run.R

ebratt

Sun Mar 13 01:55:49 2016

################################################################################  
# CSC 424 PROJECT  
# Turkiye Student Evaluation Data Set  
# http://archive.ics.uci.edu/ml/datasets/Turkiye+Student+Evaluation  
# Abstract: This data set contains a total 5820 evaluation scores provided by   
# students from Gazi University in Ankara (Turkey). There is a total of 28 course   
# specific questions and additional 5 attributes.  
# Source:  
# Ernest Fokoue   
# Center for Quality and Applied Statistics   
# Rochester Institute of Technology   
# 98 Lomb Memorial Drive   
# Rochester, NY 14623, USA   
# eMaÄ±l: epfeqa '@' rit.edu   
#   
# Necla Gunduz   
# Department of Statistics   
# Faculty of Science, Gazi University   
# Teknikokullar,06500 Ankara, Turkey   
# eMail: ngunduz '@' gazi.edu.tr   
# gunduznecla '@' yahoo.com  
#  
# Citation:  
# Gunduz, G. & Fokoue, E. (2013). UCI Machine Learning Repository [[Web Link]].   
# Irvine, CA: University of California, School of Information and   
# Computer Science.   
#  
# Attribute Information:  
# instr: Instructor's identifier; values taken from {1,2,3}   
# class: Course code (descriptor); values taken from {1-13}   
# nb.repeat: Number of times the student is taking this course; values taken from   
# {0,1,2,3,...}   
# attendance: Code of the level of attendance; values from {0, 1, 2, 3, 4}   
# difficulty: Level of difficulty of the course as perceived by the student;   
# values taken from {1,2,3,4,5}   
# Q1: The semester course content, teaching method and evaluation system were   
# provided at the start.   
# Q2: The course aims and objectives were clearly stated at the beginning of   
# the period.   
# Q3: The course was worth the amount of credit assigned to it.   
# Q4: The course was taught according to the syllabus announced on the first   
# day of class.   
# Q5: The class discussions, homework assignments, applications and studies   
# were satisfactory.   
# Q6: The textbook and other courses resources were sufficient and up to date.   
# Q7: The course allowed field work, applications, laboratory, discussion and   
# other studies.   
# Q8: The quizzes, assignments, projects and exams contributed to helping the   
# learning.   
# Q9: I greatly enjoyed the class and was eager to actively participate during   
# the lectures.   
# Q10: My initial expectations about the course were met at the end of the   
# period or year.   
# Q11: The course was relevant and beneficial to my professional development.   
# Q12: The course helped me look at life and the world with a new perspective.   
# Q13: The Instructor's knowledge was relevant and up to date.   
# Q14: The Instructor came prepared for classes.   
# Q15: The Instructor taught in accordance with the announced lesson plan.   
# Q16: The Instructor was committed to the course and was understandable.   
# Q17: The Instructor arrived on time for classes.   
# Q18: The Instructor has a smooth and easy to follow delivery/speech.   
# Q19: The Instructor made effective use of class hours.   
# Q20: The Instructor explained the course and was eager to be helpful to   
# students.   
# Q21: The Instructor demonstrated a positive approach to students.   
# Q22: The Instructor was open and respectful of the views of students about   
# the course.   
# Q23: The Instructor encouraged participation in the course.   
# Q24: The Instructor gave relevant homework assignments/projects, and   
# helped/guided students.   
# Q25: The Instructor responded to questions about the course inside and   
# outside of the course.   
# Q26: The Instructor's evaluation system (midterm and final questions,   
# projects, assignments, etc.) effectively measured the course objectives.   
# Q27: The Instructor provided solutions to exams and discussed them with   
# students.   
# Q28: The Instructor treated all students in a right and objective manner.   
#   
# Q1-Q28 are all Likert-type, meaning that the values are taken from {1,2,3,4,5}  
# Therefore, I will convert the ordinal scale to a dichotomous variable and use   
# logistic regression to assess the impact of other variables on an ordinal   
# scale variable, difficulty.  
################################################################################  
  
# setup  
# clear the environment  
rm(list = grep("^current\_date", ls(), value = TRUE, invert = TRUE))  
  
DATA\_DIR <- './data'  
IMAGES\_DIR <- './images'  
OUTPUT\_DIR <- './output'  
  
## function that concatenates strings (useful for directory paths)  
concat <- function(x1,x2) {  
 result <- paste(x1,x2,sep="")  
 return(result)  
}  
  
## function that checks to see if a package is installed and,if not,installs it  
## portions of this code came from http://stackoverflow.com/questions/9341635/how-can-i-check-for-installed-r-packages-before-running-install-packages  
load\_package <- function(x) {  
 if (x %in% rownames(installed.packages())) {   
 print(concat("package already installed: ", x))  
 }  
 else {   
 install.packages(x)   
 }  
 library(x, character.only=TRUE)  
}  
  
# get the data  
# check to see if data is already downloaded  
# if not, download it and save it to the data directory  
csv\_file <- concat(DATA\_DIR, '/turkiye-student-evaluation\_R\_Specific.csv')  
if (file.exists(csv\_file)) {  
 D <- read.csv(csv\_file)  
} else {  
 URL <- "http://archive.ics.uci.edu/ml/machine-learning-databases/00262/turkiye-student-evaluation\_R\_Specific.csv"  
 current\_date <- date()  
 download.file(url=URL,   
 destfile=csv\_file,   
 quiet=TRUE,  
 mode = "wb")  
 D <- read.csv(csv\_file)  
}  
rm(csv\_file)  
  
# how many are n/a?  
sum(is.na(D))

## [1] 0

head(which(is.na(D)))

## integer(0)

sum(is.null(D))

## [1] 0

length(which(D == ""))

## [1] 0

length(which(!complete.cases(D)))

## [1] 0

str(D)

## 'data.frame': 5820 obs. of 33 variables:  
## $ instr : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ class : int 2 2 2 2 2 2 2 2 2 2 ...  
## $ nb.repeat : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ attendance: int 0 1 2 1 0 3 1 1 1 4 ...  
## $ difficulty: int 4 3 4 3 1 3 3 3 3 4 ...  
## $ Q1 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q2 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q3 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q4 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q5 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q6 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q7 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q8 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q9 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q10 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q11 : int 3 3 5 3 1 4 4 5 5 4 ...  
## $ Q12 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q13 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q14 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q15 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q16 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q17 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q18 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q19 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q20 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q21 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q22 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q23 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q24 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q25 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q26 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q27 : int 3 3 5 3 1 4 4 5 4 4 ...  
## $ Q28 : int 3 3 5 3 1 4 4 5 4 4 ...

