

OPENING

SOFTWARE

HARDWARE

DEMONSTRATION

CLOSING

Taipei Municipal Daan Vocational High School Department of Electronic Engineering

Our Personal Secretary : A Smart Bulletin Board

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Instructor : Teacher 簡靖哲

January 9th, 2022

OUTLINE

Part 1

Motivation

Assignment

Part 2

Software

Hardware

Demonstration

Part 3

Prospect

Q&A

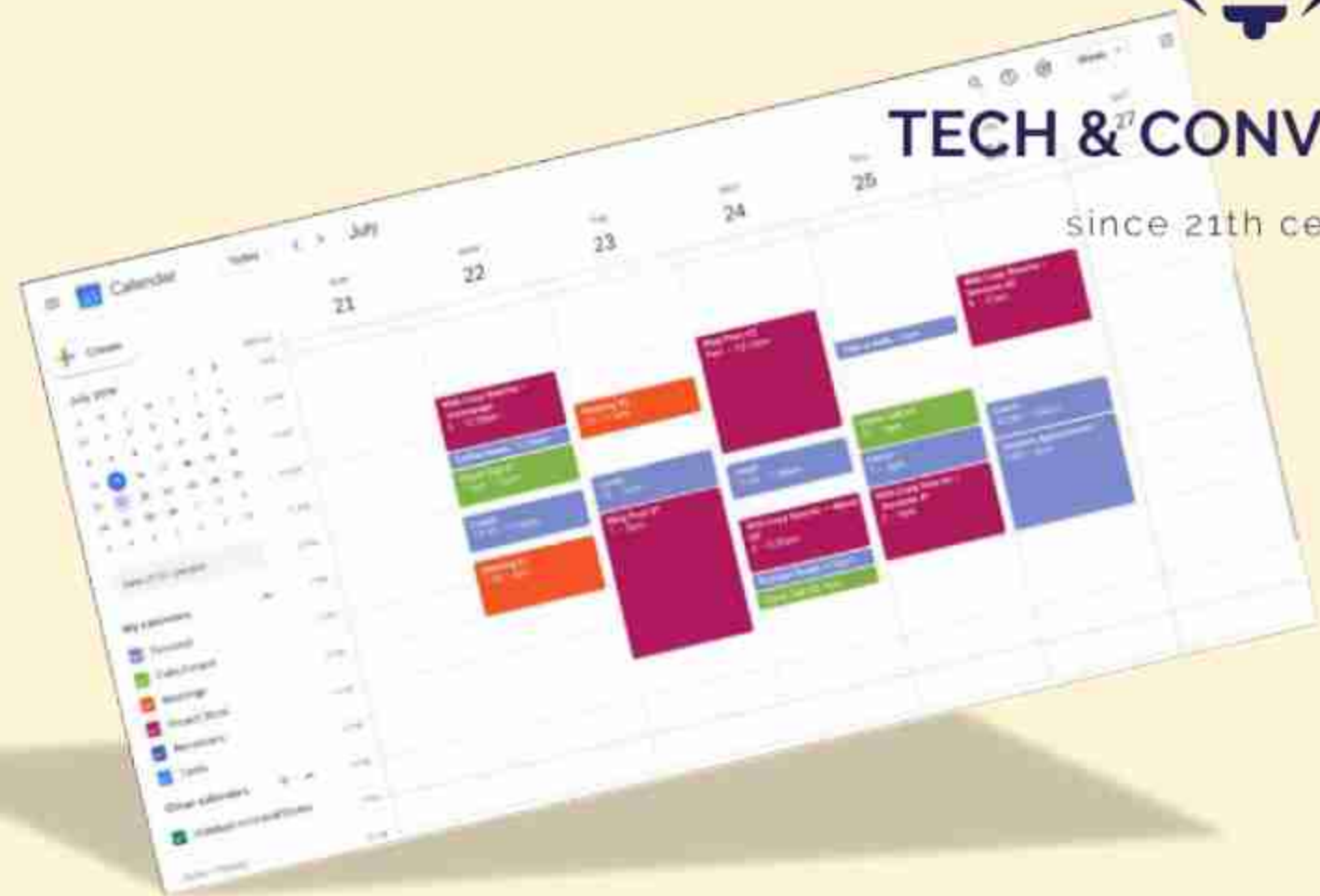


NOT CONVENIENT

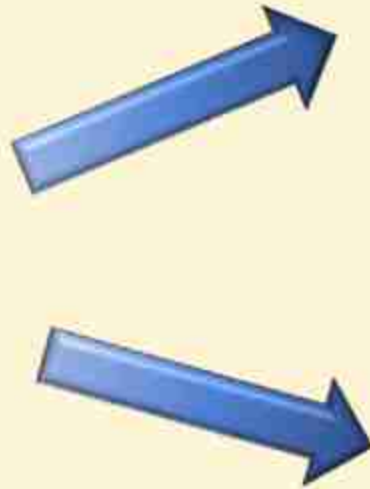
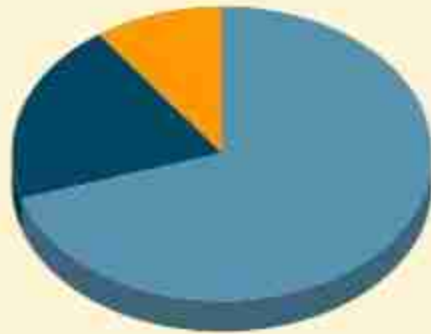


TECH & CONVENIENCE

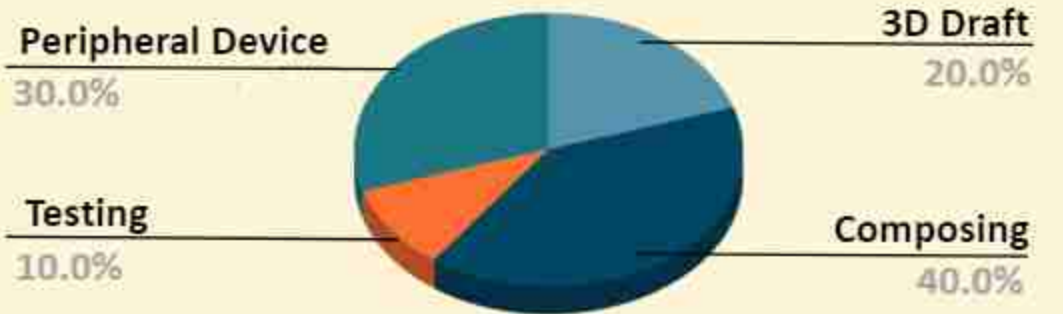
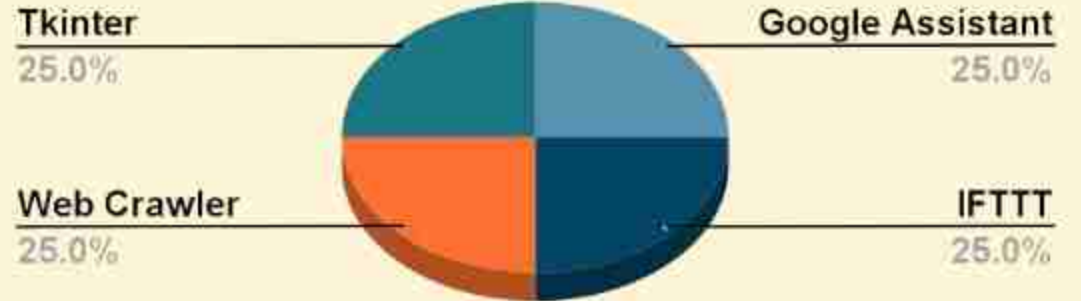
since 21th century



Assignment



Software Assignment



- Software
- Hardware
- Presentation

OPENING

SOFTWARE

HARDWARE

DEMONSTRATION

CLOSING





- Acquire LINE Authorization
- Acquire Google Authorization
- Individual Setting
 - Google Calendar Quick note
 - Remind Event



