

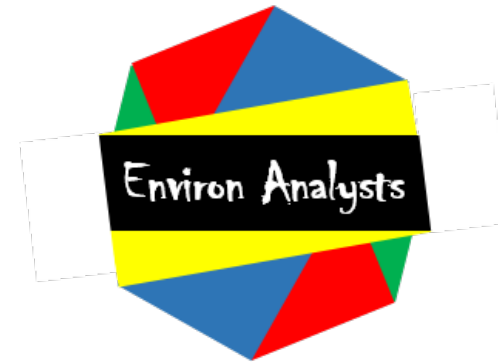
Python Study

Environ. Analysts

<환경을 분석할 줄 아는 사람이 되자!>



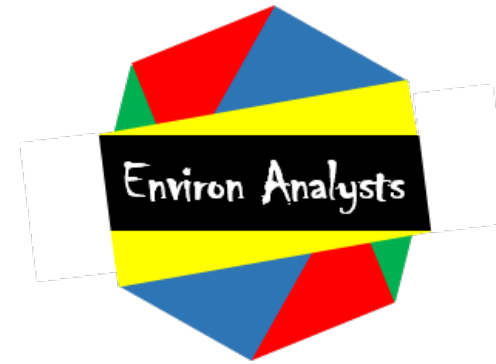
Python Study



목차

1. 비전과 목적
2. 스터디 방법
3. 스터디 타입 결정
4. 파이썬 다운로드
5. Azure Notebook 사용
6. 과제 소개

Python Study



1. 비전과 목적

- 비전공자도 이제 코딩을 할 줄 알아야 한다.
- 많은 데이터로부터 새로운 가치를 창출하자.
- 좋은 것은 함께 발전하고 널리 퍼져야 한다.
- '환경분석가'라는 새로운 페러다임을 제시한다.

Python Study

2. 스터디 방법

- 파이썬



python™

프로그래밍 언어 / 오픈 소스 / 엑셀? 보다 나은게 뭐지

Python Study



2. 스터디 방법

- 파이썬 기초/머신러닝

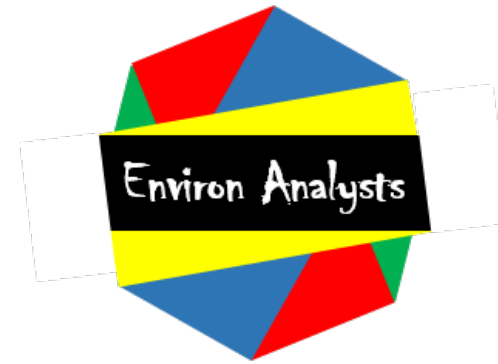
Type 1 파이썬 기초

파이썬 기초 문법을 익히고 데이터에 적용해본다.

Type 2 파이썬 머신러닝

데이터를 머신러닝 기법을 통해 분석해본다.