# make factors from instr, class, and attendance  
D[,1] <- as.factor(D[,1])  
D[,2] <- as.factor(D[,2])  
D[,4] <- as.factor(D[,4])  
  
# group data by instructor  
load\_package('dplyr')

## [1] "package already installed: dplyr"

##   
## Attaching package: 'dplyr'

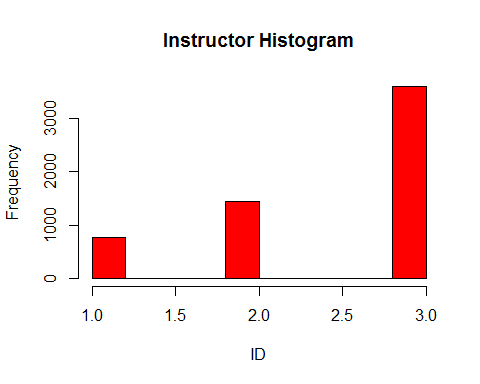
## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

p <- length(D[,1])  
grouped <- group\_by(D, as.factor(D$instr))  
grouped\_summary <- data.frame(summarise(grouped, n=n()))  
grouped\_summary$pct <- grouped\_summary$n / p  
print(grouped\_summary)

## as.factor.D.instr. n pct  
## 1 1 775 0.1331615  
## 2 2 1444 0.2481100  
## 3 3 3601 0.6187285

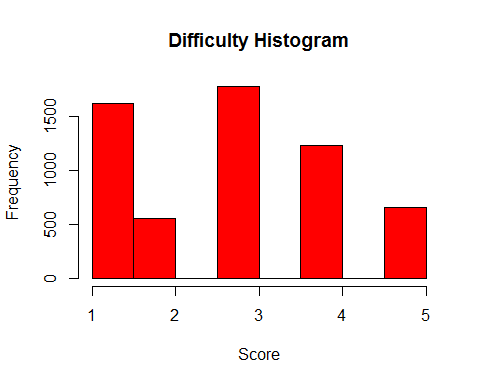
rm(p)  
rm(grouped\_summary)  
hist(as.numeric(D$instr), breaks=10, col="red", xlab="ID", main="Instructor Histogram")



# group data by difficulty  
p <- length(D[,1])  
grouped <- group\_by(D, as.factor(D$difficulty))  
grouped\_summary <- data.frame(summarise(grouped, n=n()))  
grouped\_summary$pct <- grouped\_summary$n / p  
print(grouped\_summary)

## as.factor.D.difficulty. n pct  
## 1 1 1620 0.2783505  
## 2 2 549 0.0943299  
## 3 3 1774 0.3048110  
## 4 4 1225 0.2104811  
## 5 5 652 0.1120275

rm(p)  
rm(grouped\_summary)  
hist(D$difficulty, breaks=10, col="red", xlab="Score", main="Difficulty Histogram")



# difficulty, cross-tabbed with instructor  
ft <- function(var) {  
 ftable(xtabs(~D$instr + var, data=D))  
}  
lapply(D[,2:5], ft)

## $class  
## var 1 2 3 4 5 6 7 8 9 10 11 12 13  
## D$instr   
## 1 0 140 0 0 0 0 187 0 0 448 0 0 0  
## 2 303 0 0 0 0 558 0 0 0 0 484 0 99  
## 3 0 0 904 187 656 0 0 500 571 0 0 41 742  
##   
## $nb.repeat  
## var 1 2 3  
## D$instr   
## 1 705 35 35  
## 2 1291 126 27  
## 3 2913 415 273  
##   
## $attendance  
## var 0 1 2 3 4  
## D$instr   
## 1 166 152 107 217 133  
## 2 396 291 211 317 229  
## 3 1340 585 474 718 484  
##   
## $difficulty  
## var 1 2 3 4 5  
## D$instr   
## 1 133 61 287 189 105  
## 2 337 201 579 242 85  
## 3 1150 287 908 794 462

rm(ft)  
  
# group data by class  
p <- length(D[,1])  
grouped <- group\_by(D, as.factor(D$class))  
grouped\_summary <- data.frame(summarise(grouped, n=n()))  
grouped\_summary$pct <- grouped\_summary$n / p  
print(grouped\_summary)

## as.factor.D.class. n pct  
## 1 1 303 0.052061856  
## 2 2 140 0.024054983  
## 3 3 904 0.155326460  
## 4 4 187 0.032130584  
## 5 5 656 0.112714777  
## 6 6 558 0.095876289  
## 7 7 187 0.032130584  
## 8 8 500 0.085910653  
## 9 9 571 0.098109966  
## 10 10 448 0.076975945  
## 11 11 484 0.083161512  
## 12 12 41 0.007044674  
## 13 13 841 0.144501718

rm(p)  
rm(grouped)  
rm(grouped\_summary)  
hist(as.numeric(D$class), breaks=10, col="red", xlab="ID", main="Class Histogram")   
  
# difficulty, cross-tabbed with class  
ft <- function(var) {  
 ftable(xtabs(~D$class + var, data=D))  
}  
lapply(D[,2:5], ft)

## $class  
## var 1 2 3 4 5 6 7 8 9 10 11 12 13  
## D$class   
## 1 303 0 0 0 0 0 0 0 0 0 0 0 0  
## 2 0 140 0 0 0 0 0 0 0 0 0 0 0  
## 3 0 0 904 0 0 0 0 0 0 0 0 0 0  
## 4 0 0 0 187 0 0 0 0 0 0 0 0 0  
## 5 0 0 0 0 656 0 0 0 0 0 0 0 0  
## 6 0 0 0 0 0 558 0 0 0 0 0 0 0  
## 7 0 0 0 0 0 0 187 0 0 0 0 0 0  
## 8 0 0 0 0 0 0 0 500 0 0 0 0 0  
## 9 0 0 0 0 0 0 0 0 571 0 0 0 0  
## 10 0 0 0 0 0 0 0 0 0 448 0 0 0  
## 11 0 0 0 0 0 0 0 0 0 0 484 0 0  
## 12 0 0 0 0 0 0 0 0 0 0 0 41 0  
## 13 0 0 0 0 0 0 0 0 0 0 0 0 841  
##   
## $nb.repeat  
## var 1 2 3  
## D$class   
## 1 272 25 6  
## 2 130 7 3  
## 3 778 87 39  
## 4 154 20 13  
## 5 611 28 17  
## 6 494 55 9  
## 7 150 14 23  
## 8 379 69 52  
## 9 400 99 72  
## 10 425 14 9  
## 11 431 43 10  
## 12 34 5 2  
## 13 651 110 80  
##   
## $attendance  
## var 0 1 2 3 4  
## D$class   
## 1 92 60 40 54 57  
## 2 19 35 21 47 18  
## 3 356 139 146 149 114  
## 4 79 24 20 52 12  
## 5 209 92 102 165 88  
## 6 144 125 91 118 80  
## 7 36 43 23 48 37  
## 8 146 69 54 110 121  
## 9 230 101 65 116 59  
## 10 111 74 63 122 78  
## 11 118 101 66 121 78  
## 12 6 18 4 8 5  
## 13 356 147 97 142 99  
##   
## $difficulty  
## var 1 2 3 4 5  
## D$class   
## 1 83 47 127 34 12  
## 2 11 9 49 49 22  
## 3 334 28 181 204 157  
## 4 69 10 45 44 19  
## 5 201 32 149 179 95  
## 6 120 103 241 67 27  
## 7 12 4 38 84 49  
## 8 97 52 165 126 60  
## 9 177 52 172 132 38  
## 10 110 48 200 56 34  
## 11 88 35 185 132 44  
## 12 5 4 24 6 2  
## 13 313 125 198 112 93

