

▼ 분류

```
%tensorflow_version 1.x
```

▼ 데이터 준비

인식에 사용할 데이터 다운로드.

```
!rm -rf imagenet  
!mkdir imagenet
```

버섯

```
!wget -O imagenet/mushroom1.jpg http://farm4.static.flickr.com/3023/2822584107_186167ff68.jpg  
!wget -O imagenet/mushroom2.jpg http://farm3.static.flickr.com/2416/1593642808_efcef6c9c2.jpg  
!wget -O imagenet/mushroom3.jpg http://farm4.static.flickr.com/3003/2536991564_5f9b2f5b53.jpg
```

강아지

```
!wget -O imagenet/dog1.jpg http://farm1.static.flickr.com/58/160964915_d708f48d0d.jpg  
!wget -O imagenet/dog2.jpg http://farm1.static.flickr.com/51/144906086_049df05364.jpg  
!wget -O imagenet/dog3.jpg http://farm3.static.flickr.com/2133/2236535445_ca650757f2.jpg
```

고양이

```
!wget -O imagenet/cat1.jpg http://farm1.static.flickr.com/131/393656824_bd89c512d0.jpg  
!wget -O imagenet/cat2.jpg http://farm1.static.flickr.com/213/505539125_d7193beb76.jpg  
!wget -O imagenet/cat3.jpg http://farm1.static.flickr.com/24/63785988_c16c10b4e5.jpg
```



2020.6.23.

VGG16_classification_and_cumtom_data_training.ipynb - Colaboratory

--2020-06-23 04:48:14-- https://farm3.static.flickr.com/2133/2236535445_ca650757f2.jpg
Connecting to farm3.static.flickr.com (farm3.static.flickr.com)|13.226.180.96|:443... connect
HTTP request sent, awaiting response... 200 OK
Length: unspecified [image/jpeg]
Saving to: 'imagenet/dog3.jpg'

imagenet/dog3.jpg [<=>] 68.63K --.-KB/s in 0.06s

2020-06-23 04:48:14 (1.09 MB/s) - 'imagenet/dog3.jpg' saved [70282]

--2020-06-23 04:48:17-- http://farm1.static.flickr.com/131/393656824_bd89c512d0.jpg
Resolving farm1.static.flickr.com (farm1.static.flickr.com)... 13.226.180.96, 2600:9000:2031:
Connecting to farm1.static.flickr.com (farm1.static.flickr.com)|13.226.180.96|:80... connecte
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://farm1.static.flickr.com/131/393656824_bd89c512d0.jpg [following]
--2020-06-23 04:48:17-- https://farm1.static.flickr.com/131/393656824_bd89c512d0.jpg
Connecting to farm1.static.flickr.com (farm1.static.flickr.com)|13.226.180.96|:443... connect
HTTP request sent, awaiting response... 200 OK
Length: unspecified [image/jpeg]
Saving to: 'imagenet/cat1.jpg'

imagenet/cat1.jpg [<=>] 39.60K --.-KB/s in 0.03s

2020-06-23 04:48:17 (1.18 MB/s) - 'imagenet/cat1.jpg' saved [40552]

--2020-06-23 04:48:20-- http://farm1.static.flickr.com/213/505539125_d7193beb76.jpg
Resolving farm1.static.flickr.com (farm1.static.flickr.com)... 13.226.180.96, 2600:9000:2164:
Connecting to farm1.static.flickr.com (farm1.static.flickr.com)|13.226.180.96|:80... connecte
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://farm1.static.flickr.com/213/505539125_d7193beb76.jpg [following]
--2020-06-23 04:48:20-- https://farm1.static.flickr.com/213/505539125_d7193beb76.jpg
Connecting to farm1.static.flickr.com (farm1.static.flickr.com)|13.226.180.96|:443... connect
HTTP request sent, awaiting response... 200 OK
Length: unspecified [image/jpeg]
Saving to: 'imagenet/cat2.jpg'

imagenet/cat2.jpg [<=>] 51.83K --.-KB/s in 0.04s

2020-06-23 04:48:20 (1.26 MB/s) - 'imagenet/cat2.jpg' saved [53076]