授權 IFTTT 進行連動



綁定 LINE 帳號



Bind & Authorize

使用 Google 帳戶登入



「IFTTT」想要存取您的 Google 帳戶

daanfinalproject@gmail.com

這麽做將允許「IFTTT」進行以下操作：

查看、編輯、共用及永久刪除您可透過 Google 日曆存取的所有日曆

確認「IFTTT」是您信任的應用程式

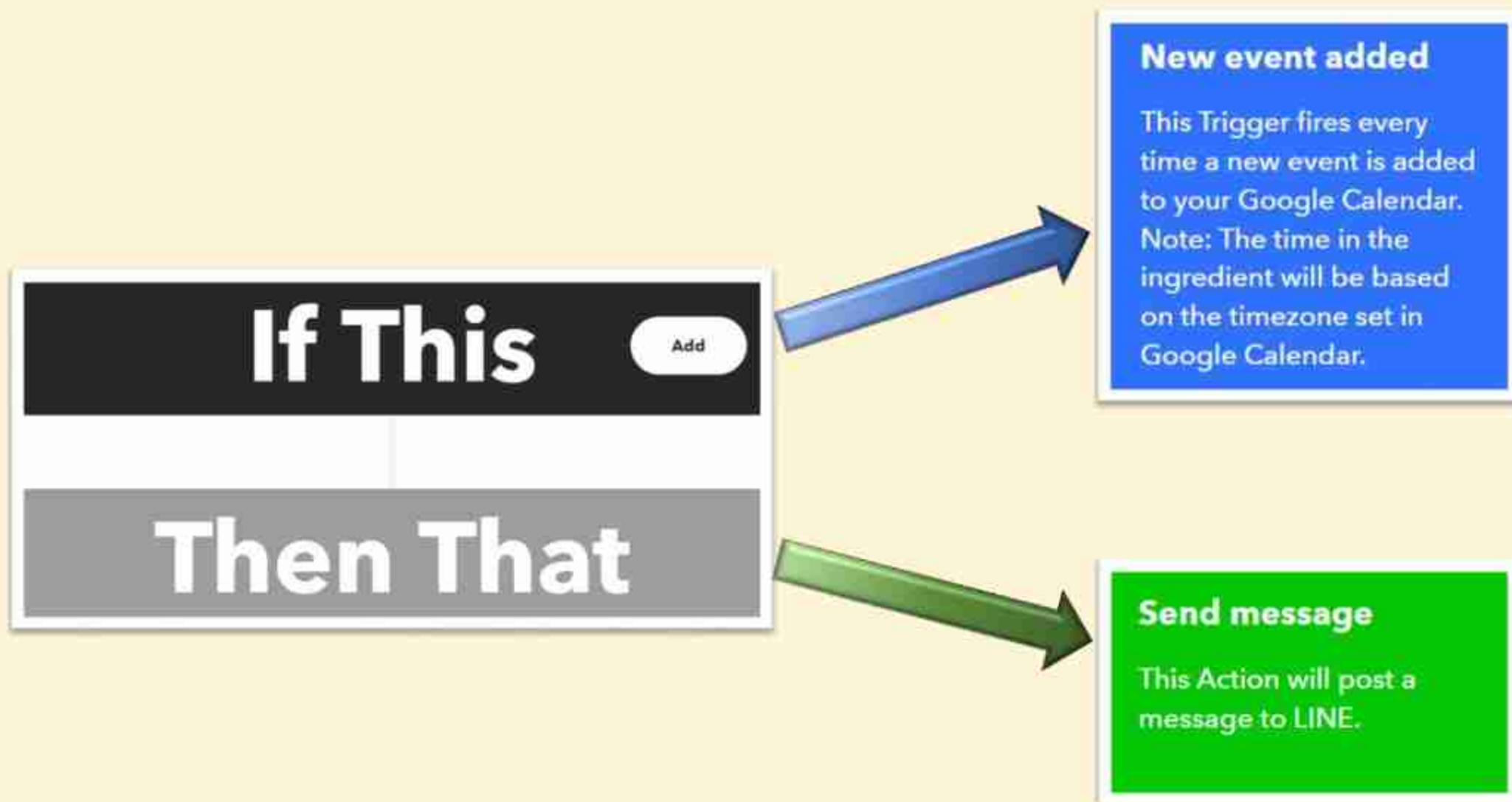
這麽做可能會將機密資訊提供給這個網站或應用程式。您隨時可以前往 [Google 帳戶](#) 頁面查看或移除存取權。

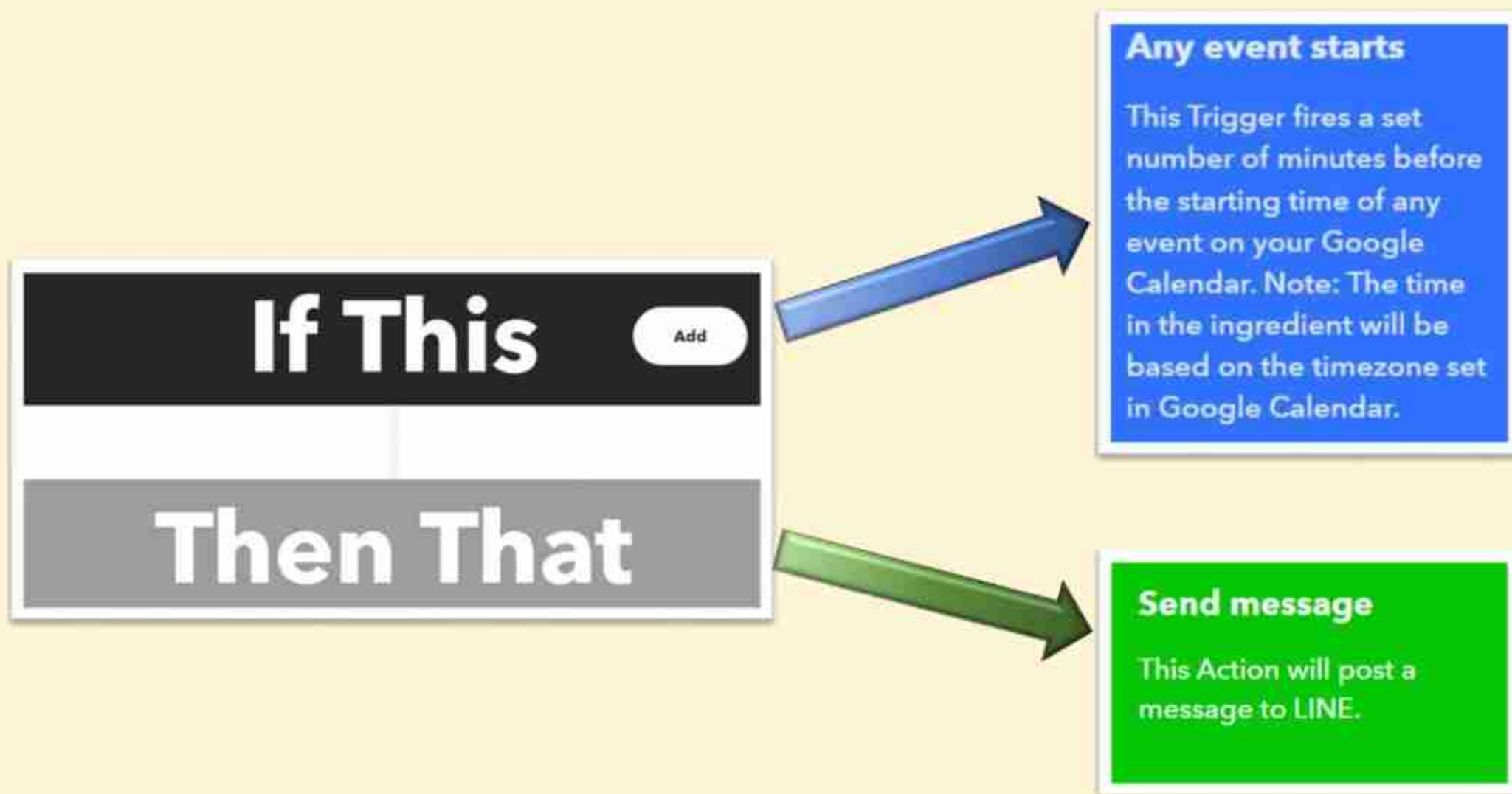
瞭解 Google 如何協助您安全地分享資料。

詳情請參閱「IFTTT」的 [隱私權政策](#) 和 [服務條款](#)。

取消

允許







New event added

Google Calendar account

daanfinalproject@gmail.com

Add new account

Which calendar?

daanfinalproject@gmail.com

Make sure
Google account

Designate the
calendar which we set

The time before starts



Any event starts

Google Calendar account

daanfinalproject@gmail.com

Add new account

Which calendar?

daanfinalproject@gmail.com

Select a calendar

Time before event starts

30 minutes

LINE

Send message

LINE account

小明

Add new account

Recipient

111 專題-智慧佈告欄

Message destination

Message

提醒事項: Title
開始時間: Starts
結束時間: Ends
備註: Description
發布時間: CreatedAt

Add ingredient

Make sure
the LINE account

Designate the
right chatroom

The content
of the message

LINE

Send message

LINE account

小明

Add new account

Recipient

111 專題-智慧佈告欄

Message destination

Message

提醒事項: Title
時間: Starts
場所: Where
備註: Description

Add ingredient





- **API Certification**
Register device number
- **Download SDK**
Setup virtual environment
- **Execute script automatically**



Welcome to Actions on Google

Actions on Google is the platform for developers to extend the Google Assistant. Join this emerging ecosystem by developing actions to engage users on Google Home, Pixel, and many other surfaces where the Google Assistant will be available.

[Documentation](#) [Sample code](#) [API reference](#) [Support](#)

Your projects



You don't have any projects yet. Click below to get started.

New Project

Terms | Privacy Policy



Actions on Google

Terms of Service

I agree to adhere to the [Actions on Google policies](#) and [Terms of Service](#). I understand that creating projects in Actions on Google Console will also allow me to use Firebase services, and I agree that my use of Firebase services will adhere to the applicable [Firebase Terms of Service](#).

Yes No

Country of residence

Taiwan

Send me updates and tips to help me get the most out of Actions on Google.

Yes No

Invite me to participate in surveys and pilots to improve Actions on Google.

Yes No

Agree and continue

Register the project account at Actions Console



Google Assistant API

[Google](#)

Google Assistant API

管理



API 已啟用

Active API

編輯應用程式註冊申請

1 OAuth 同意畫面 — 2 範圍 — 3 進填資訊 — 4 摘要

應用程式資訊

這項內容會顯示在開發者中心，可協助使用者瞭解您及您的軟體。

應用程式名稱 *

project-653345151263

顯示名稱的應用程式名稱

使用者支援電子郵件 *

daanfinalproject@gmail.com

為您使用者提供聯絡，以取得有關您的專案資訊。

應用程式標誌

新增

將可協助使用者瞭解您應用程式的圖片上傳至同意畫面。系統允許的圖片格式為 JPG、PNG 和 BMP，且大小不得超過 1 MB。為取得最佳效果，請使用大小為 120 x 120 px 的正方形標誌。

Certification


```
命令提示字元
C:\Users\USER\Downloads>scp_client_secret
'scp_client_secret' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\USER\Downloads>scp client_secret
usage: scp [-346BCpqrTv] [-c cipher] [-F ssh_config] [-i identity_file]
          [-J destination] [-l limit] [-o ssh_option] [-P port]
          [-S program] source ... target

C:\Users\USER\Downloads>scp client_secret_653345151263-q0c6ld4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com
usage: scp [-346BCpqrTv] [-c cipher] [-F ssh_config] [-i identity_file]
          [-J destination] [-l limit] [-o ssh_option] [-P port]
          [-S program] source ... target

C:\Users\USER\Downloads>scp client_secret_653345151263-q0c6ld4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com.json
usage: scp [-346BCpqrTv] [-c cipher] [-F ssh_config] [-i identity_file]
          [-J destination] [-l limit] [-o ssh_option] [-P port]
          [-S program] source ... target

C:\Users\USER\Downloads>scp client_secret_653345151263-q0c6ld4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com.json
pi@192.160.0.112:/home/pi/
```

