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Numerical classification

TWINSPAN - hierarchical divisive classification

I created experimental R library with TWINSPAN algorithm - you may install it from GitHub repository (note: this library is currently in beta stage under development, and some parts may not be functional). To install any library from GitHub, you will need to first install package `devtools` written by Wickham Hadley, which contains a set of tools for development of R packages. After installing `devtools`, use the function `install_github`.

```
install.packages ('devtools')  
devtools::install_github("zdealveindy/twinspaceR")
```

Run TWINSPAN example¹⁾, which shows modified TWINSPAN on traditional Ellenberg's Danube meadow dataset, projected on DCA ordination diagram and compared with original classification into three vegetation types made by tabular sorting:

```
library (twinspaceR)  
library (vegan)  
data (danube)  
res <- twinspace (danube$spe, modif = TRUE, clusters = 4)  
k <- cut (res)  
dca <- decorana (danube$spe)  
par (mfrow = c(1,2))  
ordiplot (dca, type = 'n', display = 'si', main = 'Modified TWINSPAN')  
points (dca, col = k)  
for (i in c(1,2,4)) ordihull (dca, groups = k, show.group = i, col = i,  
  draw = 'polygon', label = TRUE)  
ordiplot (dca, type = 'n', display = 'si', main = 'Original assignment\  
(Ellenberg 1954)')  
points (dca, col = danube$env$veg.type)  
for (i in c(1:3)) ordihull (dca, groups = danube$env$veg.type,  
  show.group = unique (danube$env$veg.type)[i], col = i,  
  draw = 'polygon', label = TRUE)
```



Video



Video

1)

You would get the same result as the script below if you run `example` (`twinspan`) - this will run the example which comes with the help file of `twinspan` function (see the section *Examples* in `?twinspan`).

From:

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

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<https://anadat-r.davidzeleny.net/doku.php/en:hier-divisive?rev=1429820848>

Last update: **2017/10/11 20:36**