

Get Parkinson's Kaggle data into R dataframes (on Mac)

# Make sure that you have 30+ GB free storage on PC before using this help file.

1. Manually unzip Parkinson.zip.

# remove zip file afterward to free space.

2. Open Mac terminal.

# step 3-4 are in mac terminal.

3. Set working directory to Parkinson folder.

*cd PathTo/Parkinson*

# for example, on my mac, PathTo is ~/Dropbox/Courses/PH244/Project\_III/data.

4. Uncompress files.

# uncompress mjff\_binary\_files and get MJFF-binary-files folder of tar.bz2 files.

*unzip mjff\_binary\_files.zip*

# remove zip to free space

*rm mjff\_binary\_files.zip*

# go to MJFF-binary-files folder.

*cd ./MJFF-binary-files/*

# compress all .tar.bz2 files and delete afterward.

# this operation is going to take a while.

# after the step, MJFF-binary-files folder consists of subfolders of bin and log files.

*for file in \*.tar.bz2; do tar -jxf "\$file"; rm "\$file" ; done*

# step 5 is in Rstudio

5. Open Rstudio, and create .csv.bz2 files using HumDyn.R.

# I slightly changed HymDyn.R. Please use the version offered by class, not by Kaggle.

# modify input in line 12 into the path of MJFF-binary-files.

# for example, in my case, paths = list.dirs("~/Dropbox/Courses/PH244/project\_III/data/MJFF-binary-files/")

# this step is going to take a while

# after HumDyn.R, in each subfolder you will see .csv.bz2 files

# Step 6 done in mac terminal.

6. Uncompress .csv.bz2 files

# make sure that you are in the folder MJFF-binary-files

# this step is going to take a while

*find . -name '\*.csv.bz2' -execdir bzip2 -d '{}' \;*

# Step 7 is done in Rstudio

7. Process the .csv files into R data frames using Process.R

# set mypath variable in line 5 as the path of MJFF-binary-files

# for example, in my case, mypath="~/Dropbox/Courses/PH244/project\_III/data/MJFF-binary-files/"

```
# this script creates 7 data frames, one for each data type, with an extra indicator  
column for whether the row of data was from a person with Parkinson's (PK=1) or not.  
# data frames are saved in mjff.Rdata in MJFF-binary-files folder. You may delete the  
rest subfolders therein to free space.
```