

$$Q_2 \begin{bmatrix} 2 & 1 & 2 \\ 1 & 2 & 1 \\ 1 & 1 & 1 \end{bmatrix} \times \begin{bmatrix} 1 & 0 & 1 \\ -1 & 0 & 1 \\ -1 & 1 & -1 \end{bmatrix} = \begin{bmatrix} 2 & 0 & 2 \\ -1 & 0 & 1 \\ -1 & 1 & -1 \end{bmatrix} = 3$$

$$\begin{bmatrix} 0 & 2 & 1 \\ 2 & 1 & 2 \\ 2 & 1 & 1 \end{bmatrix} \times \begin{bmatrix} 1 & 0 & 0 \\ 0 & 0 & 1 \\ 1 & -1 & 1 \end{bmatrix} = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 2 \\ 2 & -1 & 1 \end{bmatrix} = 4$$

$$\begin{bmatrix} 2 & 1 & 1 \\ 0 & 0 & 0 \\ 0 & 2 & 0 \end{bmatrix} \times \begin{bmatrix} -1 & 0 & 1 \\ 1 & 1 & -1 \\ -1 & -1 & 0 \end{bmatrix} = \begin{bmatrix} -2 & 0 & 1 \\ 0 & 0 & 0 \\ 0 & -2 & 0 \end{bmatrix} = -3$$

$[1]$

$$3 + 4 - 3 + 1 = 5$$

$$\begin{bmatrix} 2 & 1 & 2 \\ 1 & 2 & 1 \\ 1 & 1 & 1 \end{bmatrix} \times \begin{bmatrix} -1 & 0 & -1 \\ -1 & -1 & 1 \\ 1 & 0 & 0 \end{bmatrix} = \begin{bmatrix} -2 & 0 & -2 \\ -1 & -2 & 1 \\ 1 & 0 & 0 \end{bmatrix} = -5$$

$$\begin{bmatrix} 0 & 2 & 1 \\ 2 & 1 & 2 \\ 2 & 1 & 1 \end{bmatrix} \times \begin{bmatrix} -1 & 1 & 1 \\ -1 & 0 & 0 \\ -1 & 1 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 2 & 1 \\ -2 & -1 & 0 \\ -2 & 1 & 0 \end{bmatrix} = -1$$

$$\begin{bmatrix} 2 & 1 & 1 \\ 0 & 0 & 0 \\ 0 & 2 & 0 \end{bmatrix} \times \begin{bmatrix} 0 & 1 & 0 \\ 1 & -1 & -1 \\ -1 & -1 & -1 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 0 \\ 0 & -2 & 0 \end{bmatrix} = -1$$

$$-5 - 1 - 1 = \boxed{0}$$

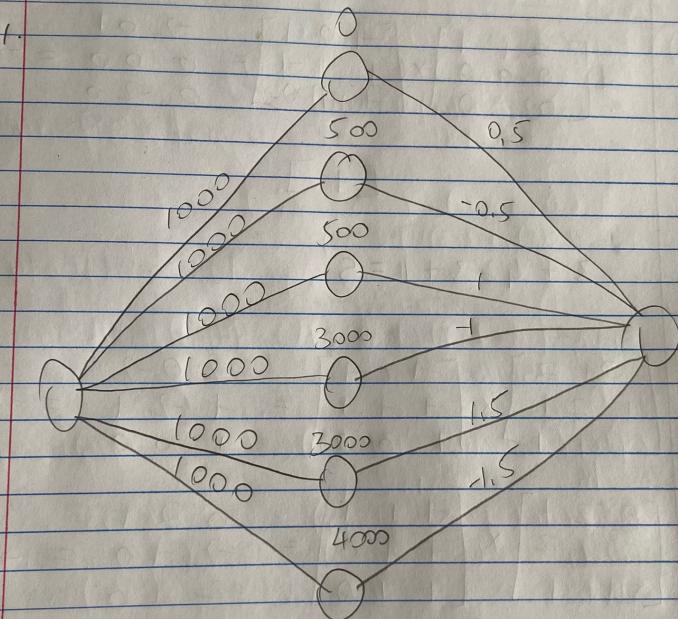
Q3.a.

$$\begin{bmatrix} 4 & 3 & 2 \\ 3 & 3 & 2 \\ 3 & 2 & 1 \end{bmatrix}$$

b.

$$\begin{bmatrix} 4 & 2 \\ 3 & 1 \end{bmatrix}$$

Q1.



$$\frac{1}{1+e^{-1000x}}$$

$$\frac{1}{1+e^{-1000x-500}}$$

$$\frac{1}{1+e^{-1000x-500}}$$

$$\frac{1}{1+e^{-1000x-50}}$$

$$\frac{1}{1+e^{-1000x-3000}}$$

$$\frac{1}{1+e^{-1000x-4000}}$$

Elaina_8_hw_fine_tune_food_new

August 9, 2021

1 Transfer learning: classifying food items

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- Net ID: yh4310

This week, we practiced using transfer learning to classify hand shapes as rock, paper, or scissors.

But that was a relatively easy problem. In this notebook, we'll work on classifying photographs of food items into 11 classes: bread, dairy product, dessert, egg, fried food, meat, noodles/pasta, rice, seafood, soup, and vegetable/fruit.

This is a more challenging problem, because there is a lot of intra-class variability (e.g. different fruits and vegetables don't have a lot in common) and also some inter-class similarity (e.g. a bowl of rice can look similar to a bowl of pasta).

To see what we mean by these, let's look at some examples of food photographs from the dataset that we'll work with.

Note: you can refer to this week's demo notebook for a closely related example.

Note: you may want to change the notebook's runtime type to GPU, for faster model training.

```
[ ]: import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import os
import shutil
from PIL import Image

import tensorflow as tf
```

1.1 Get data

We are going to use the [Food-11 dataset](#), from the EPFL Multimedia Signal Processing Group. Here's a description:

This is a dataset containing 16643 food images grouped in 11 major food categories. The 11 categories are Bread, Dairy product, Dessert, Egg, Fried food, Meat, Noodles/Pasta, Rice, Seafood, Soup, and Vegetable/Fruit. Similar as Food-5K dataset, the whole dataset is divided in three parts: training, validation and evaluation. The same naming convention is used, where ID 0-10 refers to the 11 food categories respectively.

The total file size of the Food-11 dataset is about 1.16 GB.

```
[ ]: classes = np.array(["Bread", "Dairy product", "Dessert", "Egg", "Fried food",
    "Meat", "Noodles/Pasta", "Rice", "Seafood", "Soup",
    "Vegetable/Fruit"])

[ ]: %cd /content
!wget https://s3-us-west-2.amazonaws.com/static.pyimagesearch.com/food-datasets/
→Food-11.zip --output-document Food-11.zip
```

```
/content
--2021-08-09 19:45:12--  https://s3-us-
west-2.amazonaws.com/static.pyimagesearch.com/food-datasets/Food-11.zip
Resolving s3-us-west-2.amazonaws.com (s3-us-west-2.amazonaws.com)...
52.218.217.240
Connecting to s3-us-west-2.amazonaws.com (s3-us-
west-2.amazonaws.com)|52.218.217.240|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1163903300 (1.1G) [application/zip]
Saving to: Food-11.zip

Food-11.zip      100%[=====] 1.08G 37.3MB/s   in 26s

2021-08-09 19:45:39 (42.0 MB/s) - Food-11.zip saved [1163903300/1163903300]
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[ ]: !unzip Food-11.zip
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inflating: Food-11/validation/8_83.jpg
inflating: Food-11/validation/8_88.jpg
inflating: Food-11/validation/9_101.jpg
inflating: Food-11/validation/9_105.jpg
inflating: Food-11/validation/9_109.jpg
inflating: Food-11/validation/9_117.jpg
inflating: Food-11/validation/9_128.jpg
inflating: Food-11/validation/9_149.jpg
inflating: Food-11/validation/9_16.jpg
inflating: Food-11/validation/9_161.jpg
inflating: Food-11/validation/9_163.jpg
inflating: Food-11/validation/9_168.jpg
inflating: Food-11/validation/9_201.jpg
inflating: Food-11/validation/9_202.jpg
inflating: Food-11/validation/9_207.jpg
inflating: Food-11/validation/9_214.jpg
inflating: Food-11/validation/9_240.jpg

