

# 大綱

- ✓ Kinect 開發工具
- ✓ Kinect for Windows SDK 軟硬體需求
- ❷開發前的體驗



# OpenKinect

- ◇ OpenKinect 提供免費開放源(open source) 工具,方便在各種作業平台(Windows、 Linux Ubuntu、Mac OSX)開發 Kinect 應用 程式
- 是提供能與感應器溝通的簡單、直接介面, 取得影像資料





# OpenNI

○ OpenNI (Open Natural Interaction) 可以存取 libfreenect 能存取的所有資料,提供將深度影像上座標轉換成RGB影像座標的功能;更能同時追蹤多位使用者,並具有能從骨架資料擷取出動作姿勢的能力





- ※ Kinect for Windows SDK 對於RGB影像、 深度影像、骨架追蹤、使用者辨識具有全面的支援並具備以下特色
- ❷ 坐姿骨架追蹤: 提供只追蹤使用者上半身的 十個關節點
- 並延離骨架追蹤功能:使用者坐或站在距離 感應器40公分時,仍然可成功進行骨架追蹤
- 支援險部辨識與追蹤: 偵測使用者頭部位置 與臉部特徵



- ✓ Developer Toolkit: 提供更多元件、函式庫、 工具及程式範例、Kinect Studio 及其他資源
- ※ Kinect Studio: 可以用來錄製、播放或除錯 骨架資料,大大簡化了應用程式開發及測試 過程
- 語音辨識:除了英語之外,提供多種語言包下載,支援不同語音辨識功能的開發







# 軟硬體需求

- ❷ 硬體需求如下:
  - 雙核心、2.66-GHz 以上的 CPU
  - 2GB以上的記憶體,建議4GB
  - 支援 Direct 9.0 以上的顯示卡
  - Kinect for Xbox 360 或 Kinect for Windows 感應器



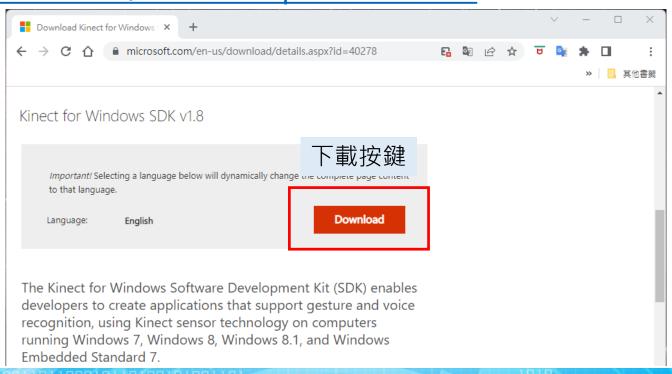


# 軟硬體需求

- ❷ 軟體需求如下:
  - 32 或 64 位元 Windows 7 或 Windows 8 作業 系統
  - 任何版本的 Visual Studio 2010 或 Visual Studio 2012
  - Microsoft .NET Framework 4 或以上
  - Kinect for Windows SDK (x86 or x64)
  - 其他支援軟體(視個人需要選擇)

