

# 第 1 章

## 使用 App Inventor 2 開發 Android App



# 簡介

---

- ▶ 2010年
  - ▶ Google實驗室的子計畫 Google App Inventor
  - ▶ 類似Scratch、圖形化程式設計雲端平台
  - ▶ 簡易上手、支援樂高機器人控制
- ▶ 2012年
  - ▶ 1/1起移交給MIT，改名：MIT App Inventor
- ▶ 2013年
  - ▶ 12/3 MIT正式改名為App Inventor Classic
  - ▶ 同時推出新版App Inventor 2，簡稱AI2
- ▶ 2014年
  - ▶ 11/20 增加繁體中文版
- ▶ 2016年
  - ▶ 6/15允許使用者自行開發 .aix 擴充檔

# 系統需求

---

## ▶ 作業系統

- ▶ Macintosh (使用Intel CPU): Mac OS X 10.5以上
- ▶ Windows : Windows XP , Windows Vista , Windows 7 , Windows 8
- ▶ GNU/Linux : Ubuntu 8以上 , Debian 5以上

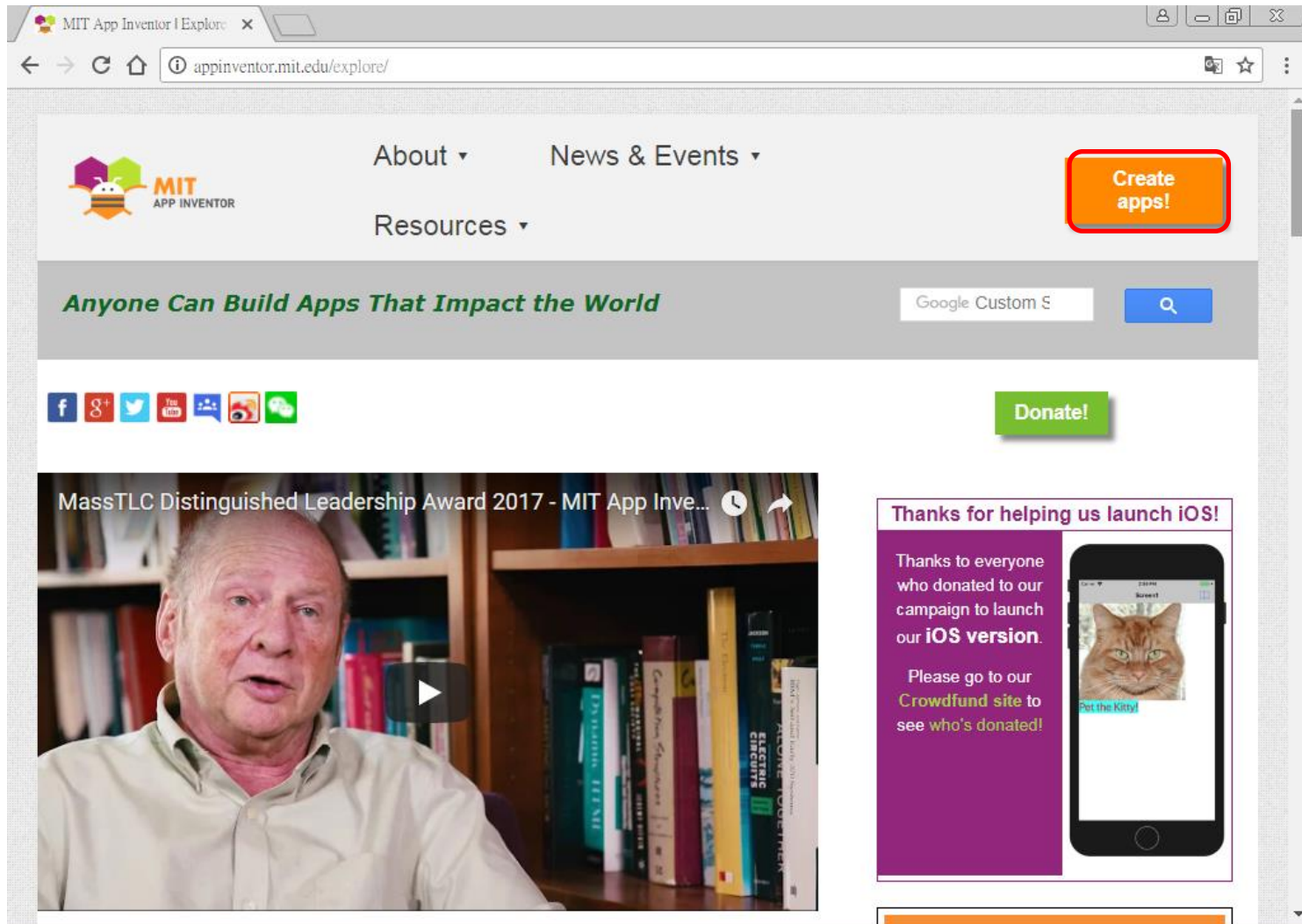
## ▶ 瀏覽器

- ▶ Mozilla Firefox 3.6 以上
- ▶ Apple Safari 5.0以上
- ▶ Google Chrome 4.0以上
- ▶ Microsoft Internet Explorer (目前暫不支援)

## ▶ Android系統

- ▶ Android 作業系統 2.3 以上的版本

# MIT App Inventor 2官方網站 ( <http://appinventor.mit.edu> )



# 登入Google帳號



The screenshot shows a web browser window with the Google login page. The browser's address bar displays the URL: [https://accounts.google.com/ServiceLogin?service=ah&passive=true&continue=https%3A%2F%2Fappengine.google.com%2F\\_ah](https://accounts.google.com/ServiceLogin?service=ah&passive=true&continue=https%3A%2F%2Fappengine.google.com%2F_ah). The page