Python Study



2. 스터디 방법

○ 전체 발표 & 개별 멘토링&과제

Part 1 전체 발표

- 매주 월요일 날 발표자들을 선정하고 진행
- 각자 해온 것을 보고 따라하면서 실습할 수 있도록 진행

Part 2 개별 멘토링

- 발표자나 희망자에 한해 따로 진행(시간은 추후 협의)
- 해당 주에 했던 이론, 주제 및 과제들로 진행

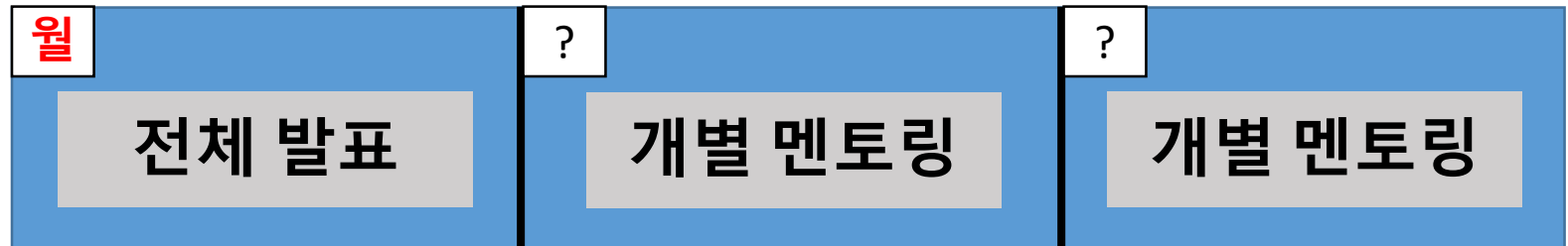
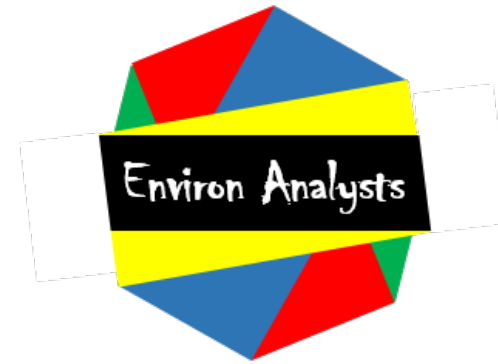
Part 3 과제