--2020-06-23 04:48:22-- http://farm1.static.flickr.com/24/63785988_c16c10b4e5.jpg
Resolving farm1.static.flickr.com (farm1.static.flickr.com)... 13.226.180.96, 2600:9000:2164:
Connecting to farm1.static.flickr.com (farm1.static.flickr.com)|13.226.180.96|:80... connecte
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://farm1.static.flickr.com/24/63785988_c16c10b4e5.jpg [following]
--2020-06-23 04:48:22-- https://farm1.static.flickr.com/24/63785988_c16c10b4e5.jpg
Connecting to farm1.static.flickr.com (farm1.static.flickr.com)|13.226.180.96|:443... connect
HTTP request sent, awaiting response... 200 OK
Length: unspecified [image/jpeg]
Saving to: 'imagenet/cat3.jpg'

imagenet/cat3.jpg [<=>] 66.30K --.-KB/s in 0.06s

2020-06-23 04:48:23 (1.08 MB/s) - 'imagenet/cat3.jpg' saved [67891]

▼ 예측 위한 함수 선언

```

from tensorflow.keras.preprocessing.image import load_img
from tensorflow.keras.preprocessing.image import img_to_array
from tensorflow.keras.applications import vgg16
import numpy as np
import matplotlib.pyplot as plt

def predict_vgg16(model, filename) :

    # 모델 사이즈로 이미지 파일을 읽기
    image = load_img(filename, target_size=(224, 224))
    # image = PIL.Image.Image mode=RGB size=224x224

    # 이미지 데이터를 numpy로 변환
    image = img_to_array(image)
    # [
    #   [[211. 184. 163.]
    #   [225. 193. 170.]
    #   ...
    #   [237. 202. 180.]]
    #   ...
    # ]
    #
    # image.shape = (224, 224, 3)

    # 화면에 이미지 보여주기
    plt.imshow(image.astype(int))
    plt.show()

    # vgg16.preprocess_input()을 호출하기 위해 차원을 조정
    # 보통 모델을 여러 이미지를 한번에 호출.
    # 맨 앞의 1 : 이미지 갯수가 1개라는 것.
    # 두번째 224 : 가로
    # 세번째 224 : 세로
    # 네번째 3 : R, G, B 3개
    image = image.reshape((1, 224, 224, 3))

    # VGG16 모델 호출을 위해 데이터 전처리.
    # -255 ~ 255 사이 값으로 정규화한다.
    # 그리고 RGB를 BGR순으로 바꾼다.
    image = vgg16.preprocess_input(image)

    # 이미지를 모델에 적용
    yhat = model.predict(image)
    # yhat = [[2.03485320e-06 4.21382174e-06 1.45730738e-07 1.04057870e-06
    #          6.61934010e-08 2.63145339e-04 4.49358195e-05 2.03222541e-08
    #          ... ]] # 1000개 클래스에 대한 결과값.
    #

```

```
# 모델 적용된 결과를 파싱  
label = vgg16.decode_predictions(yhat)  
# label = [[('n02655020', 'puffer', 0.9612253), ... ]]  
  
# 가장 확률이 높은 결과를 획득  
label = label[0][0]  
# label = ('n02655020', 'puffer', 0.9612253)  
  
# 라벨과 라벨을 예측한 확률을 출력  
print('%s (%.2f%)' % (label[1], label[2]*100))
```

▼ 분류 실행

```
from tensorflow.keras.applications import vgg16  
  
# VGG16 모델 불러오기  
model = vgg16.VGG16()  
  
# 모델의 모양을 보여준다.  
model.summary()  
  
# 테스트 할 이미지 파일들  
files = [  
    'imagenet/mushroom1.jpg',  
    'imagenet/mushroom2.jpg',  
    'imagenet/mushroom3.jpg',  
    'imagenet/dog1.jpg',  
    'imagenet/dog2.jpg',  
    'imagenet/dog3.jpg',  
    'imagenet/cat1.jpg',  
    'imagenet/cat2.jpg',  
    'imagenet/cat3.jpg',  
]  
  
# 분류 실행  
for file in files :  
    predict_vgg16(model, file)
```



Model: "vgg16"

