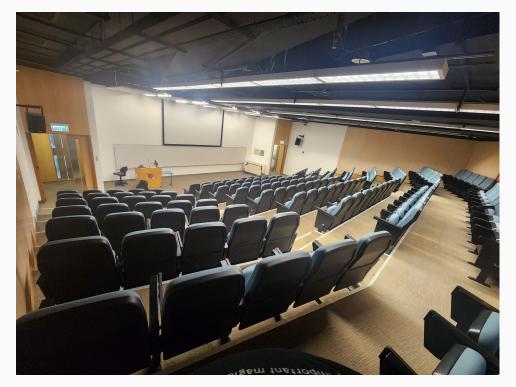
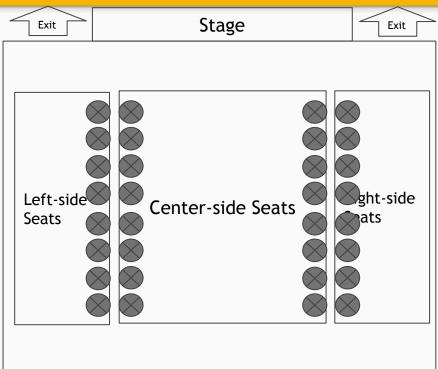
# Yasumoto International Academic Park - YIA LT6

Limited Mobile Signal. Please use <u>on-campus wifi</u>. 32 Sockets. But please bring your own charger.







# More on API

CUHK MSc Data Science & Biz Stat. Program STAT5106 - Programming Techniques for Data Science Week 6 @ 24 Oct 2024

# Today API's Topic

#### Data.gov.hk

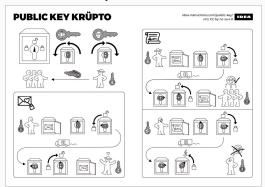


## **CSDI**



# To get start using API

#### **API Specification**



#### Output = XML / JSON / CSV ?

```
<?xml version="1.0"?>
- <birds>
   - <owl id="1201">
        <species>Bubo bubo</species>
        <name>Eagle Owl</name>
        <region>Eurasia</region>
    </owl>
   - <owl id="1202">
        <species>Strix occidentalis
        <name>Spotted Owl</name>
        <region>North America</region>
     </owl>
 </birds>
```

### **Data Dictionary**













#### **Historical Versions**

https://api.data.gov.hk/v1/historical-archive/get-file?

uri=https%3A%2F%2Fdata.weather.gov.hk%2FweatherAPI%2Fcis%2Fcsvfile%2FKP%2FALL%2Fdailv KP RF ALL.csv&time=20231001-1023

https://api.data.gov.hk/v1/historical-archive/get-file?

url=https%3A%2F%2Fdata.weather.gov.hk%2FweatherAPI%2Fcis%2Fcsvfile%2FKP%2FALL%2Fdaily\_KP\_RF\_ALL.csv&time=20231002-1005

https://api.data.gov.hk/v1/historical-archive/get-file? url=https%3A%2F%2Fdata.weather.gov.hk%2FweatherAPI%2Fcis%2Fcsvfile%2FKP%2FALL%2Fdaily\_KP\_RF\_ALL.csv&time=20231005-1005

https://api.data.gov.hk/v1/historical-archive/get-file? url=https%3A%2F%2Fdata.weather.gov.hk%2FweatherAPI%2Fcis%2Fcsvfile%2FKP%2FALL%2Fdaily\_KP\_RF\_ALL.csv&time=20231006-0957

https://api.data.gov.hk/v1/historical-archive/get-file?

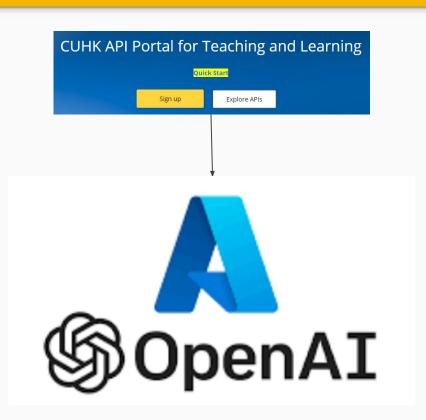
url=https%3A%2F%2Fdata.weather.gov.hk%2FweatherAPI%2Fcis%2Fcsvfile%2FLFS%2FALL%2Fdaily LFS RF ALL.csv&time=20231001-1036

https://api.data.gov.hk/v1/historical-archive/get-file?