rm(ft)  
write.csv(ftable(xtabs(~D$class + D$difficulty, data=D)), file=concat(OUTPUT\_DIR, '/difficulty by class.csv'))  
  
# instructor, cross-tabbed with class  
write.csv(ftable(xtabs(~D$class + D$instr, data=D)), file=concat(OUTPUT\_DIR, '/instructor by class.csv'))  
  
# each question, cross-tabbed with difficulty  
ft <- function(var) {  
 ftable(xtabs(~D$difficulty + var, data=D))  
}  
lapply(D[,6:33], ft)

## $Q1  
## var 1 2 3 4 5  
## D$difficulty   
## 1 512 183 413 263 249  
## 2 94 120 154 112 69  
## 3 260 272 473 512 257  
## 4 180 226 351 313 155  
## 5 197 85 172 92 106  
##   
## $Q2  
## var 1 2 3 4 5  
## D$difficulty   
## 1 453 209 417 296 245  
## 2 59 124 149 141 76  
## 3 168 201 537 596 272  
## 4 132 172 391 370 160  
## 5 174 94 187 101 96  
##   
## $Q3  
## var 1 2 3 4 5  
## D$difficulty   
## 1 423 190 438 324 245  
## 2 49 93 151 166 90  
## 3 123 170 546 644 291  
## 4 100 140 411 403 171  
## 5 160 90 200 102 100  
##   
## $Q4  
## var 1 2 3 4 5  
## D$difficulty   
## 1 438 211 420 303 248  
## 2 66 103 157 150 73  
## 3 168 233 520 572 281  
## 4 128 171 386 377 163  
## 5 170 91 191 103 97  
##   
## $Q5  
## var 1 2 3 4 5  
## D$difficulty   
## 1 436 211 421 298 254  
## 2 61 104 157 149 78  
## 3 149 218 541 580 286  
## 4 115 168 395 376 171  
## 5 169 102 185 94 102  
##   
## $Q6  
## var 1 2 3 4 5  
## D$difficulty   
## 1 437 187 432 310 254  
## 2 63 103 159 144 80  
## 3 154 215 514 596 295  
## 4 119 170 414 360 162  
## 5 173 93 190 99 97  
##   
## $Q7  
## var 1 2 3 4 5  
## D$difficulty   
## 1 432 218 422 298 250  
## 2 66 110 155 146 72  
## 3 166 220 544 579 265  
## 4 129 178 410 349 159  
## 5 179 97 182 99 95  
##   
## $Q8  
## var 1 2 3 4 5  
## D$difficulty   
## 1 436 218 433 278 255  
## 2 64 127 152 133 73  
## 3 170 264 537 530 273  
## 4 127 196 400 342 160  
## 5 175 98 189 94 96  
##   
## $Q9  
## var 1 2 3 4 5  
## D$difficulty   
## 1 415 191 440 306 268  
## 2 53 93 158 152 93  
## 3 142 177 542 595 318  
## 4 106 147 434 365 173  
## 5 164 85 203 103 97  
##   
## $Q10  
## var 1 2 3 4 5  
## D$difficulty   
## 1 432 203 441 292 252  
## 2 50 110 162 143 84  
## 3 153 203 561 565 292  
## 4 120 177 426 345 157  
## 5 187 94 181 96 94  
##   
## $Q11  
## var 1 2 3 4 5  
## D$difficulty   
## 1 422 199 421 304 274  
## 2 54 91 147 159 98  
## 3 145 151 530 601 347  
## 4 124 151 384 373 193  
## 5 172 86 178 111 105  
##   
## $Q12  
## var 1 2 3 4 5  
## D$difficulty   
## 1 440 211 429 291 249  
## 2 69 114 149 132 85  
## 3 198 215 548 525 288  
## 4 153 191 389 323 169  
## 5 192 91 181 96 92  
##   
## $Q13  
## var 1 2 3 4 5  
## D$difficulty   
## 1 405 191 437 322 265  
## 2 55 80 138 175 101  
## 3 125 152 491 666 340  
## 4 96 126 383 432 188  
## 5 148 82 206 113 103  
##   
## $Q14  
## var 1 2 3 4 5  
## D$difficulty   
## 1 399 175 434 346 266  
## 2 51 79 131 188 100  
## 3 118 141 481 678 356  
## 4 81 118 377 444 205  
## 5 138 77 197 133 107  
##   
## $Q15  
## var 1 2 3 4 5  
## D$difficulty   
## 1 398 176 437 345 264  
## 2 51 70 139 185 104  
## 3 115 140 505 667 347  
## 4 85 113 375 444 208  
## 5 142 73 203 129 105  
##   
## $Q16  
## var 1 2 3 4 5  
## D$difficulty   
## 1 418 185 431 329 257  
## 2 57 88 145 155 104  
## 3 148 178 507 605 336  
## 4 125 155 410 357 178  
## 5 169 83 188 110 102  
##   
## $Q17  
## var 1 2 3 4 5  
## D$difficulty   
## 1 399 162 424 347 288  
## 2 44 74 119 192 120  
## 3 103 106 425 714 426  
## 4 72 92 335 465 261  
## 5 131 65 184 136 136  
##   
## $Q18  
## var 1 2 3 4 5  
## D$difficulty   
## 1 414 180 432 327 267  
## 2 50 92 141 166 100  
## 3 137 156 497 635 349  
## 4 112 127 392 395 199  
## 5 155 85 197 112 103  
##   
## $Q19  
## var 1 2 3 4 5  
## D$difficulty   
## 1 407 176 445 318 274  
## 2 49 84 146 164 106  
## 3 125 129 503 662 355  
## 4 96 126 388 405 210  
## 5 146 85 196 120 105  
##   
## $Q20  
## var 1 2 3 4 5  
## D$difficulty   
## 1 402 173 437 326 282  
## 2 55 86 135 162 111  
## 3 132 136 489 644 373  
## 4 89 117 377 416 226  
## 5 139 79 196 122 116  
##   
## $Q21  
## var 1 2 3 4 5  
## D$difficulty   
## 1 395 184 431 323 287  
## 2 47 78 144 169 111  
## 3 127 130 474 665 378  
## 4 86 112 383 415 229  
## 5 135 77 189 134 117  
##   
## $Q22  
## var 1 2 3 4 5  
## D$difficulty   
## 1 396 184 435 322 283  
## 2 49 78 135 172 115  
## 3 113 124 487 663 387  
## 4 89 107 366 436 227  
## 5 137 73 197 125 120  
##   
## $Q23  
## var 1 2 3 4 5  
## D$difficulty   
## 1 409 195 452 301 263  
## 2 52 91 160 147 99  
## 3 137 158 530 616 333  
## 4 97 144 403 378 203  
## 5 161 85 188 114 104  
##   
## $Q24  
## var 1 2 3 4 5  
## D$difficulty   
## 1 412 197 448 312 251  
## 2 55 102 156 149 87  
## 3 146 185 530 591 322  
## 4 107 154 394 368 202  
## 5 161 87 192 110 102  
##   
## $Q25  
## var 1 2 3 4 5  
## D$difficulty   
## 1 391 185 426 347 271  
## 2 46 83 144 173 103  
## 3 112 121 504 660 377  
## 4 88 107 368 431 231  
## 5 133 75 200 133 111  
##   
## $Q26  
## var 1 2 3 4 5  
## D$difficulty   
## 1 402 179 452 324 263  
## 2 52 87 148 168 94  
## 3 138 147 510 635 344  
## 4 99 132 401 396 197  
## 5 161 92 188 107 104  
##   
## $Q27  
## var 1 2 3 4 5  
## D$difficulty   
## 1 423 192 421 324 260  
## 2 62 94 144 161 88  
## 3 156 200 502 594 322  
## 4 121 157 378 377 192  
## 5 169 82 188 118 95  
##   
## $Q28  
## var 1 2 3 4 5  
## D$difficulty   
## 1 400 171 437 332 280  
## 2 50 78 140 167 114  
## 3 128 122 473 659 392  
## 4 91 111 373 410 240  
## 5 143 78 189 127 115

