photoQuad\_extractoR package:none R Documentation

**Description**

This function creates tables of percentage cover or presence/absence by combining the output files generated by photoQuad (Trygonis & Sini, 2012) in a unique table containing site and species information as rows and columns respectively.

**Usage**

photoQuad\_extractoR(object, output=”cover”)

**Arguments**

object A list containing all .csv files generate by photoQuad.

output The format of desired output table. cover for a table containing the cover percentage of species or presence for a table containing presence (1) / absence (0) values.

**Value**

If output is cover (default), it returns a dataframe with the species registered in photoQuad as columns and the sites as rows.

If output is presence, it returns a dataframe with a presence/absence matrix for the species and sites registered in photoQuad.

**Note**

All .csv files must be located in R’s working directory. The image files used in photoQuad must be named with the sample or sampling site code because the function will extract this name without the image format complement to use it as the table’s row name. Image formats handled by this function are .JPG, .JPEG, .PNG, .TIFF, .BMP. The species or taxa names used in photoQuad and printed in the .csv files must not contain special characters such as accentuation.

**Authors**

Otávio César Marchetti (<tatomarchetti@hotmail.com)

Rafael Campos Duarte (<rafaduarte87@gmail.com>)

**References**

Trygonis, V., Sini, M., 2012. photoQuad: a dedicated seabed image processing software, and a comparative error analysis of four photoquadrat methods. Journal of Experimental Marine Biology and Ecology 424-425, 99-108. [doi:10.1016/j.jembe.2012.04.018](http://dx.doi.org/10.1016/j.jembe.2012.04.018)

**Example**

# import all csv files produced by photoQuad that are located in

# the working directory

list\_of\_files<- list.files(pattern = "\*.csv")

my\_files<- lapply(list\_of\_files,read\_csv)

# if you want to create a cover table

cover\_table<- photoQuad\_extractoR(my\_files)

# if you want to create a presence/absence table

pre\_abs\_table<- photoQuad\_extractoR(my\_files,output = "presence")