```
inflating: Food-11/validation/9_245.jpg
inflating: Food-11/validation/9_258.jpg
inflating: Food-11/validation/9_27.jpg
inflating: Food-11/validation/9_271.jpg
inflating: Food-11/validation/9_275.jpg
inflating: Food-11/validation/9_279.jpg
inflating: Food-11/validation/9_287.jpg
inflating: Food-11/validation/9_290.jpg
inflating: Food-11/validation/9_300.jpg
inflating: Food-11/validation/9_316.jpg
inflating: Food-11/validation/9_332.jpg
inflating: Food-11/validation/9_337.jpg
inflating: Food-11/validation/9_338.jpg
inflating: Food-11/validation/9_341.jpg
inflating: Food-11/validation/9_348.jpg
inflating: Food-11/validation/9_355.jpg
inflating: Food-11/validation/9_358.jpg
inflating: Food-11/validation/9_367.jpg
inflating: Food-11/validation/9_390.jpg
inflating: Food-11/validation/9_393.jpg
inflating: Food-11/validation/9_395.jpg
inflating: Food-11/validation/9_414.jpg
inflating: Food-11/validation/9_424.jpg
inflating: Food-11/validation/9_428.jpg
inflating: Food-11/validation/9_436.jpg
inflating: Food-11/validation/9_440.jpg
inflating: Food-11/validation/9_449.jpg
inflating: Food-11/validation/9_450.jpg
inflating: Food-11/validation/9_458.jpg
inflating: Food-11/validation/9_460.jpg
inflating: Food-11/validation/9_492.jpg
inflating: Food-11/validation/9_499.jpg
inflating: Food-11/validation/9_7.jpg
inflating: Food-11/validation/9_76.jpg
inflating: Food-11/validation/9_79.jpg
inflating: Food-11/validation/9_84.jpg
inflating: Food-11/validation/9_92.jpg
```

Click on the folder icon in Colab to view your filesystem and verify that you have the Food-11 directory with training, validation, and evaluation subdirectories.

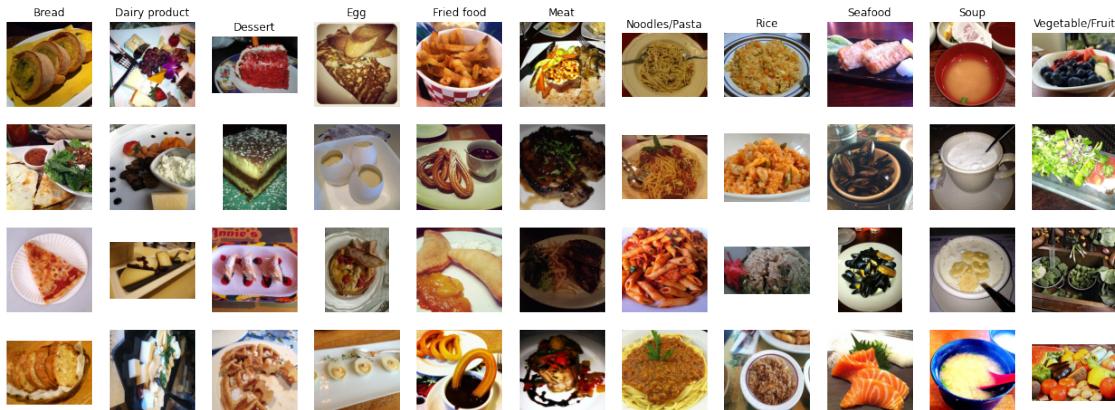
```
[ ]: training_dir = "Food-11/training/"
training_images = os.listdir(training_dir)
training_labels = np.array([int(f.split('_')[0]) for f in training_images ])

[ ]: validation_dir = "Food-11/validation/"
validation_images = os.listdir(validation_dir)
validation_labels = np.array([int(f.split('_')[0]) for f in validation_images ])
```

```
[ ]: evaluation_dir = "Food-11/evaluation/"
evaluation_images = os.listdir(evaluation_dir)
evaluation_labels = np.array([int(f.split('_')[0]) for f in evaluation_images ])
```

Let's look at a few random training samples:

```
[ ]: num_classes = len(classes)
samples_per_class = 4
figure = plt.figure(figsize=(num_classes*2,samples_per_class*2))
for cls_idx, cls in enumerate(classes):
    idxs = np.flatnonzero(training_labels == cls_idx)
    idxs = np.random.choice(idxs, samples_per_class, replace=False)
    for i, idx in enumerate(idxs):
        plt_idx = i * num_classes + cls_idx + 1
        plt.subplot(samples_per_class, num_classes, plt_idx)
        im = Image.open(training_dir + training_images[idx])
        plt.imshow(im)
        plt.axis('off')
        if i == 0:
            plt.title(cls)
plt.show()
```



We can see that two dessert samples (for example) may look very different from one another - intra-class variability. Furthermore, samples from two different classes, such as a rice dish and a noodles dish, may look very similar to one another - inter-class similarity.

(In fact, some foods may really belong to multiple classes. For example, fried chicken should really have both the "fried food" and "meat" labels, but only one class label is provided for each sample in the dataset.)

1.2 Prepare data directories

Because the Food-11 dataset is very large, we won't want to load the entire dataset into memory at once.

Instead, Keras will let us read in images from disk as they are needed (in batches). For this to work, Keras expects that images will be organized in the following directory structure, with one subdirectory per class:

```
main_directory/
...class_a/
.....a_image_1.jpg
.....a_image_2.jpg
...class_b/
.....b_image_1.jpg
.....b_image_2.jpg
```

So, we will have to re-organize our directory structure to match.

```
[ ]: %cd /content/Food-11/training/
```

```
# loop over classes
for i in range(len(classes)):
    # make a directory for this class inside Food-11/training
    try:
        os.mkdir("class_%02d" % i)
    except FileExistsError:
        pass
    # get list of files inside Food-11/training that have this class label
    files = [f for f in os.listdir('/content/Food-11/training/') if f.
             →startswith("%d_" % i)]
    # move each file to the subdirectory for the class
    for f in files:
        shutil.move(f, "class_%02d/" % i)
```

```
/content/Food-11/training
```

```
[ ]: %cd /content/Food-11/validation/
```

```
for i in range(len(classes)):
    try:
        os.mkdir("class_%02d" % i)
    except FileExistsError:
        pass
    files = [f for f in os.listdir('/content/Food-11/validation/') if f.
             →startswith("%d_" % i)]
    for f in files:
        shutil.move(f, "class_%02d/" % i)
```

```
/content/Food-11/validation
```

```
[ ]: %cd /content/Food-11/evaluation/
```

```

for i in range(len(classes)):
    try:
        os.mkdir("class_%02d" % i)
    except FileExistsError:
        pass
    files = [f for f in os.listdir('/content/Food-11/evaluation/') if f.
            startswith("%d_" % i)]
    for f in files:
        shutil.move(f, "class_%02d/" % i)

```

/content/Food-11/evaluation

[]: # go back to default working directory
%cd /content

/content

Use the folder icon in Colab to look at your directory structure, and verify that within the training, validation, and evaluation data directories, there are subdirectories for each class containing the samples from that class.

1.3 Prepare data generators

Now that we have prepared the directory structure, we can set up our data "flow".

In the next cell, I have defined a batch size and an image size. You are free to change these parameters, or you can keep them. You can use any batch size that has good results in training, and you can change the input image size to match the input shape of whatever base model you are using.

[]: # TODO 1 (optional) - design choice on batch size, image shape
BATCH_SIZE=32
INPUT_IMG_SIZE = 224

Then, I have defined some data generators to create augmented samples (slightly changed versions of the original samples). You are free to change the transformations used to generate the augmented data. You can learn more about the image transformations in the [ImageDataGenerator documentation](#).

After we define the data generator, we use `flow_from_directory` to get images off the disk during training, on an as-needed basis.

[]: # TODO 2 (optional) - design choices on image transformations for data augmentation

```

# prepare ImageDataGenerator to create augmented training samples
training_aug = tf.keras.preprocessing.image.ImageDataGenerator(
    rescale=1.0/255,           # rescales so each pixel is in 0-1 range
    rotation_range=1,
    zoom_range=0.1,
    width_shift_range=0.1,

```

```

height_shift_range=0.1,
shear_range=0.1,
horizontal_flip=True,
fill_mode="nearest")

# prepare generator that pulls images from directory (and resizes)
training_gen = training_aug.flow_from_directory(
    '/content/' + training_dir,
    target_size=(INPUT_IMG_SIZE, INPUT_IMG_SIZE),
    color_mode="rgb",
    shuffle=True,
    batch_size=BATCH_SIZE,
    class_mode='sparse')

```

Found 9866 images belonging to 11 classes.

Check the mapping of directory names to class labels:

[]: `training_gen.class_indices`

[]: `{'class_00': 0,
'class_01': 1,
'class_02': 2,
'class_03': 3,
'class_04': 4,
'class_05': 5,
'class_06': 6,
'class_07': 7,
'class_08': 8,
'class_09': 9,
'class_10': 10}`

We also set up the validation and evaluation (test) sets in a similar manner:

[]: `validation_aug = tf.keras.preprocessing.image.ImageDataGenerator(
 rescale=1.0/255
)

validation_gen = validation_aug.flow_from_directory(
 '/content/' + validation_dir,
 target_size=(INPUT_IMG_SIZE, INPUT_IMG_SIZE),
 color_mode="rgb",
 shuffle=True,
 batch_size=BATCH_SIZE,
 class_mode='sparse')`

Found 3430 images belonging to 11 classes.

Don't shuffle the evaluation set:

```
[ ]: evaluation_aug = tf.keras.preprocessing.image.ImageDataGenerator(
    rescale=1.0/255
)

evaluation_gen = evaluation_aug.flow_from_directory(
    '/content/' + evaluation_dir,
    target_size=(INPUT_IMG_SIZE, INPUT_IMG_SIZE),
    color_mode="rgb",
    shuffle=False,
    batch_size=BATCH_SIZE,
    class_mode='sparse')
```

Found 3347 images belonging to 11 classes.

1.4 Prepare base model

Now that the data is ready, we need to prepare the model.

First, review the models available as [Keras Applications](#), and decide which model you will use. Make sure to click through from the table to the model documentation, to learn more about each model you are considering.

In the cell that follows, I have used the [VGG16](#) model, but you can change that - you may use any model that you think will have good results.