- 코딩과제 매주 한 개씩 나감.
- 과제 정답은 Github에 올림

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2. 스터디 방법

○ 스케줄

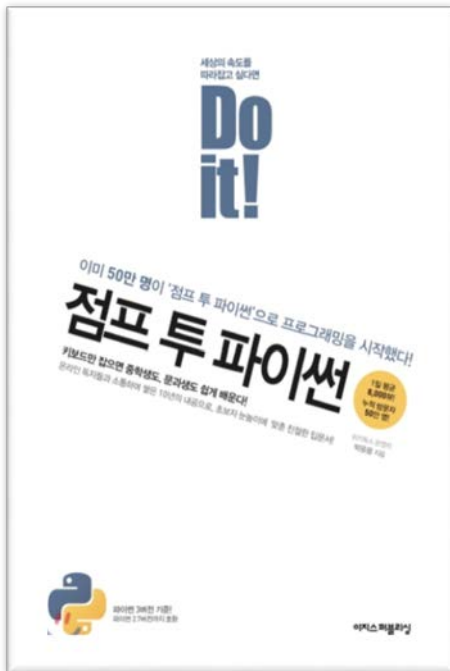


Python Study

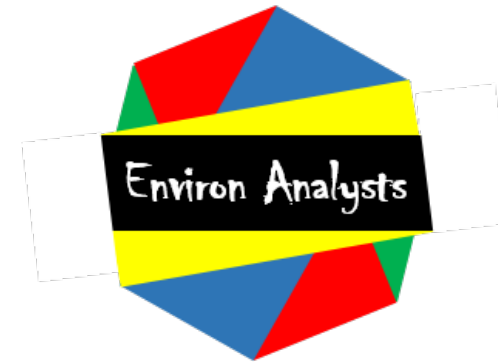
2. 스터디 방법

○ 기본 교재

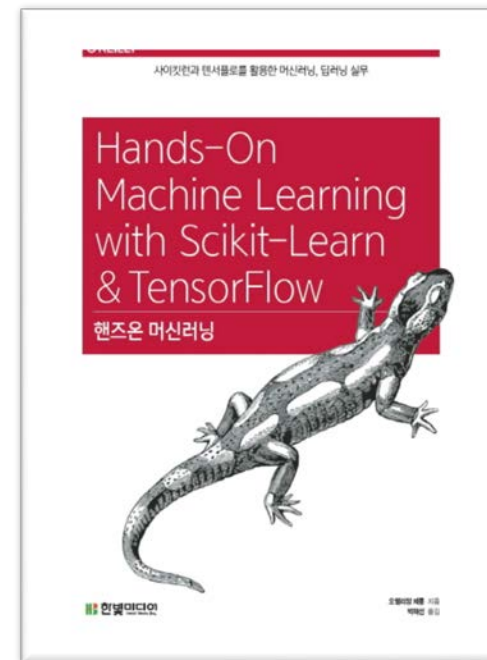
<Type 1 파이썬 기초>



구글에 '점프 투 파이썬' 검색
<https://wikidocs.net/book/1>



<Type 2 파이썬 머신러닝>

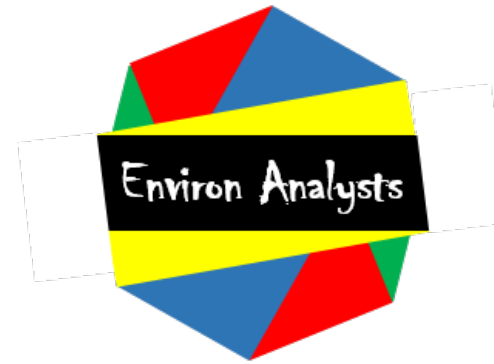


핸즈 온 머신러닝

Python Study

3. 스터디 타입 결정

- Type 1 파이썬 기초
- Type 2 파이썬 머신러닝



스터디 단톡방에서 투표 진행!

Python Study

4. 파이썬 다운로드



1. 구글에 python 검색

The screenshot shows a Google search interface with the query 'python'. The search results page displays the official Python.org website as the top result. The page includes a search bar with the Google logo, a search button, and a list of filters (전체, 동영상, 도서, 이미지, 지도, 더보기). The search results show approximately 425,000,000 results in 0.39 seconds. The first result is 'Welcome to Python.org' with the URL 'https://www.python.org/' and a link to '이 페이지 번역하기'. Below the main result, there are several links to Python resources: Downloads, Python Docs, Mac OS X, Community, 파이썬 자습서, and Python 3.7.2. The 'Downloads' link points to 'Windows - Python 3.7.2 - Python 3.7.3 - Python 3.7.0 - Python 2.7.16'. The 'Python Docs' link points to 'What's new in Python 3.7? or all "What's new" documents since 2 ...'. The 'Mac OS X' link points to 'Python Releases for Mac OS X. Latest Python 3 Release ...'. The 'Community' link points to 'Python's community is vast; diverse & aims to grow; Python ...'. The '파이썬 자습서' link points to '1. 입맛 톨우기 - 5. 자료 구조 - 9. 클래스 - 6. 모듈 - ...'. The 'Python 3.7.2' link points to 'Python 3.7.2 is the second maintenance release of Python ...'.

Google python

전체 동영상 도서 이미지 지도 더보기 설정 도구

검색결과 약 425,000,000개 (0.39초)

Welcome to Python.org
<https://www.python.org/> ▼ 이 페이지 번역하기
The official home of the **Python** Programming Language.

python.org 검색

Downloads
Windows - Python 3.7.2 - Python 3.7.3 - Python 3.7.0 - Python 2.7.16

파이썬 자습서
1. 입맛 톨우기 - 5. 자료 구조 - 9. 클래스 - 6. 모듈 - ...

Python 3.7.2
Python 3.7.2 is the second maintenance release of Python ...

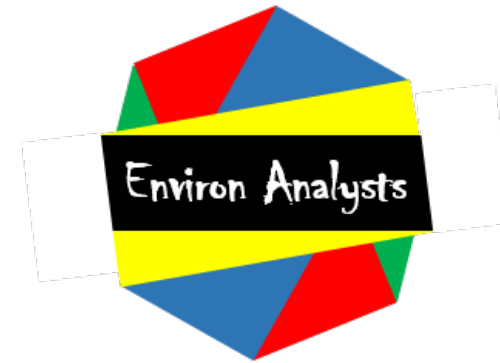
Python Docs
What's new in Python 3.7? or all "What's new" documents since 2 ...

Mac OS X
Python Releases for Mac OS X. Latest Python 3 Release ...

Community
Python's community is vast; diverse & aims to grow; Python ...

