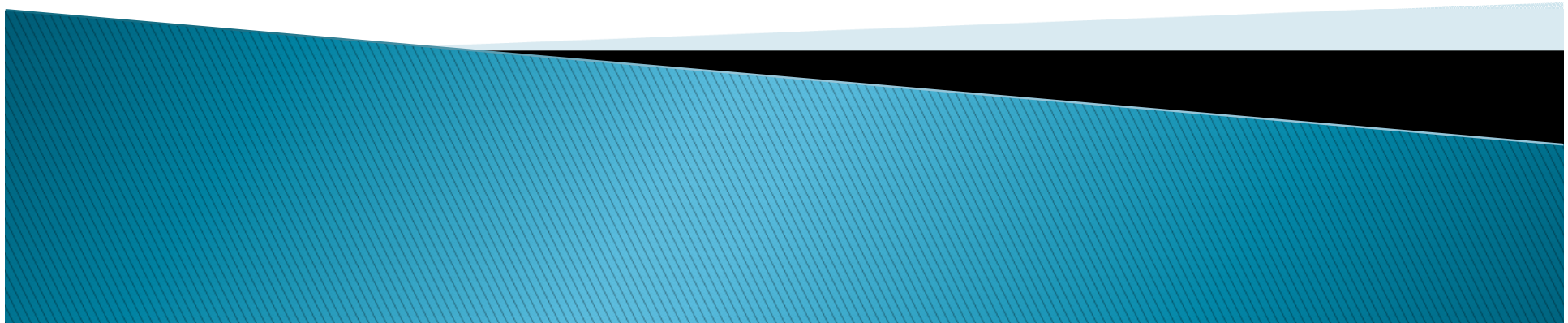


APP Inventor製作

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數位內容科技學系
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App Inventor 2的介紹

- ▶ 麻省理工學院是在西元 2013 年 12 月 3 日推出 MIT App Inventor 2 網站，提供免費的雲端服務，使用者可以透過瀏覽器來開發 Android 裝置應用程式，該網站的網址為：
「<http://appinventor.mit.edu/>」。



步驟

- ▶ 使用 MIT App Inventor 2 來開發 Android 程式，其開發動作都是在瀏覽器上完成，為網路雲端開發環境，要建置 MIT App Inventor 2 的開發環境，需要進行 3 項前置作業：
 - ▶ 1. 申請 Gmail 帳號。
 - ▶ 2. 安裝並測試 Java 環境。
 - ▶ 3. 安裝 MIT App Inventor 2 軟體（為了以模擬器或 USB 連線來測試程式）。



▶ 安裝App Inventor設定程式(aistarter)

◦ 網址

Installing the App Inventor Setup software package

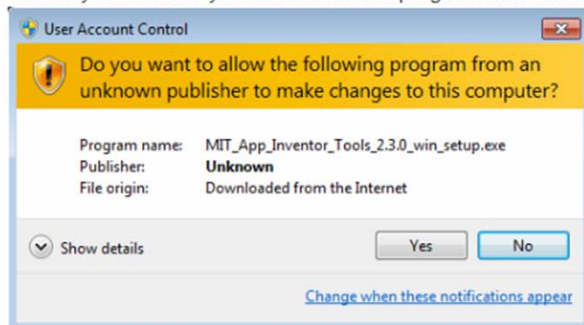
You must perform the installation from an account that has administrator privileges. Installing via a non-administrator account is currently not supported.

If you have installed a previous version of the App Inventor 2 setup tools, you will need to uninstall them before installing the latest version.

Follow the instructions at [How to Update the App Inventor Setup Software](#).