```
[ ]: # TODO 3 (optional) - design choice on base model

base_model = tf.keras.applications.Xception(
    input_shape=(INPUT_IMG_SIZE, INPUT_IMG_SIZE, 3),
    include_top=False,
    pooling='avg'
)
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/xception/xception_weights_tf_dim_ordering_tf_kernels_notop.h5
83689472/83683744 [=====] - 1s 0us/step

```
[ ]: base_model.summary()
```

Model: "xception"

Layer (type)	Output Shape	Param #	Connected to
<hr/>			
input_1 (InputLayer)	[(None, 224, 224, 3) 0		
<hr/>			
block1_conv1 (Conv2D)	(None, 111, 111, 32) 864		input_1[0] [0]

```
-----  
block1_conv1_bn (BatchNormaliza (None, 111, 111, 32) 128  
block1_conv1[0] [0]  
  
-----  
block1_conv1_act (Activation) (None, 111, 111, 32) 0  
block1_conv1_bn[0] [0]  
  
-----  
block1_conv2 (Conv2D) (None, 109, 109, 64) 18432  
block1_conv1_act[0] [0]  
  
-----  
block1_conv2_bn (BatchNormaliza (None, 109, 109, 64) 256  
block1_conv2[0] [0]  
  
-----  
block1_conv2_act (Activation) (None, 109, 109, 64) 0  
block1_conv2_bn[0] [0]  
  
-----  
block2_sepconv1 (SeparableConv2 (None, 109, 109, 128 8768  
block1_conv2_act[0] [0]  
  
-----  
block2_sepconv1_bn (BatchNormal (None, 109, 109, 128 512  
block2_sepconv1[0] [0]  
  
-----  
block2_sepconv2_act (Activation (None, 109, 109, 128 0  
block2_sepconv1_bn[0] [0]  
  
-----  
block2_sepconv2 (SeparableConv2 (None, 109, 109, 128 17536  
block2_sepconv2_act[0] [0]  
  
-----  
block2_sepconv2_bn (BatchNormal (None, 109, 109, 128 512  
block2_sepconv2[0] [0]  
  
-----  
conv2d (Conv2D) (None, 55, 55, 128) 8192  
block1_conv2_act[0] [0]  
  
-----  
block2_pool (MaxPooling2D) (None, 55, 55, 128) 0  
block2_sepconv2_bn[0] [0]
```

```
-----  
batch_normalization (BatchNorma (None, 55, 55, 128) 512           conv2d[0] [0]  
-----  
add (Add)                  (None, 55, 55, 128) 0  
block2_pool[0] [0]  
batch_normalization[0] [0]  
-----  
block3_sepconv1_act (Activation (None, 55, 55, 128) 0           add[0] [0]  
-----  
block3_sepconv1 (SeparableConv2 (None, 55, 55, 256) 33920  
block3_sepconv1_act[0] [0]  
-----  
block3_sepconv1_bn (BatchNormal (None, 55, 55, 256) 1024  
block3_sepconv1[0] [0]  
-----  
block3_sepconv2_act (Activation (None, 55, 55, 256) 0  
block3_sepconv1_bn[0] [0]  
-----  
block3_sepconv2 (SeparableConv2 (None, 55, 55, 256) 67840  
block3_sepconv2_act[0] [0]  
-----  
block3_sepconv2_bn (BatchNormal (None, 55, 55, 256) 1024  
block3_sepconv2[0] [0]  
-----  
conv2d_1 (Conv2D)          (None, 28, 28, 256) 32768       add[0] [0]  
-----  
block3_pool (MaxPooling2D)   (None, 28, 28, 256) 0  
block3_sepconv2_bn[0] [0]  
-----  
batch_normalization_1 (BatchNor (None, 28, 28, 256) 1024       conv2d_1[0] [0]  
-----  
add_1 (Add)                (None, 28, 28, 256) 0  
block3_pool[0] [0]  
batch_normalization_1[0] [0]  
-----  
-----
```

```
block4_sepconv1_act (Activation (None, 28, 28, 256)  0           add_1[0] [0]
-----
block4_sepconv1 (SeparableConv2 (None, 28, 28, 728)  188672
block4_sepconv1_act[0] [0]
-----
block4_sepconv1_bn (BatchNormal (None, 28, 28, 728)  2912
block4_sepconv1[0] [0]
-----
block4_sepconv2_act (Activation (None, 28, 28, 728)  0
block4_sepconv1_bn[0] [0]
-----
block4_sepconv2 (SeparableConv2 (None, 28, 28, 728)  536536
block4_sepconv2_act[0] [0]
-----
block4_sepconv2_bn (BatchNormal (None, 28, 28, 728)  2912
block4_sepconv2[0] [0]
-----
conv2d_2 (Conv2D)          (None, 14, 14, 728)  186368      add_1[0] [0]
-----
block4_pool (MaxPooling2D)   (None, 14, 14, 728)  0
block4_sepconv2_bn[0] [0]
-----
batch_normalization_2 (BatchNor (None, 14, 14, 728)  2912      conv2d_2[0] [0]
-----
add_2 (Add)                (None, 14, 14, 728)  0
block4_pool[0] [0]
batch_normalization_2[0] [0]
-----
block5_sepconv1_act (Activation (None, 14, 14, 728)  0           add_2[0] [0]
-----
block5_sepconv1 (SeparableConv2 (None, 14, 14, 728)  536536
block5_sepconv1_act[0] [0]
-----
block5_sepconv1_bn (BatchNormal (None, 14, 14, 728)  2912
block5_sepconv1[0] [0]
```

```
-----  
block5_sepconv2_act (Activation (None, 14, 14, 728)  0  
block5_sepconv1_bn[0] [0]  
-----  
-----  
block5_sepconv2 (SeparableConv2 (None, 14, 14, 728)  536536  
block5_sepconv2_act[0] [0]  
-----  
-----  
block5_sepconv2_bn (BatchNormal (None, 14, 14, 728)  2912  
block5_sepconv2[0] [0]  
-----  
-----  
block5_sepconv3_act (Activation (None, 14, 14, 728)  0  
block5_sepconv2_bn[0] [0]  
-----  
-----  
block5_sepconv3 (SeparableConv2 (None, 14, 14, 728)  536536  
block5_sepconv3_act[0] [0]  
-----  
-----  
block5_sepconv3_bn (BatchNormal (None, 14, 14, 728)  2912  
block5_sepconv3[0] [0]  
-----  
-----  
add_3 (Add)                                (None, 14, 14, 728)  0  
block5_sepconv3_bn[0] [0]                      add_2[0] [0]  
-----  
-----  
block6_sepconv1_act (Activation (None, 14, 14, 728)  0           add_3[0] [0]  
-----  
-----  
block6_sepconv1 (SeparableConv2 (None, 14, 14, 728)  536536  
block6_sepconv1_act[0] [0]  
-----  
-----  
block6_sepconv1_bn (BatchNormal (None, 14, 14, 728)  2912  
block6_sepconv1[0] [0]  
-----  
-----  
block6_sepconv2_act (Activation (None, 14, 14, 728)  0  
block6_sepconv1_bn[0] [0]  
-----  
-----  
block6_sepconv2 (SeparableConv2 (None, 14, 14, 728)  536536  
block6_sepconv2_act[0] [0]
```

```
-----  
block6_sepconv2_bn (BatchNormal (None, 14, 14, 728) 2912  
block6_sepconv2[0] [0]  
-----  
-----  
block6_sepconv3_act (Activation (None, 14, 14, 728) 0  
block6_sepconv2_bn[0] [0]  
-----  
-----  
block6_sepconv3 (SeparableConv2 (None, 14, 14, 728) 536536  
block6_sepconv3_act[0] [0]  
-----  
-----  
block6_sepconv3_bn (BatchNormal (None, 14, 14, 728) 2912  
block6_sepconv3[0] [0]  
-----  
-----  
add_4 (Add) (None, 14, 14, 728) 0  
block6_sepconv3_bn[0] [0] add_3[0] [0]  
-----  
-----  
block7_sepconv1_act (Activation (None, 14, 14, 728) 0 add_4[0] [0]  
-----  
-----  
block7_sepconv1 (SeparableConv2 (None, 14, 14, 728) 536536  
block7_sepconv1_act[0] [0]  
-----  
-----  
block7_sepconv1_bn (BatchNormal (None, 14, 14, 728) 2912  
block7_sepconv1[0] [0]  
-----  
-----  
block7_sepconv2_act (Activation (None, 14, 14, 728) 0  
block7_sepconv1_bn[0] [0]  
-----  
-----  
block7_sepconv2 (SeparableConv2 (None, 14, 14, 728) 536536  
block7_sepconv2_act[0] [0]  
-----  
-----  
block7_sepconv2_bn (BatchNormal (None, 14, 14, 728) 2912  
block7_sepconv2[0] [0]  
-----  
-----  
block7_sepconv3_act (Activation (None, 14, 14, 728) 0  
block7_sepconv2_bn[0] [0]  
-----
```

```
-----  
block7_sepconv3 (SeparableConv2 (None, 14, 14, 728) 536536  
block7_sepconv3_act[0] [0]  
-----  
-----  
block7_sepconv3_bn (BatchNormal (None, 14, 14, 728) 2912  
block7_sepconv3[0] [0]  
-----  
-----  
add_5 (Add) (None, 14, 14, 728) 0  