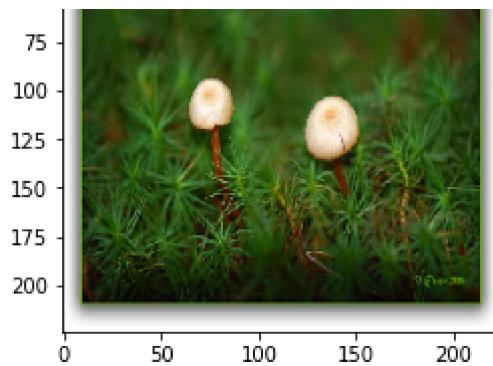
Layer (type)	Output Shape	Param #
input_6 (InputLayer)	[(None, 224, 224, 3)]	0
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1792
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36928
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1180160
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2359808
block4_conv3 (Conv2D)	(None, 28, 28, 512)	2359808
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	0
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv2 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv3 (Conv2D)	(None, 14, 14, 512)	2359808
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0
flatten (Flatten)	(None, 25088)	0
fc1 (Dense)	(None, 4096)	102764544
fc2 (Dense)	(None, 4096)	16781312
predictions (Dense)	(None, 1000)	4097000

Total params: 138,357,544

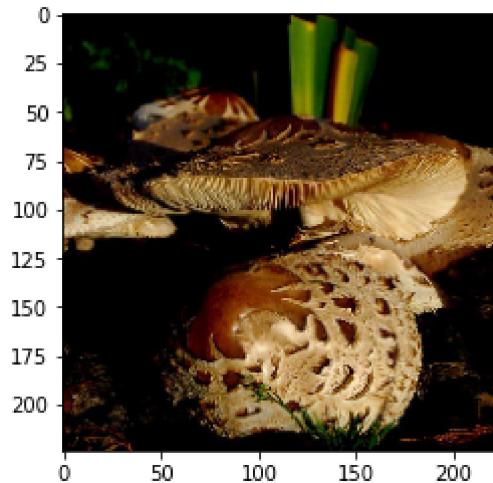
Trainable params: 138,357,544

Non-trainable params: 0

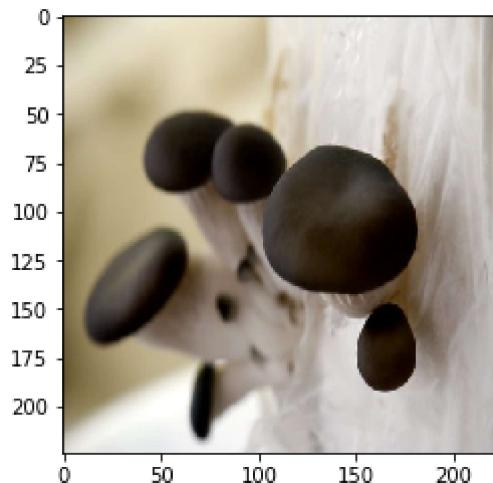




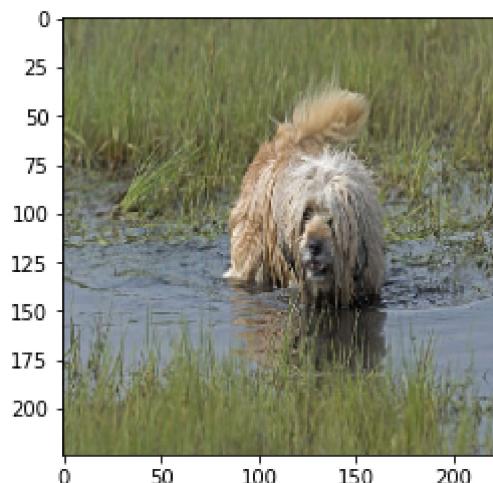
acorn (33.85%)



mushroom (71.36%)

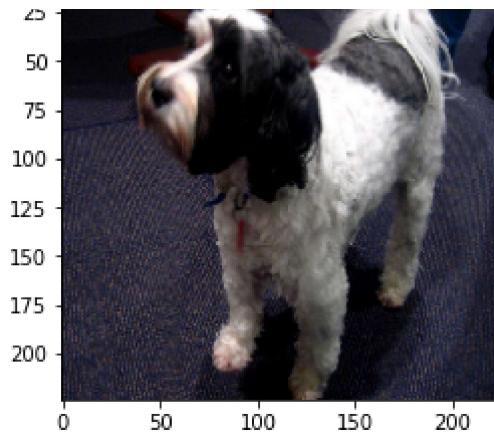


birdhouse (23.66%)