Import the certification into raspberry pi

```
$ sudo apt-get update
$ sudo apt-get install python3-dev python3-venv # Use python3.4-venv if the package cannot be found.
$ python3 -m venv env
$ env/bin/python -m pip install --upgrade pip setuptools wheel
$ source env/bin/activate
```

Set virtual environment

```
(env) $ python -m pip install --upgrade google-assistant-sdk[samples]
```

```
(env) $ sudo apt-get install portaudio19-dev libffi-dev libssl-dev
```

Get and download the SDK

請確認您信任「project-653345151263」

「project-653345151263」要求存取您的 Google 帳戶。為保護帳戶，請務必確認您知悉並信任這個應用程式，再繼續操作。

登入取得存取權授予「project-653345151263」

如何登入或授予存取權：

- 複製「授權碼」部分中的授權碼。
- 前往「project-653345151263」。
- 在「project-653345151263」畫面中貼上授權碼。

授權碼

請複製組長授權碼，然後切換到您的應用程式，再貼上授權碼：

`4/1AdQt8qiV_ubCqMUPkT04X25J041o1T8DCuv`
`807eNbdM2o9RwR1f5Anpg8Lo`

請勿登入，也不要將存取權授予「project-653345151263」

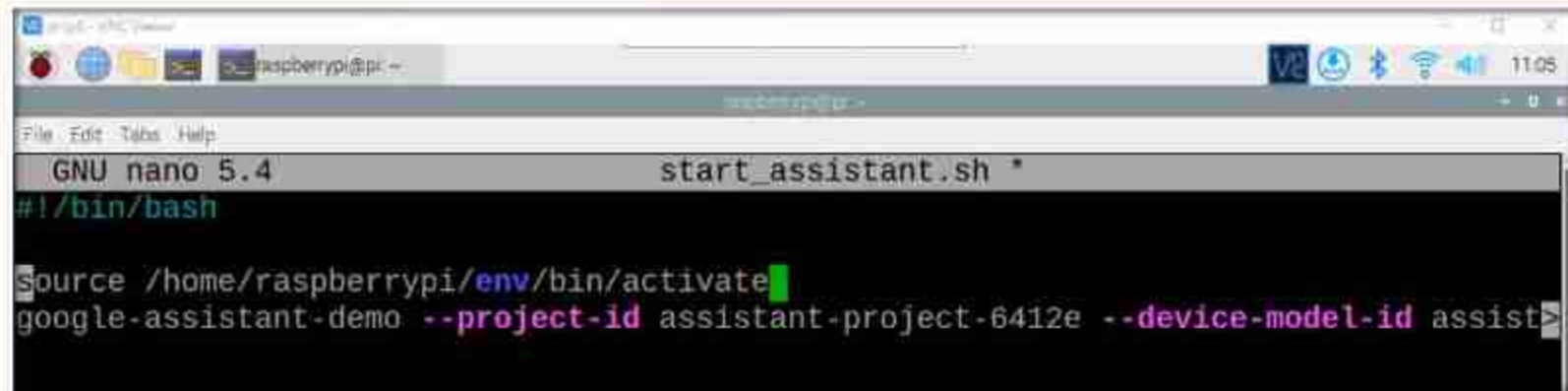
如果不想繼續操作，請關閉這個視窗。

```

pi@raspberrypi:~$ google-oauthlib-tool --scope https://www.googleapis.com/auth/assistant-edk-prototype --save --headless --client-secrets /home/pi/client_secret_653345151263-q0c61d4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com.json
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=653345151263-q0c61d4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com&redirect_uri=urn%3Aietf%3Awg%3Aoauth%3A2.0%3Aacct&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fassistant-edk-prototype&state=v8rfIPL8E0C0QcFpV4Ugd5maGPy9BT&prompt=consent&access_type=offline
Enter the authorization code: ^C
Aborted!
pi@raspberrypi:~$ google-oauthlib-tool --scope https://www.googleapis.com/auth/assistant-edk-prototype --save --headless --client-secrets /home/pi/client_secret_653345151263-q0c61d4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com.json
Please visit this URL to authorize this application: https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=653345151263-q0c61d4n5pqu9hovnuivhp3oh0inuiv.apps.googleusercontent.com&redirect_uri=urn%3Aietf%3Awg%3Aoauth%3A2.0%3Aacct&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fassistant-edk-prototype&state=1WCO0fdop0U98hh6FV85nBuY8Csop&prompt=consent&access_type=offline
Enter the authorization code: 4/1AdQt8qiV_ubCqMUPkT04X25J041o1T8DCuvR2eWndN2oa9Wb1f5Anpg8Lo
credentials saved: /home/pi/.config/google-oauthlib-tool/credentials.json
pi@raspberrypi:~$
  
```

Authorized Code

Successfully



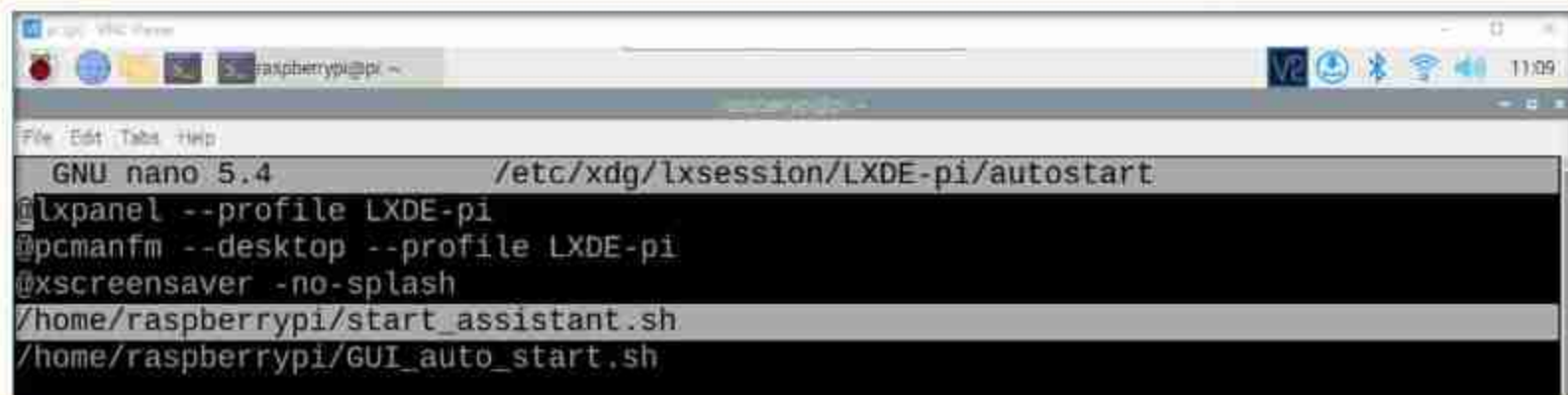
```
GNU nano 5.4 start_assistant.sh *
#!/bin/bash
source /home/raspberrypi/env/bin/activate
google-assistant-demo --project-id assistant-project-6412e --device-model-id assist
```

Bash script



```
raspberrypi@pi:~$ sudo nano /etc/xdg/lxsession/LXDE-pi/autostart
```

Enable the setting
of auto-start



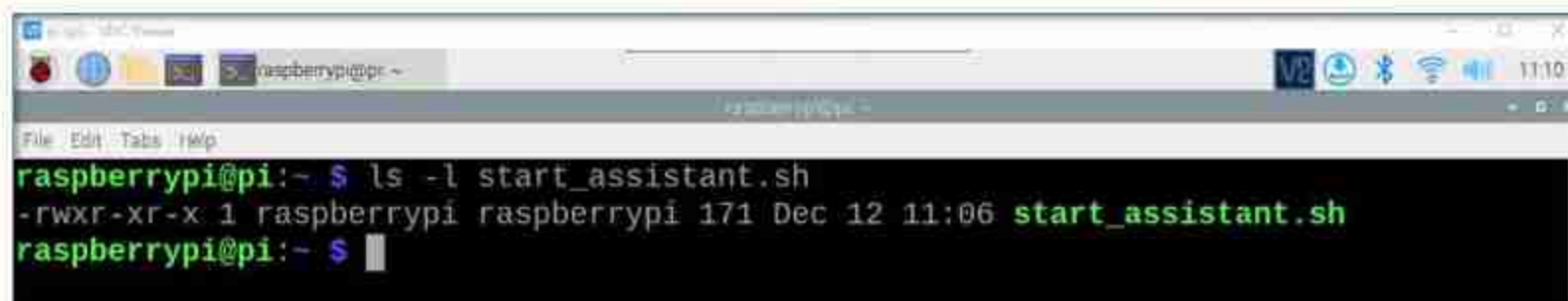
```
GNU nano 5.4 /etc/xdg/lxsession/LXDE-pi/autostart
@lxpanel --profile LXDE-pi
@pcmanfm --desktop --profile LXDE-pi
@xscreensaver -no-splash
/home/raspberrypi/start_assistant.sh
/home/raspberrypi/GUI_auto_start.sh
```

Import the file
we want



```
raspberrypi@pi:~$ sudo chmod +x /home/pi/start_assistant.sh
```

Change
the Mode



```
raspberrypi@pi:~$ ls -l start_assistant.sh
-rwxr-xr-x 1 raspberrypi raspberrypi 171 Dec 12 11:06 start_assistant.sh
raspberrypi@pi:~$
```

Recheck

COVID-19

Global Taiwan Q

| | | | | |
|--------|------------|------------|-----------|--------------------|
| 國內通報總計 | 通報數 | 排除 | 確診 | 死亡 |
| | 17,567,153 | 11,310,244 | 6,211,093 | 10794 |
| 昨日新增 | 通報數 | 排除 | 確診 | 國內檢驗 總計 |
| | 55,105 | 16,329 | 38371 | 累計件數 25,745,380 |

COVID-19 監測趨勢圖-依通報來源

The website of Taiwan Centers for Disease Control



COVID-19

國內通

昨日

F12



DevTools is now available in Chinese! [Always match Chrome's language](#) [Switch DevTools to Chinese](#) [Don't show again](#)