Python Study

4. 파이썬 다운로드



2. Downloads 클릭

A screenshot of the Python.org homepage. The header includes navigation links: Python, PSF, Docs, PyPI, Jobs, and Community. Below the header is the Python logo and a search bar with a 'GO' button. A secondary navigation bar contains links: About, Downloads, Documentation, Community, Success Stories, News, and Events. The main content area features a large yellow button labeled 'Download Python 3.7.3' and text encouraging users to download the latest version for Windows. It also provides links for other operating systems (Linux/UNIX, Mac OS X, Other), pre-releases, and Docker images. A decorative illustration of two parachutes with cargo boxes is on the right. At the bottom, a yellow banner promotes contributing to the PSF by purchasing a PyCharm license, with a 'Donate Now' button. The text 'Looking for a specific release?' is visible at the very bottom.

Python Study

4. 파이썬 다운로드



3. Python 3.6.5 버전 다운로드

Release version	Release date		Click for more
Python 3.5.0	Aug. 2, 2018	Download	Release Notes
Python 3.4.9	Aug. 2, 2018	Download	Release Notes
Python 3.7.0	June 27, 2018	Download	Release Notes
Python 3.6.6	June 27, 2018	Download	Release Notes
Python 2.7.15	May 1, 2018	Download	Release Notes
Python 3.6.5	March 28, 2018	Download	Release Notes
Python 3.4.8	Feb. 5, 2018	Download	Release Notes
Python 3.5.5	Feb. 5, 2018	Download	Release Notes

[View older releases](#)

Python Study

4. 파이썬 다운로드



4. 컴퓨터 사양 확인 후 다운

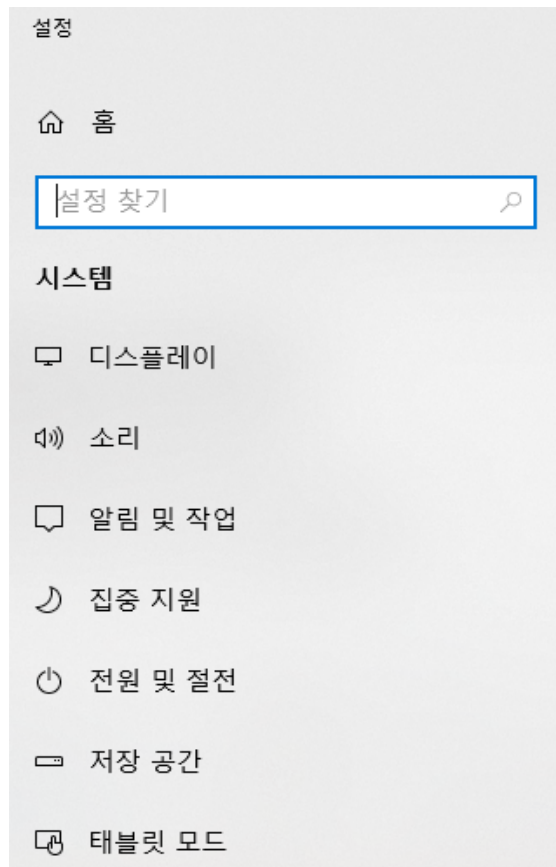
Files

Version	Operating System	Description	MD5 Sum	File Size	PGP
Gzipped source tarball	Source release		ab25d24b1f8cc4990ade979f6dc37883	22994617	SIG
XZ compressed source tarball	Source release		9f49654a4d6f733ff3284ab9d227e9fd	17049912	SIG
macOS 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	bf319337bc68b52fc7d227dca5b6f2f6	28093627	SIG
macOS 64-bit installer	Mac OS X	for OS X 10.9 and later	37d891988b6aeedd7f03a70171a8420d	26987706	SIG
Windows help file	Windows		be70202d483c0b7291a666ec66539784	8065193	SIG
Windows x86-64 embeddable zip file	Windows	for AMD64/EM64T/x64	04cc4f6f6a14ba74f6ae1a8b685ec471	7190516	SIG
Windows x86-64 executable installer	Windows	for AMD64/EM64T/x64	9e96c934f5d16399f860812b4ac7002b	31776112	SIG
Windows x86-64 web-based installer	Windows	for AMD64/EM64T/x64	640736a3894022d30f7babff77391d6b	1320112	SIG
Windows x86 embeddable zip file	Windows		b0b099a4fa479fb37880c15f2b2f4f34	6429369	SIG
Windows x86 executable installer	Windows		2bb6ad2ecca6088171ef923bca483f02	30735232	SIG
Windows x86 web-based installer	Windows		596667cb91a9fb20e6f4f153f3a213a5	1294096	SIG

