```
R version 4.3.1 (2023-06-16) -- "Beagle Scouts"
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Platform: aarch64-apple-darwin20 (64-bit)

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  Natural language support but running in an English locale

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Type 'q()' to quit R.

> setwd ("/Users/georgescum2/Documents/HEATMAP_DATA")
> require(graphics)
> require(grDevices)
> if(!require('gplots')) {
+     install.packages('gplots')
+     library('gplots')
+ }
Loading required package: gplots

Attaching package: 'gplots'

The following object is masked from 'package:stats':

    lowess

>
> A1 <- read.csv("consistent.csv") ; A1 ;rownames(A1) = A1[,1] ; A1 =
A1[,-1]
   COGNITION    DIRECT   INDIRECT      TOTAL
1       MMSE -0.025440 -0.011817 -0.037257
2     CVLTCA -0.031087 -0.076253 -0.107341
3     CVLFRL -0.016121 -0.067859 -0.083980
4        BVR  0.065665  0.031405  0.097070
5      ATTEN  0.018610 -0.030279 -0.011669
6         FW -0.004363 -0.043325 -0.047688
7        DSF -0.092001 -0.008551 -0.100552
8        DSB -0.013950 -0.014016 -0.027965
9        CDT -0.047698 -0.035146 -0.082844
10      TATS  0.027919  0.009914  0.037833
11      TBTS  0.039402  0.030428  0.069830
12        CR -0.052563 -0.007389 -0.059952
13       IDP -0.053736 -0.013980 -0.067716
```

```
> 
> 
> summary.data.frame(A1)
     DIRECT              INDIRECT              TOTAL
 Min.   :-0.09200   Min.   :-0.076253   Min.   :-0.10734
 1st Qu.:-0.04770   1st Qu.:-0.035146   1st Qu.:-0.08284
 Median :-0.01612   Median :-0.013980   Median :-0.04769
 Mean   :-0.01426   Mean   :-0.018221   Mean   :-0.03248
 3rd Qu.: 0.01861   3rd Qu.:-0.007389   3rd Qu.:-0.01167
 Max.   : 0.06567   Max.   : 0.031405   Max.   : 0.09707
> 
> 
> data1  <- as.matrix(A1)
> summary(data1)
     DIRECT              INDIRECT              TOTAL
 Min.   :-0.09200   Min.   :-0.076253   Min.   :-0.10734
 1st Qu.:-0.04770   1st Qu.:-0.035146   1st Qu.:-0.08284
 Median :-0.01612   Median :-0.013980   Median :-0.04769
 Mean   :-0.01426   Mean   :-0.018221   Mean   :-0.03248
 3rd Qu.: 0.01861   3rd Qu.:-0.007389   3rd Qu.:-0.01167
 Max.   : 0.06567   Max.   : 0.031405   Max.   : 0.09707
> 
> 
> 
> heatmap.2(data1, Rowv = NA, dendrogram="both" , col=bluered,
+           margins = c(15, 10))
Warning message:
In heatmap.2(data1, Rowv = NA, dendrogram = "both", col = bluered,  :
  Discrepancy: Rowv is FALSE, while dendrogram is `both'. Omitting row
dendogram.
> 
```