block7_sepconv3_bn[0] [0]  
add_4[0] [0]  
-----  
-----  
block8_sepconv1_act (Activation (None, 14, 14, 728) 0 add_5[0] [0]  
-----  
-----  
block8_sepconv1 (SeparableConv2 (None, 14, 14, 728) 536536  
block8_sepconv1_act[0] [0]  
-----  
-----  
block8_sepconv1_bn (BatchNormal (None, 14, 14, 728) 2912  
block8_sepconv1[0] [0]  
-----  
-----  
block8_sepconv2_act (Activation (None, 14, 14, 728) 0  
block8_sepconv1_bn[0] [0]  
-----  
-----  
block8_sepconv2 (SeparableConv2 (None, 14, 14, 728) 536536  
block8_sepconv2_act[0] [0]  
-----  
-----  
block8_sepconv2_bn (BatchNormal (None, 14, 14, 728) 2912  
block8_sepconv2[0] [0]  
-----  
-----  
block8_sepconv3_act (Activation (None, 14, 14, 728) 0  
block8_sepconv2_bn[0] [0]  
-----  
-----  
block8_sepconv3 (SeparableConv2 (None, 14, 14, 728) 536536  
block8_sepconv3_act[0] [0]  
-----  
-----  
block8_sepconv3_bn (BatchNormal (None, 14, 14, 728) 2912  
block8_sepconv3[0] [0]
```

```
--  
add_6 (Add)           (None, 14, 14, 728)  0  
block8_sepconv3_bn[0] [0]  
                                add_5[0] [0]  
  
--  
block9_sepconv1_act (Activation (None, 14, 14, 728)  0          add_6[0] [0]  
  
--  
block9_sepconv1 (SeparableConv2 (None, 14, 14, 728)  536536  
block9_sepconv1_act[0] [0]  
  
--  
block9_sepconv1_bn (BatchNormal (None, 14, 14, 728)  2912  
block9_sepconv1[0] [0]  
  
--  
block9_sepconv2_act (Activation (None, 14, 14, 728)  0  
block9_sepconv1_bn[0] [0]  
  
--  
block9_sepconv2 (SeparableConv2 (None, 14, 14, 728)  536536  
block9_sepconv2_act[0] [0]  
  
--  
block9_sepconv2_bn (BatchNormal (None, 14, 14, 728)  2912  
block9_sepconv2[0] [0]  
  
--  
block9_sepconv3_act (Activation (None, 14, 14, 728)  0  
block9_sepconv2_bn[0] [0]  
  
--  
block9_sepconv3 (SeparableConv2 (None, 14, 14, 728)  536536  
block9_sepconv3_act[0] [0]  
  
--  
block9_sepconv3_bn (BatchNormal (None, 14, 14, 728)  2912  
block9_sepconv3[0] [0]  
  
--  
add_7 (Add)           (None, 14, 14, 728)  0  
block9_sepconv3_bn[0] [0]  
                                add_6[0] [0]  
  
--  
block10_sepconv1_act (Activatio (None, 14, 14, 728)  0          add_7[0] [0]  
--
```

```
-----  
block10_sepconv1 (SeparableConv (None, 14, 14, 728) 536536  
block10_sepconv1_act[0][0]  
-----  
-----  
block10_sepconv1_bn (BatchNorma (None, 14, 14, 728) 2912  
block10_sepconv1[0][0]  
-----  
-----  
block10_sepconv2_act (Activatio (None, 14, 14, 728) 0  
block10_sepconv1_bn[0][0]  
-----  
-----  
block10_sepconv2 (SeparableConv (None, 14, 14, 728) 536536  
block10_sepconv2_act[0][0]  
-----  
-----  
block10_sepconv2_bn (BatchNorma (None, 14, 14, 728) 2912  
block10_sepconv2[0][0]  
-----  
-----  
block10_sepconv3_act (Activatio (None, 14, 14, 728) 0  
block10_sepconv2_bn[0][0]  
-----  
-----  
block10_sepconv3 (SeparableConv (None, 14, 14, 728) 536536  
block10_sepconv3_act[0][0]  
-----  
-----  
block10_sepconv3_bn (BatchNorma (None, 14, 14, 728) 2912  
block10_sepconv3[0][0]  
-----  
-----  
add_8 (Add) (None, 14, 14, 728) 0  
block10_sepconv3_bn[0][0] add_7[0][0]  
-----  
-----  
block11_sepconv1_act (Activatio (None, 14, 14, 728) 0 add_8[0][0]  
-----  
-----  
block11_sepconv1 (SeparableConv (None, 14, 14, 728) 536536  
block11_sepconv1_act[0][0]  
-----  
-----  
block11_sepconv1_bn (BatchNorma (None, 14, 14, 728) 2912  
block11_sepconv1[0][0]
```

```
-----  
block11_sepconv2_act (Activatio (None, 14, 14, 728)  0  
block11_sepconv1_bn[0] [0]  
-----  
-----  
block11_sepconv2 (SeparableConv (None, 14, 14, 728)  536536  
block11_sepconv2_act[0] [0]  
-----  
-----  
block11_sepconv2_bn (BatchNorma (None, 14, 14, 728)  2912  
block11_sepconv2[0] [0]  
-----  
-----  
block11_sepconv3_act (Activatio (None, 14, 14, 728)  0  
block11_sepconv2_bn[0] [0]  
-----  
-----  
block11_sepconv3 (SeparableConv (None, 14, 14, 728)  536536  
block11_sepconv3_act[0] [0]  
-----  
-----  
block11_sepconv3_bn (BatchNorma (None, 14, 14, 728)  2912  
block11_sepconv3[0] [0]  
-----  
-----  
add_9 (Add)                                (None, 14, 14, 728)  0  
block11_sepconv3_bn[0] [0]                      add_8[0] [0]  
-----  
-----  
block12_sepconv1_act (Activatio (None, 14, 14, 728)  0           add_9[0] [0]  
-----  
-----  
block12_sepconv1 (SeparableConv (None, 14, 14, 728)  536536  
block12_sepconv1_act[0] [0]  
-----  
-----  
block12_sepconv1_bn (BatchNorma (None, 14, 14, 728)  2912  
block12_sepconv1[0] [0]  
-----  
-----  
block12_sepconv2_act (Activatio (None, 14, 14, 728)  0  
block12_sepconv1_bn[0] [0]  
-----  
-----  
block12_sepconv2 (SeparableConv (None, 14, 14, 728)  536536  
block12_sepconv2_act[0] [0]  
-----
```

```
-----  
block12_sepconv2_bn (BatchNorma (None, 14, 14, 728) 2912  
block12_sepconv2[0] [0]  
-----  
-----  
block12_sepconv3_act (Activatio (None, 14, 14, 728) 0  
block12_sepconv2_bn[0] [0]  
-----  
-----  
block12_sepconv3 (SeparableConv (None, 14, 14, 728) 536536  
block12_sepconv3_act[0] [0]  
-----  
-----  
block12_sepconv3_bn (BatchNorma (None, 14, 14, 728) 2912  
block12_sepconv3[0] [0]  
-----  
-----  
add_10 (Add) (None, 14, 14, 728) 0  
block12_sepconv3_bn[0] [0] add_9[0] [0]  
-----  
-----  
block13_sepconv1_act (Activatio (None, 14, 14, 728) 0 add_10[0] [0]  
-----  
-----  
block13_sepconv1 (SeparableConv (None, 14, 14, 728) 536536  
block13_sepconv1_act[0] [0]  
-----  
-----  
block13_sepconv1_bn (BatchNorma (None, 14, 14, 728) 2912  
block13_sepconv1[0] [0]  
-----  
-----  
block13_sepconv2_act (Activatio (None, 14, 14, 728) 0  
block13_sepconv1_bn[0] [0]  
-----  
-----  
block13_sepconv2 (SeparableConv (None, 14, 14, 1024) 752024  
block13_sepconv2_act[0] [0]  
-----  
-----  
block13_sepconv2_bn (BatchNorma (None, 14, 14, 1024) 4096  
block13_sepconv2[0] [0]  
-----  
-----  
conv2d_3 (Conv2D) (None, 7, 7, 1024) 745472 add_10[0] [0]  
-----
```

```
block13_pool (MaxPooling2D)      (None, 7, 7, 1024)  0
block13_sepconv2_bn[0] [0]

-----
batch_normalization_3 (BatchNor (None, 7, 7, 1024)  4096      conv2d_3[0] [0]
-----

add_11 (Add)                  (None, 7, 7, 1024)  0
block13_pool[0] [0]
batch_normalization_3[0] [0]
-----

block14_sepconv1 (SeparableConv (None, 7, 7, 1536) 1582080    add_11[0] [0]
-----

block14_sepconv1_bn (BatchNorma (None, 7, 7, 1536) 6144
block14_sepconv1[0] [0]
-----

block14_sepconv1_act (Activatio (None, 7, 7, 1536) 0
block14_sepconv1_bn[0] [0]
-----

block14_sepconv2 (SeparableConv (None, 7, 7, 2048) 3159552
block14_sepconv1_act[0] [0]
-----

block14_sepconv2_bn (BatchNorma (None, 7, 7, 2048) 8192
block14_sepconv2[0] [0]
-----

block14_sepconv2_act (Activatio (None, 7, 7, 2048) 0
block14_sepconv2_bn[0] [0]
=====

=====
Total params: 20,861,480
Trainable params: 20,806,952
Non-trainable params: 54,528
=====
```

