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# Plotting ordination diagrams (ordination diagrams - theory)

png ('ordiplots_dune.png', width = 8, height = 8, units = 'in', pointsize =
11, res = 300)
par (mfrow = c(2,2))

PCA <- rda (spe)
biplot (PCA, scaling = 2, main = 'PCA')

CA <- cca (spe)
plot (CA, main = 'CA', scaling = 2)

RDA <- rda (spe ~ Moisture + Management, env)
#anova (RDA, by = 'margin')
plot_RDA <- plot (RDA, scaling = 2, main = 'RDA', type = 'n')
text (plot_RDA, what = 'sp', arrow = T, length = 0.05, col='red', cex=0.7)
text (plot_RDA, what = 'si', cex = 0.7)
text (plot_RDA, what = 'centroids', col = 'blue')
text (plot_RDA, what = 'biplot', arrow = TRUE, length = 0.05, col = 'blue',
xpd = TRUE)

CCA <- cca (spe ~ Moisture + Management, env)
#anova (CCA, by = 'margin')
plot_CCA <- plot (CCA, scaling = 2, main = 'CCA', type = 'n')
text (plot_CCA, what = 'sp', col='red', cex=0.7)
text (plot_CCA, what = 'si', cex = 0.7)
text (plot_CCA, what = 'centroids', col = 'blue')
text (plot_CCA, what = 'biplot', arrow = TRUE, length = 0.05, col = 'blue',
xpd = TRUE)

dev.off ()

png ('ordiplots_types.png', width = 8, height = 8/3, units = 'in', pointsize
= 14, res = 300)
par (mfrow = c(1,3))
ordiplot (CCA, display = 'si', ann = F, axes = F)
box ()
title (main = 'Scatterplot', sub = '(o = sample scores)')

ordiplot (CCA, display = c('si', 'sp'), ann = F, axes = F)
box ()
title (main = 'Biplot', sub = '(o = sample, + = species scores)')

plot_CCA <- plot (CCA, type = 'n', ann = F, axes = F)
box ()
points (CCA, display = 'sp', col = 'red', cex = 0.6, pch = '+')
points (CCA, display = 'si', cex = 0.6)
text (plot_CCA, what = 'centroids', col = 'blue', labels = rep ('X', 4), cex
= 0.6)

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text (plot_CCA, what = 'biplot', arrow = TRUE, length = 0.05, col = 'blue',  
xpd = TRUE, labels = '')  
  
title (main = 'Triplot', sub = '(o = sample, + = species scores, \nvector &  
centroid = env. vars)')  
box ()  
dev.off ()
```

From:

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

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

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