

# **CV** Course1 data preparation

**Blake** 

### Outline



- 1. Data source
- 2. Data augmentation
  - a. Imgaug
  - b. Torchvision.transforms

#### Data source



### **Open Data Source:**

- Google Dataset Search
- 各领域公开数据集下载
- Awesome Public Datasets
- Kaggle Datasets
- Reddit Datasets
- Open Images Dataset V5 +
- BIFROST Visual Datasets
- 政府資料開放平台
- 內政資料開放平臺 | MOI Open Data
- Open Data Taipei

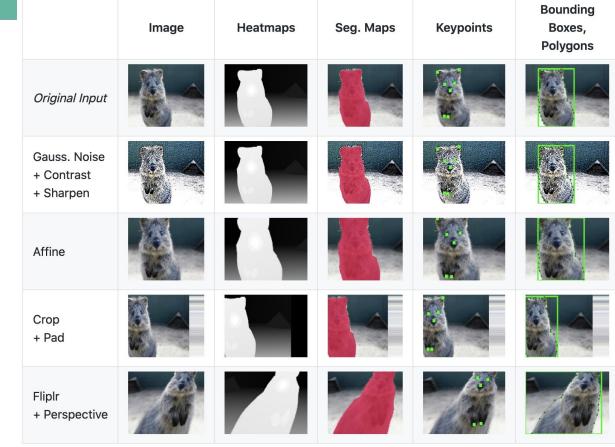


#### **Open Source Labeling Software:**

- Images: <u>Labelbox</u>
- Image Polygonal Annotation: MIT LabelMe / LabelMe
- Audio: <u>Praat</u>
- Video: <u>ANVIL</u>
- AI領域的藍領工作 Image Labeling



#### **Imgaug**









#### torchvision.transforms

#### Crop

- transforms.CenterCrop
- transforms.RandomCrop
- transforms.RandomResizedCrop
- transforms.FiveCrop
- transforms.TenCrop

#### Flip and Rotation

- transforms.RandomHorizontalFlip (p=0.5)
- transforms.RandomVerticalFlip(p =0.5)
- transforms.RandomRotation



- transforms.Resize
- transforms.Normalize
- transforms.ToTensor
- transforms.Pad
- transforms.ColorJitter
- transforms.Grayscale
- transforms.LinearTransformation()
- transforms.RandomAffine
- transforms.RandomGrayscale
- transforms.ToPILImage



- transforms.RandomChoice(transforms)
- transforms.RandomApply(transforms, p=0.5)
- transforms.RandomOrder