url=https%3A%2F%2Fdata.weather.gov.hk%2FweatherAPI%2FcIs%2Fcsvfile%2FLFS%2FALL%2Fdaily\_LFS\_RF\_ALL.csv&time=20231004-1038

# Azure APIs - for CUHKers only

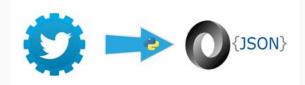




# Start Coding...

Accessing Colab:
Gov API Example, Azure API for CUHKers only

# X (Twitter) API

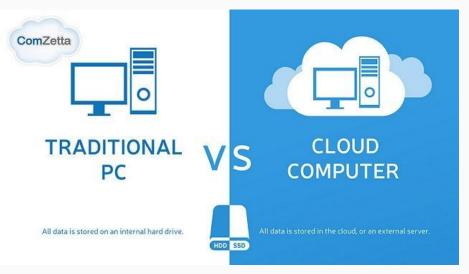


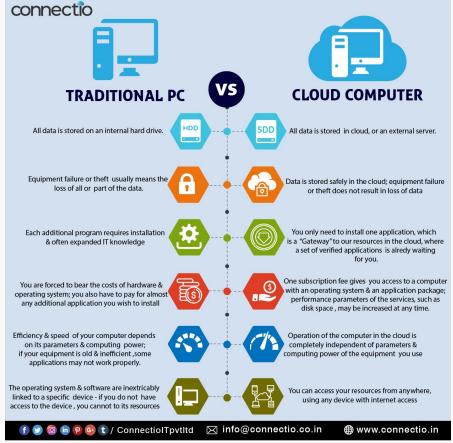


# Instagram Scraper

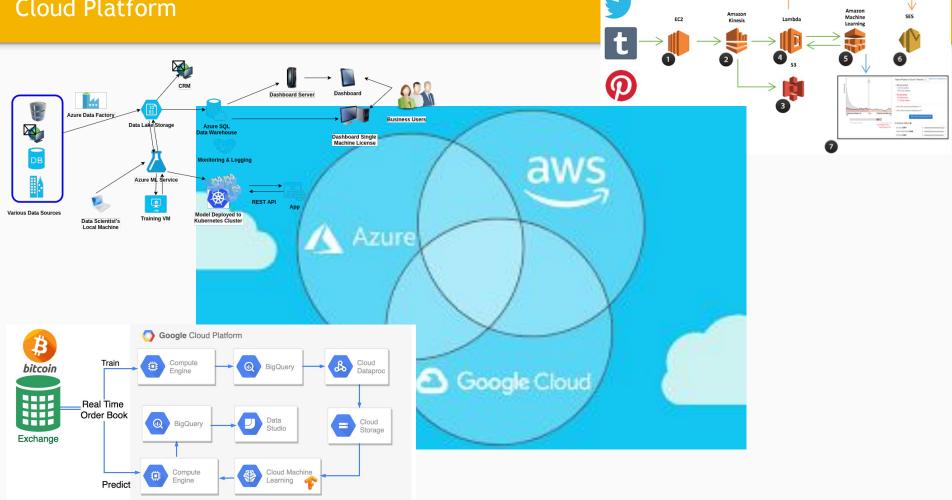


### Cloud Platform





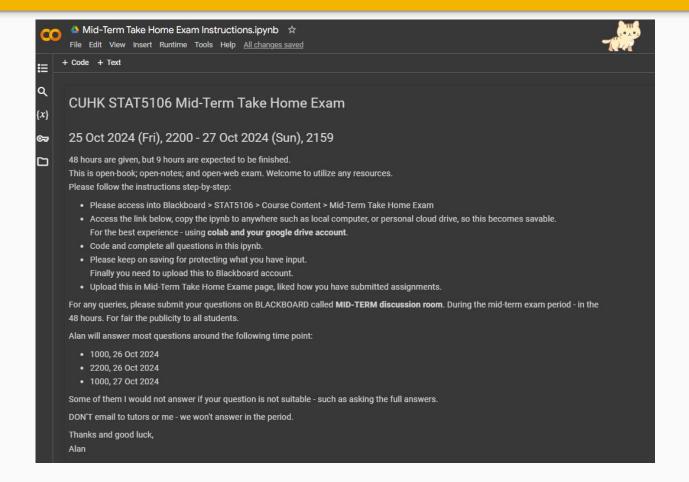
# **Cloud Platform**



# Free Website Example - wars.vote4.hk (already down)



#### Recall the Mid-Term Exam



# To be continue... Mid-Term on 25 Oct; 2200 - 27 Oct; 2159 Good luck!