Python Study

4. 파이썬 다운로드

5. 검색에서 '시스템' 정보 검색



정보

디바이스 사양

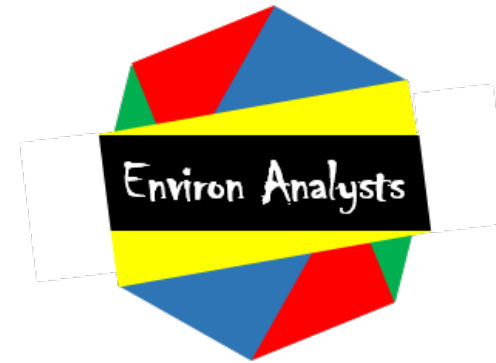
Precision Tower 3620

디바이스 이름	DESKTOP-89JTQCF
프로세서	Intel(R) Xeon(R) CPU E3-1225 v5 @ 3.30GHz 3.31 GHz
설치된 RAM	16.0GB(15.9GB 사용 가능)
디바이스 ID	FCD520CB-A3CE-4F65-B95D-8138DD771756
제품 ID	00330-50000-00000-AAOEM
시스템 종류	64비트 운영 체제, x64 기반 프로세서
펜 및 터치	이 디스플레이에 사용할 수 있는 펜 또는 터치식 입력이 없습니다.

이 PC의 이름 바꾸기

Python Study

4. 파이썬 다운로드



5. 검색에서 '시스템' 정보 검색



환경변수 에러 발생시 참조 : https://medium.com/@psychet_learn/python-%EA%B8%B0%EC%B4%88-2%EC%9E%A5-python-%EC%84%A4%EC%B9%98-%EB%B0%8F-%ED%99%98%EA%B2%BD%EC%84%A4%EC%A0%95-windows-ver-b030d96cbcd0




Python Study

4. 파이썬 다운로드



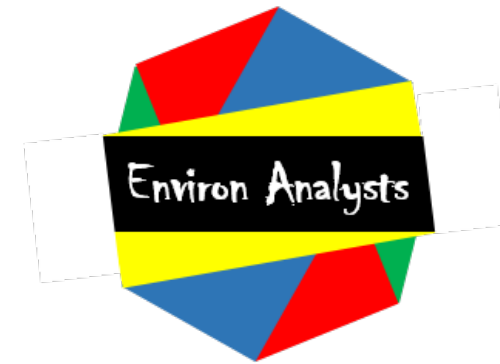
6. IDLE 실행

C:) > Users > admin > AppData > Roaming > Microsoft > Windows > Start Menu > Programs > Python 3.6

