13:00~17:00
- 6/12 화요일
- 6/18 월요일
- 6/25 월요일

Staffs

General



장재석: e-jsjang@kaist.ac.kr, 042-350-8941, 010-8802-4860

Teaching Assistants

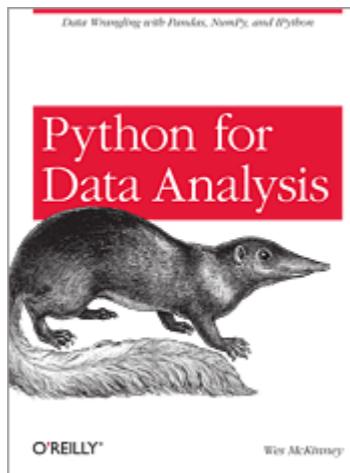


박민호: no1ms@kaist.ac.kr, 010-8447-5669

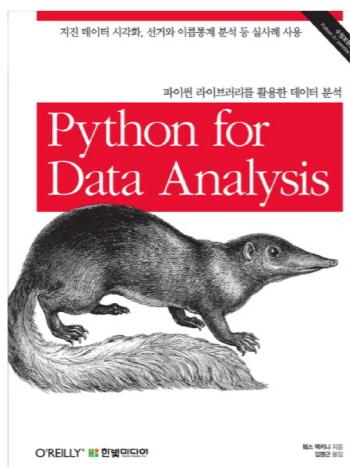


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References



Python for Data Analysis*



파이썬 라이브러리를 활용한 데이터 분석

- **실습 및 과제**
 - ✓ 예습이 필요하며,
 - ✓ 강의 중 개별적인 실습을 하고,
 - ✓ 실습시간에는 주어진 문제를 pair programming으로 풀어 익일 24:00까지 GitHub 자신의 계정에 제출(commit)하여야 하며,
 - ✓ 또한 필요 시 programming assignment를 announce 하며 이를 (다음 수업 - 1)일 24:00까지 GitHub 자신의 계정에 제출(commit)하여야 한다.



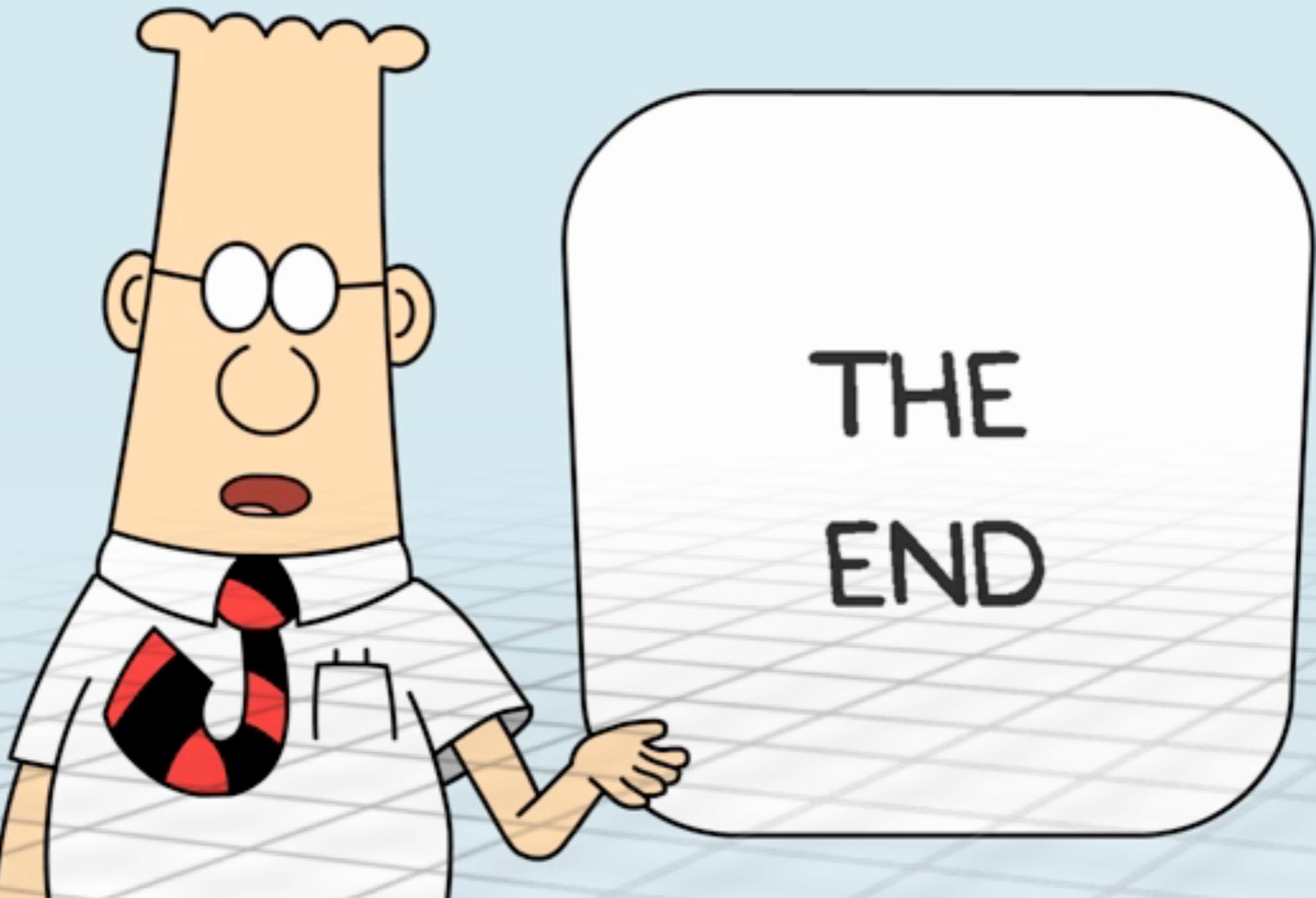
Jupyter Notebook “Hello World”

- Jupyter notebooks are interactive shells which **save output in a nice notebook format**
- They also can display markdown, LaTeX, HTML, js...
- You'll use these for
 - in-class activities
 - interactive lecture supplements/recaps
 - homeworks, projects, etc.- if helpful!

FYI: “Jupyter Notebook” are also called iPython notebooks but they handle other languages too.

Note: you do need to know or learn python for this course!

Download(clone) and run activity_0.ipynb
from



감사합니다

출처: metachannels.com