1.5 Train model with new classification head

In the following cell, "freeze" your base model (set it so that it is not trainable), and then construct a new model using the frozen base model with a new classification head. (You can add a dropout layer in between if you think it will be helpful.)

(You can refer to this week's demo notebook for an example.)

```
[ ]: # TODO 4 (required) - prepare model with new classification head
```

```
model = tf.keras.models.Sequential()  
# add to your model here...  
model.add(base_model)  
model.add(tf.keras.layers.Dropout(0.5))  
model.add(tf.keras.layers.Dense(  
    units=11,  
    activation=tf.keras.activations.softmax  
))  
  
base_model.trainable = False
```

Then, print a model summary:

```
[ ]: model.summary()
```

```
Model: "sequential"  
-----  
Layer (type)          Output Shape         Param #  
=====  
xception (Functional) (None, 2048)        20861480  
-----  
dropout (Dropout)     (None, 2048)          0  
-----  
dense (Dense)         (None, 11)           22539  
-----  
Total params: 20,884,019  
Trainable params: 22,539  
Non-trainable params: 20,861,480  
-----
```

(Make sure that most parameters are "non-trainable", because you have frozen the base model!) Compile your model with an appropriate optimizer and loss function, and use accuracy as a metric.

```
[ ]: # TODO 5 (required) - design training parameters, and compile
```

```
opt = tf.keras.optimizers.Adam(learning_rate=0.001)  
  
model.compile(  
    optimizer=opt,  
    loss=tf.keras.losses.sparse_categorical_crossentropy,  
    metrics=['accuracy'])
```

```
)
```

Finally, fit your model with the new classification head for as many epochs as you think is appropriate. You may also use early stopping if you think it will be helpful.

Pass the validation data generator as `validation_data`.

(You can refer to this week's demo notebook for an example.)

```
[ ]: # TODO 6 (required) - fit model, you decide how many epochs
# note: you can get the number of training samples with training_gen.n
# and the number of validation samples with validation_gen.n
es = tf.keras.callbacks.EarlyStopping(monitor='val_accuracy', mode='max',
                                       patience=5, restore_best_weights=True )
n_epochs = 20

hist = model.fit(
    training_gen,
    epochs=n_epochs,
    # steps_per_epoch=X_train.shape[0]//BATCH_SIZE,
    validation_data=validation_gen,
    # validation_steps=X_test.shape[0]//BATCH_SIZE
    callbacks=[es]
)
```

```
Epoch 1/20
309/309 [=====] - 209s 570ms/step - loss: 0.9877 -
accuracy: 0.6768 - val_loss: 0.6787 - val_accuracy: 0.7802
Epoch 2/20
309/309 [=====] - 175s 567ms/step - loss: 0.6800 -
accuracy: 0.7746 - val_loss: 0.6020 - val_accuracy: 0.8076
Epoch 3/20
309/309 [=====] - 178s 575ms/step - loss: 0.6220 -
accuracy: 0.7943 - val_loss: 0.5754 - val_accuracy: 0.8117
Epoch 4/20
309/309 [=====] - 175s 565ms/step - loss: 0.5949 -
accuracy: 0.8020 - val_loss: 0.5707 - val_accuracy: 0.8134
Epoch 5/20
309/309 [=====] - 175s 568ms/step - loss: 0.5693 -
accuracy: 0.8089 - val_loss: 0.5712 - val_accuracy: 0.8143
Epoch 6/20
309/309 [=====] - 173s 561ms/step - loss: 0.5593 -
accuracy: 0.8110 - val_loss: 0.5616 - val_accuracy: 0.8169
Epoch 7/20
309/309 [=====] - 174s 563ms/step - loss: 0.5560 -
accuracy: 0.8140 - val_loss: 0.5453 - val_accuracy: 0.8239
Epoch 8/20
309/309 [=====] - 172s 556ms/step - loss: 0.5509 -
accuracy: 0.8150 - val_loss: 0.5576 - val_accuracy: 0.8198
Epoch 9/20
309/309 [=====] - 175s 566ms/step - loss: 0.5441 -
```

```

accuracy: 0.8179 - val_loss: 0.5374 - val_accuracy: 0.8286
Epoch 10/20
309/309 [=====] - 172s 557ms/step - loss: 0.5416 -
accuracy: 0.8175 - val_loss: 0.5355 - val_accuracy: 0.8259
Epoch 11/20
309/309 [=====] - 172s 557ms/step - loss: 0.5323 -
accuracy: 0.8173 - val_loss: 0.5509 - val_accuracy: 0.8187
Epoch 12/20
309/309 [=====] - 172s 555ms/step - loss: 0.5111 -
accuracy: 0.8328 - val_loss: 0.5414 - val_accuracy: 0.8254
Epoch 13/20
309/309 [=====] - 170s 549ms/step - loss: 0.5278 -
accuracy: 0.8215 - val_loss: 0.5481 - val_accuracy: 0.8222
Epoch 14/20
309/309 [=====] - 172s 556ms/step - loss: 0.5285 -
accuracy: 0.8232 - val_loss: 0.5491 - val_accuracy: 0.8198

```

Plot the training history. In one subplot, show loss vs. epoch for the training and validation sets on the same plot. In the second subplot, show accuracy vs. epoch for the training and validation sets on the same plot.

