

## 深度學習基本原理 (Fundamentals of Deep Learning)

第五部分:預訓練模型(Pre-trained Models)



### 課程大綱

第1部分:深度學習簡介

· 第2部分:神經網路如何訓練

· 第3部分:卷積神經網路

(Convolutional Neural Networks)

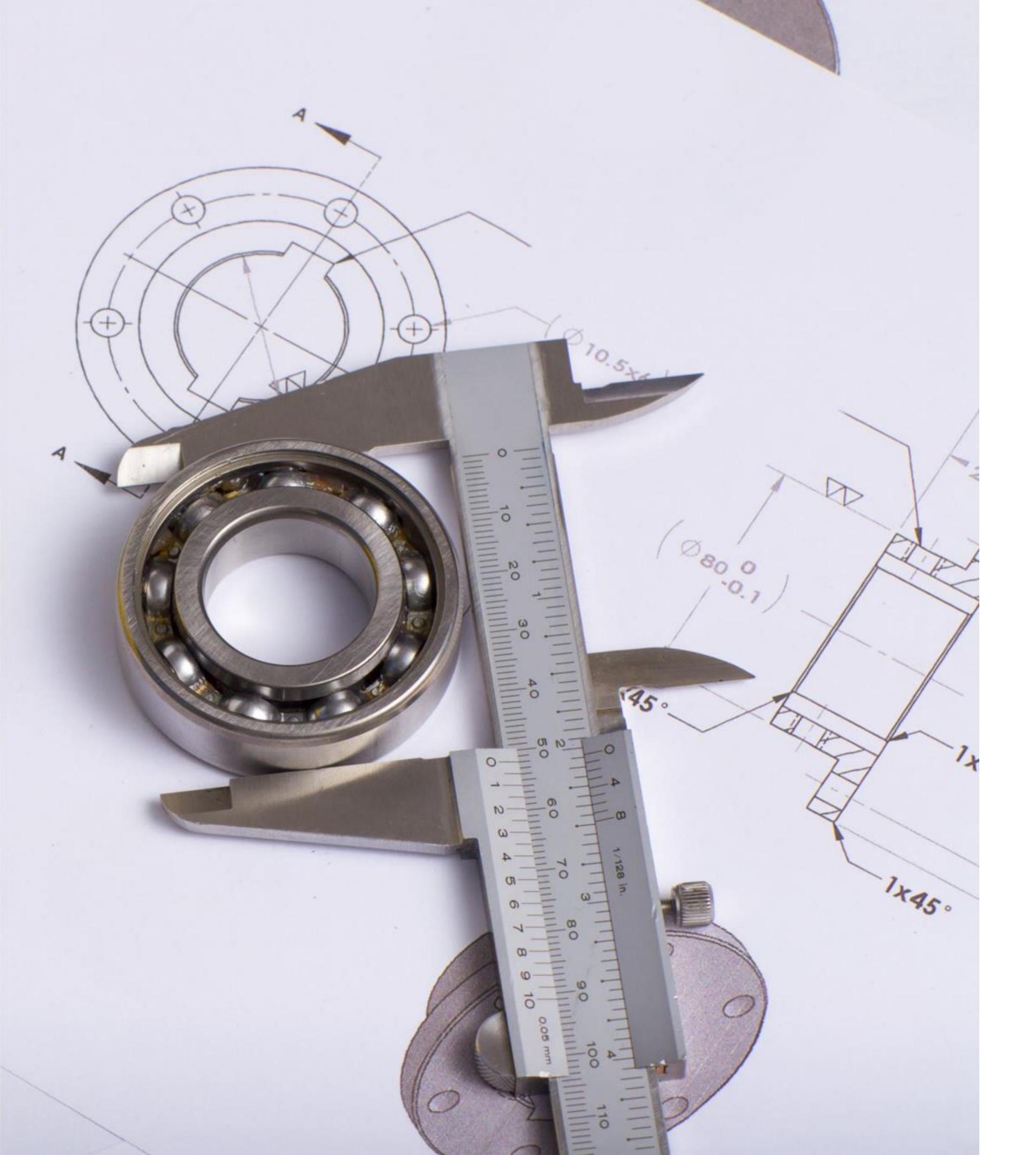
第4部分:資料增強與部署

· 第5部分:預訓練模型

第6部分: 進階架構







### 課程內容回顧

- Learning Rate
- . 層數(Number of Layers)
- 每層神經元數(Neurons per Layer)
- 活化函式(Activation Functions)
- . Dropout
- 資料(Data)