rm(ft)  
  
## Use clusterSim package to normalize the question data  
# store the data in D\_norm  
citation(package = "clusterSim", lib.loc = NULL, auto = NULL)

##   
## To cite package 'clusterSim' in publications use:  
##   
## Marek Walesiak Andrzej Dudek <andrzej.dudek@ue.wroc.pl> (2015).  
## clusterSim: Searching for Optimal Clustering Procedure for a  
## Data Set. R package version 0.44-2.  
## https://CRAN.R-project.org/package=clusterSim  
##   
## A BibTeX entry for LaTeX users is  
##   
## @Manual{,  
## title = {clusterSim: Searching for Optimal Clustering Procedure for a Data Set},  
## author = {Marek Walesiak Andrzej Dudek <andrzej.dudek@ue.wroc.pl>},  
## year = {2015},  
## note = {R package version 0.44-2},  
## url = {https://CRAN.R-project.org/package=clusterSim},  
## }  
##   
## ATTENTION: This citation information has been auto-generated from  
## the package DESCRIPTION file and may need manual editing, see  
## 'help("citation")'.

load\_package('clusterSim')

## [1] "package already installed: clusterSim"

## Loading required package: cluster

## Loading required package: MASS

##   
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':  
##   
## select

source('ConvertAndBackup.R')  
# look at correlations  
write.csv(cor(D\_norm[,6:33]), file=concat(OUTPUT\_DIR, '/correlations.csv'))  
load\_package('corrplot')

## [1] "package already installed: corrplot"

## Warning: package 'corrplot' was built under R version 3.2.4

col1 <- colorRampPalette(c("#7F0000", "red", "#FF7F00", "yellow", "white", "cyan",   
 "#007FFF", "blue", "#00007F"))  
col2 <- colorRampPalette(c("#67001F", "#B2182B", "#D6604D", "#F4A582", "#FDDBC7",   
 "#FFFFFF", "#D1E5F0", "#92C5DE", "#4393C3", "#2166AC", "#053061"))  
col3 <- colorRampPalette(c("red", "white", "blue"))  
col4 <- colorRampPalette(c("#7F0000", "red", "#FF7F00", "yellow", "#7FFF7F",   
 "cyan", "#007FFF", "blue", "#00007F"))  
wb <- c("white", "black")  
png(concat(IMAGES\_DIR,'/correlations 1.png'),   
 width = 1024, height = 1024)  
corrplot(cor(D\_norm[,6:33]), order="hclust", addrect = 5, col=col4(10))  
dev.off()

## png   
## 2

################################  
# Principal Component Analysis #  
################################  
pca <- prcomp(D\_norm[,6:33])  
summary(pca)

## Importance of components:  
## PC1 PC2 PC3 PC4 PC5 PC6  
## Standard deviation 1.5081 0.3671 0.20488 0.19893 0.17621 0.16457  
## Proportion of Variance 0.8084 0.0479 0.01492 0.01406 0.01104 0.00963  
## Cumulative Proportion 0.8084 0.8563 0.87118 0.88525 0.89628 0.90591  
## PC7 PC8 PC9 PC10 PC11 PC12  
## Standard deviation 0.14706 0.1414 0.13754 0.12490 0.1232 0.1221  
## Proportion of Variance 0.00769 0.0071 0.00672 0.00554 0.0054 0.0053  
## Cumulative Proportion 0.91359 0.9207 0.92742 0.93297 0.9384 0.9437  
## PC13 PC14 PC15 PC16 PC17 PC18  
## Standard deviation 0.11481 0.11293 0.11094 0.10922 0.1074 0.10489  
## Proportion of Variance 0.00468 0.00453 0.00437 0.00424 0.0041 0.00391  
## Cumulative Proportion 0.94834 0.95288 0.95725 0.96149 0.9656 0.96950  
## PC19 PC20 PC21 PC22 PC23 PC24  
## Standard deviation 0.10276 0.10159 0.09770 0.09720 0.09498 0.09334  
## Proportion of Variance 0.00375 0.00367 0.00339 0.00336 0.00321 0.00310  
## Cumulative Proportion 0.97325 0.97692 0.98031 0.98367 0.98688 0.98997  
## PC25 PC26 PC27 PC28  
## Standard deviation 0.08957 0.08677 0.08068 0.07843  
## Proportion of Variance 0.00285 0.00268 0.00231 0.00219  
## Cumulative Proportion 0.99282 0.99550 0.99781 1.00000

