





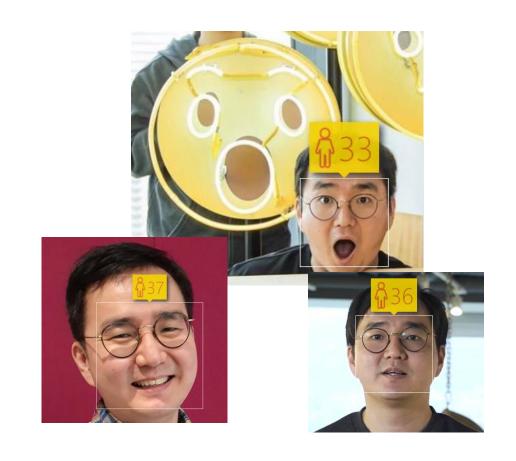
파이썬 & 리액트로 빌드하라

Build with Python & React

최영락 | Developer Product Marketing Manager, Microsoft 이진석 | Ask Django 운영자, Microsoft Azure MVP

최영락 Developer Product Marketing Manager at Microsoft





이진석 Ask Django 운영자 Microsoft Azure MVP

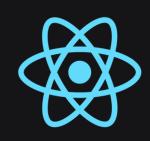
fb.com/allieuslee



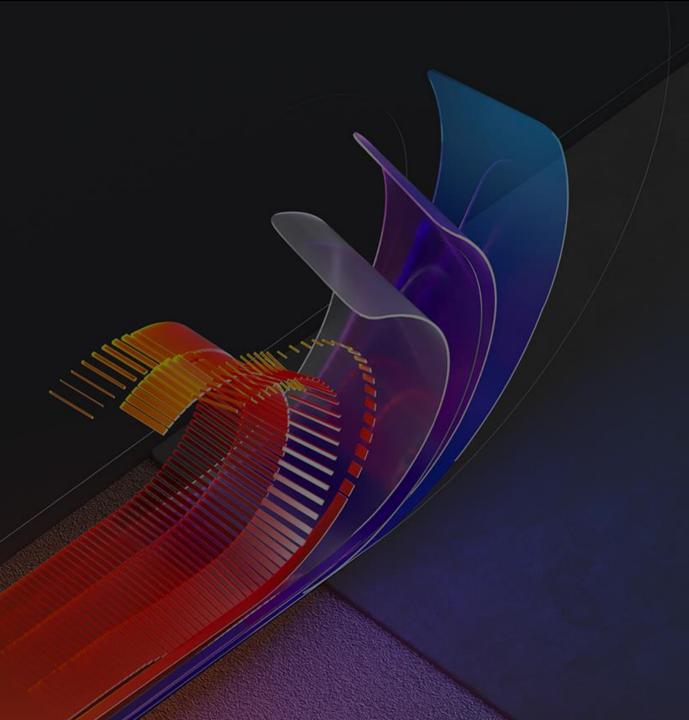
Agenda

- Build 2020에서 나왔던 Python & React
- Visual Studio Code 기반 Python 개발 환경 소개
 - 1. Windows에 직접 설치한 Python 개발 환경
 - 2. WSL2를 기반으로 한 Visual Studio Code 환경
 - 3. Codespaces 개발 환경 소개
- 목표: 머신 러닝 모델을 Azure Function으로!
 - 1. 왜 Azure Function을 선택하였는가
 - 2. Python과 Azure Function
 - 3. 빠르게 프론트엔드를 구현 가능한 React 기술
- 데모: Azure Function으로 샘플 앱을 웹 서비스로 + React 연동
- 마무리

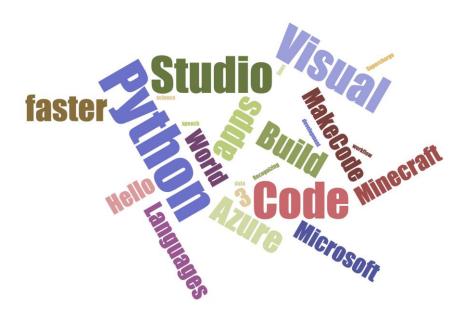




Build 2020에서 나온 Python & React 이야기



Python at Build 2020!