features the Google logo at the top, followed by the text "只要一個帳戶，所有 Google 服務暢行無阻。" and "使用您的 Google 帳戶登入". Below this is a login form with a placeholder for a profile picture, a text input field for "電子郵件" (Email), a text input field for "密碼" (Password), and a blue "登入" (Sign In) button. There is a checkbox for "保持登入狀態" (Keep me signed in) and a link for "需要協助嗎?" (Need help?). At the bottom of the form is a link for "建立帳戶" (Create account). Below the form, it says "只要一個 Google 帳戶，即可使用 Google 各項優質服務" and shows icons for various Google services like Gmail, YouTube, and Google+.

Front Page | Explore MIT App Inventor

登入 - Google 帳戶

[https://accounts.google.com/ServiceLogin?service=ah&passive=true&continue=https%3A%2F%2Fappengine.google.com%2F\\_ah](https://accounts.google.com/ServiceLogin?service=ah&passive=true&continue=https%3A%2F%2Fappengine.google.com%2F_ah)

Google

只要一個帳戶，所有 Google 服務暢行無阻。

使用您的 Google 帳戶登入

電子郵件

密碼

登入

☒ 保持登入狀態 [需要協助嗎?](#)

[建立帳戶](#)

只要一個 Google 帳戶，即可使用 Google 各項優質服務

# 同意存取Google帳號

---



The application **MIT AppInventor Version 2** is requesting permission to access your Google Account.

Please select an account that you would like to use.