# between 5 and 6 PC's make-up 90% of the cumulative variance  
  
# variance charts  
# from http://rstudio-pubs-static.s3.amazonaws.com/27823\_dbc155ba66444eae9eb0a6bacb36824f.html  
pcaCharts <- function(x) {  
 x.var <- x$sdev ^ 2  
 x.pvar <- x.var/sum(x.var)  
 par(mfrow=c(2,2))  
 plot(x.pvar,  
 xlab="Principal Component",   
 ylab="Variance",   
 ylim=c(0,1),   
 type='b',  
 main="Proportion of Variance Explained")  
 plot(cumsum(x.pvar),  
 xlab="Principal Component",   
 ylab="Variance",   
 ylim=c(0,1), type='b',  
 main="Cumulative Proportion of Variance Explained")  
 abline(h=0.9,col="red")  
 cor\_eigs <- eigen(cor(D\_norm[,6:33]))  
 plot(cor\_eigs$values,   
 xlab="Principal Component",  
 ylab="Eigenvalues",   
 type="b",  
 main="Eigenvalues")  
 abline(h=1,col="red")  
 par(mfrow=c(1,1))  
}  
png(concat(IMAGES\_DIR,'/variance graphs.png'),   
 width = 1024, height = 1024)  
pcaCharts(pca)  
dev.off()

## png   
## 2

# scree plot of eigenvalues suggests two PC's should work  
pca\_data <- data.frame(difficulty=as.factor(D\_norm$D.difficulty), PC1=pca$x[,1], PC2=pca$x[,2])  
  
##########################################  
# Ordered Logistic Regression using PC's #  
##########################################  
m <- polr(pca\_data$difficulty ~ ., data=pca\_data, Hess=TRUE)  
summary(m)

## Call:  
## polr(formula = pca\_data$difficulty ~ ., data = pca\_data, Hess = TRUE)  
##   
## Coefficients:  
## Value Std. Error t value  
## PC1 -0.09364 0.01621 -5.775  
## PC2 -0.26618 0.06260 -4.252  
##   
## Intercepts:  
## Value Std. Error t value   
## 1|2 -0.9484 0.0293 -32.3449  
## 2|3 -0.5097 0.0272 -18.7240  
## 3|4 0.7629 0.0283 26.9645  
## 4|5 2.0889 0.0417 50.0673  
##   
## Residual Deviance: 17571.68   
## AIC: 17583.68

(ctable <- coef(summary(m)))

## Value Std. Error t value  
## PC1 -0.09363566 0.01621474 -5.774727  
## PC2 -0.26618424 0.06260098 -4.252078  
## 1|2 -0.94842529 0.02932221 -32.344948  
## 2|3 -0.50972293 0.02722296 -18.724006  
## 3|4 0.76293473 0.02829401 26.964531  
## 4|5 2.08888090 0.04172150 50.067253

p <- pnorm(abs(ctable[, "t value"]), lower.tail=FALSE) \* 2  
(ctable <- cbind(ctable, "p vlaue" = p))

## Value Std. Error t value p vlaue  
## PC1 -0.09363566 0.01621474 -5.774727 7.707817e-09  
## PC2 -0.26618424 0.06260098 -4.252078 2.117963e-05  
## 1|2 -0.94842529 0.02932221 -32.344948 1.633880e-229  
## 2|3 -0.50972293 0.02722296 -18.724006 3.155080e-78  
## 3|4 0.76293473 0.02829401 26.964531 3.853478e-160  
## 4|5 2.08888090 0.04172150 50.067253 0.000000e+00

(ci <- confint(m))

## Waiting for profiling to be done...

## 2.5 % 97.5 %  
## PC1 -0.1254261 -0.06186221  
## PC2 -0.3890176 -0.14359024

# neither of the PC's CI crosses 0, so the parameter estimate is statistically   
# significant  
confint.default(m)

## 2.5 % 97.5 %  
## PC1 -0.1254160 -0.06185537  
## PC2 -0.3888799 -0.14348857

# For a one unit increase in PC1, we expect a 0.094 decrease in the expected  
# value of difficulty on the log odds scale, given PC2 is held constant.  
# For a one unit increase in PC2, we expect a 0.266 decrease in the expected  
# value of difficulty on the log odds scale, given PC1 is held constant.  
## odds ratios  
exp(coef(m))

## PC1 PC2   
## 0.9106145 0.7662979

## OR and CI  
exp(cbind(OR = coef(m), ci))

## OR 2.5 % 97.5 %  
## PC1 0.9106145 0.8821209 0.9400124  
## PC2 0.7662979 0.6777223 0.8662426

# For a one unit increase in PC1, the odds of "1" difficulty versus "2", "3",   
# "4", or "5" combined are 0.911 times greater, given that PC2 is held constant.  
# Likewise, the odds "1" difficulty or "2" or "3" or "4" versus "5" difficulty  
# is 0.911 times greater, given PC2 is held constant.   
  
# make predictions  
predicted <- predict(m)  
  
# graphical interpretation  
load\_package('Hmisc')

## [1] "package already installed: Hmisc"

## Warning: package 'Hmisc' was built under R version 3.2.4

## Loading required package: lattice

## Loading required package: survival

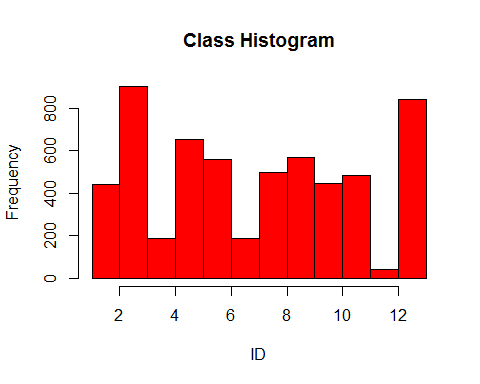
## Loading required package: Formula

## Loading required package: ggplot2

##   
## Attaching package: 'Hmisc'

## The following objects are masked from 'package:dplyr':  
##   
## combine, src, summarize

## The following objects are masked from 'package:base':  
##   
## format.pval, round.POSIXt, trunc.POSIXt, units



sf <- function(y) {  
 c('Y>=1' = qlogis(mean(y >= 1)),  
 'Y>=2' = qlogis(mean(y >= 2)),  
 'Y>=3' = qlogis(mean(y >= 3)),  
 'Y>=4' = qlogis(mean(y >= 4)),  
 'Y>=5' = qlogis(mean(y >= 5)))  
}  
(s <- with(pca\_data, summary(as.numeric(difficulty) ~ PC1 + PC2, fun=sf)))

