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# Cluster Analysis

cd /fmri/PI/training/Class_Intro_fmRI/

ls

emacs Exercise_ClusterAnalysis.txt &

#####

# Assume that you have finished the group analysis during one of last labs

cd your_group_directory

cd JohnIndoorOutdoor

# Part I)

mkdir MonteCarloSimulationBasedOn_IOD_018

cd MonteCarloSimulationBasedOn_IOD_018

cp /fmri/PI/training/Class_Intro_fmRI/JohnIndoorOutdoor/MonteCarloSimulationBasedOn_IOD_018/MonteCarlo_moreIterfwhm4.s .

cp /fmri/PI/training/Class_Intro_fmRI/JohnIndoorOutdoor/MonteCarloSimulationBasedOn_IOD_018/mask800+orig.* .

emacs MonteCarlo_moreIterfwhm4.s

# Change the iter from "60000" to "1000".
# Run the MonteCaro simulation script.

# And the same time, try to understand the afni command AlphaSim, you can run

AlphaSim -help

# in another window
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# Try to understand the result

# Part II).

cd GroupANOVA2

ln -s ../AnalyScripts/gen_cluster.s .

emacs gen_cluster.s &

# Try to understand gen_cluster.s, specifically, 3dclust and 3dmerge

# Run the script

gen_cluster.s

# Run

afni &

# Try to understand the result of gen_cluster.s
```