Untitled.R

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Wed Mar 25 17:34:50 2015

library(Momocs)

```
##
## Attaching package: 'Momocs'
## The following object is masked from 'package:stats':
##
##
       filter
##
## The following object is masked from 'package:base':
##
       table
load("~/Desktop/allF.rda")
allP <- PCA(allF)
MANOVA_PW(filter(allP, !Island %in% c("New_Zealand", "Pitcairn")), "Island")
## * 'Chatham' has 8 rows, and 'retain' is set accordingly.
## * PC axes 1 to 8 were retained
## Warning in is.na(e1) | is.na(e2): longer object length is not a multiple
## of shorter object length
## Warning in `==.default`(fac, pws[i, ]): longer object length is not a
## multiple of shorter object length
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## $stars.tab
               Chatham New Britain Rapa Nui
##
## Chatham
## New Britain
## $summary (see also $manovas)
                          Df Pillai approx F num Df den Df Pr(>F)
## Chatham - New Britain 1 0.60145
                                       0.1886
                                                    8
                                                          1 0.9497
## Chatham - Rapa_Nui
                           1 0.04067
                                       1.0918
                                                    8
                                                         206 0.3702
## New_Britain - Rapa_Nui 1 0.05319
                                       1.4607
                                                         208 0.1734
New_Zealand_scores <- filter(allP, Island=="New_Zealand")$x[, 1]</pre>
New_Britain_scores <- filter(allP, Island=="New_Britain")$x[, 1]</pre>
Chatham_scores <- filter(allP, Island=="Chatham")$x[, 1]</pre>
Pitcairn_scores <- filter(allP, Island=="Pitcairn")$x[, 1]</pre>
Rapa_Nui_scores <- filter(allP, Island=="Rapa_Nui")$x[, 1]</pre>
wilcox.test(New_Zealand_scores, New_Britain_scores)
## Warning in wilcox.test.default(New_Zealand_scores, New_Britain_scores):
## cannot compute exact p-value with ties
##
##
   Wilcoxon rank sum test with continuity correction
## data: New_Zealand_scores and New_Britain_scores
## W = 17, p-value = 0.4108
\#\# alternative hypothesis: true location shift is not equal to 0
wilcox.test(New_Zealand_scores, Chatham_scores)
## Warning in wilcox.test.default(New_Zealand_scores, Chatham_scores): cannot
## compute exact p-value with ties
##
## Wilcoxon rank sum test with continuity correction
## data: New_Zealand_scores and Chatham_scores
## W = 14, p-value = 0.1497
\#\# alternative hypothesis: true location shift is not equal to 0
```

```
wilcox.test(New_Zealand_scores, Pitcairn_scores)
##
## Wilcoxon rank sum test
## data: New_Zealand_scores and Pitcairn_scores
## W = 4, p-value = 0.3333
## alternative hypothesis: true location shift is not equal to 0
wilcox.test(New_Zealand_scores, Rapa_Nui_scores)
##
## Wilcoxon rank sum test with continuity correction
## data: New_Zealand_scores and Rapa_Nui_scores
## W = 725, p-value = 0.0819
## alternative hypothesis: true location shift is not equal to 0
wilcox.test(Chatham_scores, New_Britain_scores)
## Warning in wilcox.test.default(Chatham_scores, New_Britain_scores): cannot
## compute exact p-value with ties
##
## Wilcoxon rank sum test with continuity correction
## data: Chatham_scores and New_Britain_scores
## W = 39, p-value = 0.5116
## alternative hypothesis: true location shift is not equal to 0
wilcox.test(Chatham_scores, New_Zealand_scores)
## Warning in wilcox.test.default(Chatham_scores, New_Zealand_scores): cannot
## compute exact p-value with ties
##
## Wilcoxon rank sum test with continuity correction
## data: Chatham_scores and New_Zealand_scores
## W = 2, p-value = 0.1497
## alternative hypothesis: true location shift is not equal to 0
wilcox.test(Chatham_scores, Pitcairn_scores)
## Warning in wilcox.test.default(Chatham_scores, Pitcairn_scores): cannot
## compute exact p-value with ties
## Wilcoxon rank sum test with continuity correction
## data: Chatham_scores and Pitcairn_scores
## W = 16, p-value = 0.04949
## alternative hypothesis: true location shift is not equal to 0
```

wilcox.test(Chatham_scores, Rapa_Nui_scores)

```
##
## Wilcoxon rank sum test with continuity correction
##
## data: Chatham_scores and Rapa_Nui_scores
## W = 1606, p-value = 0.8065
## alternative hypothesis: true location shift is not equal to 0
```