Skript pro kompilaci Gentryho lesních ploch z Excelovského souboru

Excelovský soubor s jednotlivými soubory roztříděnými do podadresářů podle kontinentů stáhněte zde a odzipujte do adresáře (`c:/gentry/` v tomto příkladě, v adresáři budou podadresáře `africa`, `europe` etc.).

```
# install.packages ('XLConnect')  # install if not yet installed
library (XLConnect)

setwd ('c:\\gentry\\')  # set to the directory where you unzipped all_excel.zip
file
folders <- dir ()

file.name.short <- NULL
for (fo in folders)
    {
    setwd (fo)
    for (fi in dir ())
        file.name.short <- append (file.name.short, unlist (strsplit (fi, '.xls'))
)
    setwd ('..')
}

file.name.short <- tolower (file.name.short)

file.name <- NULL
for (fo in folders)
    {
    setwd (fo)
    for (fi in dir ())
        file.name <- append (file.name, paste (getwd (), fi, sep = '/'))
    setwd ('..')
}

gentry <- lapply (file.name, FUN = function (x) {
    print (x)
    data <- readWorksheetFromFile (x, sheet = 1)
    sp.names <- data [, 2:4]
    sp.names <- apply (sp.names, 1, paste, collapse = ' ', sep = ' ')
    res.tab <- as.data.frame (as.matrix (xtabs (data[,14] ~ data[,1] + sp.names,
sparse = T)))
    res.tab
    })

names (gentry) <- file.name.short

# the following deletes the plots with less than 10 subplots (or with other
deviations)
n <- 1
for (del in which (lapply (gentry, nrow) >= 10)) {gentry197[[n]] <- gentry[[del]];
n <- n+1}
names (gentry197) <- names (which (lapply (gentry, nrow) >= 10))
```

```r
length (gentry197)  # should be 197

save (gentry197, file = 'gentry197.r')  # saves resulting list with 197 tables
```

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https://anadat-r.davidzeleny.net/ - **Analysis of community ecology data in R**

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https://anadat-r.davidzeleny.net/doku.php/cs:data:gentry:extract-gentry-plots

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