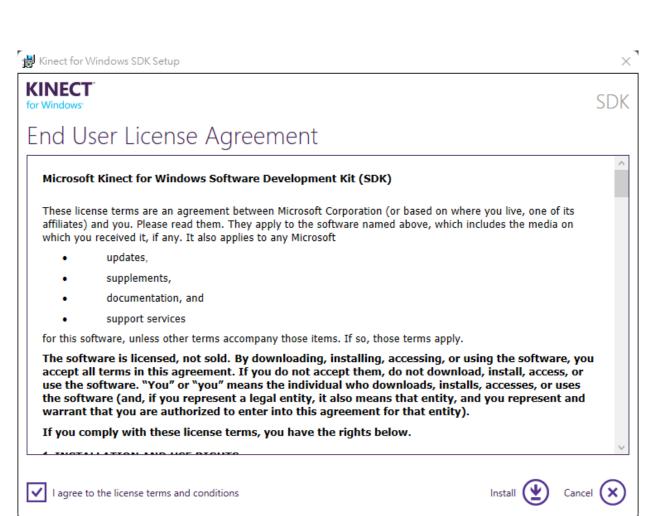
▼ 下載KinectSDK-v1.8-Setup.exe

https://www.microsoft.com/en-us/download/details.aspx?id=40278





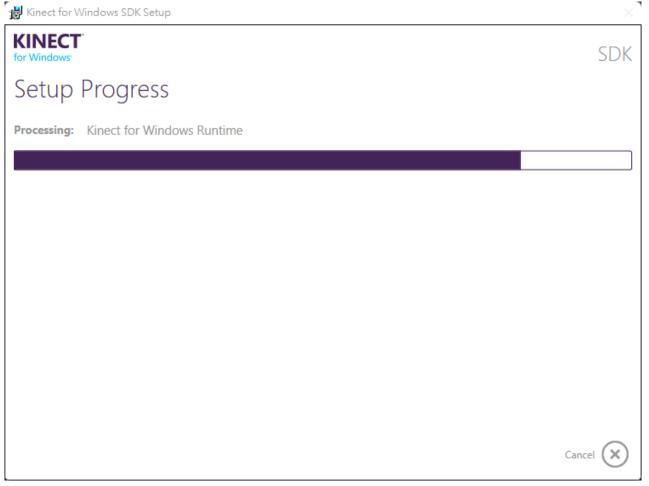






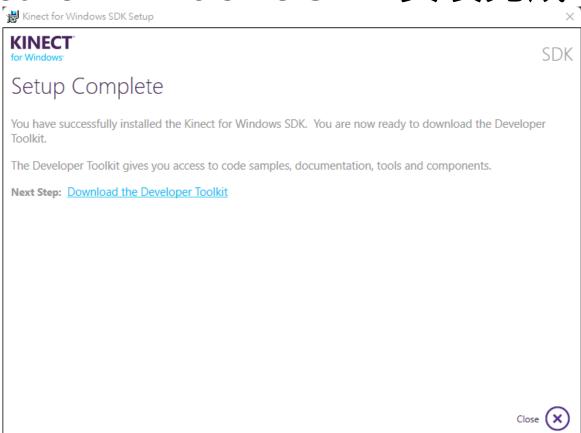


❷ 等待安裝





#### ✓ Kinect for Windows SDK 安裝完成







# 安裝 Developer Toolkit



#### ❷ 安裝執行檔



Developer Toolkit

#### End User License Agreement

#### Microsoft Kinect for Windows Developer Toolkit

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. It also applies to any Microsoft

- updates.
- supplements,
- documentation, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

The software is licensed, not sold. By downloading, installing, accessing, or using the software, you accept all terms in this agreement. If you do not accept them, do not download, install, access, or use the software. "You" or "you" means the individual who downloads, installs, accesses, or uses the software (and, if you represent a legal entity, it also means that entity, and you represent and warrant that you are authorized to enter into this agreement for that entity).

If you comply with these license terms, you have the rights below.

1. INSTALLATION AND USE RIGHTS.



I agree to the license terms and conditions









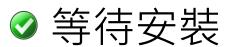


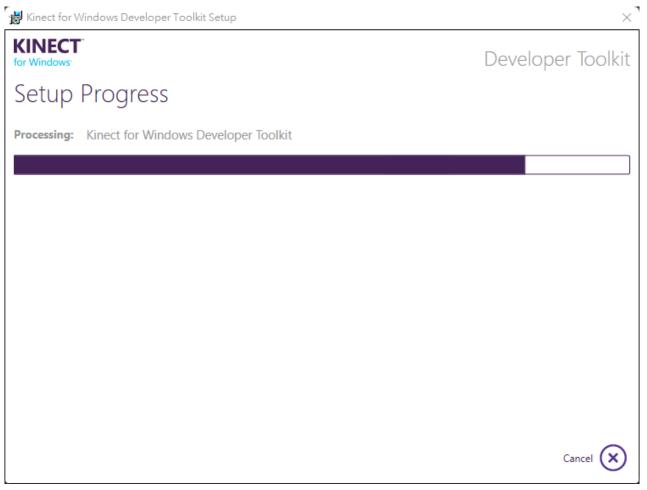






# 安裝 Developer Toolkit

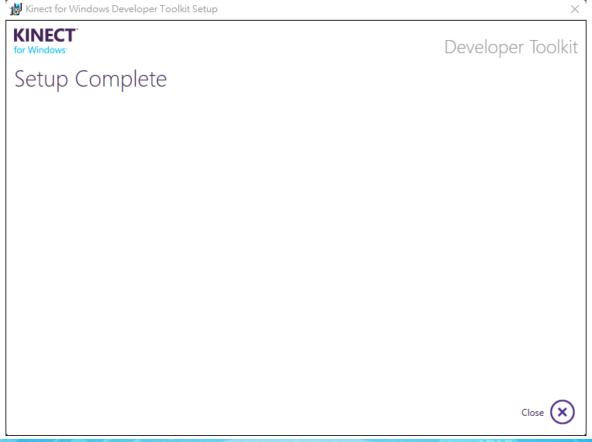






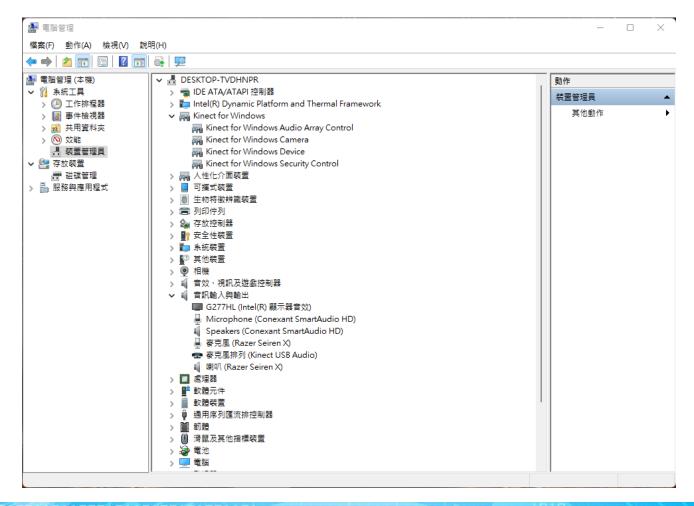
# 安裝 Developer Toolkit

☑ Developer Toolkit 安裝完成





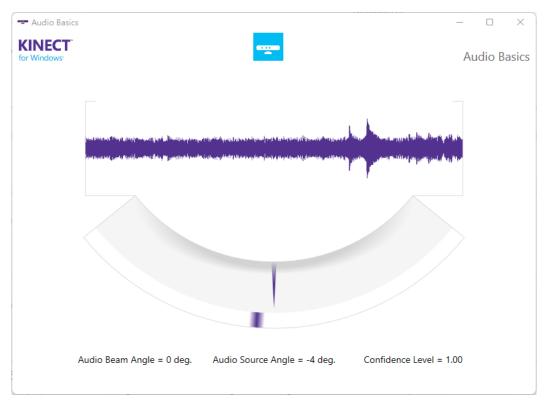
# 裝置管理員





# 開發前的體驗

#### Audio Basics





# 開發前的體驗

Kinect Explorer