### 預訓練模型(Pre-Trained Models)





# PYICH HUB

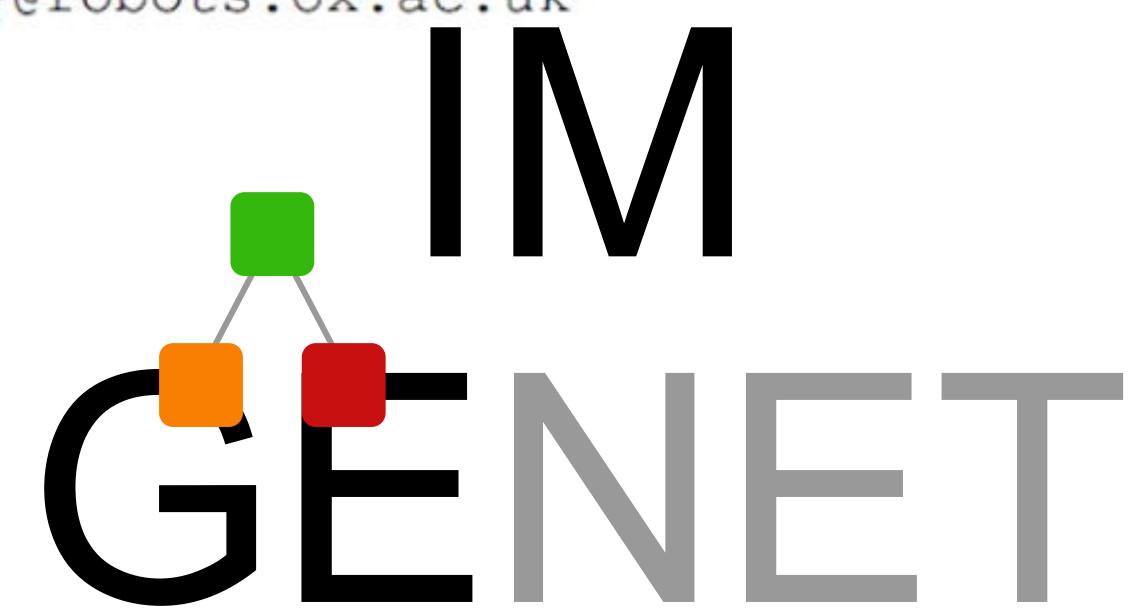


### 預訓練模型(Pre-Trained Models)

# VERY DEEP CONVOLUTIONAL NETWORKS FOR LARGE-SCALE IMAGE RECOGNITION