## as.numeric(difficulty) N=5820  
##   
## +-------+-----------------+----+----+---------+-----------+----------+---------+  
## | | |N |Y>=1|Y>=2 |Y>=3 |Y>=4 |Y>=5 |  
## +-------+-----------------+----+----+---------+-----------+----------+---------+  
## |PC1 |[-2.157,-1.407) |1737|Inf |1.0810345| 0.63413048|-0.8779167|-2.381057|  
## | |[-1.407, 0.246) |1173|Inf |1.6689234| 0.97614540|-0.6931472|-2.601317|  
## | |[ 0.246, 0.919) |1455|Inf |1.0010831| 0.61979455|-0.5569167|-1.951420|  
## | |[ 0.919, 2.626] |1455|Inf |0.3456693|-0.02611832|-0.8163961|-1.606966|  
## +-------+-----------------+----+----+---------+-----------+----------+---------+  
## |PC2 |[-2.1621,-0.0519)|1455|Inf |1.5488133| 0.89188177|-0.5658312|-2.148544|  
## | |[-0.0519, 0.0891)|1592|Inf |0.4655147| 0.15862322|-0.8974594|-1.873253|  
## | |[ 0.0891, 0.2121)|1318|Inf |1.0885214| 0.58684260|-0.7739293|-2.300917|  
## | |[ 0.2121, 2.2567]|1455|Inf |0.9052515| 0.52146988|-0.7304959|-2.036105|  
## +-------+-----------------+----+----+---------+-----------+----------+---------+  
## |Overall| |5820|Inf |0.9526584| 0.52073487|-0.7422671|-2.070196|  
## +-------+-----------------+----+----+---------+-----------+----------+---------+

# compare the GLM  
glm(I(as.numeric(difficulty) >= 2) ~ PC1, family = 'binomial', data=pca\_data)

##   
## Call: glm(formula = I(as.numeric(difficulty) >= 2) ~ PC1, family = "binomial",   
## data = pca\_data)  
##   
## Coefficients:  
## (Intercept) PC1   
## 0.9813 -0.2410   
##   
## Degrees of Freedom: 5819 Total (i.e. Null); 5818 Residual  
## Null Deviance: 6884   
## Residual Deviance: 6731 AIC: 6735

glm(I(as.numeric(difficulty) >= 3) ~ PC1, family = 'binomial', data=pca\_data)

##   
## Call: glm(formula = I(as.numeric(difficulty) >= 3) ~ PC1, family = "binomial",   
## data = pca\_data)  
##   
## Coefficients:  
## (Intercept) PC1   
## 0.5311 -0.1936   
##   
## Degrees of Freedom: 5819 Total (i.e. Null); 5818 Residual  
## Null Deviance: 7687   
## Residual Deviance: 7572 AIC: 7576

glm(I(as.numeric(difficulty) >= 4) ~ PC1, family = 'binomial', data=pca\_data)

##   
## Call: glm(formula = I(as.numeric(difficulty) >= 4) ~ PC1, family = "binomial",   
## data = pca\_data)  
##   
## Coefficients:  
## (Intercept) PC1   
## -0.74239 0.01769   
##   
## Degrees of Freedom: 5819 Total (i.e. Null); 5818 Residual  
## Null Deviance: 7319   
## Residual Deviance: 7318 AIC: 7322

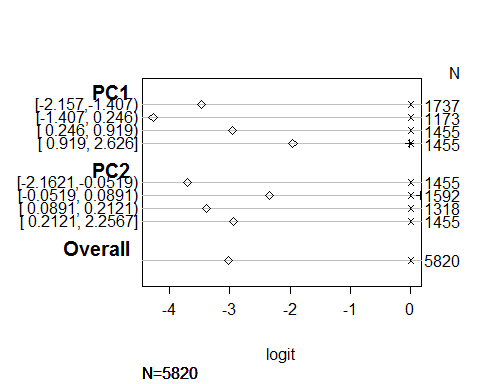
glm(I(as.numeric(difficulty) >= 5) ~ PC1, family = 'binomial', data=pca\_data)

##   
## Call: glm(formula = I(as.numeric(difficulty) >= 5) ~ PC1, family = "binomial",   
## data = pca\_data)  
##   
## Coefficients:  
## (Intercept) PC1   
## -2.1099 0.2117   
##   
## Degrees of Freedom: 5819 Total (i.e. Null); 5818 Residual  
## Null Deviance: 4083   
## Residual Deviance: 4023 AIC: 4027

s[,6] <- s[,6] - s[,3]  
s[,5] <- s[,3] - s[,3]  
s

## as.numeric(difficulty) N=5820  
##   
## +-------+-----------------+----+----+---------+-----------+----+---------+  
## | | |N |Y>=1|Y>=2 |Y>=3 |Y>=4|Y>=5 |  
## +-------+-----------------+----+----+---------+-----------+----+---------+  
## |PC1 |[-2.157,-1.407) |1737|Inf |1.0810345| 0.63413048|0 |-3.462091|  
## | |[-1.407, 0.246) |1173|Inf |1.6689234| 0.97614540|0 |-4.270240|  
## | |[ 0.246, 0.919) |1455|Inf |1.0010831| 0.61979455|0 |-2.952503|  
## | |[ 0.919, 2.626] |1455|Inf |0.3456693|-0.02611832|0 |-1.952635|  
## +-------+-----------------+----+----+---------+-----------+----+---------+  
## |PC2 |[-2.1621,-0.0519)|1455|Inf |1.5488133| 0.89188177|0 |-3.697357|  
## | |[-0.0519, 0.0891)|1592|Inf |0.4655147| 0.15862322|0 |-2.338767|  
## | |[ 0.0891, 0.2121)|1318|Inf |1.0885214| 0.58684260|0 |-3.389438|  
## | |[ 0.2121, 2.2567]|1455|Inf |0.9052515| 0.52146988|0 |-2.941357|  
## +-------+-----------------+----+----+---------+-----------+----+---------+  
## |Overall| |5820|Inf |0.9526584| 0.52073487|0 |-3.022855|  
## +-------+-----------------+----+----+---------+-----------+----+---------+

plot(s, which=1:5, pch=1:5, xlab='logit', main = ' ', xlim=range(s[,5:6]))