Make sure you show the training history from the *beginning* of training. (If you re-run the `hist = fit(...)` command, you'll overwrite the previous history and lose the training history from the beginning, so be careful not to do that in your final submission!)

```
[ ]: # TODO 7 (required) - plot training history
loss = hist.history['loss']
val_loss = hist.history['val_loss']

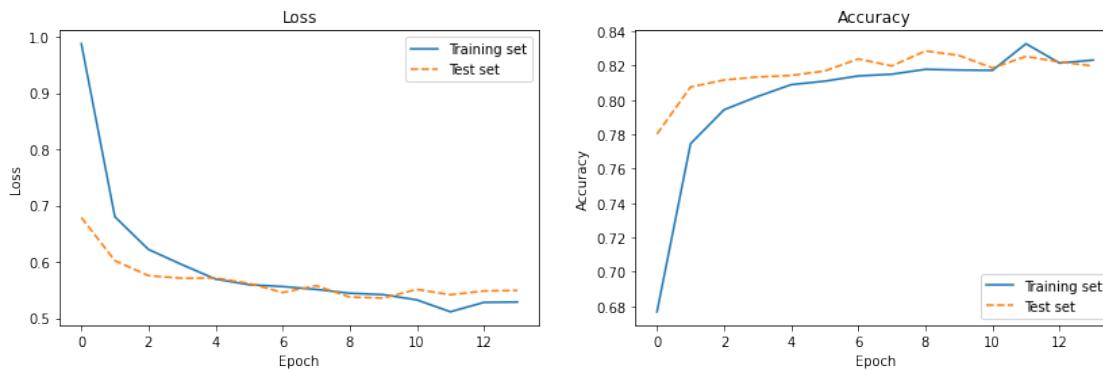
accuracy = hist.history['accuracy']
val_accuracy = hist.history['val_accuracy']

plt.figure(figsize=(14, 4))

plt.subplot(1, 2, 1)
plt.title('Loss')
plt.xlabel('Epoch')
plt.ylabel('Loss')
plt.plot(loss, label='Training set')
plt.plot(val_loss, label='Test set', linestyle='--')
plt.legend()

plt.subplot(1, 2, 2)
plt.title('Accuracy')
plt.xlabel('Epoch')
plt.ylabel('Accuracy')
plt.plot(accuracy, label='Training set')
plt.plot(val_accuracy, label='Test set', linestyle='--')
plt.legend()
```

```
plt.show()
```



1.6 Fine-tune model

Next, we are going to "un-freeze" the later layers of the model, and train it for a few more epochs on our data (with a smaller learning rate), so that it is better suited for our specific classification task.

Note that you should *not* create a new model. We're just going to continue training the model we already started training.

First, we will un-freeze the base model:

```
[ ]: base_model.trainable = True
```

Then, we will re-freeze only the first layers of the base model. In the cell below, I have left the last five layers, which includes the last set of convolutional filters, unfrozen. But you are free to change this number if you think you will get better performance.

```
[ ]: # TODO 8 (optional) - you can decide how many layers to unfreeze
```

```
for layer in base_model.layers[:-5]:  
    layer.trainable = False
```

The output of the following cell will indicate which layers in the base model are trainable, and which are not:

```
[ ]: for layer in base_model.layers:  
    print("{}: {}".format(layer, layer.trainable))
```

```
<tensorflow.python.keras.engine.input_layer.InputLayer object at  
0x7f0d9246d450>: False  
<tensorflow.python.keras.layers.convolutional.Conv2D object at 0x7f0d8a908e10>:  
False  
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at  
0x7f0d8adce3d0>: False  
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d8a92d590>: False
```

```
<tensorflow.python.keras.layers.convolutional.Conv2D object at 0x7f0d8a90b750>:  
False  
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0x7f0d891c8490>: False  
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False  
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False  
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```

```
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False  
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False  
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```

```
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```

```
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<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d3e328f90>: False
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d3e2b7450>: False
<tensorflow.python.keras.layers.convolutional.SeparableConv2D object at
0x7f0d3e2b78d0>: False
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d3e2ba690>: False
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d3e2c5610>: False
<tensorflow.python.keras.layers.convolutional.SeparableConv2D object at
0x7f0d3e2baad0>: False
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d3e2d1510>: False
<tensorflow.python.keras.layers.merge.Add object at 0x7f0d3e2d8490>: False
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d8a939310>: False
<tensorflow.python.keras.layers.convolutional.SeparableConv2D object at
0x7f0d3e328150>: False
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d3e309310>: False
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d800533d0>: False
<tensorflow.python.keras.layers.convolutional.SeparableConv2D object at
0x7f0d80043110>: False
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
```

```
0x7f0d3e2c55d0>: False
<tensorflow.python.keras.layers.convolutional.Conv2D object at 0x7f0d3e2d1950>:
False
<tensorflow.python.keras.layers.pooling.MaxPooling2D object at 0x7f0d8911d710>:
False
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d3e3314d0>: False
<tensorflow.python.keras.layers.merge.Add object at 0x7f0d800b3ed0>: False
<tensorflow.python.keras.layers.convolutional.SeparableConv2D object at
0x7f0d8003de10>: False
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d8007f250>: False
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d3e2d8b50>: True
<tensorflow.python.keras.layers.convolutional.SeparableConv2D object at
0x7f0d80043d90>: True
<tensorflow.python.keras.layers.normalization_v2.BatchNormalization object at
0x7f0d3e2ea590>: True
<tensorflow.python.keras.layers.core.Activation object at 0x7f0d3e2f3510>: True
<tensorflow.python.keras.layers.pooling.GlobalAveragePooling2D object at
0x7f0d3e2f3390>: True
```

Also, the model summary should now show more trainable parameters:

```
[ ]: model.summary()
```

```
Model: "sequential"
-----
Layer (type)          Output Shape         Param #
=====
xception (Functional)    (None, 2048)      20861480
-----
dropout (Dropout)        (None, 2048)       0
-----
dense (Dense)           (None, 11)        22539
=====
Total params: 20,884,019
Trainable params: 3,186,187
Non-trainable params: 17,697,832
```

Re-compile your model. Don't forget to use a smaller learning rate for fine-tuning! We don't want to make major changes to the last feature extraction layers, we just want to adjust them a little bit.

```
[ ]: # TODO 9 (required) - re-compile model
# use a smaller learning rate for fine-tuning

opt = tf.keras.optimizers.Adam(learning_rate=0.00001)
model.compile(
    optimizer = opt,
```

```

        loss=tf.keras.losses.sparse_categorical_crossentropy,
        metrics=['accuracy']
)

```

Fit your model (with some newly unfrozen layers) for some more epochs.

```
[ ]: # TODO 10 (required) - fit model, you decide how many epochs
# note: you can get the number of training samples with training_gen.n
# and the number of validation samples with validation_gen.n

n_epochs_fine = 20

hist_fine = model.fit(
    training_gen,
    epochs=n_epochs + n_epochs_fine,
    initial_epoch=n_epochs,
    steps_per_epoch=training_gen.shape[0]//BATCH_SIZE,
    validation_data=validation_gen,
    validation_steps=validation_gen.shape[0]//BATCH_SIZE
)
```

```

Epoch 21/40
309/309 [=====] - 177s 561ms/step - loss: 0.5939 -
accuracy: 0.8050 - val_loss: 0.5440 - val_accuracy: 0.8271
Epoch 22/40
309/309 [=====] - 177s 572ms/step - loss: 0.5451 -
accuracy: 0.8209 - val_loss: 0.5369 - val_accuracy: 0.8306
Epoch 23/40
309/309 [=====] - 174s 563ms/step - loss: 0.5231 -
accuracy: 0.8278 - val_loss: 0.5286 - val_accuracy: 0.8324
Epoch 24/40
309/309 [=====] - 176s 570ms/step - loss: 0.5071 -
accuracy: 0.8343 - val_loss: 0.5233 - val_accuracy: 0.8324
Epoch 25/40
309/309 [=====] - 175s 567ms/step - loss: 0.5066 -
accuracy: 0.8334 - val_loss: 0.5188 - val_accuracy: 0.8327
Epoch 26/40
309/309 [=====] - 175s 567ms/step - loss: 0.4984 -
accuracy: 0.8355 - val_loss: 0.5148 - val_accuracy: 0.8332
Epoch 27/40
309/309 [=====] - 175s 567ms/step - loss: 0.4884 -
accuracy: 0.8395 - val_loss: 0.5103 - val_accuracy: 0.8341
Epoch 28/40
309/309 [=====] - 175s 567ms/step - loss: 0.4806 -
accuracy: 0.8394 - val_loss: 0.5066 - val_accuracy: 0.8356
Epoch 29/40
309/309 [=====] - 174s 564ms/step - loss: 0.4703 -
accuracy: 0.8424 - val_loss: 0.5035 - val_accuracy: 0.8359
Epoch 30/40

```

