from os import listdir, getcwd, makedirs

from os.path import exists, isdir, join

def verify\_parallel\_filenames(img\_set):

# directories = get\_img\_sets()

directories = img\_set

# check if filenames are parallel for two dirs

not\_parallel = []

parallel = []

for dir1 in directories.keys():

for dir2 in directories.keys():

if dir1 == dir2:

continue

if directories[dir1] != directories[dir2]:

if (dir1,dir2) not in not\_parallel and (dir2,dir1) not in not\_parallel:

print('\nWarning: {} and {} directories are NOT PARALLEL!'.format(dir1,dir2))

not\_parallel.append((dir1,dir2))

else:

if (dir1,dir2) not in parallel and (dir2,dir1) not in parallel:

print('\nYAY!, {} and {} directories are PARALLEL!'.format(dir1,dir2))

parallel.append((dir1,dir2))

return parallel, not\_parallel

def get\_img\_dir(rel\_dir='/images/'):

canon\_dir = getcwd() + rel\_dir

# print('data directory:\n {}'.format(canon\_dir))

return canon\_dir

def get\_subdirs(canon\_dir=get\_img\_dir(), print\_subdirectories=False):

directories = [ name for name in listdir(canon\_dir) if isdir(join(canon\_dir, name)) ]

if print\_subdirectories == True:

print('\nsubdirectories: \n {}'.format(directories))

return directories

def get\_img\_sets(canon\_dir=get\_img\_dir(), print\_subdirectories=False):

directories = [ name for name in listdir(canon\_dir) if isdir(join(canon\_dir, name)) ]

if print\_subdirectories == True:

print('\nsubdirectories: \n {}'.format(directories))

image\_set\_filenames = dict()

# preserve only .jpg images

for directory in directories:

file\_list = listdir(canon\_dir + directory)

file\_list = [filename for filename in file\_list if '.jpg' in filename]

image\_set\_filenames[directory] = file\_list

return image\_set\_filenames#color\_img\_filenames, thermal\_img\_filenames

def create\_dir(directory, to\_create):

if not exists(directory + to\_create):

makedirs(directory + to\_create)