Elements Console Sources Network Performance Memory Application Security Lighthouse

```

<!DOCTYPE html>
<html lang="zh-Tw" itemscope itemtype="http://schema.org/WebPage">
  <head>...</head>
  <body dir="ltr" itemscope itemtype="http://schema.org/WebPage" id="yGmWd" cc="yGmWd"
    jsaction="<script>...</script>">
    <div jscontroller="p0G2j" jsaction="lTeeKe" jsaction="rcuQ6b:Kyd;GuhfH;og1FDd;rbwUQc:uHPSec"
      <div jscontroller="YV8jod" jsaction="rcuQ6b:npT2nd">...</div>
    </body>
  </html>
  
```

Styles Computed Layout Event Listeners

Filter

element.style { }

body { height: 100%; padding: 0; }

body { margin: 0; }

body/Attributes/Style { direction: ltr; unicode-bidi: isolate; }

body { display: block; margin: 0px; }

Inferred from html

html { font-size: 16px; }

html { font-family: sans-serif; -webkit-text-size-adjust: 100%; }

Pseudo scrollbar element

::-webkit-scrollbar { -webkit-border-radius: 10px; background-color: rgba(0,0,0,0); width: 9px; }

::-webkit-scrollbar { height: 16px; overflow: visible; }

Pseudo scrollbar-button element

::-webkit-scrollbar-button { height: 0; width: 0; }

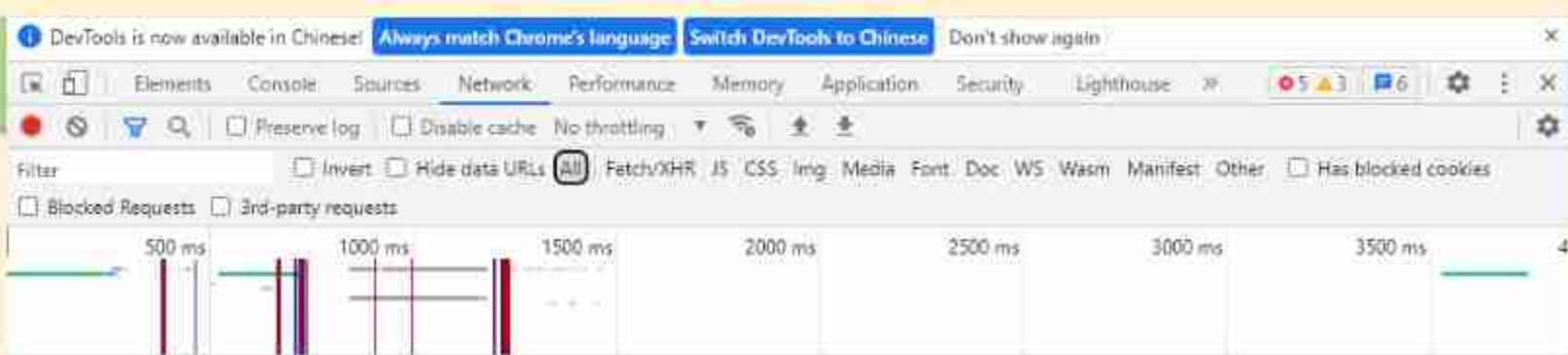
Pseudo scrollbar-corner element

html body#yGmWd.EED6e

Global

Taiwan





DevTools is now

Elements

```

<!DOCTYPE html>
<html lang="zh-
  <head>...</head>
  <body dir="lt
    jsaction="Gv
    Dfe"> == $@
    <div jscont
      ">...</div>
    <div jscont
  </body>
</html>

```

| Name | Status | Type | Initiator | Size | Time | Waterfall |
|---|--------|----------|----------------------------|-----------------|--------|-----------|
| taiwan | 200 | document | Other | 17.6 kB | 267 ms | |
| client.js?onload=gapiLoaded | 200 | script | taiwan | (disk cache) | 1 ms | |
| m=view | 200 | script | taiwan | (memory cac...) | 0 ms | |
| js?id=UA-160824166-2 | 200 | script | taiwan | (disk cache) | 2 ms | |
| cb=gapi.loaded_0?le=scs | 200 | script | client.js?onload=gapiLo... | (disk cache) | 2 ms | |
| 4UasrENHxulGDuGo10lUFC61_24rCK1Yo_loqci... | 200 | font | css?family=Google+Sa... | (memory cac...) | 0 ms | |
| KFOICnqEu92Fr1MmSU5188c4.woff2 | 200 | font | css?family=Roboto%3A- | (disk cache) | 1 ms | |
| KFOmCnqEu92Fr1Mu4mk.woff2 | 200 | font | css?family=Roboto%3A- | (disk cache) | 1 ms | |
| KFOICnqEu92Fr1MmWU9B8c4.woff2 | 200 | font | css?family=Roboto%3A- | (disk cache) | 1 ms | |
| intermediate-frame-minified.html | 200 | document | taiwan | (disk cache) | 1 ms | |
| intermediate-frame-minified.html | 200 | document | taiwan | (disk cache) | 1 ms | |
| api.js?checkCookie=1 | 200 | script | intermediate-frame-mi... | (disk cache) | 1 ms | |
| api.js?checkCookie=1 | 200 | script | intermediate-frame-mi... | (disk cache) | 1 ms | |
| cb=gapi.loaded_0?le=scs | 200 | script | api.js?checkCookie=1.26 | (disk cache) | 1 ms | |
| cb=gapi.loaded_0?le=scs | 200 | script | api.js?checkCookie=1.26 | (disk cache) | 1 ms | |
| m=sy1a,sy1b,sy19,FoQ8g | 200 | script | m=view:961 | (disk cache) | 1 ms | |
| m=sy2n,TRvtze | 200 | script | m=view:961 | (disk cache) | 1 ms | |
| analytics.js | 200 | script | js?id=UA-160824166-2... | (disk cache) | 1 ms | |
| m=MpJnZcn73qwfA4UTCb,qAKnc,sy14,TGyp... | 200 | script | m=view:961 | (disk cache) | 6 ms | |
| m=sy3e,IZT63,vfuNif,sy38,sy3c,sy3f,sy3s,sy3q,s... | 200 | script | m=view:961 | (disk cache) | 1 ms | |
| m=m9oV,sy3j,NTMZac,rCcCxc,mzzZac,RAnnUd... | 200 | script | m=view:961 | (disk cache) | 1 ms | |
| collect?v=1&_v=98&a=1115078693&t=pagew... | 200 | gif | analytics.js:30 | 96 B | 7 ms | |
| logImpressions?token=AHL0AKLWcOCyeGT8iI7... | 200 | xhr | m=view:888 | 557 B | 209 ms | |
| cb=gapi.loaded_1?le=scs | 200 | script | client.js?onload=gapiLo... | (disk cache) | 1 ms | |
| intermediate-frame-minified.html?jsh=m%38% | 200 | document | Other | 1.0 kB | 21 ms | |
| intermediate-frame-minified.html?jsh=m%38% | 200 | document | Other | 982 B | 19 ms | |
| intermediate-frame-minified.html?jsh=m%38% | 200 | document | | 982 B | 20 ms | |
| intermediate-frame-minified.html?jsh=m%38% | 200 | document | | 982 B | 17 ms | |
| intermediate-frame-minified.html?jsh=m%38% | 200 | document | | 982 B | 13 ms | |

5 6 30

Layout Event Listener

```

:hov .cls +,
{
  rs=AGEqA5mr_elf1e
};
;
rs=AGEqA5mr_elf1e
s Style] {
ltr;
i: isolate;
user agent styl
ock;
}

```


DevTools is now available in Chinese! [Always match Chrome's language](#) [Switch DevTools to Chinese](#) [Don't show again](#)

Elements Console Recorder Performance insights Sources **Network** Performance Memory Application

Filter Invert Hide data URLs All **Fetch/XHR** JS CSS Img Media Font Doc WS Wasm Manifest Other Has blocked cookies Blocked Requests 3rd-party requests

500 ms 1000 ms 1500 ms 2000 ms 2500 ms 3000 ms 3500 ms 4000 ms 4500 ms 5000 ms 5500 ms 6000 ms 6500 ms 7000 ms 7500 ms

| Name | Status | Type | Initiator | Size | Time | Waterfall |
|--|--------|------|----------------|---------|--------|-----------|
| <input type="checkbox"/> logImpressions?token=AHL0AtKbDqIZn2WixzrlxAn4Z... | 200 | xhr | m=view:888 | 67 B | 203 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 11 ms | |
| <input type="checkbox"/> dash3 | 200 | xhr | spread.js:25 | 178 B | 16 ms | |
| <input type="checkbox"/> dash7 | 200 | xhr | spread.js:25 | 116 B | 16 ms | |
| <input type="checkbox"/> dash3 | 200 | xhr | spread.js:25 | 178 B | 9 ms | |
| <input type="checkbox"/> dash7 | 200 | xhr | spread.js:25 | 116 B | 9 ms | |
| <input type="checkbox"/> dash3 | 200 | xhr | spread.js:25 | 178 B | 10 ms | |
| <input type="checkbox"/> dash7 | 200 | xhr | spread.js:25 | 116 B | 9 ms | |
| <input type="checkbox"/> dash3 | 200 | xhr | spread.js:25 | 178 B | 9 ms | |
| <input type="checkbox"/> logImpressions?token=AHL0AtKbDqIZn2WixzrlxAn4Z... | 200 | xhr | m=view:888 | 67 B | 226 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 10 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 9 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 6 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 8 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 8 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 18 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 7 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 8 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 8 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 11 ms | |
| <input type="checkbox"/> dash4_year_week | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 9 ms | |
| <input type="checkbox"/> intermediate | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 8 ms | |
| <input type="checkbox"/> intermediate | 200 | xhr | d3.v3.min.js:1 | 18.5 kB | 8 ms | |

41 / 177 requests 592 kB / 617 kB transferred 592 kB / 12.1 MB resources Finish: 6.87 s DOMContentLoaded: 815 ms Load: 1.24 s


```
PS C:\Users\USER\Desktop\aaa> & C:/ProgramData/Anaconda3/python.exe c:/Users/USER/Desktop/aaa/test.py
```

```
{"0":{"確診":"8,470,187","死亡":"14,679","送驗":"20,324,496",  
,"排除":"11,842,536","昨日確診":"14,084","昨日排除":"3,631",  
,"昨日送驗":"14,489"}}
```