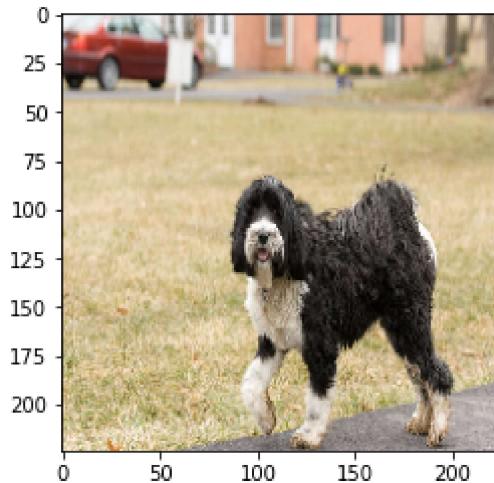


Tibetan_terrier (81.25%)

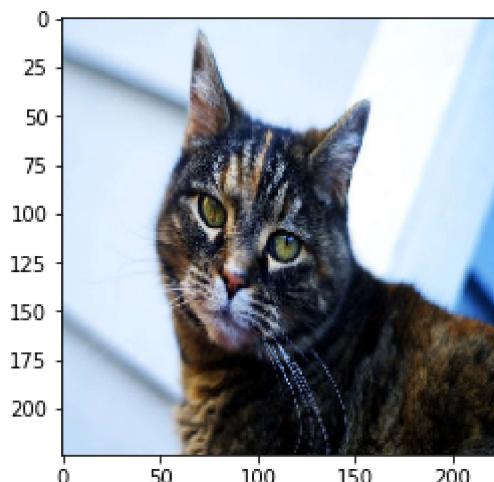




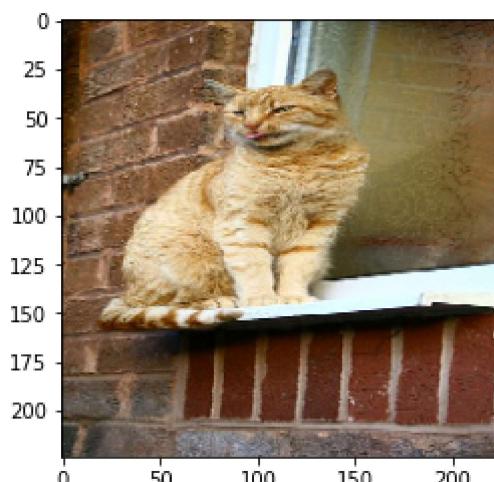
Tibetan_terrier (86.20%)



standard_poodle (23.32%)



tabby (56.47%)



tiger_cat (39.95%)



▼ 커스텀 데이터 학습 - train_x, train_y에 의한

다음에서 다운받은 데이터의 일부

<http://vision.stanford.edu/aditya86/ImageNetDogs>

데이터는 다음과 같이 구성됨

```
dogs/
  class1/
    file1.jpg
    file2.jpg
    ...
  class2/
    file21.jpg
    file22.jpg
    ...
  class3/
    file31.jpg
    file32.jpg
    ...
```

▼ 커스텀 데이터 다운로드

dogs.tar.gz

```
!rm -rf dogs.tar.gz
!wget https://github.com/dhrim/wiset\_2020\_06/raw/master/material/deep\_learning/dogs.tar.gz
!ls -al
```



```
--2020-06-23 04:51:47-- https://github.com/dhrim/wiset\_2020\_06/raw/master/material/deep\_learning
Resolving github.com (github.com)... 140.82.112.3
Connecting to github.com (github.com)|140.82.112.3|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://raw.githubusercontent.com/dhrim/wiset\_2020\_06/master/material/deep\_learning
--2020-06-23 04:51:47-- https://raw.githubusercontent.com/dhrim/wiset\_2020\_06/master/material/deep\_learning
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.0.133, 151.101.64.
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.0.133|:443... con
HTTP request sent, awaiting response... 200 OK
Length: 62885106 (60M) [application/octet-stream]
Saving to: 'dogs.tar.gz'
```

```
dogs.tar.gz      100%[=====] 59.97M 117MB/s in 0.5s
```

```
2020-06-23 04:51:48 (117 MB/s) - 'dogs.tar.gz' saved [62885106/62885106]
```

```
!rm -rf dogs
!tar xvfz dogs.tar.gz #| head -20
!ls -al dogs
```