Microsoft MakeCode with Minecraft Python

Wednesday, May 20, 8:15 PM - 8:45 PM KST

Ankita Sharma, Microsoft Student partner community



Build Python apps in Azure faster with Visual Studio Code

Wednesday, May 20, 1:00 PM - 1:30 PM KST

Nicolas Garfinkel, Microsoft



Recognizing speech with a few lines of Python

Wednesday, May 20, 12:15 PM - 12:45 PM KST

Jim Bennett, Microsoft



Thursday, May 21, 7:00 PM - 7:30 PM KST

Nicolas Garfinkel, Microsoft



Build Python apps in Azure faster with Visual Studio Code

Thursday, May 21, 4:30 AM - 5:00 AM KST

Nicolas Garfinkel, Microsoft



Python development with Visual Studio Code

Luciana de Melo e Abud, Microsoft



Microsoft MakeCode with Minecraft Python

Wednesday, May 20, 6:00 AM - 6:30 AM KST

Peli de Halleux, Microsoft

Joey Wunderlich, Microsoft



Supercharge your data science workflow with

Python and Visual Studio Code

Jeffrey Mew

Sid Unnithan

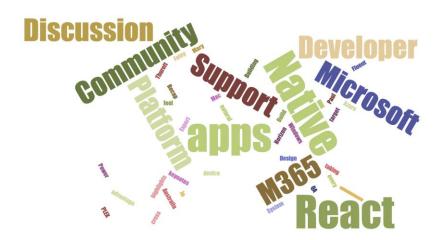
"Hello, World!" in 3 Languages

Wednesday, May 20, 1:00 PM - 1:30 PM KST

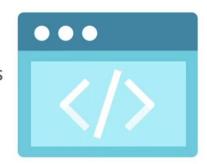
Shana Matthews, Microsoft



React at Build 2020!



Azure Static Web Apps







How PLEX is taking advantage of React Native

Thursday, May 21, 6:15 AM - 6:30 AM KST

Michael Breckle

Paul Gusmorino, Microsoft Harini Kannan , Microsoft



React Native: Build cross platform apps that target Windows, Mac, and more!

Steven Moyes, Microsoft Kiki Saintonge, Microsoft



COM44 Expert Q&A: M365 - Apps with React Native

Wednesday, May 20, 5:15 AM - 5:45 AM KST

Andrew Coates, Microsoft Steven Moyes, Microsoft Kiki Saintonge , Microsoft



Community Discussion | Developer Support from

Wednesday, May 20, 5:00 AM - 6:00 AM KST

David Armijo

Joseph "MSJoe" Flanigen, Microsoft

Arthur Garcia ...



Fluent Design System - Building apps that feel natural on every device

Paul Gildea

Benedikt Lehnert

Chigusa Sansen, Microsoft Corporation



Azure & M365 Recap with Mary Jo Foley & Paul

Wednesday, May 20, 3:45 AM - 4:00 AM KST

Mary Jo Foley, ZDNet Paul Thurrott, Thurrott.com



Australia highlights Horizon & Power Platform

Thursday, May 21, 12:45 PM - 1:00 PM KST

Rick Claus, Microsoft Sonia Cuff, Microsoft Aaron Powell, Microsoft



Community Discussion | Developer Support from

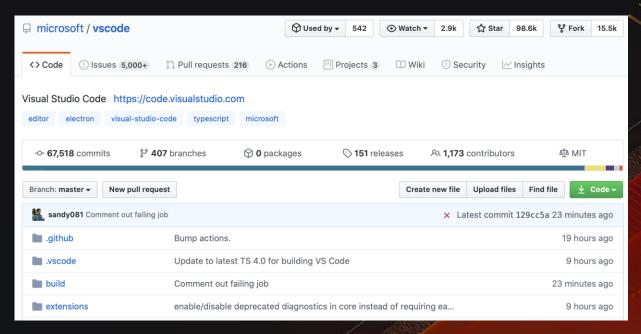
Thursday, May 21, 12:00 AM - 1:00 AM KST

