

1_download_data

April 4, 2021

```
[ ]: import glob
import os
import numpy as np
import keras
from keras import layers
from urllib import request
import tensorflow as tf

print(tf.__version__)
```

2.4.1

```
[ ]: from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

```
[ ]: # # critters (6 classes)
# classes = ['ant', 'bee', 'butterfly', 'mosquito', 'scorpion',
#           'spider']

# # birds (6 classes)
# classes = ['bird', 'duck', 'flamingo', 'owl', 'parrot',
#           'penguin']

# # ocean animals (8 classes)
# classes = ['crab', 'dolphin', 'fish', 'lobster', 'octopus',
#           'sea turtle', 'shark', 'whale']

# # land mammals (22 classes)
# classes = ['bear', 'camel', 'cat', 'cow', 'dog',
#           'elephant', 'giraffe', 'hedgehog', 'horse', 'kangaroo',
#           'lion', 'monkey', 'mouse', 'panda', 'pig',
#           'rabbit', 'raccoon', 'rhinoceros', 'sheep', 'squirrel',
#           'tiger', 'zebra']

# all animals (47 classes)
```

```

classes = ['ant', 'bat', 'bear', 'bee', 'bird',
           'butterfly', 'camel', 'cat', 'cow', 'crab',
           'crocodile', 'dog', 'dolphin', 'duck', 'elephant',
           'fish', 'flamingo', 'frog', 'giraffe', 'hedgehog',
           'horse', 'kangaroo', 'lion', 'lobster', 'monkey',
           'mosquito', 'mouse', 'octopus', 'owl', 'panda',
           'parrot', 'penguin', 'pig', 'rabbit', 'raccoon',
           'rhinoceros', 'scorpion', 'sea%20turtle', 'shark', 'sheep',
           'snail', 'snake', 'spider', 'squirrel', 'tiger',
           'whale', 'zebra']

```

```

[ ]: api = 'https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/'
data_dir = '/content/drive/My Drive/Colab Notebooks/NNL/HW2/data/'

```

```

[ ]: def download_bitmaps(api=api, classes=classes):
    for c in classes:
        path = api + c + '.npy'
        print(path)
        c.replace('%20', '_')
        request.urlretrieve(path, data_dir + c + '.npy')

```

```

[ ]: download_bitmaps()

```

```

https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/ant.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/bat.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/bear.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/bee.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/bird.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/butterfly.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/camel.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/cat.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/cow.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/crab.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/crocodile.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/dog.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/dolphin.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/duck.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/elephant.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/fish.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/flamingo.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/frog.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/giraffe.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/hedgehog.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/horse.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/kangaroo.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/lion.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/lobster.npy

```

https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/monkey.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/mosquito.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/mouse.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/octopus.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/owl.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/panda.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/parrot.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/penguin.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/pig.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/rabbit.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/raccoon.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/rhinoceros.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/scorpion.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/sea%20turtle.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/shark.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/sheep.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/snail.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/snake.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/spider.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/squirrel.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/tiger.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/whale.npy
https://storage.googleapis.com/quickdraw_dataset/full/numpy_bitmap/zebra.npy

[]: