

[Day-01-Lecture-06]

관련 논문

권기성, 최운호, 김동건 (2022), "문학 작품의 거리 측정을 활용한 야담의 이본 연구", 「한국고전연구 57집」 87~120쪽, 한국고전연구학회.

- 이번 세션에서는 R, RStudio를 활용하도록 하겠습니다.

```
1  #
2  # okss_work_006_01.R
3  #
4  #
5
6  # #####
7  # install.packages("MASS", "graphics", "ape", "rgl")
8  # #####
9
10 library(MASS)
11 library(graphics)
12 library(ape)
13 library(rgl)
14
15
16 # #####
17 # Set working directory
18 # #####
19 working_dir = "d:/current_work/kwonks_drill_okssw_04/"
20 setwd(working_dir)
21
22 data <- read.table("okss_004_007.txt", header=TRUE, encoding="utf-8")
23
24 #
25 # Classical MDS
26 #
27 data.matrix <- as.matrix(data)
28 data.mds2 <- cmdscale(data.matrix, k=2)
29 data.mds3 <- cmdscale(data.matrix, k=3)
30
31 x <- data.mds2[, 1]
32 y <- data.mds2[, 2]
33 plot(x, y, main="OKSS")
34 grid()
35
36 x <- data.mds3[, 1]
37 y <- data.mds3[, 2]
38 z <- data.mds3[, 3]
39
40 # #####
41 # rgl 3d mapping
42 # #####
```

```
43 plot3d(x, y, z, type='p')
44
45 # #####
46 # Hierarchical Clustering
47 # #####
48
49 data.dist <- as.dist(data.matrix)
50 hc <- hclust(data.dist, 'ave')
51 plot(hc, cex=.85)
52
53
54 # #####
55 # Unrooted Tree
56 # #####
57
58 tr <- as.phylo(hc)
59 plot(tr, type="u", cex=.45)
60
61
62 # #####
63 # Hclust cutting
64 # #####
65
66 plot(hc, hang=-1, cex=.8)
67 rect.hclust(hc, k=3)
68
69 plot(hc, hang=-1, cex=.8)
70 rect.hclust(hc, k=6)
```