```
# coldiss()
# Color plots of a dissimilarity matrix, without and with ordering
#
# License: GPL-2
# Author: Francois Gillet, August 2009
#

"coldiss" <- function(D, nc = 4, byrank = TRUE, diag = FALSE)
{
    require(gclus)

    if (max(D)>1) D <- D/max(D)

    if (byrank) {
        spe.color = dmat.color(1-D, cm.colors(nc))
    }
    else {
        spe.color = dmat.color(1-D, byrank=FALSE, cm.colors(nc))
    }

    spe.o = order.single(1-D)
    speo.color = spe.color[spe.o,spe.o]

    op = par(mfrow=c(1,2), pty="s")

    if (diag) {
        plotcolors(spe.color, rlabels=attributes(D)$Labels,
            main="Dissimilarity Matrix",
            dlabels=attributes(D)$Labels)
        plotcolors(speo.color, rlabels=attributes(D)$Labels[spe.o],
            main="Ordered Dissimilarity Matrix",
            dlabels=attributes(D)$Labels[spe.o])
    }
    else {
        plotcolors(spe.color, rlabels=attributes(D)$Labels,
            main="Dissimilarity Matrix")
        plotcolors(speo.color, rlabels=attributes(D)$Labels[spe.o],
            main="Ordered Dissimilarity Matrix")
    }

    par(op)
}

# Usage:
# coldiss(D = dissimilarity.matrix, nc = 4, byrank = TRUE, diag = FALSE)
# If D is not a dissimilarity matrix (max > 1), then D is divided by max(D)

# Example:
# coldiss(spe.dj, nc=9, byrank=F, diag=T)

# byrank= TRUE        equal-sized categories
# byrank= FALSE       equal-length intervals
```

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