☒ tea@gmail.com

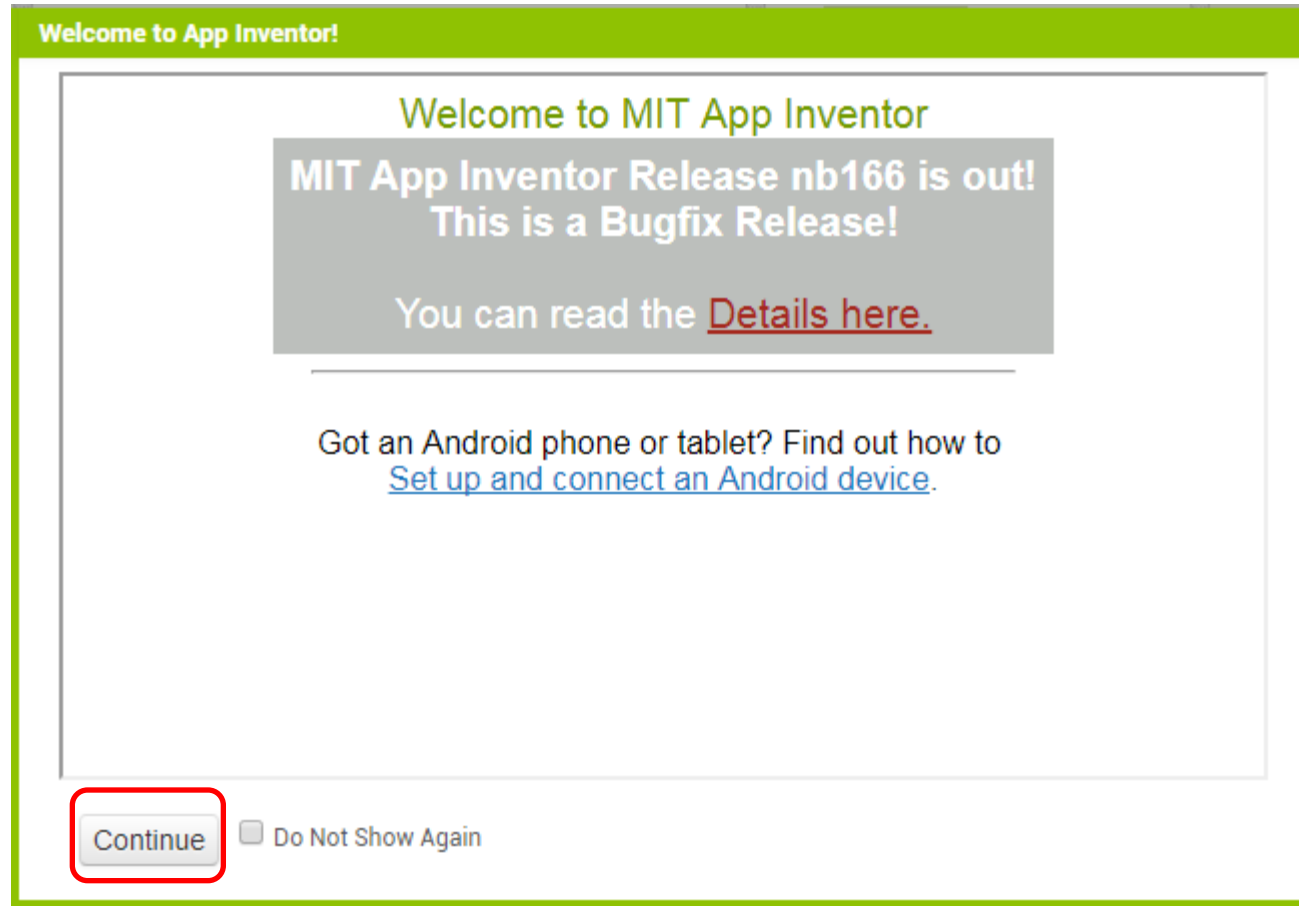
Google is not affiliated with the contents of **MIT AppInventor Version 2** or its owners. If you sign in, Google will share your email address with **MIT AppInventor Version 2** but not your password or any other personal information.