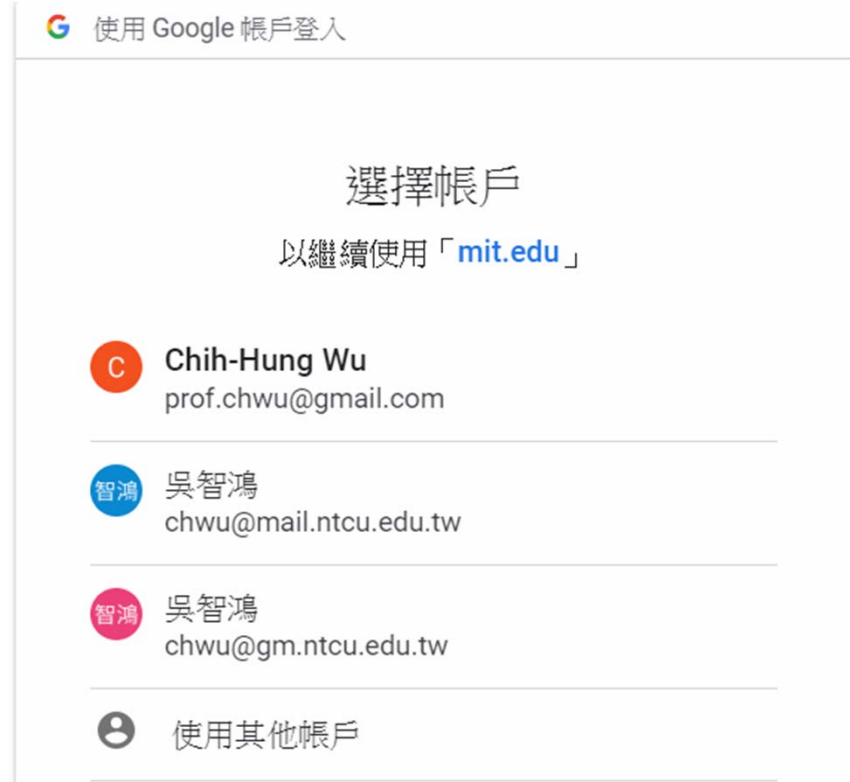
1. [Download the installer.](#)

2. Locate the file **MIT_Appinventor_Tools_2.3.0 (~80 MB)** in your Downloads file or your Desktop. The location of the download on your computer depends on how your browser is configured.
3. Open the file.
4. Click through the steps of the installer. Do not change the installation location but record the installation directory, because you might need it to check drivers later. The directory will differ depending on your version of Windows and whether or not you are logged in as an administrator.
5. You may be asked if you want to allow a program from an **unknown publisher** to make changes to this computer. **Click yes.**



進入App Inventor2開發

- ▶ 進入App Inventor2網址
 - 網址
- ▶ 選擇你一個google帳號才能登入



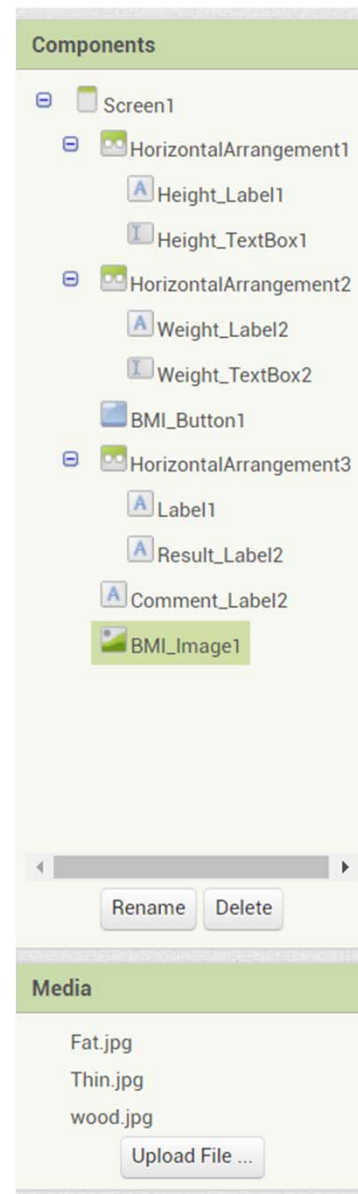
介面

The screenshot displays the MIT App Inventor web interface for a project named "MyBMtest". The interface is divided into several main sections:

- Top Bar:** Includes the MIT App Inventor logo, navigation links (Projects, Connect, Build, Help), and user information (My Projects, Gallery, Guide, Report an Issue, English, prof.chwu@gmail.com).
- Project Header:** Shows the project name "MyBMtest" and screen management options (Screen1, Add Screen..., Remove Screen). It also has "Designer" and "Blocks" tabs.
- Left Panel (Palette):** Categorized into "User Interface" (Button, CheckBox, DatePicker, Image, Label, ListPicker, ListView, Notifier, PasswordTextBox, Slider, Spinner, TextBox, TimePicker, WebViewer), "Layout", "Media", "Drawing and Animation", "Maps", "Sensors", "Social", "Storage", "Connectivity", "LEGO® MINDSTORMS®", and "Experimental".
- Center (Viewer):** A preview of the mobile app. It features a title bar "BMI 計算器 Wu. C. H.", two input fields for "身高:" and "體重:", a "計算BMI" button, and a "結果: 0" label. There are checkboxes for "Display hidden components in Viewer" and "Check to see Preview on Tablet size".
- Right Panel (Components and Properties):**
 - Components:** A tree view showing the app's structure: Screen1, HorizontalArrangement1 (Height_Label1, Height_TextBox1), HorizontalArrangement2 (Weight_Label2, Weight_TextBox2), BMI_Button1, HorizontalArrangement3 (Label1, Result_Label2, Comment_Label2), and BMI_Image1. "Rename" and "Delete" buttons are at the bottom.
 - Media:** A list of image files: Fat.jpg, Thin.jpg, wood.jpg, and an "Upload File ..." button.
 - Properties:** A list of settings for "Screen1", including AboutScreen, AccentColor (Default), AlignHorizontal (Left: 1), AlignVertical (Top: 1), AppName (MyBMtest), BackgroundColor (Default), BackgroundImage (None...), CloseScreenAnimation (Default), Icon (None...), OpenScreenAnimation (Default), PrimaryColor (Default), PrimaryColorDark (Default), ScreenOrientation (Unspecified), Scrollable, ShowListsAsJson, and ShowStatusBar (checked).

BMI計算器

▶ 版面設定



程式碼

initialize global bmi to 0

when BMI_Button1 .Click

do set Height_TextBox1 . Text to $\frac{\text{Height_TextBox1 . Text}}{100}$

set global bmi to $\frac{\text{Weight_TextBox2 . Text}}{\text{Height_TextBox1 . Text} \times \text{Height_TextBox1 . Text}}$

set Result_Label2 . Text to get global bmi

if get global bmi < 18.5

then set Comment_Label2 . Text to "體重過輕"

set BMI_Image1 . Picture to "Thin.jpg"

set BMI_Image1 . Visible to true

if $\text{get global bmi} \geq 18.5$ and $\text{get global bmi} < 24$

then set Comment_Label2 . Text to "正常範圍"

if $\text{get global bmi} \geq 24$ and $\text{get global bmi} < 27$

then set Comment_Label2 . Text to "過重"

if $\text{get global bmi} \geq 27$ and $\text{get global bmi} < 30$

then set Comment_Label2 . Text to "輕度肥胖"

if $\text{get global bmi} \geq 30$ and $\text{get global bmi} < 35$

then set Comment_Label2 . Text to "中度肥胖"

if $\text{get global bmi} \geq 35$

then set Comment_Label2 . Text to "重度肥胖"

準備圖片素材並上傳app inventor

名稱	修改日期	類型	大小
 fat	2018/10/2 下午 1...	Adobe Fireworks ...	40 KB
 good	2018/10/2 下午 1...	Adobe Fireworks ...	45 KB
 thin	2018/10/2 下午 1...	Adobe Fireworks ...	42 KB

