

대응분석 (예제)

▪ R 프로그램

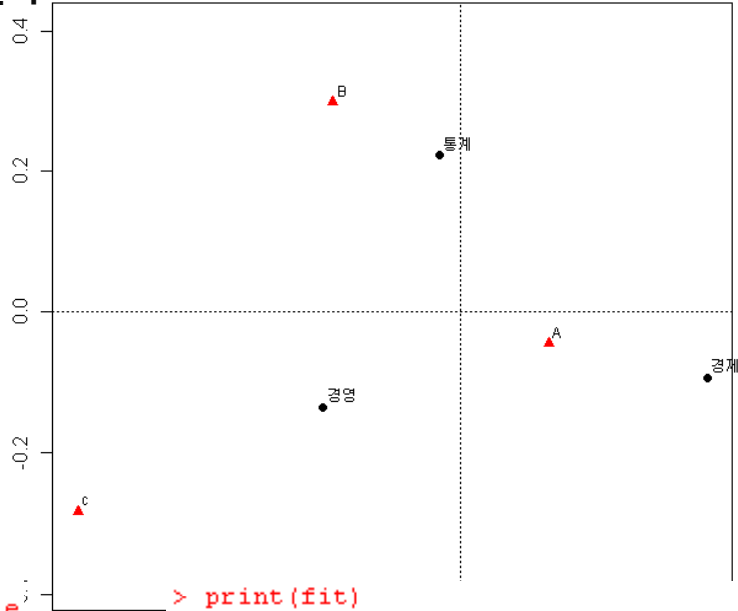
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> # Correspondence Analysis
> c1=cbind(rep("경영",c(78)),rep("A",c(78)))
> c2=cbind(rep("경영",c(22)),rep("B",c(22)))
> c3=cbind(rep("경영",c(20)),rep("c",c(20)))
> c4=cbind(rep("경제",c(65)),rep("A",c(65)))
> c5=cbind(rep("경제",c(8)),rep("B",c(8)))
> c6=cbind(rep("경제",c(2)),rep("c",c(2)))
> c7=cbind(rep("동계",c(68)),rep("A",c(68)))
> c8=cbind(rep("동계",c(30)),rep("B",c(30)))
> c9=cbind(rep("동계",c(7)),rep("c",c(7)))
> mydata=data.frame(rbind(c1,c2,c3,c4,c5,c6,c7,c8,c9))
> names(mydata)
[1] "X1" "X2"
> length(mydata$X1)
[1] 300

> library(ca)
> mytable=with(mydata, table(X1,X2)) # create a 2 way table
> prop.table(mytable, 1) # row percentages
      X2
X1     A         B         c
경영 0.65000000 0.18333333 0.16666667
경제 0.86666667 0.10666667 0.02666667
동계 0.64761905 0.28571429 0.06666667
> prop.table(mytable, 2) # column percentages
      X2
X1     A         B         c
경영 0.36966825 0.36666667 0.68965517
경제 0.30805687 0.13333333 0.06896552
동계 0.32227488 0.50000000 0.24137931
> fit=ca(mytable)

```

▪ 결과



```

> print(fit)

Principal inertias (eigenvalues):
      Value      Percentage
1 0.046172 63.12%
2 0.026982 36.88%

Rows:
      Mass      ChiDist      Inertia      Dim. 1      Dim. 2
경영 0.400000 0.236902 0.022449 -0.903071 -0.827323
경제 0.250000 0.363560 0.033044  1.633900 -0.574778
동계 0.350000 0.224630 0.017660 -0.134991  1.356068

```

http://wolfpack.hnu.ac.kr