Return the result
(Json Format)

Tree

- object {1}
 - 0 {7}
 - 確診 : 6,211,093
 - 死亡 : 10794
 - 送驗 : 17,567,153
 - 排除 : 11,310,244
 - 昨日確診 : 38371
 - 昨日排除 : 16,329
 - 昨日送驗 : 55,105

Goal

Analyze the Json format



Confirmed-cases
is right under "0"

```
#解析json  
data_confirmedCase = json.loads(data_confirmedCase)  
self.confirmedCase = data_confirmedCase["0"]["昨日確診"]
```

Get the value easily



```
print("昨日確診 ", data_confirmedCase["0"]["昨日確診"])
```

```
PS C:\Users\USER\Desktop\aaa> & C  
:/ProgramData/Anaconda3/python.exe  
c:/Users/USER/Desktop/aaa/test.  
py  
昨日確診 14,084
```

Result

資料依 ▾ 資料故事 ▾ 互動專區 ▾ 消息專區 ▾ 諮詢小組 授權條款 關於平臺 ▾

資料庫 / 空氣品質指標(AQI)

空氣品質指標(AQI)

每小時提供各測站之空氣品質指標 (AQI) · 原始資料版本公告於空氣品質監測網<https://airtw.epa.gov.tw>

行政院環境保護署
中華民國111年10月30日

更新次數: 132826 下載次數: 66728 使用數: 40

主要欄位說明:
 *用雙斜線分隔欄位名稱
 sitename(測站名稱) · county(縣市) · aqi(空氣品質指標) · pollutant(空氣污染指標物) · status(狀態) · so2(二氧化硫(ppb)) · o3_8hr(臭氧8小時移動平均(ppb)) · pm10(懸浮微粒(μg/m3)) · pm2.5(細懸浮微粒(μg/m3)) · no2(二氧化氮(ppb)) · wind_speed(風速(m/sec)) · wind_dirac(風向(degrees)) · datacreationdate(資料發布時間) · co(ppm) · pm2.5_avg(細懸浮微粒移動平均值(μg/m3)) · pm10_avg(懸浮微粒移動平均值(μg/m3)) · so2_avg(二氧化氮度) · latitude(緯度) · siteid(測站編號)

資料資源下載網址

- CSV: [資料: 空氣品質指標\(AQI\)-CSV](#)
- JSON: [資料: 空氣品質指標\(AQI\)-JSON](#)
- XML: [資料: 空氣品質指標\(AQI\)-XML](#)

提供機關 行政院環境保護署

提供機關聯絡人姓名 測小組 (02-2311-7722#2385)

更新頻率 1小時

授權方式 政府資料開放授權條款-第1條

計費方式 免費

```
PS D:\code\Python> & C:/Users/aw/Ap
觀測站: 士林
空氣品質指數(AQI): 39
狀態: 良好
資料發布時間: 2022/10/30 16:00:00
```

Result

The open data from government



weather.com



Weather Forecast

24°

小雨並伴有雷電

白天 29° · 夜晚 23°

Packed in HTML

```
<div class="CurrentConditions--primary--2SVPh">  
  <span data-testid="TemperatureValue" class="CurrentConditions--tempV  
  alue--3a50n">24°</span>  
  <div data-testid="wxPhrase" class="CurrentConditions--phraseValue--2  
  Z18W">小雨並伴有雷電</div>
```

- Import into beautiful soup
- Put in the Tree

Analyze**Seek**

- Where is the data

- Find out the data we need

Crawl

Use BeautifulSoup to analyze HTML

BeautifulSoup

The Weather Channel An IBM Business 搜尋城市或郵遞區號 TW | ㄉ

11° 溫哥華, 伊澤爾斯... 10° 舊金山

今天 每小時 10天 週末 每月 雷達 更多預報

Taipei, TPE 截至 21:29 CST 為止

15°
小雨
白天 19° · 夜晚 15°

空氣品質指數
68 中等
空氣品質可接受，但敏感人群可能會對空氣中受污染物質感到不適。敏感人群應對空氣污染採取保護措施。

健康與活動
季節性過敏和花粉計數預報
在當前地區查看詳細資訊

雨
雨在 22:45 結束，稍後更能再出現。

晴 23 00 01 02 03 04

Map of Taiwan showing major cities: Nanping, Wenzhou, Ningde, Fuzhou, Putian, Quanzhou, Taipei, Taiwan.

DevTools is now available in Chinese! Always match Chrome's language Switch DevTools to Chinese Don't show again

Elements Console Recorder Performance insights Sources Network Performance Memory Appl

```

<!DOCTYPE html>
<html dir="ltr" lang="zh-TW">
  <head>...</head>
  <body data-fb-shadow-template-hpp-setup="true" data-fb-shadow-template-hpp-wah|ed="false">
    <div class="appWrapper DaybreakLargeScreen LargeScreen lightTheme DaybreakLargeScreen--appWrapper--3XUE gradients--rainyNight--2r-_o gradients--rainyNight-top--sq7HY" id="appWrapper">
      <div class="region meta">...</div>
      <div class="region-topAds regionTopAds DaybreakLargeScreen--regionTopAds--2KLIJ">...</div>
      <div class="region-header regionHeader gradients--rainyNight-top--sq7HY" id="regionHeader">...</div>
      <div id="lab66" class="js-branded-background-ads">...</div>
      <main id="MainContent">
        <div class="region-contentTop regionContentTop DaybreakLargeScreen--regionContentTop--2um19">...</div>
        <div class="DaybreakLargeScreen--gridWrapper--3s1eb"> .grid
          <div id="wx-hero-content" class="js-branded-background-ads">...</div>
          <main class="region-main regionMain DaybreakLargeScreen--regionMain--1fzMI" aria-label="Main Content"> .grid
            <div id="WwuCurrentConditions main-b3094161-e77c-4258-b08a-e15c0b6b1034" class="removeIfEmpty"> .grid
              <div class="CurrentConditions--CurrentConditions--1XEyg" data-testid="CurrentConditionsContainer">
                <section class="card Card--card--3A2Rg CurrentConditions--card--2Kc9q CurrentConditions--imageCard--1qR
                  _WeatherBackground-WeatherBackground-3gfYb" style="background-image:url(http://s.w.u.co/WeatherIma
                    ges_Web/WeatherImage_Drizzle-night_1.jpg?crop=26:0&width=800&format=pjpg&auto=webp&quality=70)" aria-
                    label="Taipei, TPE 天氣 目前天氣">
                  <div data-cq-observe="true" data-cq-breakpoints="{\"CurrentConditions--large--2pn50\":560}" class="Curru
                    ntConditions--large--2pn50">
                    <div class="CurrentConditions--header--40XKR">...</div>
                    <div class="CurrentConditions--body--1_4-Z">
                      <div class="CurrentConditions--columns--38nqQ"> .flex
                        <div class="CurrentConditions--primary--2DQqs">
                          <span data-testid="temperatureValue" class="CurrentConditions--tempValue--MhrYY">15°</span>
                          <div data-testid="wxPhrase" class="CurrentConditions--phraseValue--eZC_p">小雨</div>
                          <div class="CurrentConditions--tempHlpValue--3TID6">...</div>
                        </div>
                        <div class="CurrentConditions--secondary--32-ko">...</div> .flex
                      </div>
                      <div class="CurrentConditions--messaging--3r0-a">...</div> .flex
                    </div>
                  </div>
                </section>
              </div>
            </div>
          </div>
        <div id="WwuPrecipIntensityCard-main-ca22634c-3a7b-4601-bd78-19bc46927c7b" class="removeIfEmpty">...</div>
        <div id="WwuTodayMapCard-main-632099a6-18f7-4023-9f96-2c44f2246787" class="removeIfEmpty">...</div>
        <div id="WwuInsightBentoCard-main-c965997-ca5a-4cb5-a045-8ba9ec892622" class="removeIfEmpty">...</div>

```


Taipei, TPE 截至 21:29 CST 為止

15°

小雨

白天 19° • 夜晚 15°



```

...
  <div id="wxuCurrentConditions-main-t3094103-ef75-4556-8d9a-e35e6b9b1034" class="removeIfEmpty"> -- 30
    <div class="CurrentConditions--CurrentConditions--1XEyg" data-testid="CurrentConditionsContainer">
      <section class="card Card--card--2A2fg CurrentConditions--card--2Kcoq CurrentConditions--ImageCard--3q8
        K_WeatherBackground--WeatherBackground--2gfYD" style="background-image:url(https://s.w-x.co/WeatherIma
        ges_Web/WeatherImage_Drizzle-night_1.jpg?crop=16:9&width=800&format=jpg&auto=webp&quality=70)" aria-
        label="Taipei, TPE 天氣 目前天氣">
        <div data-cq-observe="true" data-cq-breakpoints="{"CurrentConditions--large--2pn50":568}" class="Curren
        ntConditions--large--2pn50">
          <div class="CurrentConditions--header--kbXER">_</div>
          <div class="CurrentConditions--body--1_4-Z">
            <div class="CurrentConditions--columns--30npQ"> flex
              <div class="CurrentConditions--primary--2DQs">
                <span data-testid="TemperatureValue" class="CurrentConditions--tempValue--10lmYY">15°</span>
                <div data-testid="wxPhrase" class="CurrentConditions--phraseValue--m2C_p">小雨</div>
                <div class="CurrentConditions--tempHiLoValue--3f10G">_</div>
              </div>
              <div class="CurrentConditions--secondary--32-kp">_</div> flex
            </div>
            <div class="CurrentConditions--messaging--3nfi-a"></div> flex
          </div>
        </div>
      </section>
    </div>
  </div>
</div>

```

15°

小雨

白天 19° · 夜晚 15°

```
▼<div class="CurrentConditions--primary--2D0qs">  
  <span data-testid="TemperatureValue" class="CurrentConditions--tempValue--MHmYY">15°</span>  
  <div data-testid="wxPhrase" class="CurrentConditions--phraseValue--mZC_p">小雨</div>  
  ▶<div class="CurrentConditions--tempHiloValue--3T1DG">...</div>  
</div>
```