```

309/309 [=====] - 176s 569ms/step - loss: 0.4653 -
accuracy: 0.8450 - val_loss: 0.5009 - val_accuracy: 0.8353
Epoch 31/40
309/309 [=====] - 176s 569ms/step - loss: 0.4513 -
accuracy: 0.8539 - val_loss: 0.4976 - val_accuracy: 0.8367
Epoch 32/40
309/309 [=====] - 178s 575ms/step - loss: 0.4478 -
accuracy: 0.8530 - val_loss: 0.4948 - val_accuracy: 0.8356
Epoch 33/40
309/309 [=====] - 179s 580ms/step - loss: 0.4400 -
accuracy: 0.8560 - val_loss: 0.4927 - val_accuracy: 0.8356
Epoch 34/40
309/309 [=====] - 178s 577ms/step - loss: 0.4379 -
accuracy: 0.8576 - val_loss: 0.4908 - val_accuracy: 0.8376
Epoch 35/40
309/309 [=====] - 180s 581ms/step - loss: 0.4353 -
accuracy: 0.8540 - val_loss: 0.4886 - val_accuracy: 0.8376
Epoch 36/40
309/309 [=====] - 178s 576ms/step - loss: 0.4140 -
accuracy: 0.8611 - val_loss: 0.4872 - val_accuracy: 0.8382
Epoch 37/40
309/309 [=====] - 178s 577ms/step - loss: 0.4262 -
accuracy: 0.8569 - val_loss: 0.4838 - val_accuracy: 0.8402
Epoch 38/40
309/309 [=====] - 175s 566ms/step - loss: 0.4176 -
accuracy: 0.8601 - val_loss: 0.4823 - val_accuracy: 0.8405
Epoch 39/40
309/309 [=====] - 177s 574ms/step - loss: 0.4151 -
accuracy: 0.8591 - val_loss: 0.4811 - val_accuracy: 0.8408
Epoch 40/40
309/309 [=====] - 175s 566ms/step - loss: 0.4090 -
accuracy: 0.8618 - val_loss: 0.4792 - val_accuracy: 0.8417

```

Plot the complete training history. In one subplot, show loss vs. epoch for the training and validation sets on the same plot. In the second subplot, show accuracy vs. epoch for the training and validation sets on the same plot. Draw a vertical line demarcating the first stage of training (training the classification head) and the second stage of training (fine tuning).

(You can refer to this week's demo notebook for an example.)

Make sure you show the training history from the *beginning* of training. (If you re-run the `hist_fine = fit(...)` command, you'll overwrite the previous history and lose the training history from the beginning, so be careful not to do that in your final submission!)

```
[ ]: # TODO 11 (required) - plot training history
loss = hist.history['loss'] + hist_fine.history['loss']
val_loss = hist.history['val_loss'] + hist_fine.history['val_loss']

accuracy = hist.history['accuracy'] + hist_fine.history['accuracy']
val_accuracy = hist.history['val_accuracy'] + hist_fine.history['val_accuracy']
```

```

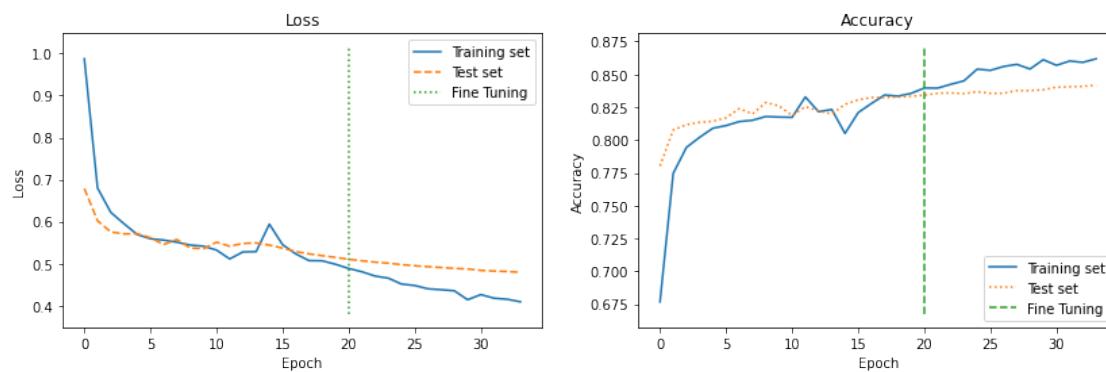
plt.figure(figsize=(14, 4))

plt.subplot(1, 2, 1)
plt.title('Loss')
plt.xlabel('Epoch')
plt.ylabel('Loss')
plt.plot(loss, label='Training set')
plt.plot(val_loss, label='Test set', linestyle='--')
plt.plot([n_epochs, n_epochs], plt.ylim(), label='Fine Tuning', linestyle='dotted')
plt.legend()

plt.subplot(1, 2, 2)
plt.title('Accuracy')
plt.xlabel('Epoch')
plt.ylabel('Accuracy')
plt.plot(accuracy, label='Training set')
plt.plot(val_accuracy, label='Test set', linestyle='dotted')
plt.plot([n_epochs, n_epochs], plt.ylim(), label='Fine Tuning', linestyle='--')
plt.legend()

plt.show()

```



1.7 Evaluate model performance

Once you have finished training your model, use `evaluate` to get the model performance - loss and accuracy - on the evaluation set. (You should not use the evaluation set at all prior to this step.)

```
[ ]: from keras.callbacks import CSVLogger

csv_logger = CSVLogger('training.log', separator=',', append=False)
model.fit(X_train, Y_train, callbacks=[csv_logger])
```

```
NameError                                 Traceback (most recent call last)
↳last)

<ipython-input-47-12648bb77f60> in <module>()
      2
      3 csv_logger = CSVLogger('training.log', separator=',', append=False)
----> 4 model.fit(X_train, Y_train, callbacks=[csv_logger])

NameError: name 'X_train' is not defined
```

```
[ ]: model.evaluate(evaluation_gen)
```

105/105 [=====] - 25s 234ms/step - loss: 0.3984 -
accuracy: 0.8727

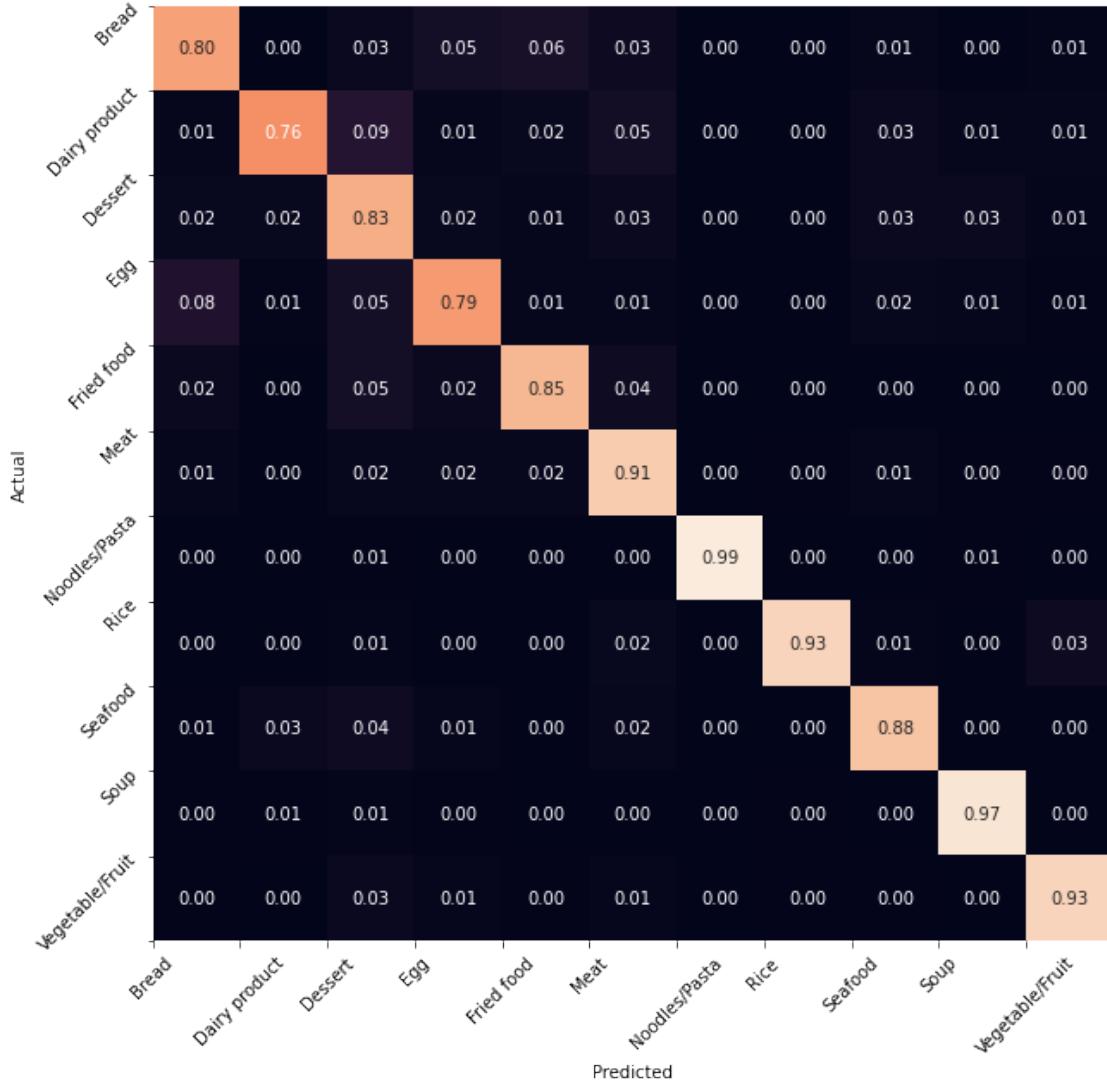
```
[]: [0.3983507454395294, 0.8727218508720398]
```

We can also create a confusion matrix, to see which classes are most often confused with one another.