###############################  
# K-Means Clustering Analysis #  
###############################  
# Determine number of clusters based on weighted sum of squares  
wss <- (nrow(D\_norm)-1)\*sum(apply(D\_norm[,6:33],2,var))  
for (i in 2:15) wss[i] <- sum(kmeans(D\_norm[,6:33], centers=i)$withinss)  
png(concat(IMAGES\_DIR,'/wss to pick number of clusters.png'),   
 width = 1024, height = 1024)  
plot(1:15, wss, type="b", xlab="Number of Clusters",  
 ylab="Within groups sum of squares")  
dev.off()

## png   
## 2

# K-Means Cluster Analysis for k=5  
fit5 <- kmeans(D\_norm[,6:33], 5) # 5 cluster solution  
  
# cluster plot with ellipses  
load\_package("cluster")

## [1] "package already installed: cluster"

png(concat(IMAGES\_DIR,'/cluster plot1.png'),   
 width = 1024, height = 1024)  
clusplot(D\_norm[,6:33],   
 fit5$cluster,   
 color=TRUE,   
 shade=TRUE,   
 labels=4,   
 lines=0,  
 main="Cluster Plot with k=5")  
dev.off()

## png   
## 2

# Centroid Plot against 1st 2 discriminant functions  
load\_package("fpc")

## [1] "package already installed: fpc"

png(concat(IMAGES\_DIR,'/cluster plot2.png'),   
 width = 1024, height = 1024)  
plotcluster(D\_norm[,6:33],   
 method="dc",  
 fit5$cluster,  
 main="Cluster Plot with k=5")  
dev.off()

## png   
## 2

# Colors represent clusters and numbers represent y's  
clvecd <- as.integer(D\_norm$D.difficulty)  
png(concat(IMAGES\_DIR,'/cluster plot3.png'),   
 width = 1024, height = 1024)  
plotcluster(x=D\_norm[,6:33],   
 clvecd=fit5$cluster,  
 method="dc",  
 clnum=clvecd,  
 main="Cluster Plot with k=5")  
dev.off()

## png   
## 2

# Colors represent y's and numbers represent clusters  
png(concat(IMAGES\_DIR,'/cluster plot4.png'),   
 width = 1024, height = 1024)  
plotcluster(x=D\_norm[,6:33],   
 clvecd=clvecd,  
 method="dc",  
 clnum=fit5$cluster,  
 main="Cluster Plot with k=5")  
dev.off()

## png   
## 2

####################################  
# Hierarchical Clustering Analysis #  
####################################  
d <- dist(D\_norm[,6:33], method="euclidean")  
# Option "ward.D2" implements Ward's (1963) clustering criterion   
# (Murtagh and Legendre 2014). With the latter, the dissimilarities   
# are squared before cluster updating.  
fit <- hclust(d, method="ward.D2")  
groups <- cutree(fit, k=5)  
  
load\_package("sparcl")

## [1] "package already installed: sparcl"

png(concat(IMAGES\_DIR,'/dendrogram - difficulty.png'),   
 width = 1024, height = 512)  
ColorDendrogram(fit,   
 y = D$difficulty,   
 main = "Hierarchical Clustering (Colors are Difficulty Score)",   
 xlab = "Euclidean Distance",  
 sub = "with Ward D2 Clustering",  
 branchlength = 50)  
# draw red borders around the 5 clusters   
rect.hclust(fit, k=5, border="red")  
dev.off()

## png   
## 2

png(concat(IMAGES\_DIR,'/dendrogram - inst.png'),   
 width = 1024, height = 512)  
ColorDendrogram(fit,   
 y = D$instr,   
 main = "Hierarchical Clustering (Colors are Instructor)",   
 xlab = "Euclidean Distance",  
 sub = "with Ward D2 Clustering",  
 branchlength = 50)  
# draw red borders around the 3 clusters   
rect.hclust(fit, k=3, border="red")  
dev.off()

## png   
## 2

png(concat(IMAGES\_DIR,'/dendrogram - attendance.png'),   
 width = 1024, height = 512)  
ColorDendrogram(fit,   
 y = D$attendance,   
 main = "Hierarchical Clustering (Colors are Attendance)",   
 xlab = "Euclidean Distance",  
 sub = "with Ward D2 Clustering",  
 branchlength = 50)  
# draw red borders around the 3 clusters   
rect.hclust(fit, k=5, border="red")  
dev.off()

## png   
## 2

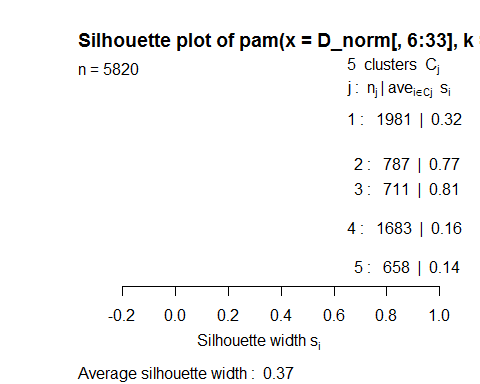
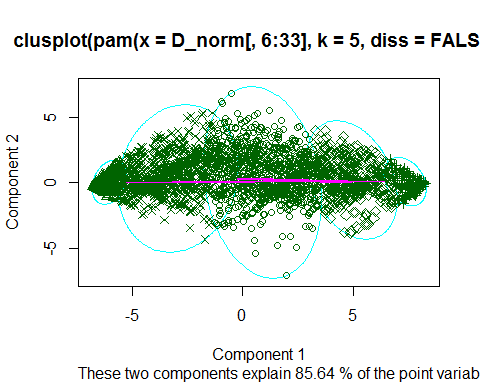
png(concat(IMAGES\_DIR,'/dendrogram - Q14.png'),   
 width = 1024, height = 512)  
ColorDendrogram(fit,   
 y = D$Q14,   
 main = "Hierarchical Clustering (Colors are Q14)",   
 xlab = "Euclidean Distance",  
 sub = "with Ward D2 Clustering",  
 branchlength = 50)  
# draw red borders around the 3 clusters   
rect.hclust(fit, k=5, border="red")  
dev.off()

## png   
## 2

#######  
# PAM #  
#######  
p <- pam(x=D\_norm[,6:33], diss=FALSE, k=5)  
summary(p)

