#!/bin/bash

start=`date +%s`

# handle optional download dir

if [ -z "$1" ]

then

# navigate to ~/data

echo "navigating to ~/data/ ..."

mkdir -p ~/data

cd ~/data/

mkdir -p ./coco

cd ./coco

mkdir -p ./images

mkdir -p ./annotations

else

# check if specified dir is valid

if [ ! -d $1 ]; then

echo $1 " is not a valid directory"

exit 0

fi

echo "navigating to " $1 " ..."

cd $1

fi

if [ ! -d images ]

then

mkdir -p ./images

fi

# Download the image data.

cd ./images

echo "Downloading MSCOCO train images ..."

curl -LO http://images.cocodataset.org/zips/train2014.zip

echo "Downloading MSCOCO val images ..."

curl -LO http://images.cocodataset.org/zips/val2014.zip

cd ../

if [ ! -d annotations]

then

mkdir -p ./annotations

fi

# Download the annotation data.

cd ./annotations

echo "Downloading MSCOCO train/val annotations ..."

curl -LO http://images.cocodataset.org/annotations/annotations\_trainval2014.zip

echo "Finished downloading. Now extracting ..."

# Unzip data

echo "Extracting train images ..."

unzip ../images/train2014.zip -d ../images

echo "Extracting val images ..."

unzip ../images/val2014.zip -d ../images

echo "Extracting annotations ..."

unzip ./annotations\_trainval2014.zip

echo "Removing zip files ..."

rm ../images/train2014.zip

rm ../images/val2014.zip

rm ./annotations\_trainval2014.zip

echo "Creating trainval35k dataset..."

# Download annotations json

echo "Downloading trainval35k annotations from S3"

curl -LO <https://s3.amazonaws.com/amdegroot-datasets/instances_trainval35k.json.zip>

curl -LO <https://dl.dropboxusercontent.com/s/s3tw5zcg7395368/instances_valminusminival2014.json.zip?dl=0>

# combine train and val

echo "Combining train and val images"

mkdir ../images/trainval35k

cd ../images/train2014

find -maxdepth 1 -name '\*.jpg' -exec cp -t ../trainval35k {} + # dir too large for cp

cd ../val2014

find -maxdepth 1 -name '\*.jpg' -exec cp -t ../trainval35k {} +

end=`date +%s`

runtime=$((end-start))

echo "Completed in " $runtime " seconds"