Making Tables

FunEcoLab

I. NMDS plots with trait vectors at the bottom

II. NMDS plots with fun and tax

```
fun_nmds <- metaMDS(cwm, distance="euclidean", k=2, trymax=100)
```

```
## 'comm' has negative data: 'autotransform', 'noshare' and 'wascores' set to FALSE
```

```
## Run 0 stress 0.04587848
## Run 1 stress 0.04988903
## Run 2 stress 0.07478621
## Run 3 stress 0.04624183
## ... Procrustes: rmse 0.007633585  max resid 0.04116716
## Run 4 stress 0.04592471
## ... Procrustes: rmse 0.004301778  max resid 0.02780276
## Run 5 stress 0.06270293
## Run 6 stress 0.04622277
## ... Procrustes: rmse 0.005895602  max resid 0.04008199
## Run 7 stress 0.04590232
## ... Procrustes: rmse 0.00504196  max resid 0.03259878
## Run 8 stress 0.07002049
## Run 9 stress 0.04615962
## ... Procrustes: rmse 0.007073978  max resid 0.03972836
## Run 10 stress 0.04614603
## ... Procrustes: rmse 0.005415505  max resid 0.03858146
## Run 11 stress 0.06553526
## Run 12 stress 0.04991483
## Run 13 stress 0.06994941
## Run 14 stress 0.05020439
## Run 15 stress 0.07832533
## Run 16 stress 0.07262258
## Run 17 stress 0.04615583
## ... Procrustes: rmse 0.006871112  max resid 0.03964428
## Run 18 stress 0.04587922
## ... Procrustes: rmse 0.002600573  max resid 0.01680723
## Run 19 stress 0.06982464
## Run 20 stress 0.0631323
## Run 21 stress 0.07208399
## Run 22 stress 0.06553549
## Run 23 stress 0.04989007
## Run 24 stress 0.04615238
## ... Procrustes: rmse 0.005494565  max resid 0.03830935
## Run 25 stress 0.04588598
## ... Procrustes: rmse 0.001336679  max resid 0.008636866
## ... Similar to previous best
```

```
## *** Best solution repeated 1 times
```

```
tax_nmds <- metaMDS(comm, distance="bray", k=2, trymax=100)
```

```
## Run 0 stress 0.1871277
## Run 1 stress 0.1963671
## Run 2 stress 0.1874711
## ... Procrustes: rmse 0.02710129  max resid 0.1765195
## Run 3 stress 0.1966092
## Run 4 stress 0.1885579
## Run 5 stress 0.187603
## ... Procrustes: rmse 0.02667068  max resid 0.176943
## Run 6 stress 0.187603
## ... Procrustes: rmse 0.0266768  max resid 0.1769949
## Run 7 stress 0.1948163
## Run 8 stress 0.1870376
## ... New best solution
## ... Procrustes: rmse 0.006232526  max resid 0.03513727
## Run 9 stress 0.1963672
## Run 10 stress 0.1988923
## Run 11 stress 0.1885573
## Run 12 stress 0.1948163
## Run 13 stress 0.1874996
## ... Procrustes: rmse 0.02655487  max resid 0.177133
## Run 14 stress 0.1874996
## ... Procrustes: rmse 0.0265546  max resid 0.1771268
## Run 15 stress 0.1875765
## Run 16 stress 0.1870376
## ... New best solution
## ... Procrustes: rmse 3.865202e-05  max resid 0.0001798674
## ... Similar to previous best
## Run 17 stress 0.1874711
## ... Procrustes: rmse 0.02626116  max resid 0.1772314
## Run 18 stress 0.1886047
## Run 19 stress 0.1874711
## ... Procrustes: rmse 0.02626088  max resid 0.1772466
## Run 20 stress 0.1966272
## *** Best solution repeated 1 times
```

```
envfit_fun <- envfit(fun_nmds, cwm, perm=999)
fun_df <- data.frame(
  Variable = rownames(envfit_fun$vectors$arrows),
  NMDS1    = envfit_fun$vectors$arrows[, 1],
  NMDS2    = envfit_fun$vectors$arrows[, 2],
  r2       = envfit_fun$vectors$r,
  p        = envfit_fun$vectors$pvals
)


tab_df(fun_df,
       title = "Envfit for Functional NMDS Ordination",
       digits = 4,
       alternate.rows = TRUE)
```

Envfit for Functional NMDS Ordination

Variable	NMDS1	NMDS2	r2	p
sla	0.7483	-0.6633	0.2687	0.0020
height	-0.0692	0.9976	0.9551	0.0010
resprouting	0.9909	-0.1342	0.1909	0.0040
seedmass	-0.9965	-0.0832	0.9988	0.0010