15°

```
<span data-testid="TemperatureValue" class="CurrentConditions--tempValue--MHmYY">15°</span>
```



The value of 24 degree
is pack
d

```
PS D:\code\Python> & C:/
臺北市
平均氣溫 24°
降雨機率 100%
PS D:\code\Python> |
```

```
<div class="Cur
```

```
<span data-testid="TemperatureValue" class="CurrentConditions--tempV  
alue--3a50n">24°</span>
```

```
<div data-testid="wxPhrase" class="CurrentConditions--phraseValue--2  
Z18W">小雨並伴有雷電</div>
```

Result

To many of div tags → Class

公告

 2022-04-28 110學年度全國技能競賽-北區分賽：電子第三名與佳作 2021-11-30 110學年度工業類技藝競賽榮獲佳績：數位電子金手第一名、工業電子金手第五名 2021-04-28 109學年度全國技能競賽-北區分賽：電子佳作 2020-11-30 109學年度工業類技藝競賽榮獲佳績：數位電子優勝第八名、工業電子金手 2020-05-01 108學年度全國技能競賽-北區分賽：電子第三名與佳作 2019-11-29 108學年度工科技藝競賽榮獲金手獎：數位電子金手第五名、工業電子金手 2019-04-28 107學年度全國技能競賽-北區分賽：應用電子佳作 2018-12-01 107學年度工科技藝競賽榮獲金手獎：數位電子金手第四名、工業電子金手第四名 2018-04-28 106學年度全國技能競賽-北區分賽：工業電子第四名、應用電子第四名與佳作

```
PS C:\Users\USER> & C:/ProgramData/Anaconda3/pytho
```

```
2022-04-28
```

```
110學年度全國技能競賽-北區分賽：電子第三名與佳作
```

```
PS C:\Users\USER>
```

Result

Crawl the headline of the website

Python Tkinter

```
from tkinter import *
root = Tk()
label1 = Label(root, text="This is a tutorial about Python Tkinter")
label1.pack(side=TOP, expand=True)
label2 = Label(root, text="Do you wish to learn?", fg="blue")
label2.pack(side=TOP, expand=True)
button1 = Button(root, text="Accept", fg="green", command=root.destroy)
button1.pack(side=LEFT, expand=True)
button2 = Button(root, text="Close", fg="red", command=root.destroy)
button2.pack(side=RIGHT, expand=True)
root.mainloop()
```

This is a tutorial about Python Tkinter
Do you wish to learn?

Accept Close

www.educba.com

Tkinter GUI



Create by
Drag & Drop



- Web Crawler Data
- Google Calendar
- Refresh

Readme.md



CustomTkinter

PyPI: [v3.0.0](#) | downloads: [14k/week](#) | pypi.org: [14k](#) | pypi.org: [CustomTkinter/CustomTkinter/2024/v3.0.0/CustomTkinter](#) | total files: [17.5k](#)

CustomTkinter is a python UI-library based on Tkinter, which provides new, modern and fully customizable widgets. They are created and used like normal Tkinter widgets and can also be used in combination with normal Tkinter elements. The widgets and the window colors either adapt to the system appearance or the manually set mode ('light', 'dark'), and all CustomTkinter widgets and windows support HighDPI scaling (Windows; macOS). With CustomTkinter you'll get a consistent and modern look across all desktop platforms (Windows; macOS; Linux).



Confirmed-cases
number

今日確診
0

台北市

天氣：
溫度：
降雨機率：
濕度：
紫外線：
空氣品質：

2022年12月26日 11:32

Weather

Headline

12/26
星期一

12/27
星期二

12/28
星期三

12/29
星期四

12/30
星期五

Calendar

| 12/26 星期一 | 12/27 星期二 | 12/28 星期三 | 12/29 星期四 | 12/30 星期五 |
|--------------|--------------|--------------|--------------|--------------|
| | | | | |