dogs/
dogs/n02085620-Chihuahua/
dogs/n02085782-Japanese_spaniel/
dogs/n02085936-Maltese_dog/
dogs/n02086079-Pekinese/
dogs/n02086240-Shih-Tzu/
dogs/n02086646-Blenheim_spaniel/
dogs/n02086910-papillon/
dogs/n02087046-toy_terrrier/
dogs/n02087394-Rhodesian_ridgeback/
dogs/n02088094-Afghan_hound/
dogs/n02088094-Afghan_hound/n02088094_1003.jpg
dogs/n02088094-Afghan_hound/n02088094_1007.jpg
dogs/n02088094-Afghan_hound/n02088094_1023.jpg
dogs/n02088094-Afghan_hound/n02088094_10263.jpg
dogs/n02088094-Afghan_hound/n02088094_10715.jpg
dogs/n02088094-Afghan_hound/n02088094_10822.jpg
dogs/n02088094-Afghan_hound/n02088094_10832.jpg
dogs/n02088094-Afghan_hound/n02088094_10982.jpg
dogs/n02088094-Afghan_hound/n02088094_11006.jpg
dogs/n02088094-Afghan_hound/n02088094_11172.jpg
dogs/n02088094-Afghan_hound/n02088094_11182.jpg
dogs/n02088094-Afghan_hound/n02088094_1126.jpg
dogs/n02088094-Afghan_hound/n02088094_1128.jpg
dogs/n02088094-Afghan_hound/n02088094_11432.jpg
dogs/n02088094-Afghan_hound/n02088094_1145.jpg
dogs/n02088094-Afghan_hound/n02088094_115.jpg
dogs/n02088094-Afghan_hound/n02088094_1150.jpg
dogs/n02088094-Afghan_hound/n02088094_11570.jpg
dogs/n02088094-Afghan_hound/n02088094_11584.jpg
dogs/n02088094-Afghan_hound/n02088094_1167.jpg
dogs/n02088094-Afghan_hound/n02088094_1186.jpg
dogs/n02088094-Afghan_hound/n02088094_11953.jpg
dogs/n02088094-Afghan_hound/n02088094_1222.jpg
dogs/n02088094-Afghan_hound/n02088094_1234.jpg
dogs/n02088094-Afghan_hound/n02088094_12364.jpg
dogs/n02088094-Afghan_hound/n02088094_1254.jpg
dogs/n02088094-Afghan_hound/n02088094_12563.jpg
dogs/n02088094-Afghan_hound/n02088094_1259.jpg
dogs/n02088094-Afghan_hound/n02088094_12664.jpg
dogs/n02088094-Afghan_hound/n02088094_1270.jpg
dogs/n02088094-Afghan_hound/n02088094_12867.jpg
dogs/n02088094-Afghan_hound/n02088094_12879.jpg
dogs/n02088094-Afghan_hound/n02088094_12945.jpg
dogs/n02088094-Afghan_hound/n02088094_1301.jpg
dogs/n02088094-Afghan_hound/n02088094_13011.jpg
dogs/n02088094-Afghan_hound/n02088094_13145.jpg
dogs/n02088094-Afghan_hound/n02088094_13270.jpg
dogs/n02088094-Afghan_hound/n02088094_1335.jpg
dogs/n02088094-Afghan_hound/n02088094_13442.jpg
dogs/n02088094-Afghan_hound/n02088094_13502.jpg
dogs/n02088094-Afghan_hound/n02088094_1357.jpg
dogs/n02088094-Afghan_hound/n02088094_1370.jpg
dogs/n02088094-Afghan_hound/n02088094_13742.jpg
dogs/n02088094-Afghan_hound/n02088094_13879.jpg
dogs/n02088094-Afghan_hound/n02088094_13907.jpg
dogs/n02088094-Afghan_hound/n02088094_13909.jpg
dogs/n02088094-Afghan_hound/n02088094_1406.jpg