### Karen Simonyan\* & Andrew Zisserman\*

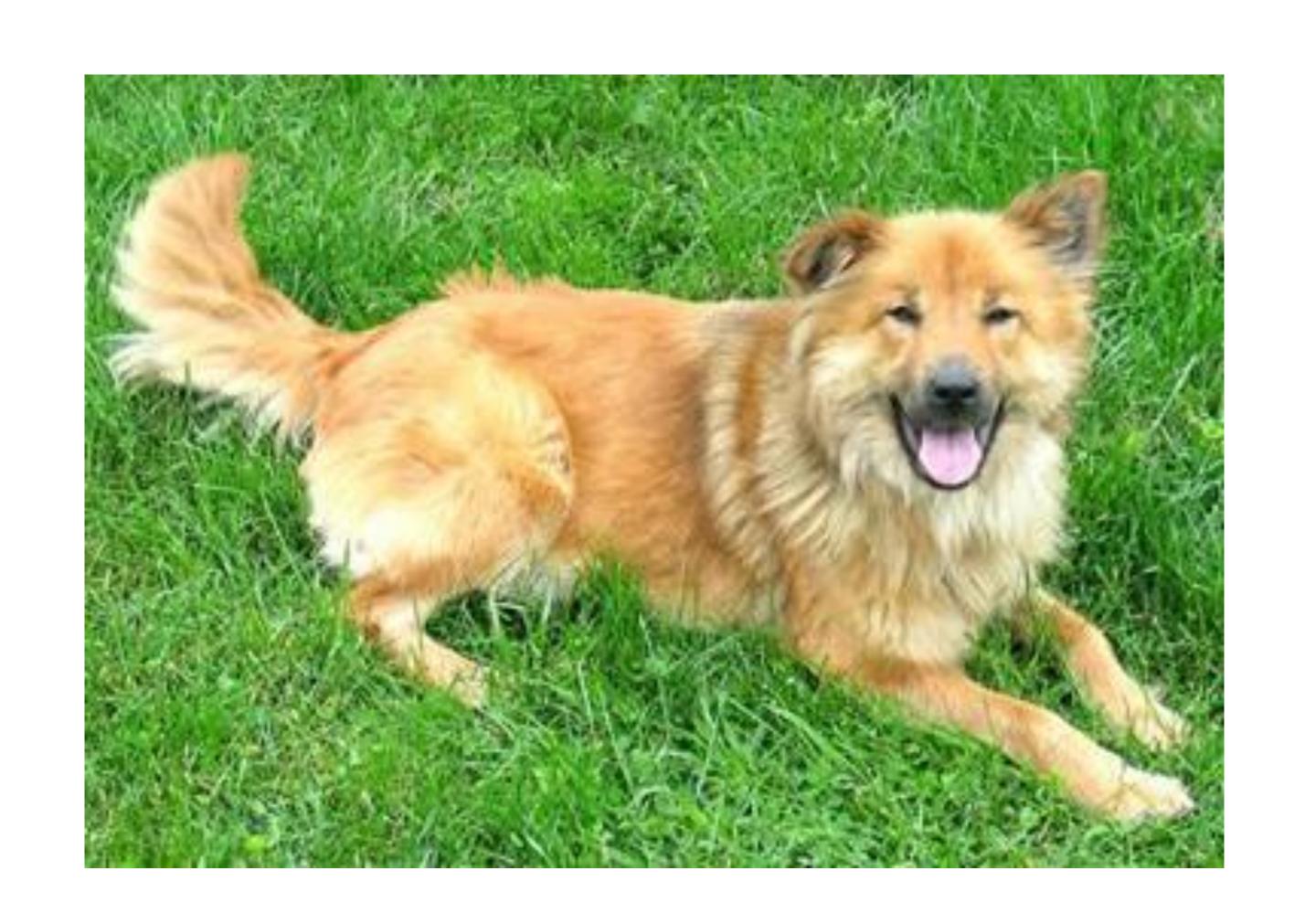
Visual Geometry Group, Department of Engineering Science, University of Oxford {karen, az}@robots.ox.ac.uk