OPENING

SOFTWARE

HARDWARE

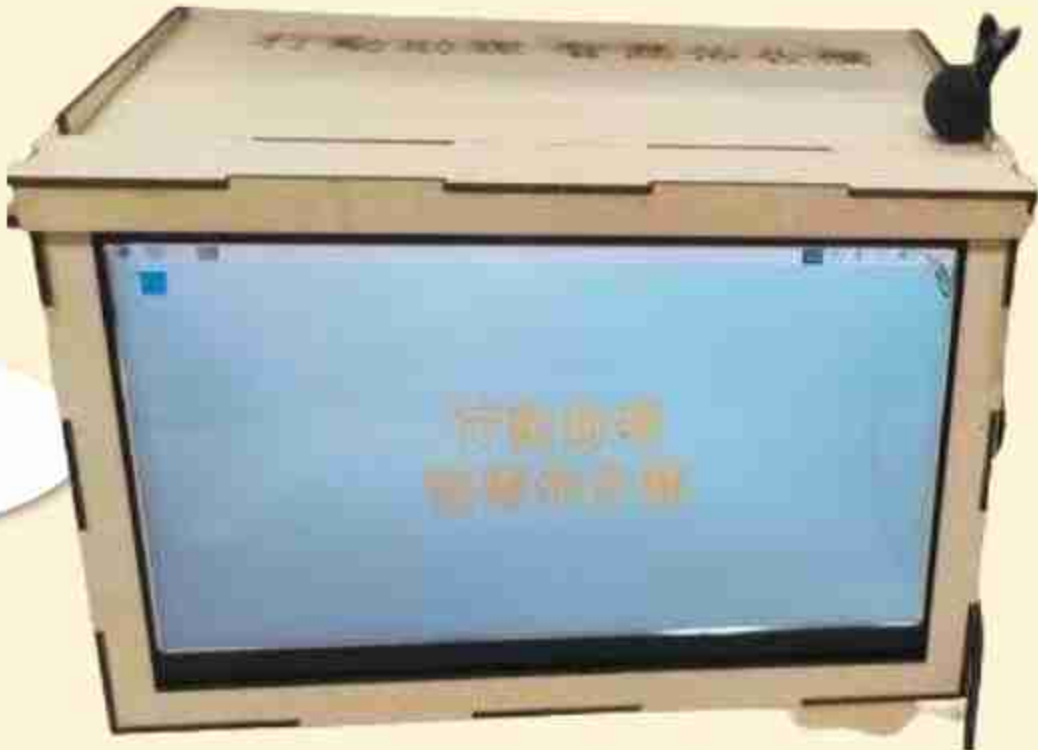
DEMONSTRATION

CLOSING

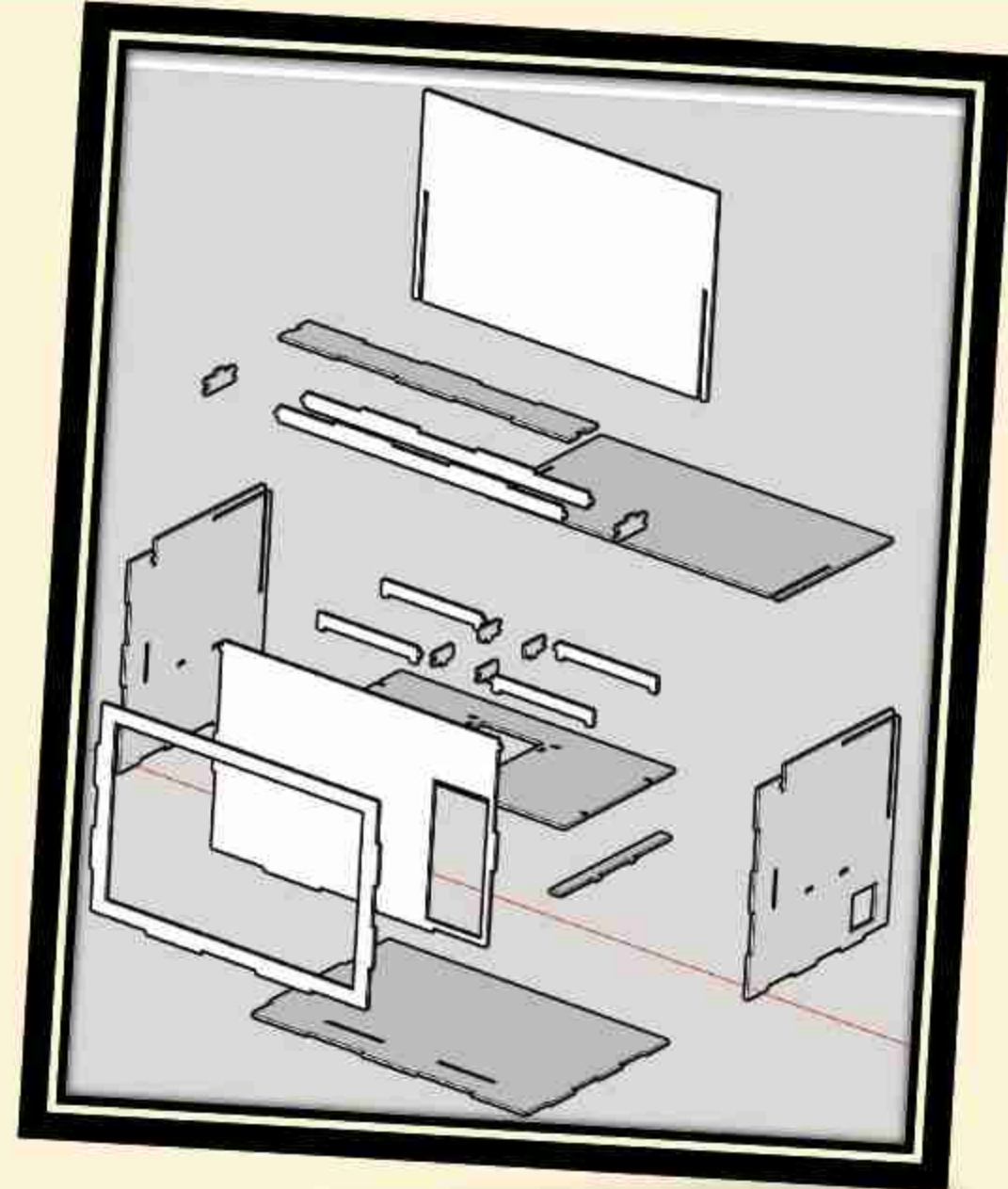
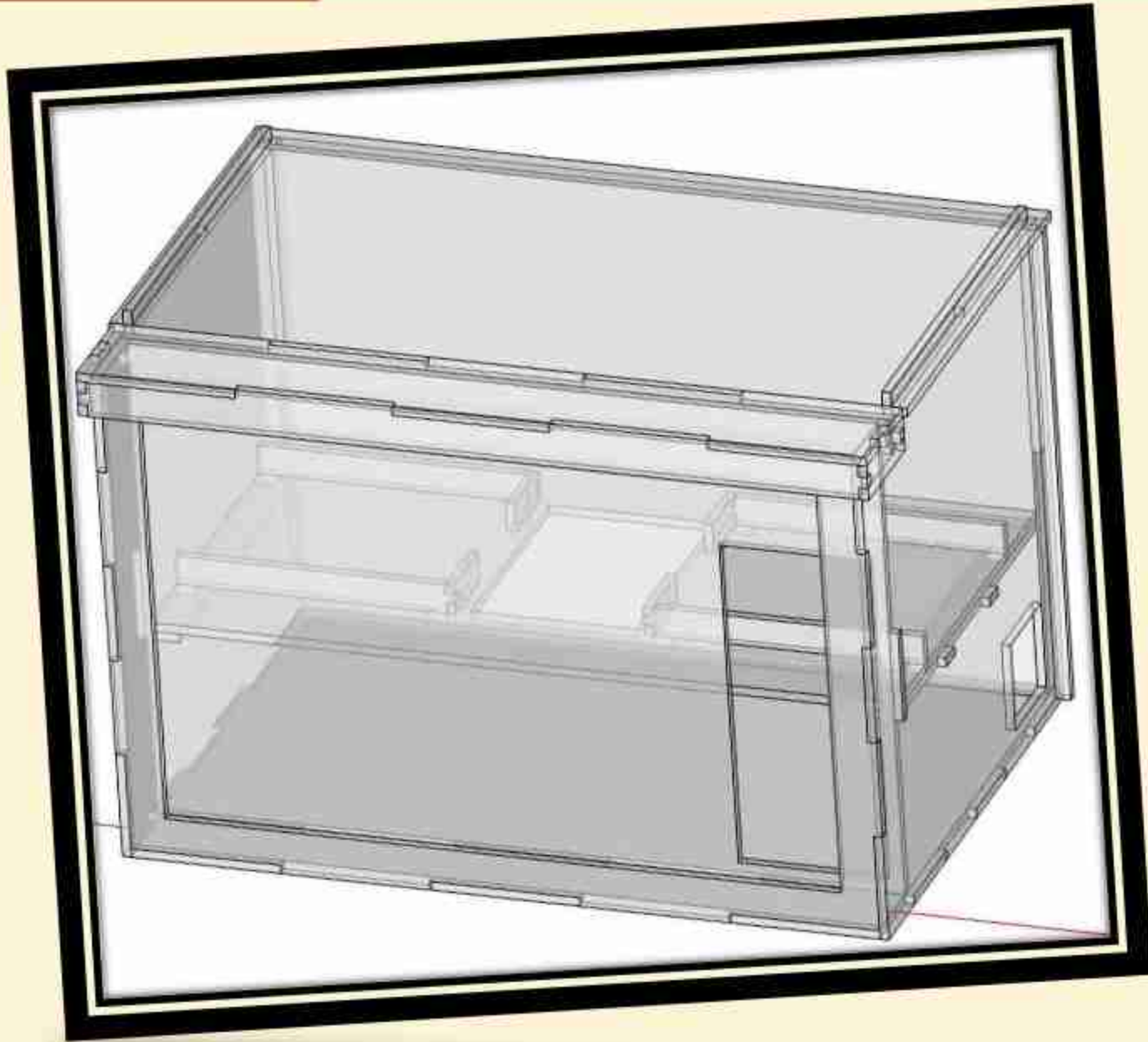
Raspberrypi3B+ :
Structure processor

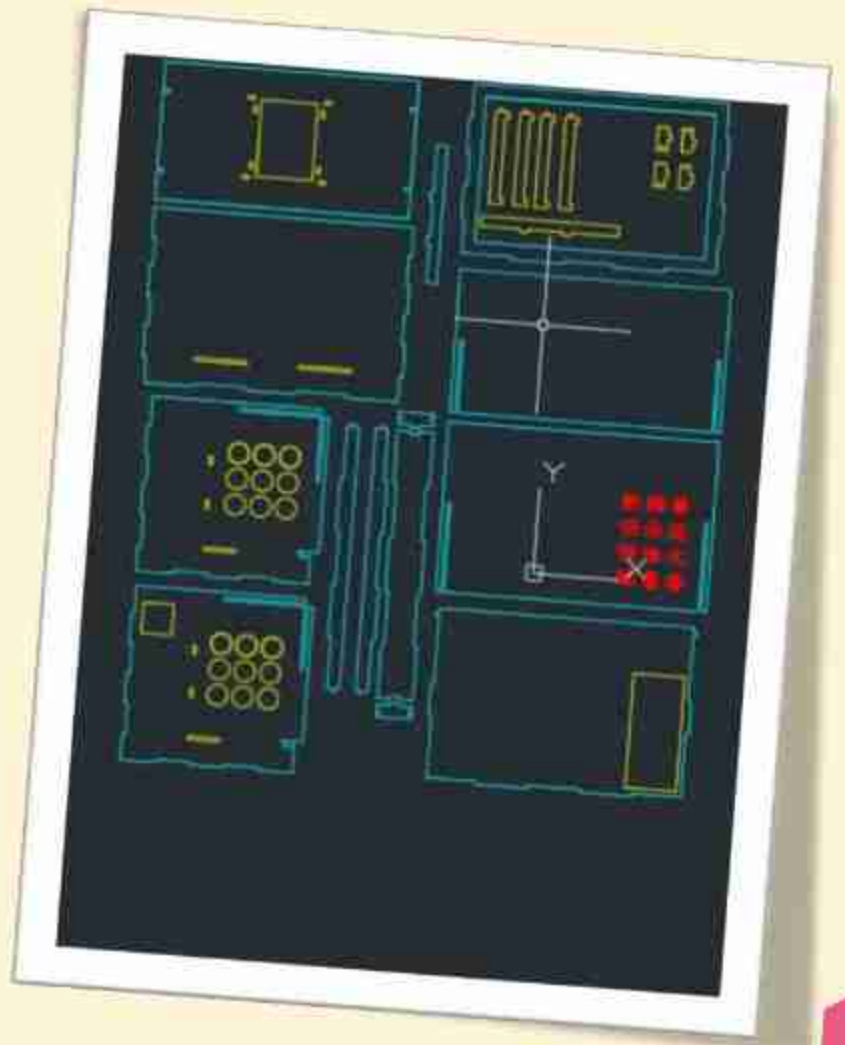
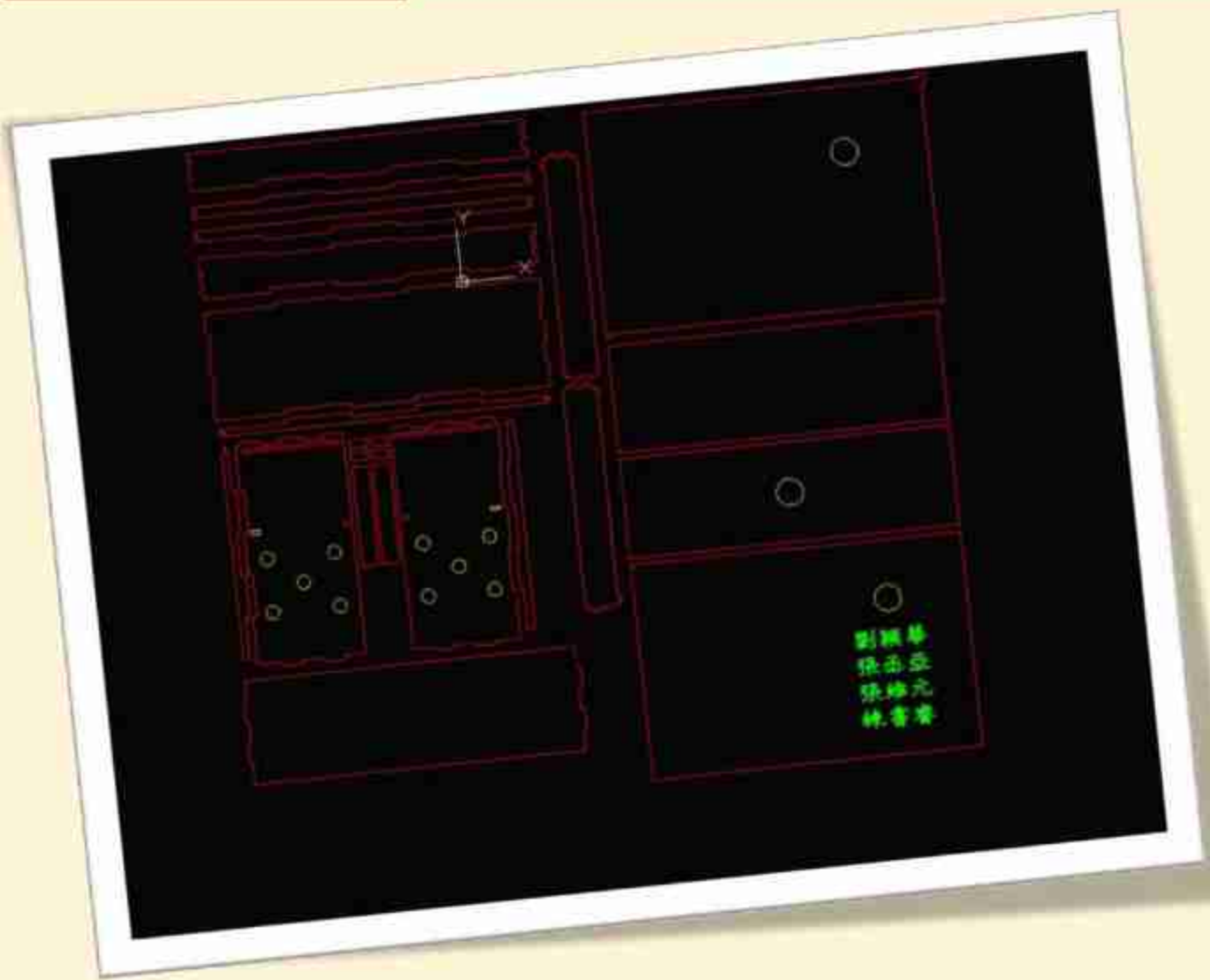
1280*800 Screen :
Image output device