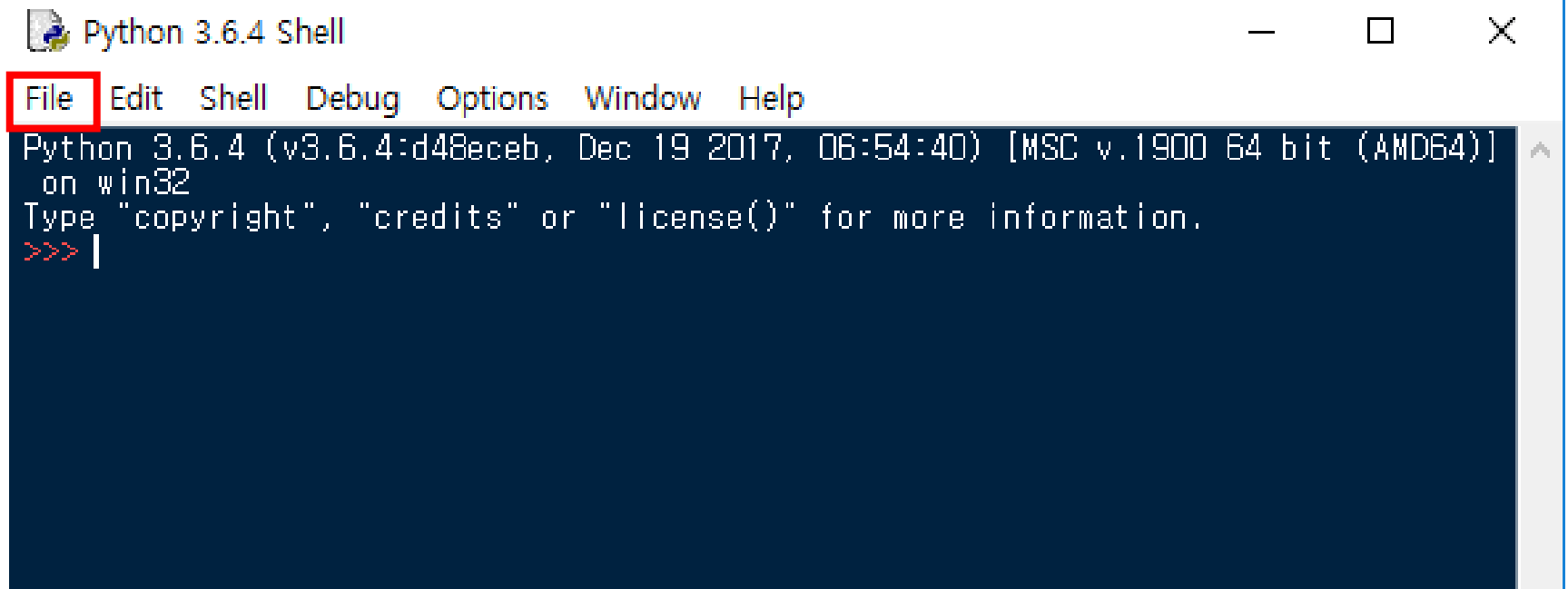
이름	수정한 날짜	유형	크기
 IDLE (Python 3.6 64-bit)	2019-05-16 오후...	바로 가기	3KB
 Python 3.6 (64-bit)	2018-02-20 오후...	바로 가기	2KB
 Python 3.6 Module Docs (64-bit)	2018-02-20 오후...	바로 가기	3KB

Python Study

4. 파이썬 다운로드



7. IDLE 코드 수정 창(매우 중요)



File -> NewFile -> 다른이름으로 저장(영문저장권장)

Python Study

4. 파이썬 다운로드



8. CMD창 실행

A screenshot of a Windows Command Prompt window. The title bar reads '관리자: 명령 프롬프트' (Administrator: Command Prompt). The window content shows the standard Windows boot text: 'Microsoft Windows [Version 10.0.17134.829]', '(c) 2018 Microsoft Corporation. All rights reserved.', and the command prompt 'C:\WINDOWS\system32>'. The background is black, and the text is white.

필요한 모듈을 다운로드 받을 수 있음.

Python Study

4. 파이썬 다운로드



9. pandas/matplotlib/numpy 다운로드

```
관리자: 명령 프롬프트
Microsoft Windows [Version 10.0.17134.829]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>
```