dogs/n02088094-Afghan_hound/n02088094_1410.jpg
dogs/n02088094-Afghan_hound/n02088094_1430.jpg
dogs/n02088094-Afghan_hound/n02088094_1459.jpg
dogs/n02088094-Afghan_hound/n02088094_1475.jpg
dogs/n02088094-Afghan_hound/n02088094_1479.jpg
dogs/n02088094-Afghan_hound/n02088094_1534.jpg
dogs/n02088094-Afghan_hound/n02088094_1592.jpg
dogs/n02088094-Afghan_hound/n02088094_1611.jpg
dogs/n02088094-Afghan_hound/n02088094_1618.jpg
dogs/n02088094-Afghan_hound/n02088094_1661.jpg
dogs/n02088094-Afghan_hound/n02088094_1724.jpg
dogs/n02088094-Afghan_hound/n02088094_173.jpg
dogs/n02088094-Afghan_hound/n02088094_1823.jpg
dogs/n02088094-Afghan_hound/n02088094_1829.jpg
dogs/n02088094-Afghan_hound/n02088094_1841.jpg
dogs/n02088094-Afghan_hound/n02088094_185.jpg
dogs/n02088094-Afghan_hound/n02088094_1882.jpg
dogs/n02088094-Afghan_hound/n02088094_1907.jpg
dogs/n02088094-Afghan_hound/n02088094_1917.jpg
dogs/n02088094-Afghan_hound/n02088094_1924.jpg
dogs/n02088094-Afghan_hound/n02088094_1932.jpg
dogs/n02088094-Afghan_hound/n02088094_2062.jpg
dogs/n02088094-Afghan_hound/n02088094_2131.jpg
dogs/n02088094-Afghan_hound/n02088094_2173.jpg
dogs/n02088094-Afghan_hound/n02088094_227.jpg
dogs/n02088094-Afghan_hound/n02088094_2292.jpg
dogs/n02088094-Afghan_hound/n02088094_231.jpg
dogs/n02088094-Afghan_hound/n02088094_2458.jpg
dogs/n02088094-Afghan_hound/n02088094_251.jpg
dogs/n02088094-Afghan_hound/n02088094_2522.jpg
dogs/n02088094-Afghan_hound/n02088094_2545.jpg
dogs/n02088094-Afghan_hound/n02088094_2559.jpg
dogs/n02088094-Afghan_hound/n02088094_26.jpg
dogs/n02088094-Afghan_hound/n02088094_2626.jpg
dogs/n02088094-Afghan_hound/n02088094_2641.jpg
dogs/n02088094-Afghan_hound/n02088094_266.jpg
dogs/n02088094-Afghan_hound/n02088094_2700.jpg
dogs/n02088094-Afghan_hound/n02088094_272.jpg
dogs/n02088094-Afghan_hound/n02088094_2726.jpg
dogs/n02088094-Afghan_hound/n02088094_2732.jpg
dogs/n02088094-Afghan_hound/n02088094_2738.jpg
dogs/n02088094-Afghan_hound/n02088094_2798.jpg
dogs/n02088094-Afghan_hound/n02088094_2803.jpg
dogs/n02088094-Afghan_hound/n02088094_2822.jpg
dogs/n02088094-Afghan_hound/n02088094_2879.jpg
dogs/n02088094-Afghan_hound/n02088094_294.jpg
dogs/n02088094-Afghan_hound/n02088094_305.jpg
dogs/n02088094-Afghan_hound/n02088094_3051.jpg
dogs/n02088094-Afghan_hound/n02088094_3057.jpg
dogs/n02088094-Afghan_hound/n02088094_3059.jpg
dogs/n02088094-Afghan_hound/n02088094_3075.jpg
dogs/n02088094-Afghan_hound/n02088094_3080.jpg
dogs/n02088094-Afghan_hound/n02088094_3119.jpg
dogs/n02088094-Afghan_hound/n02088094_3159.jpg
dogs/n02088094-Afghan_hound/n02088094_3201.jpg
dogs/n02088094-Afghan_hound/n02088094_3233.jpg
dogs/n02088094-Afghan_hound/n02088094_3252.jpg
dogs/n02088094-Afghan_hound/n02088094_3374.jpg

dogs/n02088094-Afghan_hound/n02088094_3396.jpg
dogs/n02088094-Afghan_hound/n02088094_3400.jpg
dogs/n02088094-Afghan_hound/n02088094_342.jpg
dogs/n02088094-Afghan_hound/n02088094_3500.jpg
dogs/n02088094-Afghan_hound/n02088094_3531.jpg
dogs/n02088094-Afghan_hound/n02088094_3564.jpg
dogs/n02088094-Afghan_hound/n02088094_357.jpg
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