[Sign in to another account](#)

☒ Remember this approval for the next 30 days

©2011 Google - [Google Home](#) - [Terms of Service](#) - [Privacy Policy](#) - [Help](#)

# 歡迎畫面

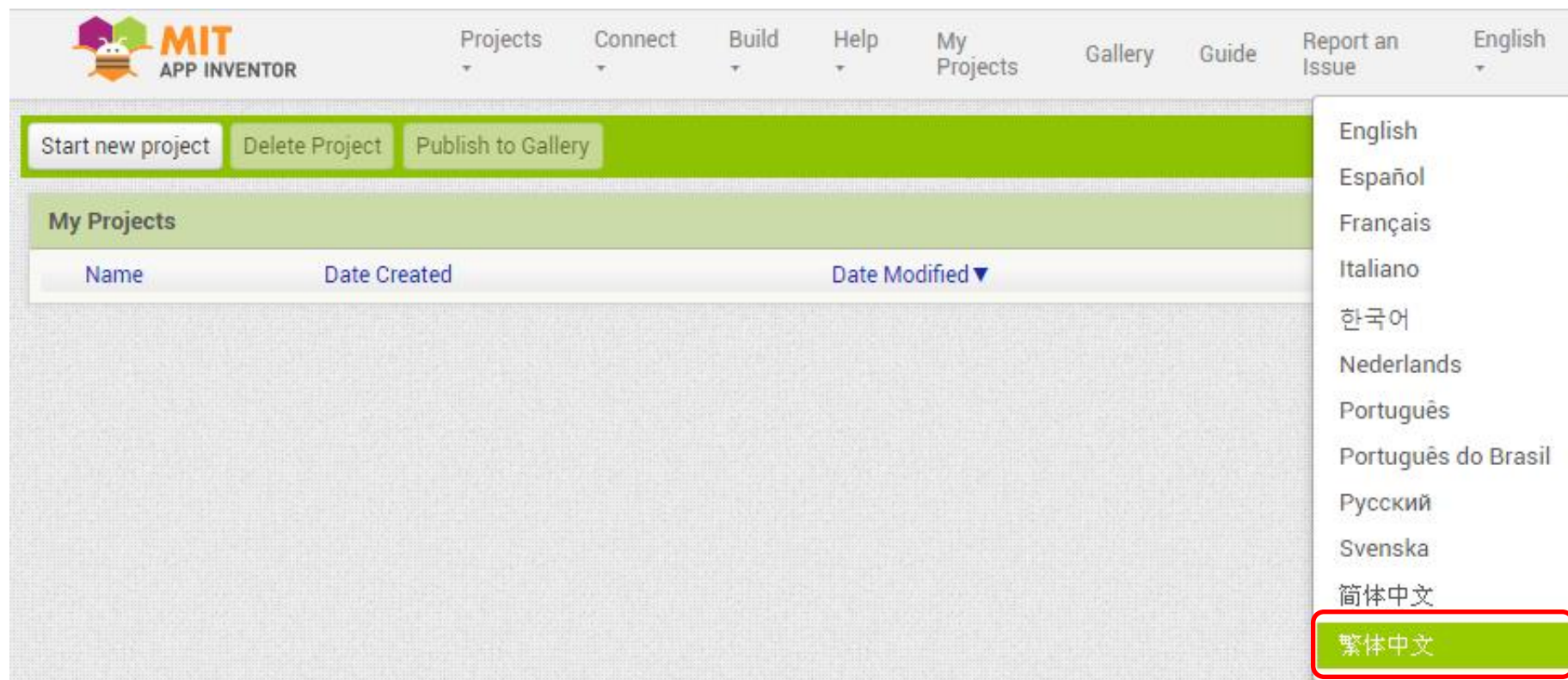


# 新增專案

The screenshot displays the MIT App Inventor 2 web application. At the top, there is a navigation bar with the MIT App Inventor logo and several menu items: Projects, Connect, Build, Help, My Projects, Gallery, Guide, and Report an Issue. Below this, a green bar contains three buttons: 'Start new project' (highlighted with a red rectangle), 'Delete Project', and 'Publish to Gallery'. The main workspace is divided into several panels. On the left, the 'My Projects' panel shows a table with columns for Name, Date Created, and Date Modified. In the center, a 'Welcome to App Inventor 2!' message box provides instructions for new users. On the right, the 'HelloPurr' project is open, showing a 'Palette' of components (User Interface, Layout, Media) and a 'Viewer' window displaying a cat image. The 'Components' panel on the far right lists available components like Screen1, Button1, and Sound1.