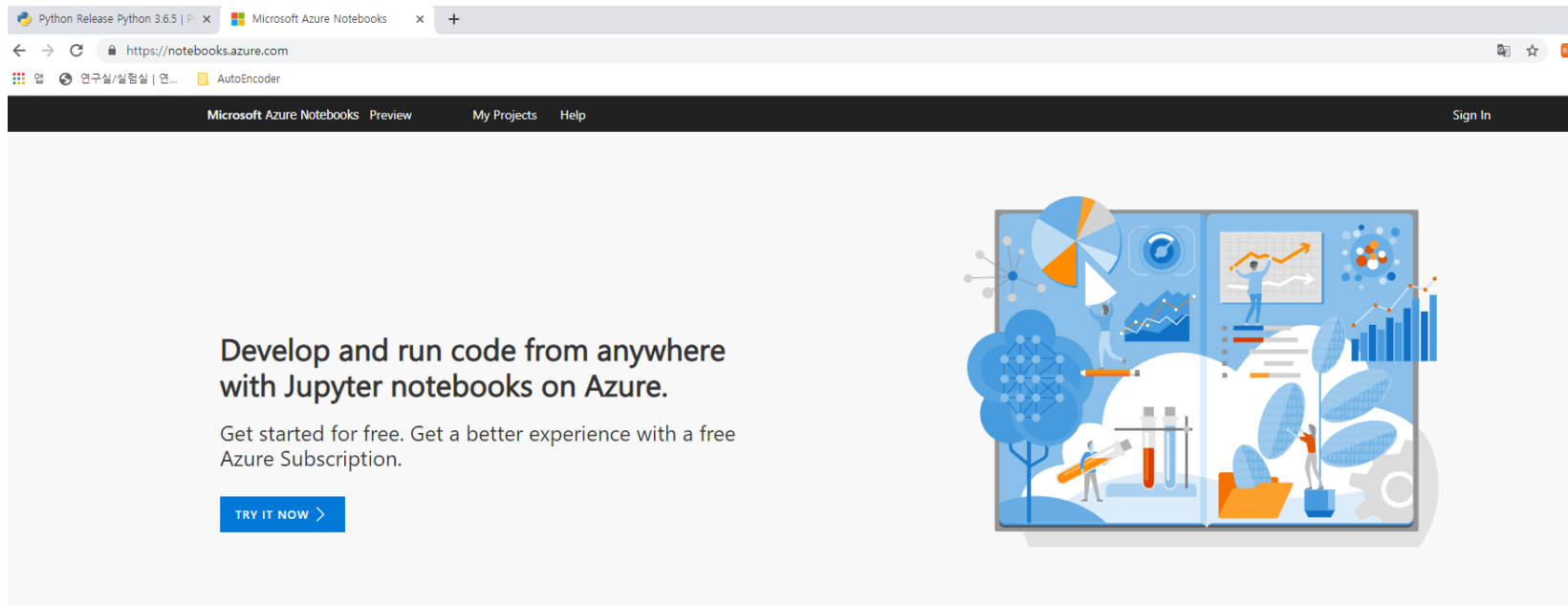
`pip install ~~~~(필요한 모듈명)`

Python Study

5. Azure Notebook 사용

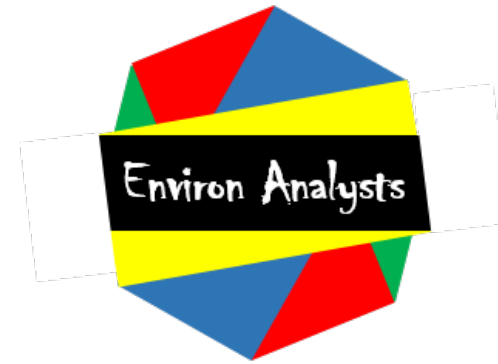


- 파이썬 콘솔 창은 한 줄씩 실행할 수 없기 때문에 스터디 활용 시 불편함.
- 따라서 AzureNotebook을 통해 원활한 스터디를 진행하고자함.



Python Study

5. Azure Notebook 사용



- 가입!
- <https://notebooks.azure.com/willy1995/projects/python-study>
(복사 붙여넣기 클로닝 과거 파이썬 스터디 했던 자료, 머신러닝, 딥러닝 관련 자료 참고 할 수 있음.)
- 스터디 발표 전 이 사이트에서 코드가 다 잘 돌아가는지 확인 후 발표 진행!

Python Study

6. 과제 소개



Github에 들어가서 과제 확인 및 과제 정답 확인

<https://github.com/thoes-environdocs>

A screenshot of a web browser showing a GitHub profile page. The browser's address bar displays 'https://github.com/thoes-environdocs'. The page header includes the GitHub logo and navigation links: 'Why GitHub?', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. A search bar is located on the right. The main content area features a green cloud-shaped logo with the text 'Environ. Doctors'. Below the logo, the profile name 'University of Seoul, Water Resource Management' is displayed, followed by the bio 'Water Quality, Bayesian Network, Copula Modelling'. The location 'Korea, Seoul' and email 'victoeywilly@gmail.com' are also shown. At the bottom, there are three tabs: 'Repositories' (0), 'People' (0), and 'Projects' (0).

