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# PCoA and NMDS ordiagrams using Vltava data (added categorical variable)

vltava.spe <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/vltava-
spe.txt', row.names = 1)
vltava.env <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/vltava-
env.txt')

library (vegan)

png ('pcoa_nmds.png', width = 8, height = 4, units = 'in', res = 300,
pointsize = 11)
par (mfrow = c(1,2))
pcoa <- capscale (log1p (vltava.spe) ~ 1, distance = 'bray', sqrt.dist =
TRUE, scaling = 1)
plot (pcoa, main = 'PCoA (MDS)', type = 'n')
points (pcoa, display = 'si', col = vltava.env$GROUP, pch =
vltava.env$GROUP)
text (pcoa, display = 'sp', col = "#FF000080", cex = 0.6, scaling = 1,
select = colSums (vltava.spe>0)>20)
legend ('bottomleft', pch = 1:4, col = 1:4, legend = 1:4, title = 'GROUP',
cex = 0.6)

nmds <- metaMDS (log1p (vltava.spe), distance = 'bray', scaling = 1)
plot (nmds, main = 'NMDS', type = 'n', display = 'si')
points (nmds, display = 'si', col = vltava.env$GROUP, pch =
vltava.env$GROUP)
text (nmds, display = 'sp', col = "#FF000080", cex = 0.6, select = colSums
(vltava.spe>0)>20)
dev.off ()
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From:

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

Permanent link:

https://anadat-r.davidzeleny.net/doku.php/en:pcoa_nmds_rscript

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