clustering-update

```
trait_groups_pam <- cluster::pam(x = trait_gower_daisy,
                                 k = 4,
                                 metric = "euclidean")

pam_clusters <- trait_groups_pam$clustering %>%
  enframe() %>%
  rename(cluster = value) %>%
  mutate(cluster = factor(cluster))

pairwise.perm.manova(trait_gower_daisy, fact = pam_clusters$cluster)
```

```
    Pairwise comparisons using permutation MANOVAs on a distance matrix

data:  trait_gower_daisy by pam_clusters$cluster
999 permutations

  1      2      3
2 0.0015 -      -
3 0.0024 0.0015 -
4 0.0030 0.0015 0.0015

P value adjustment method: fdr
```

```
trait_groups_pam <- cluster::pam(x = trait_gower_daisy,
                                 k = 5,
                                 metric = "euclidean")

pam_clusters <- trait_groups_pam$clustering %>%
  enframe() %>%
  rename(cluster = value) %>%
```

```
  mutate(cluster = factor(cluster))

pairwise.perm.manova(trait_gower_daisy, fact = pam_clusters$cluster)
```

```
    Pairwise comparisons using permutation MANOVAs on a distance matrix

data:  trait_gower_daisy by pam_clusters$cluster
999 permutations

  1      2      3      4
2 0.0017 -      -      -
3 0.0017 0.0017 -      -
4 0.0089 0.0017 0.0017 -
5 0.0310 0.0017 0.0029 0.0063

P value adjustment method: fdr
```