← → ↻ 🏠 🔒 GitHub, Inc. [US] https://github.com/thoes-environdocs ⓘ ☆ ⚙️ 🔍 ↶ ⋮

여기에 즐겨찾기를 표시하려면 ☆ ☆를 차례로 선택한 다음 [즐거찾기 모음] 폴더로 끌어 놓거나, 다른 브라우저에서 가져옵니다. [즐거찾기 가져오기](#)

Why GitHub? ▾ Enterprise Explore ▾ Marketplace Pricing ▾ Search /

University of Seoul, Water Resource Management
Water Quality, Bayesian Network, Copula Modelling
📍 Korea, Seoul ✉ victoeywilly@gmail.com

Repositories 0 People 0 Projects 0

Python Study

6. 과제 소개



Github에 들어가서 과제 확인 및 과제 정답 확인

<https://github.com/thoes-environdocs>

The screenshot shows a GitHub repository page for 'Python-Study-Session-2'. The repository is owned by 'University of Seoul, Water Resource Management Lab'. The repository name is highlighted with a red box. The repository description is 'Python Study Sesssion 2 ; Environ. Analysts ; Python Basic & Machine Learning'. The repository has 0 forks, 1 star, 0 issues, and 0 pull requests. It was updated 2 minutes ago. The repository is part of a collection of 1 repository, 1 person, 0 teams, and 0 projects. The repository is located in Korea, Seoul, and the contact email is victoeywilly@gmail.com. The repository is categorized as 'Type: All' and has a 'Customize pins' button. The repository is listed under the 'People' section, which also shows the user 'victoeywilly'.

Python-Study-Session-2

Python Study Sesssion 2 ; Environ. Analysts ; Python Basic & Machine Learning

🔗 0 ★ 1 ⌚ 0 🔄 0 Updated 2 minutes ago

People

victoeywilly

Python Study

6. 과제 소개



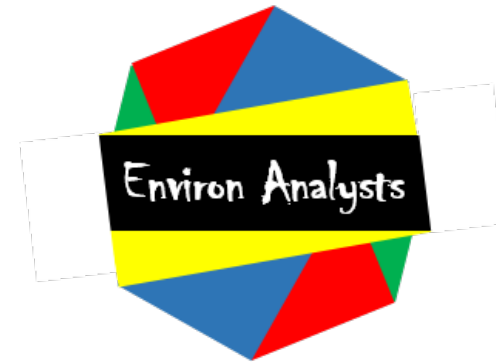
Github에 들어가서 과제 확인 및 과제 정답 확인

<https://github.com/thoes-environdocs>

A screenshot of the GitHub repository page for "thoes-environdocs / Python-Study-Session-2". The page shows the repository name, a "Watch" button with 0 notifications, and a "Star" button. Below the repository name, there are tabs for "Code", "Issues" (0), "Pull requests" (0), "Projects" (0), "Wiki", "Security", "Insights", and "Settings". The "Code" tab is selected. The repository description is "Python Study Session 2 ; Environ. Analysts ; Python Basic & Machine Learning". Below the description, there are statistics: "1 commit", "1 branch", and "0 releases". There are buttons for "Branch: master", "New pull request", "Create new file", "Upload files", and "Find files". A list of files is shown, with two files highlighted by a red box: "Homework 1 - Type1.pdf" and "Homework 1 - Type2.pdf", both labeled "First Week Homework". At the bottom, there is a blue box with the text "Help people interested in this repository understand your project by adding a README."

다운로드!

Python Study



다음주 발표자 선정!

Type 1 : 기존 스터디 하던 사람 중!

Type 2 : 김태호

Type 1은 2명씩 30분씩, Type 2는 1명 45분 분량으로 실습 포함 압축적으로 정리



Q & A



Next Week