# 切換中文版



The screenshot shows the MIT App Inventor web interface. At the top, there is a navigation bar with the MIT App Inventor logo and several menu items: Projects, Connect, Build, Help, My Projects, Gallery, Guide, Report an Issue, and English. Below the navigation bar, there is a green bar with three buttons: Start new project, Delete Project, and Publish to Gallery. Underneath, there is a section titled "My Projects" with a table header showing "Name", "Date Created", and "Date Modified". On the right side, a language dropdown menu is open, displaying a list of languages: English, Español, Français, Italiano, 한국어, Nederlands, Português, Português do Brasil, Русский, Svenska, 简体中文, and 繁體中文. The 繁體中文 option is highlighted with a red border.

MIT APP INVENTOR

Projects Connect Build Help My Projects Gallery Guide Report an Issue English

Start new project Delete Project Publish to Gallery

My Projects

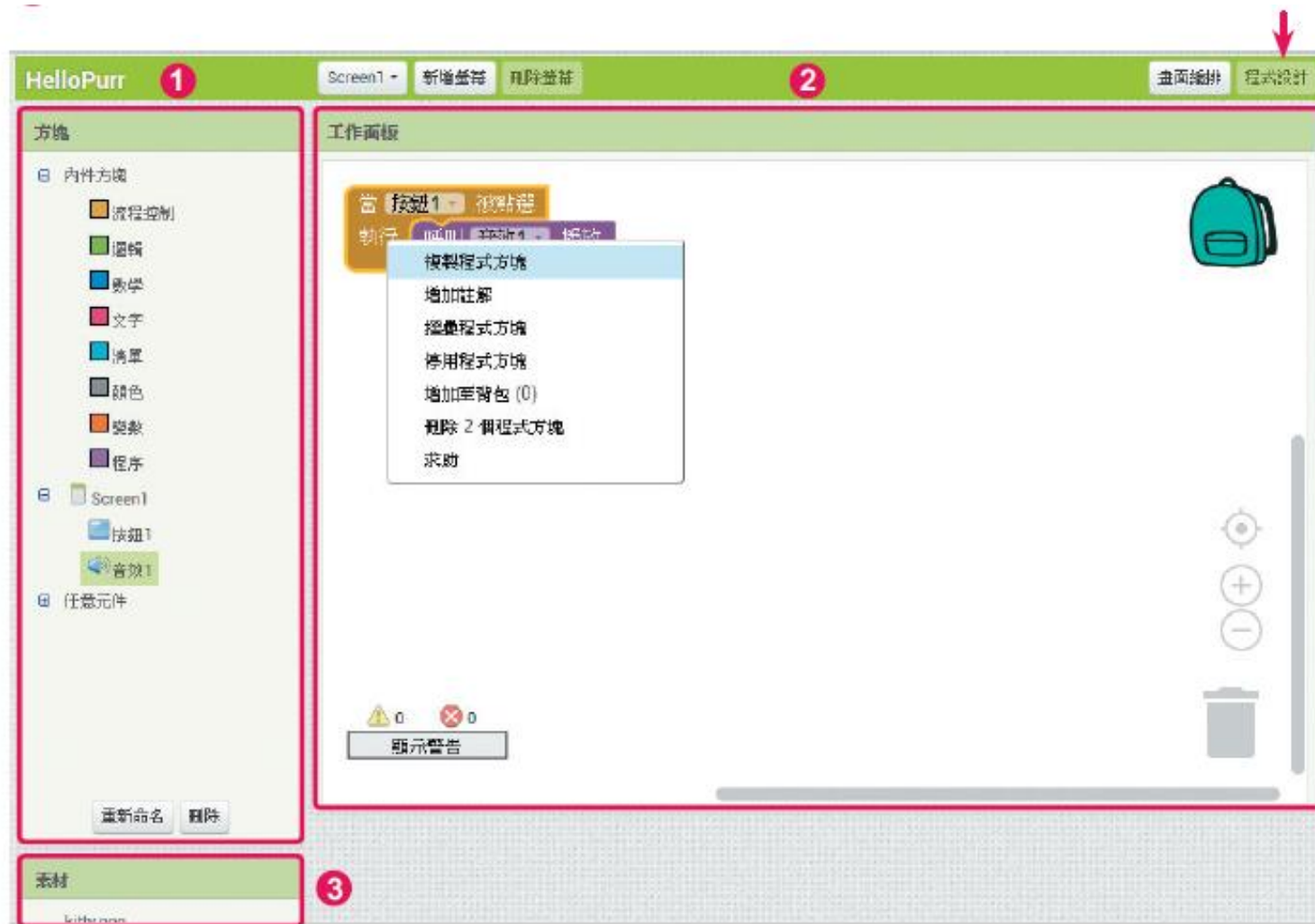
Name	Date Created	Date Modified ▼
------	--------------	-----------------

