

GroupAnalyze

PURPOSE: GroupAnalyze groups camera locations and presents results by group instead of by camera like DataAnalyze does.

EXAMPLE: Suppose there are 150 camera locations running on 7 mountain ranges. You want to group all the camera locations from each mountain range and present the results by group. Program DataAnalyze presents results by each camera location. GroupAnalyze presents results by groups. Groups are user defined. For instance, we might group camera locations by mountain range as above, or by some other geographic or physical variable. We might group locations by habitat, by section of a country, or directions on a compass. For instance, suppose there are cameras running through Malaysia both peninsular Malaysia, and in Sarawak, and Sabah on Borneo. We could group camera locations as follows:
group 1: all camera locations in peninsular Malaysia, group 2: all camera locations in Sarawak, and
group 3: all camera locations in Sabah. The results are presented by group.

WHAT IS NEEDED: AllPictures.txt, Input.txt that are produced by program DataOrganize, and a new text file called GroupMap.txt. GroupMap.txt is the text file that gives the mapping of camera locations to Groups. Let's say you have 4 camera locations as listed in Input.txt as Location 01, Location 02, Arroyo Seco, and Casa Grande. You want to group the first and last locations into Grassland, and the second and third locations into Forest. GroupMap.txt looks like this:

Location 01	Grassland
Location 02	Forest
Arroyo Seco	Forest
Casa grande	Grassland

Note that there are no blank lines, and that the number of characters in each line including spaces is critical. The original location names must be exactly 25 characters including blanks and not tabs, then a blank space in character 26, and then the group name that is limited to 25 characters. Each line has the following format:
abcdefghijklmnopqrstuvwxyBGroupName
where B is a blank space.

WHAT COMES OUT: The output file is a text file called OutputGroups.txt.

HOW DOES GroupAnalyze WORK: Program GroupAnalyze assumes that each camera location is independent of all other camera locations. The program works the same way DataAnalyze works but then groups all data and presents the results for each group. Thus the total number of camera traps days for instance remains the same but the number of camera trap days is presented for each group, not each camera location.

RECOMMENDATION: As a first try, edit Input.txt so it has only four locations. Create GroupMap.txt that has 4 lines grouping the first two locations into G01 and the second two into G02. Double-click GroupAnalyze then open OutputGroups.txt

If GroupAnalyze FAILS: Most likely this is caused by the wrong number of characters in a line in GroupMap.txt. Don't use tabs! There should be exactly 25 characters for the location name including blanks, then a blank space, then the group name. the location names must be the same as in Input.txt.