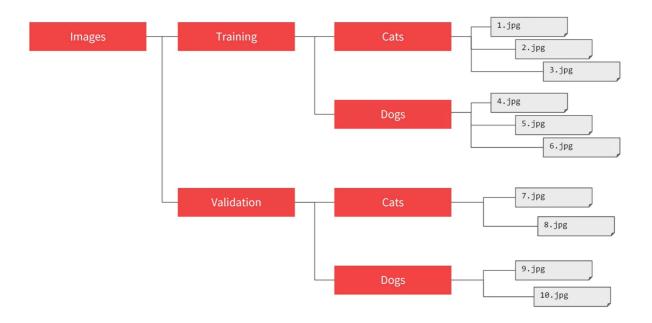


## Week 1

## Training with the cats and dogs dataset

TensorFlow Keras automatically labels your image by directory



- To use an image generator, take an instance of the ImageDataGenerator and resize it if it's not
- Then call the flow\_from\_directory to get the generator object
- point at the training directory
- specify the target size
- Then set batch size
- · Then set the class mode

Week 1

· Summary of the layer

```
Output Shape
Layer (type)
                                                         Param #
conv2d (Conv2D)
                              (None, 148, 148, 16)
                                                         448
max_pooling2d (MaxPooling2D) (None, 74, 74, 16)
                                                         0
conv2d_1 (Conv2D)
                              (None, 72, 72, 32)
                                                         4640
max_pooling2d_1 (MaxPooling2 (None, 36, 36, 32)
                                                         0
                              (None, 34, 34, 64)
conv2d_2 (Conv2D)
                                                         18496
max_pooling2d_2 (MaxPooling2 (None, 17, 17, 64)
                                                         0
flatten (Flatten)
                              (None, 18496)
                                                         0
dense (Dense)
                              (None, 512)
                                                         9470464
dense_1 (Dense)
                              (None, 1)
                                                         513
Total params: 9,494,561
Trainable params: 9,494,561
Non-trainable params: 0
```

## Week One Version of Cat and Dog Identification

-FILE-

## Week One Test

-FILE-

Week 1 2

Week 1