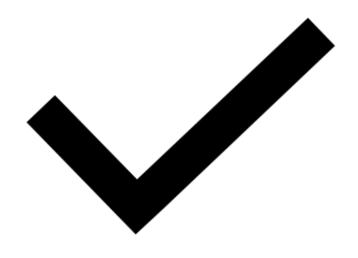




### 下一個挑戰

### 自動化狗門(An Automated Doggy Door)







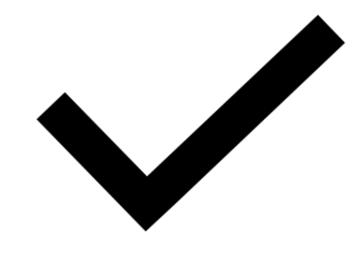




### 下一個挑戰

自動化的"總統狗"門



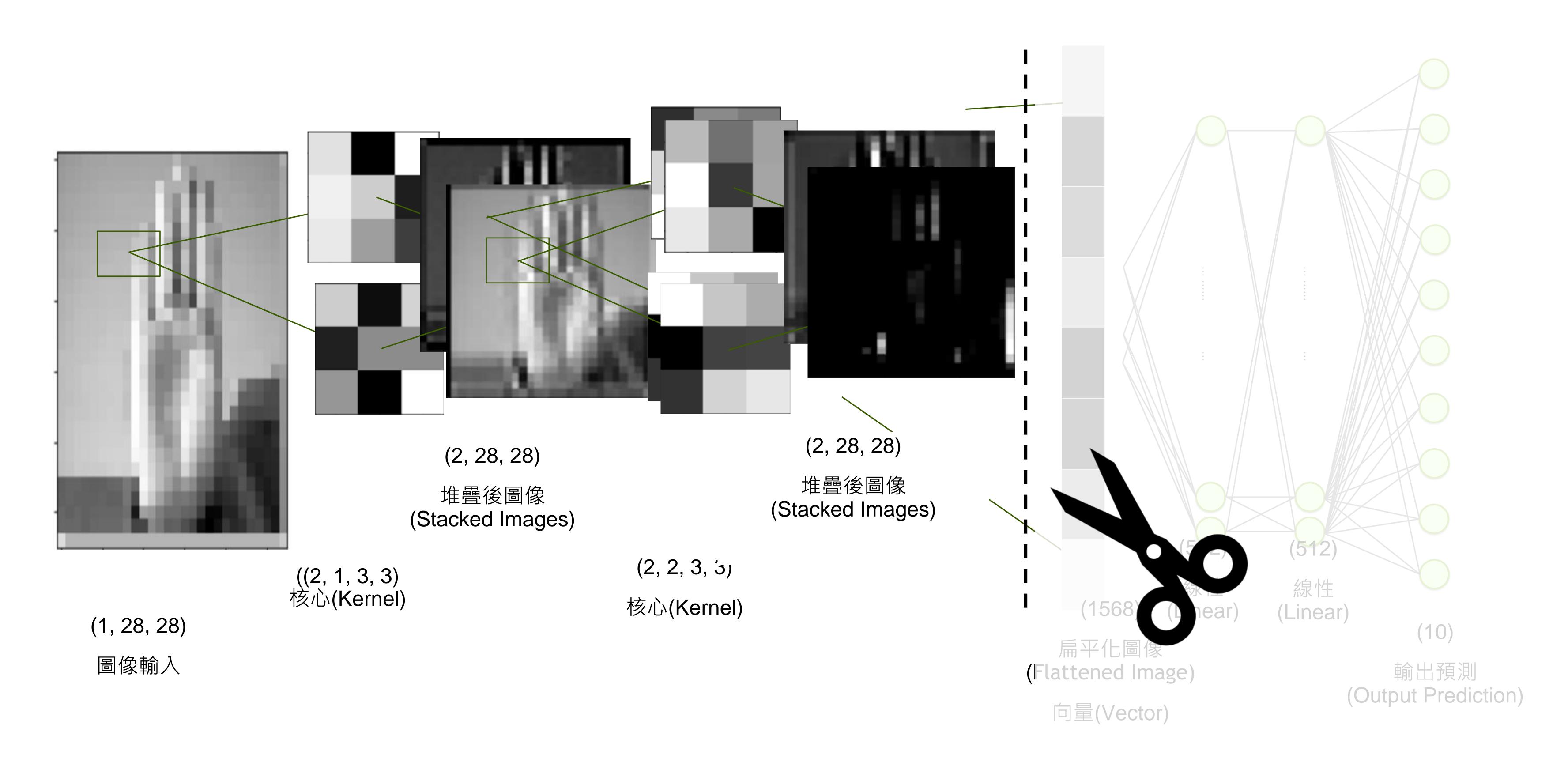






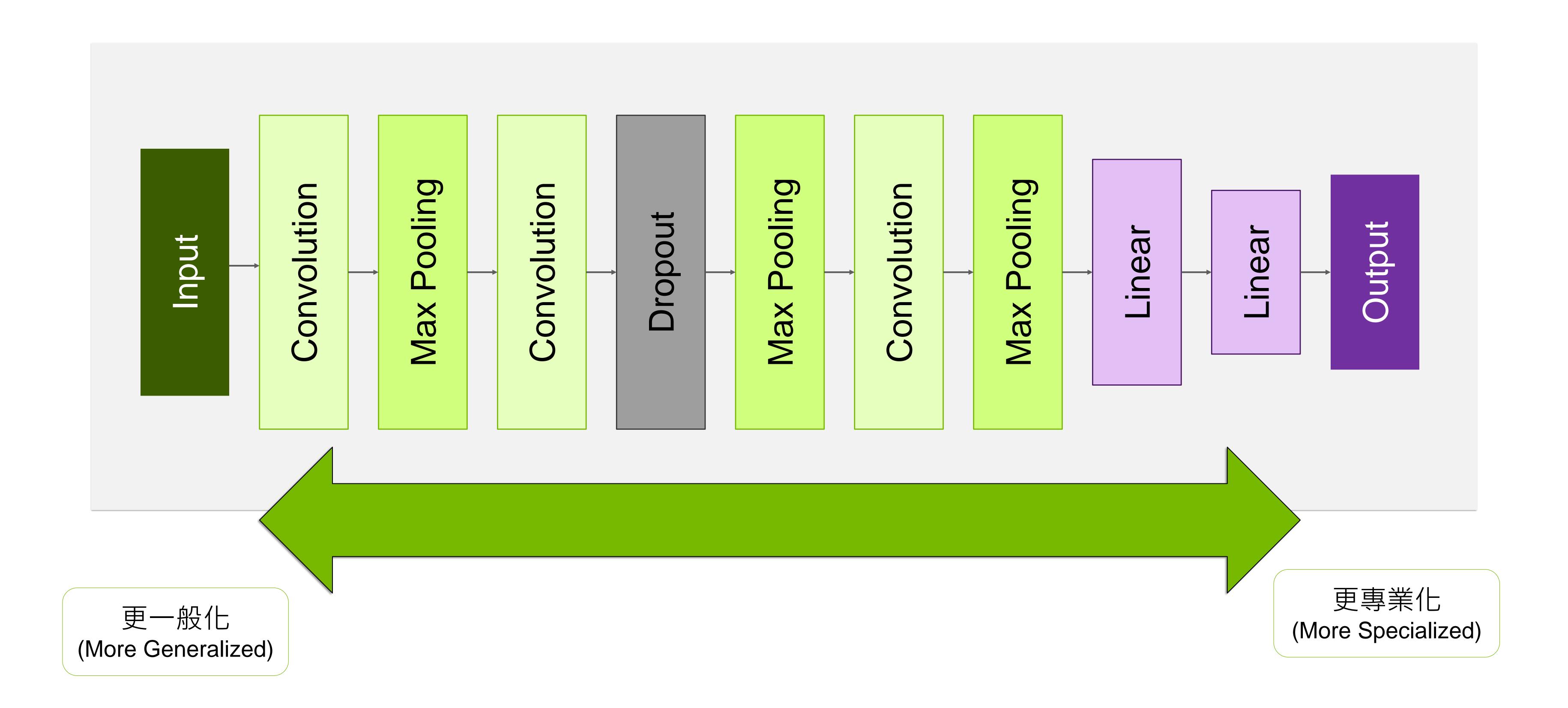








### Transfer Learning遷移學習(Transfer Learning)



凍結模型(Freezing the Model)?