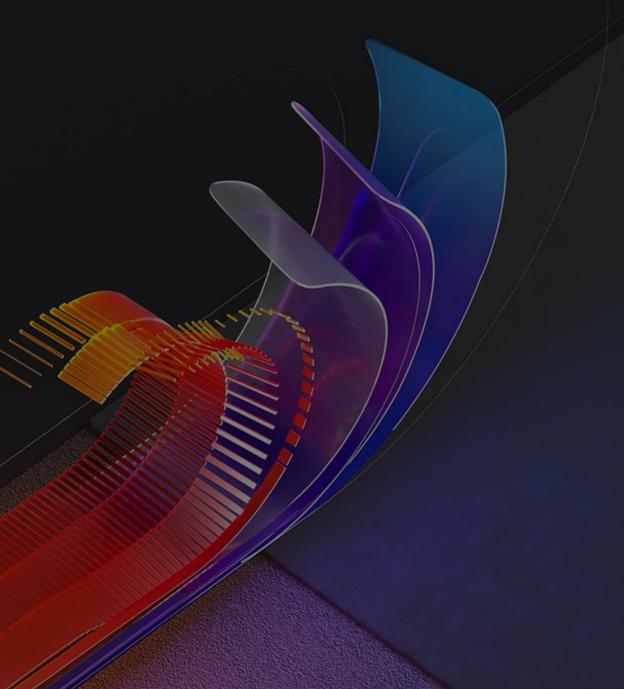
Joseph "MSJoe" Flanigen, Microsoft

Kenneth Rhodes

Ilya Zilbersteine, Microsoft

Visual Studio Code 기반 Python 개발 환경 소개





어떤 Python 개발 환경을 원하십니까?

· OS에 직접 설치

운영체제 (Windows, macOS) 에 Python
 개발 환경을 직접
 설치 및 구성



Every gotdamn time.

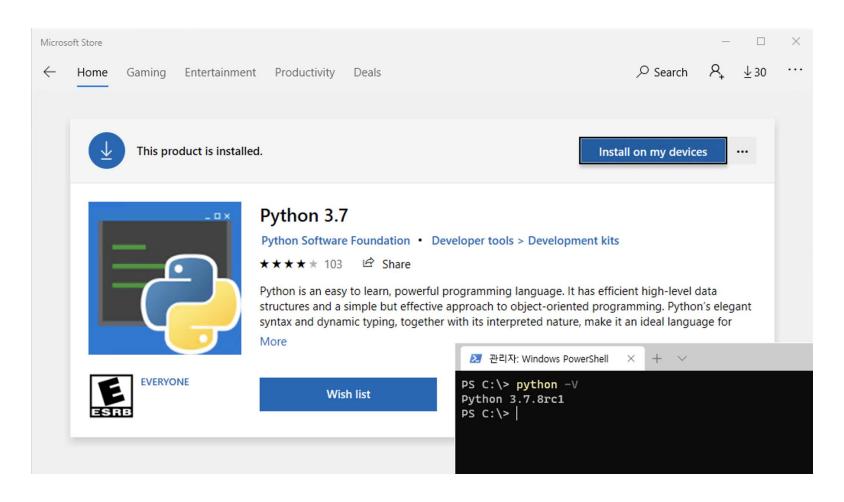
· WSL2

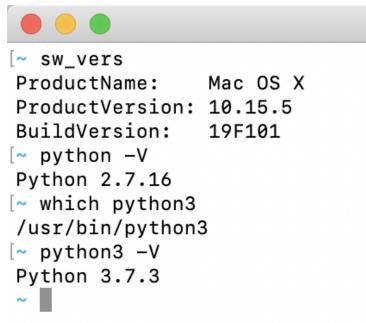
- Windows 10에서는 Windows Subsystem for Linux 기능을 통해 리눅스 기반 개발 환경을 지원
- Visual Studio Code
 등 IDE와 함께
 최적의 Python 개발
 환경 구성 가능