Speaker:
Audio-output device



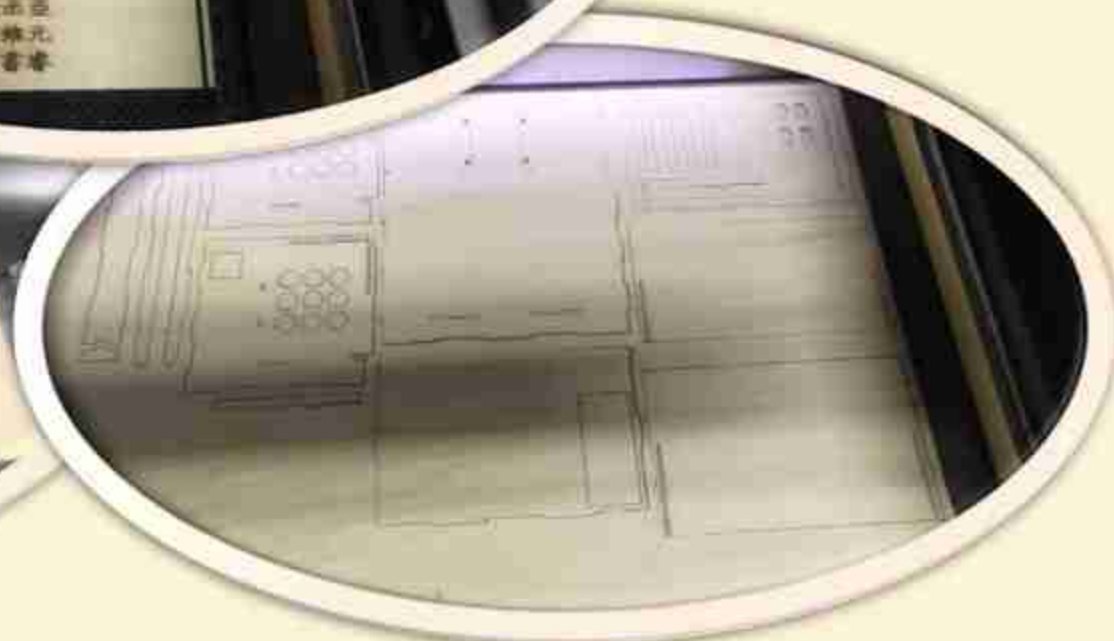
Microphone :
Voice-input device





The structure diagram







今日確診
19,155

台北市

天氣：晴朗

溫度：12°

降雨機率：4%

濕度：57%

紫外線：0 (最大值 10)

空氣品質：普通



2022年12月22日 20:04

2022-04-28

110學年度全國技能競賽-北區分賽：電子第三名與佳作

12/22
星期四

12/23
星期五

12/26
星期一

12/27
星期二

12/28
星期三



啊，明天模擬考



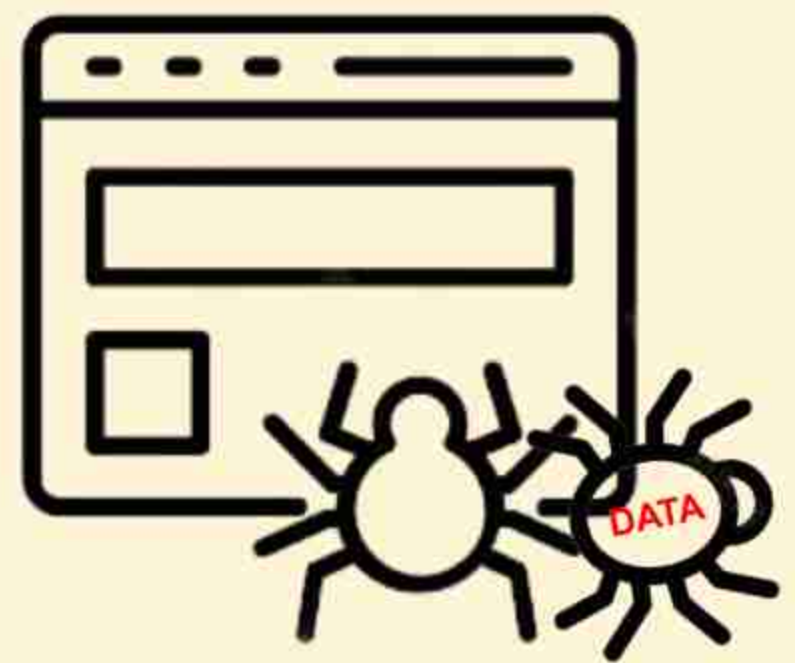
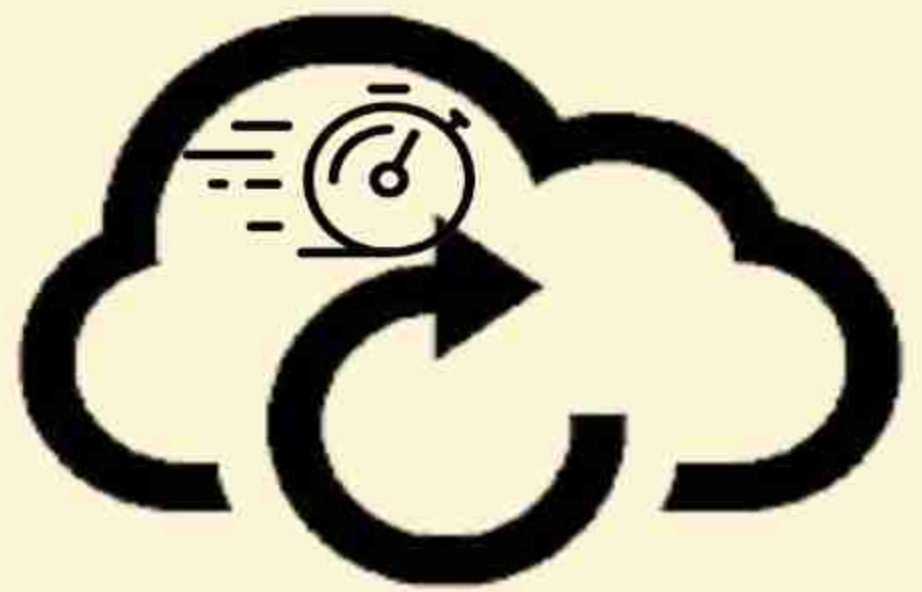
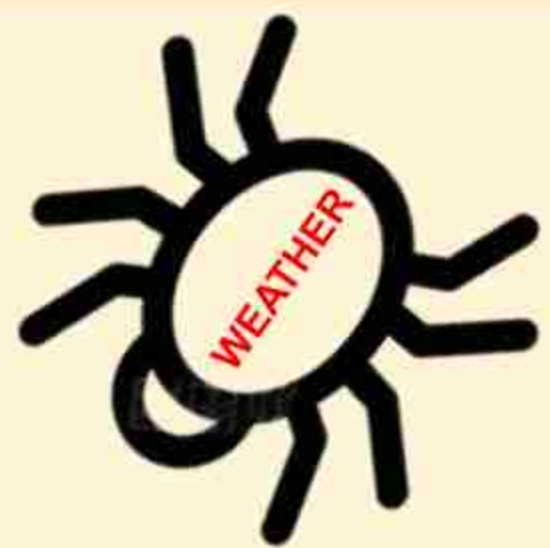
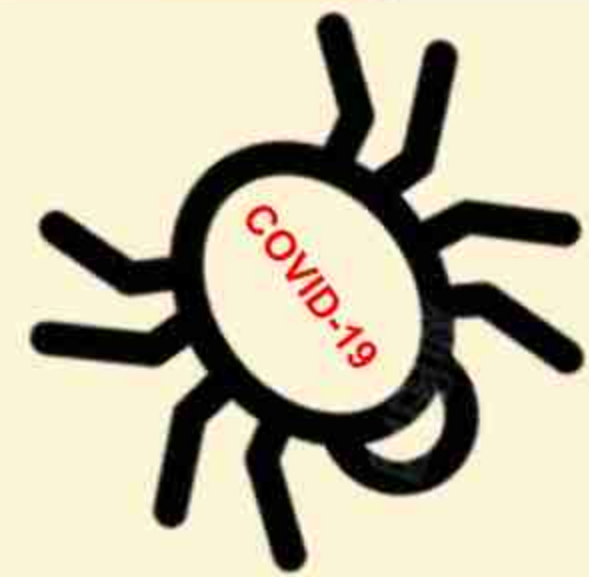
Touchable



Smaller
volume



Assemble
easily



IFTTT :

<https://jojochiao.medium.com/ifttt-%E8%88%87-line-notify-%E5%AE%9A%E6%99%82%E6%8F%90%E9%86%92-b46c7c9d4301>



Google Assistant :

<https://developers.google.com/assistant/sdk/guides/service/python/embed/setup>

<https://www.twblogs.net/a/5ef9266cfa148015395f139f>

https://blog.csdn.net/ShenZhen_zixian/article/details/119788660



Python :

<https://youtu.be/9Z9xKWfNo7k>

<https://youtu.be/IMOUf4BYTG8>

<https://youtu.be/9Z9xKWfNo7k>

<https://blog.gtwang.org/programming/python-beautiful-soup-module-scrape-web-pages-tutorial/>



THE ENO