English  
Español  
Français  
Italiano  
한국어  
Nederlands  
Português  
Português do Brasil  
Русский  
Svenska  
简体中文  
繁體中文

# 畫面編排視窗(畫面設計、屬性設定)



# 程式設計視窗



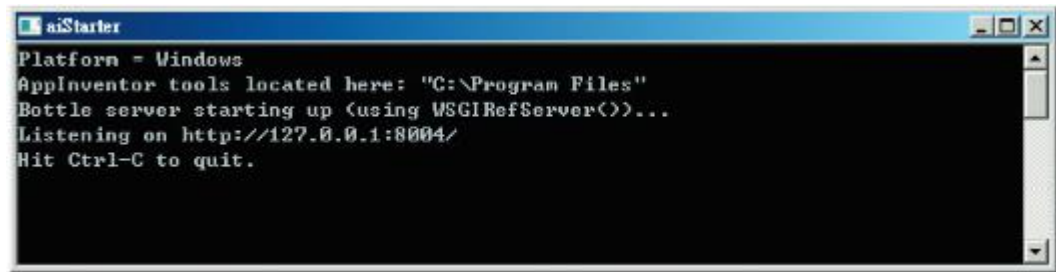
# 使用前準備及啟動

---

## 1. 安裝AI2的安裝軟體

請至[http://appinv.us/aisetup\\_windows](http://appinv.us/aisetup_windows)下載最新版的安裝程式