· Codespaces 활용

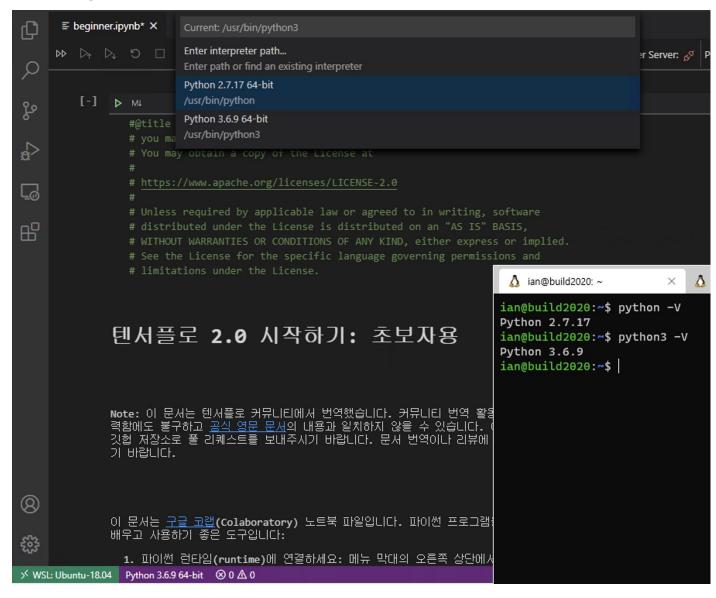
- Git 코드 저장소당 원하는 Codespaces 공간을 생성하여 작업 가능
- 작업 환경이 바뀌더라도 동일한 개발 환경 및 IDE를 사용한 개발 경험 가능