```
[ ]: y_pred_prob = model.predict(evaluation_gen)
      y_pred = np.argmax(y_pred_prob, axis=1)
```

```
[ ]: cm = pd.crosstab(evaluation_gen.classes, y_pred,
                      rownames=['Actual'], colnames=['Predicted'],
                      normalize='index')

p = plt.figure(figsize=(10,10));
p = sns.heatmap(cm, annot=True, fmt=".2f", cbar=False);
p = plt.xticks(ticks=np.arange(0,11+1), labels=classes, rotation=45)
p = plt.yticks(ticks=np.arange(0,11+1), labels=classes, rotation=45)
```



1.8 Use model on your own custom image

Take your own photograph of a food item in one of the 11 classes. Upload it to Colab, load it as a numpy array, and process the image (resize it, and scale so that each pixel takes on a value from 0 to 1).

Then, use the fitted model to get the per-class probabilities for each class.

Plot your image, and a bar plot showing the probability for the 5 most likely classes according to the model.

(You can refer to the "Classify with MobileNetV2" section of this week's notebook for an example.)

[]: # TODO 12 (required) - show example of model use in "production"

```
[ ]: from google.colab import files  
  
uploaded = files.upload()  
  
for fn in uploaded.keys():  
    print('User uploaded file "{name}" with length {length} bytes'.format(  
        name=fn, length=len(uploaded[fn])))
```

```
<IPython.core.display.HTML object>
```

```
Saving chicken.png to chicken.png  
User uploaded file "chicken.png" with length 2749673 bytes
```

```
[ ]: from PIL import Image  
  
# Edit the filename here as needed  
filename = 'chicken.png'  
  
# pre-process image  
image = Image.open(filename).convert('RGB')  
image_resized = image.resize((INPUT_IMG_SIZE, INPUT_IMG_SIZE), Image.BICUBIC)  
test_sample = np.array(image_resized)/255.0  
test_sample = test_sample.reshape(1, INPUT_IMG_SIZE, INPUT_IMG_SIZE, 3)
```

```
[ ]: INPUT_IMG_SHAPE = (224, 224, 3)  
base_model = tf.keras.applications.MobileNetV2(  
    input_shape=INPUT_IMG_SHAPE  
)
```

```
Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/mobilenet_v2/mobilenet_v2_weights_tf_dim_ordering_tf_kernels_1.0_224.h5  
14540800/14536120 [=====] - 0s 0us/step
```

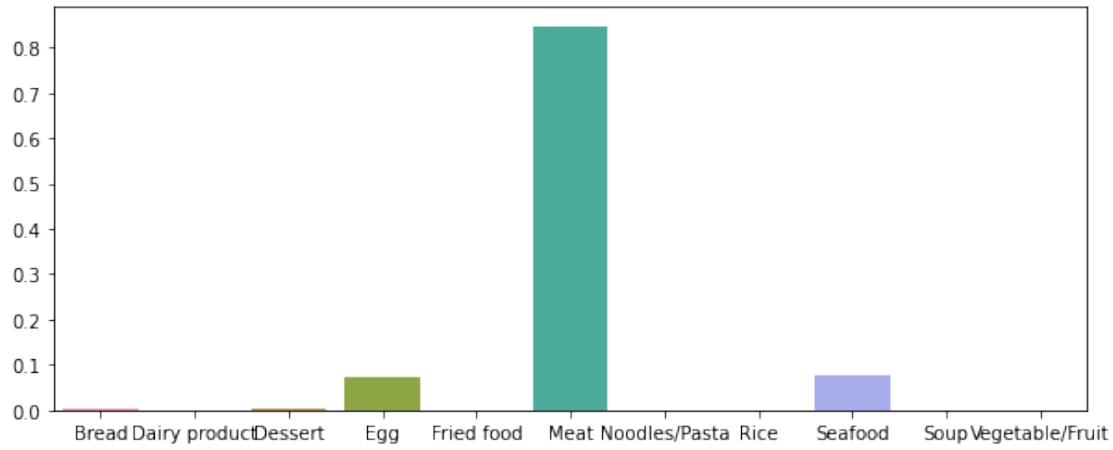
```
[ ]: base_probs = model.predict(test_sample)  
base_probs.shape
```

```
[ ]: (1, 11)
```

```
[ ]: classes
```

```
[ ]: array(['Bread', 'Dairy product', 'Dessert', 'Egg', 'Fried food', 'Meat',  
         'Noodles/Pasta', 'Rice', 'Seafood', 'Soup', 'Vegetable/Fruit'],  
         dtype='<U15')
```

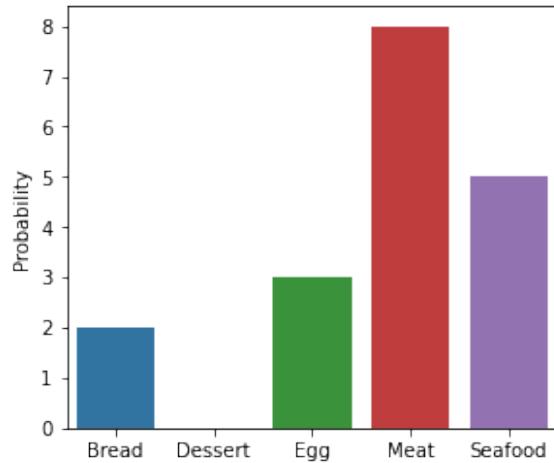
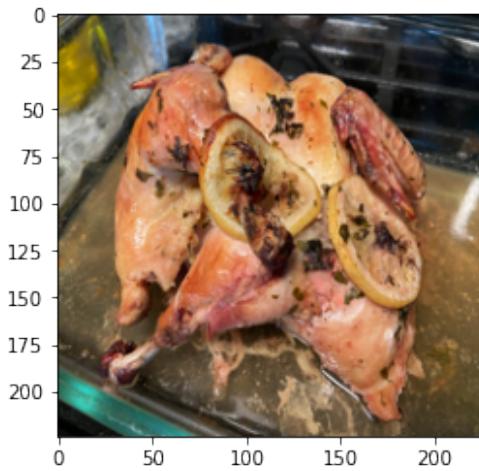
```
[ ]: plt.figure(figsize=(10,4));  
sns.barplot(x=classes,y=base_probs.squeeze());  
plotdt = np.array(['Bread', 'Dessert', 'Egg', 'Meat', 'Seafood'])
```



```
[ ]: plt.figure(figsize=(10,4));

plt.subplot(1,2,1)
plt.imshow(test_sample.reshape(INPUT_IMG_SIZE, INPUT_IMG_SIZE, 3));

plt.subplot(1,2,2)
p = sns.barplot(x=plotdt,y=np.argsort(base_probs.squeeze())[-5:]);
plt.ylabel("Probability");
```



1.9 Describe your model - TODO 13 (required)

In the following cell, describe your final model and your results, by answering the following questions.

- What base model did you use? How many parameters does this base model have?

I used Xception as my base model because it's got the highest accuracy on both top 1 and top 5 accuracy. It has 22,910,480 parameters.

- **Describe the specific transformations you used to create an augmented data set.**

Rescale every photo so that each pixel is in 0-1 range by 1/255. Image rotation range by 1. Zoom range by 0.1. Wide shift range by 0.1 and height shift range also by 0.1. Shear range by 0.1. Also the horizontal flip is enabled.

When the images are pulled from the directory by generator, they are also resized into (244, 244). Color mode adjusted to RGB and shuffle is enabled.

- **For how many epochs did you train your classification head, and with what optimizer, learning rate, and batch size? What was the validation accuracy at the end of this training stage?**

I used 20 epochs to train the classification head, with Adam optimizer, 0.001 learning rate and 13 batch size. At the end of this training stage, the accuracy was 0.8198.

- **Which layers did you un-freeze for fine-tuning, how many epochs did you fine-tune for, and what optimizer, learning rate, and batch size did you use for fine-tuning? What was the validation accuracy at the end of this training stage?**

I unfreeze only last 5 layers which includes the last set of convolutional filters. I also did another 20 epochs based off the classification head training, so that's total of 40 epochs trained after fine-tune. I still used Adam optimizer but with a much smaller learning rate, 0.00001. And the same batch size as the above for fine-tuning. The validation accuracy at the end of this training stage is

- **What was your final accuracy on the evaluation set?**

My final accuracy on the evaluation set is 0.8727

- **Did your model correctly predict the class of your custom test image?**

Yes. It correctly predicted that my custom test image is meat.