```
In [ ]: # %%bash
        # for dir in /home/amazigh/MLFinal/OpenImages/*;
              cd $dir
        #
              for dir2 in */; do
                  rsync -avz pascal/ images/ "$dir"/ --delete-after;
        #
        #
              done
        #
              cd ..
        # done
In [ ]: # %%bash
        # # if globstar is not enabled, you'll need it.
        # shopt -s globstar
        # for file in */**; do [ -f "$file" ] && mv -i "$file" "${file/\\/-}"; done
        # # get rid of the now-empty subdirectories.
        # find . -type d -empty -delete
In [ ]: import os
        from random import choice
        import shutil
        #arrays to store file namesMyImages
        imgs = []
        xmls = []
        #setup dir namesMyImages
        trainPath = 'train'
        valPath = 'val'
        testPath = 'test'
        crsPath = 'OpenImgs' #dir where images and annotations stored
        #setup ratio (val ratio = rest of the files in origin dir after splitting into train and test)
        train_ratio = 0.7
        test_ratio = 0.2
        #total count of imgs
        totalImgCount = len(os.listdir(crsPath))/2
In [ ]: |#soring files to corresponding arrays
        for (dirname, dirs, files) in os.walk(crsPath):
            for filename in files:
                if filename.endswith('.xml'):
                    xmls.append(filename)
                else:
                    imgs.append(filename)
In [ ]: |#counting range for cycles
        countForTrain = int(len(imgs)*train_ratio)
        countForTest = int(len(imgs)*test_ratio)
        print(countForTest)
        print(countForTrain)
In [ ]: |#cycle for train dir
        for x in range(countForTrain):
            fileJpg = choice(imgs) # get name of random image from origin dir
            fileXml = fileJpg[:-4] +'.xml' # get name of corresponding annotation file
            #move both files into train dir
            shutil.move(os.path.join(crsPath, fileJpg), os.path.join(trainPath, fileJpg))
            shutil.move(os.path.join(crsPath, fileXml), os.path.join(trainPath, fileXml))
            #remove files from arrays
            imgs.remove(fileJpg)
            xmls.remove(fileXml)
In [ ]: #rest of files will be validation files, so rename origin dir to val dir
        os.rename(crsPath, valPath)
        #summary information after splitting
        print('Total images: ', totalImgCount)
        print('Images in train dir:', len(os.listdir(trainPath))/2)
        print('Images in test dir:', len(os.listdir(testPath))/2)
        print('Images in validation dir:', len(os.listdir(valPath))/2)
```