OS에 직접 설치한 Python 환경



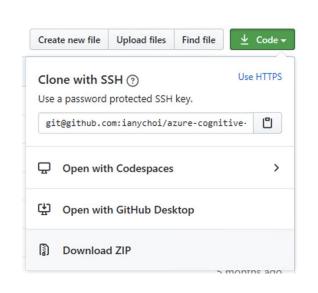


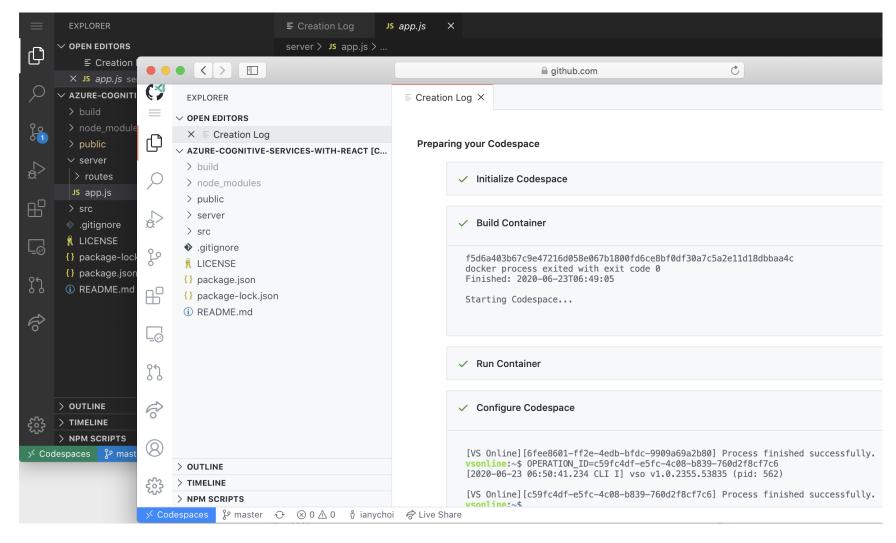
WSL2*와 함께 하는 Python 개발 환경



*WSL2: Windows Subsystem for Linux version 2

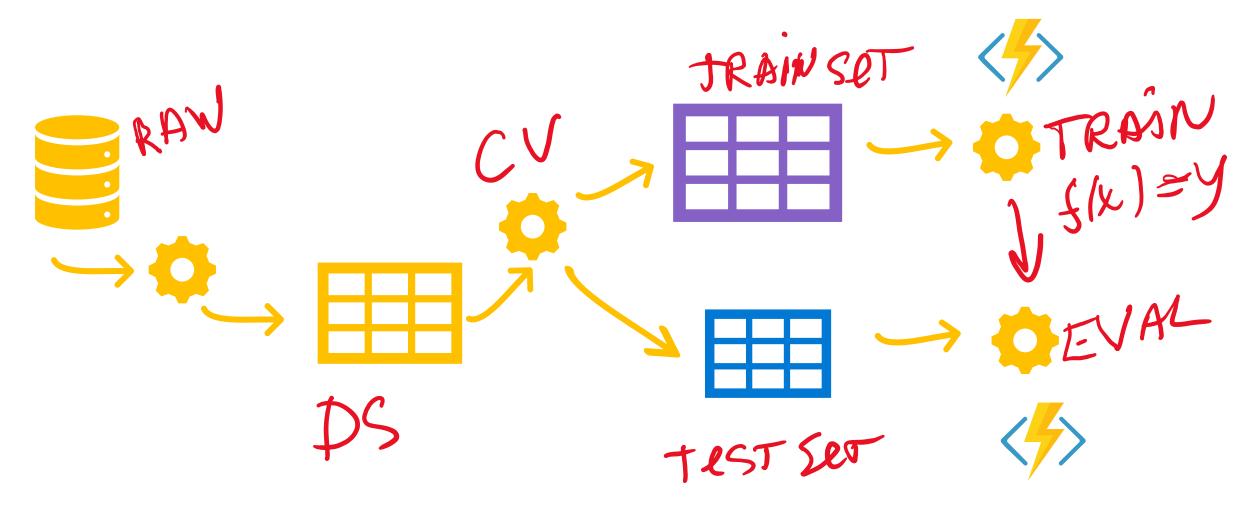
Codespaces 활용





Visual Studio Codespaces: https://visualstudio.microsoft.com/ko/services/visual-studio-codespaces/ GitHub Codespaces: https://github.com/features/codespaces/

목표: 머신 러닝 모델을 Azure Function으로!



Python을 잘 지원하는 Azure Functions!











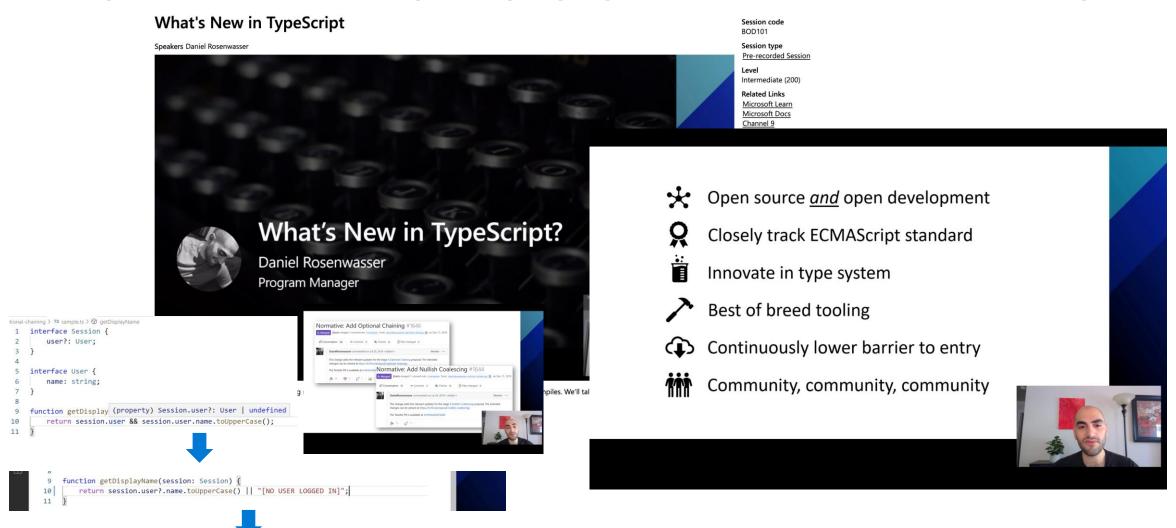
Azure Functions Language Support by Runtime Version						
Language	1.x	2.x	3.x			
<u>C#</u>	GA (.NET Framework 4.7)	GA (.NET Core 2.2)	GA (.NET Core 3.1)			
<u>JavaScript</u>	GA (Node 6)	GA (Node 8 & 10)	GA (Node 10 & 12)			
<u>F#</u>	GA (.NET Framework 4.7)	GA (.NET Core 2.2)	GA (.NET Core 3.1)			
<u>Java</u>	N/A	GA (Java 8)	GA (Java 8)			
<u>PowerShell</u>	N/A	GA (PowerShell Core 6)	GA (PowerShell Core 6)			
<u>Python</u>	N/A	GA (Python 3.6 & 3.7)	GA (Python 3.6, 3.7, & 3.8)			
TypeScript	N/A	GA ¹	GA ¹			