## 2. 啟動aiStarter



# 模擬器



# 第一個範例



**HelloPurr.aia**

# 新增專案





# 步驟1(增加按鈕及上傳圖片)

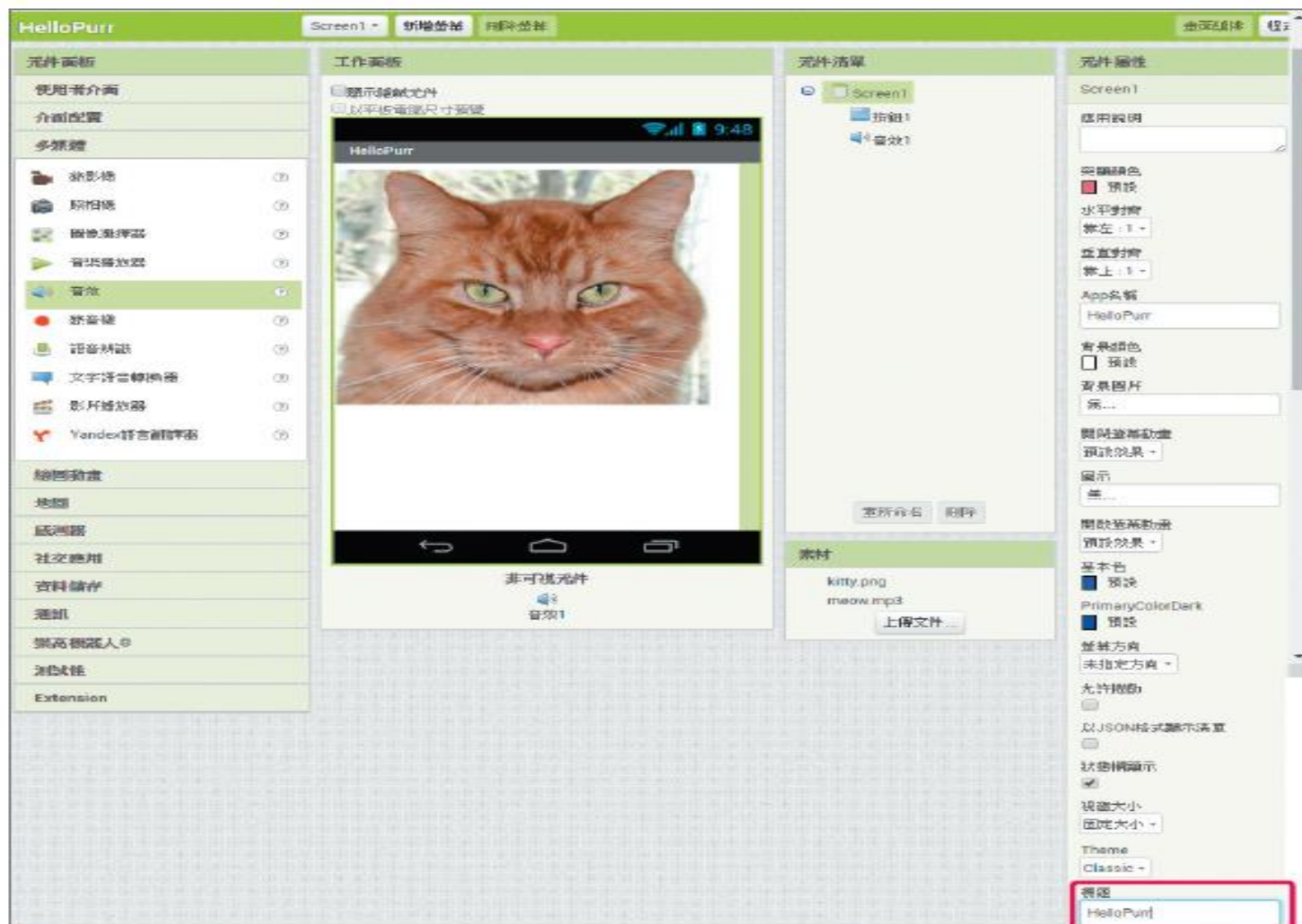




## 步驟2(新增聲音元件及上傳聲音)



# 完成畫面



## 步驟3(按鈕事件)



## 步驟4(聲音播放)

萬能

- 內件方塊
  - 流程控制
  - 邏輯
  - 數學
  - 文字
  - 清單
  - 顏色
  - 變數
  - 程序
- Screen1
  - 按鈕1
  - 1 音效1
- 任意元件

工作面板

當 音效1 .SoundError

訊息

執行

呼叫 音效1 暫停

2 呼叫 音效1 播放

呼叫 音效1 回復

呼叫 音效1 停止

呼叫 音效1 震動

毫秒數

當 按鈕1 被點選

執行 呼叫 音效1 播放

3

# 從Play商店下載安裝AI2 Companion





# 連線至實體手機



# 產生apk安裝檔