Demo

Azure Function으로 샘플 앱을 웹 서비스로

+ React 연동

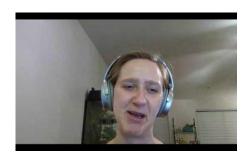
그 외 프론트엔드 개발자에게 관심있을만한 Build 세션

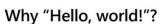


function getDisplayName(session: Session) {

return session.user?.name.toUpperCase() ?? "[NO USER LOGGED IN]"

Microsoft welcomes every developers!









Language comparison

Language	Primary usage	Typing	Syntax	Key benefits
Python	Data scienceWeb backendDevOps	Dynamic (duck typing)	Whitespace matters	ReadabilityLibrariesCommunity
C#	Application developmentGeneral purpose	Static	Strict rules & structure	Mature and stablePowerful debugging
JavaScript	Web frontend and backend	Dynamic	Quirky	SpeedVersatile and interoperable

전 문 가 가 추 천 하 는 가 이 드

Microsoft Docs

기술 소개, 튜토리얼, 코드 샘플 등 다양한 기능을 살펴보세요.

Visit: aka.ms/docs.kr

Microsoft Docs

docs.microsoft.com은 최종 사용자, 개발자 및 IT 전문가를 위한 Microsoft 문서의 홈입니다. 빠른 시작, 자습서, API 참조, 코드 예제를 확인하세요.

- Windows	🔥 Azure	⋈ Visual Studio	Office	Microsoft 365
ASP.NET	SQL	Enterprise Mobility + Security	Microsoft Surface	Dynamics 365
Azure DevOps	System Center	≥ PowerShell	Microsoft Graph	Microsoft Education

Docs 디렉터리

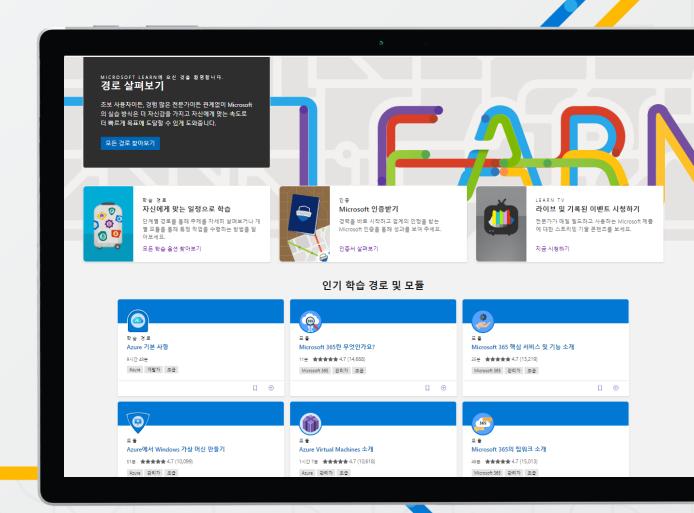
.NET	Microsoft 365 Business	NuGet
적응형 카드	Microsoft 365 Enterprise	Office
ASP.NET	Microsoft Advertising	Office 365
Azure	Microsoft Edge	OneDrive
Azure 아키텍처 센터	Microsoft Education	개방형 사양
Azure Bot Service	Microsoft Endpoint Configuration Manager	PlayReady
Azure DevOps	Microsoft Endpoint Configuration Manager	Power Apps
Azure IoT Central	Microsoft Endpoint Manager	Power Automate
Azure Sphere	Microsoft FastTrack	Power BI
Bing 지도	Microsoft Forms Pro	Power Platform
Biztalk Server	Microsoft Graph	파워 쿼리
C++	Microsoft HPC Pack 2016	PowerShell

언제 어디서나 배워보세요

Microsoft Learn

단계별 학습을 통해 다양한 기능을 알아보고 새로운 기술을 배워보세요.

Visit: aka.ms/learn.kr



감사합니다!



최영락



이진석