## Medoids:  
## ID Q1\_norm Q2\_norm Q3\_norm Q4\_norm Q5\_norm Q6\_norm  
## 5812 5812 0.5907370 0.53097093 0.48861347 0.53010318 0.52606781 0.52264968  
## 5818 5818 1.0000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000  
## 5820 5820 0.1083060 0.09347508 0.08852882 0.09330846 0.09266497 0.09344679  
## 5810 5810 0.8884399 0.87409823 0.86177117 0.87311853 0.87159381 0.87102152  
## 5799 5799 0.3373808 0.27982110 0.24837709 0.27833175 0.27208296 0.27234182  
## Q7\_norm Q8\_norm Q9\_norm Q10\_norm Q11\_norm Q12\_norm  
## 5812 0.53570970 0.55502162 0.50574547 0.53207871 0.50514485 0.55606308  
## 5818 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000  
## 5820 0.09214991 0.09312378 0.09314089 0.09265991 0.09954565 0.09956911  
## 5810 0.87678194 0.88168053 0.86588269 0.87607067 0.85914086 0.88054838  
## 5799 0.27818943 0.28574821 0.25799586 0.27232093 0.26942083 0.29750008  
## Q13\_norm Q14\_norm Q15\_norm Q16\_norm Q17\_norm Q18\_norm  
## 5812 0.47222519 0.45394706 0.45432056 0.50547153 0.4319458 0.48568413  
## 5818 1.00000000 1.00000000 1.00000000 1.00000000 1.0000000 1.00000000  
## 5820 0.09290959 0.09253807 0.09242767 0.09709891 0.1019243 0.09656878  
## 5810 0.84958326 0.84100850 0.84283188 0.86151041 0.8203896 0.85307765  
## 5799 0.24665890 0.23788638 0.23690493 0.26722058 0.2376530 0.25671132  
## Q19\_norm Q20\_norm Q21\_norm Q22\_norm Q23\_norm Q24\_norm  
## 5812 0.47221884 0.47039455 0.46217942 0.45842558 0.4968454 0.50840325  
## 5818 1.00000000 1.00000000 1.00000000 1.00000000 1.0000000 1.00000000  
## 5820 0.09571295 0.09883073 0.09797597 0.09819877 0.0948638 0.09410513  
## 5810 0.84829227 0.84380122 0.84013004 0.83848205 0.8596896 0.86420261  
## 5799 0.24701466 0.24940818 0.24423597 0.24261647 0.2556356 0.26178763  
## Q25\_norm Q26\_norm Q27\_norm Q28\_norm  
## 5812 0.45455120 0.48406798 0.50897428 0.4634953  
## 5818 1.00000000 1.00000000 1.00000000 1.0000000  
## 5820 0.09499134 0.09461814 0.09673792 0.1005114  
## 5810 0.83963660 0.85461724 0.86175001 0.8394549  
## 5799 0.23733556 0.25208351 0.27129999 0.2484618  
## Clustering vector:  
## 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15   
## 1 1 2 1 3 4 4 2 4 4 1 1 4 3 3   
## 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30   
## 2 3 4 3 2 5 3 1 4 2 5 4 5 2 4   
## 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45   
## 1 1 4 4 5 1 5 2 3 1 4 2 1 2 2   
## 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60   
## 1 2 4 4 4 2 2 2 5 2 4 1 3 2 2   
## 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75   
## 2 2 2 4 2 2 2 4 1 2 4 1 1 4 4   
## 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90   
## 2 1 4 4 4 4 3 3 4 4 2 4 2 1 1   
## 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105   
## 2 4 2 3 2 3 2 4 4 3 2 2 3 2 2   
## 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120   
## 1 2 4 1 1 5 4 4 3 2 2 2 2 2 1   
## 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135   
## 2 1 1 2 3 1 3 1 4 5 2 2 1 1 2   
## 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150   
## 1 2 5 4 1 1 3 1 3 3 2 1 4 4 2   
## 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165   
## 1 2 1 4 4 3 1 4 1 1 4 3 1 4 1   
## 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180   
## 4 3 1 2 5 2 2 4 1 4 4 2 3 1 1   
## 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195   
## 4 4 4 4 1 1 2 1 3 1 2 2 5 1 3   
## 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210   
## 1 4 1 5 3 1 1 4 1 1 4 4 3 5 1   
## 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225   
## 4 1 1 1 3 1 1 5 4 4 1 1 5 5 1   
## 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240   
## 4 1 1 5 4 2 5 1 1 1 1 1 3 3 2   
## 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255   
## 3 2 4 4 3 4 4 4 4 3 1 3 3 4 2   
## 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270   
## 2 1 4 4 1 1 1 4 1 3 1 1 1 1 1   
## 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285   
## 3 3 4 1 2 1 4 4 1 4 1 4 3 1 4   
## 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300   
## 4 3 2 4 1 5 3 4 1 2 2 4 2 2 4   
## 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315   
## 1 4 2 2 1 3 4 1 2 1 4 1 4 3 3   
## 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330   
## 1 2 1 3 3 3 4 3 1 1 3 3 2 4 2   
## 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345   
## 1 4 1 2 3 1 1 1 1 3 1 3 4 4 2   
## 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360   
## 4 4 5 1 5 1 4 5 5 4 2 1 4 3 1   
## 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375   
## 1 3 5 4 1 1 5 4 5 5 1 4 4 5 1   
## 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390   
## 1 2 1 3 4 4 2 1 3 1 2 5 4 1 4   
## 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405   
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## 5116 5117 5118 5119 5120 5121 5122 5123 5124 5125 5126 5127 5128 5129 5130   
## 4 5 1 3 3 5 3 2 5 1 3 5 1 1 3   
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## 5 5 3 1 4 1 3 1 5 1 5 4 4 2 4   
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## 4 1 4 2 3 1 1 1 5 4 5 1 4 2 1   
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## 1 1 4 1 1 3 3 4 1 3 3 1 3 1 5   
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## 3 4 1 5 5 3 1 5 3 5 5 1 1 3 3   
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## 3 3 4 1 5 2 3 1 3 5 3 4 3 4 3   
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## 4 1 1 2 2 1 1 5 5 2 1 1 1 4 1   
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## 1 1 2 4 5 1 4 4 1 5 2 5 1 1 2   
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## 3 3 5 3 5 1 1 1 4 2 1 4 1 1 2   
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## 5 3 4 5 5 5 3 2 4 4 1 5 1 1 1   
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## 3 4 2 5 4 1 1 3 1 3 3 2 2 3 3   
## Objective function:  
## build swap   
## 0.5126415 0.5126415   
##   
## Numerical information per cluster:  
## size max\_diss av\_diss diameter separation  
## [1,] 1981 2.593972 0.6809402 4.785087 0.2255663  
## [2,] 787 1.346955 0.1439070 1.854521 0.2094784  
## [3,] 711 1.302351 0.1286590 1.824645 0.1942927  
## [4,] 1683 2.529613 0.5860249 3.517447 0.2094784  
## [5,] 658 2.254821 0.6741938 3.281572 0.1942927  
##   
## Isolated clusters:  
## L-clusters: character(0)  
## L\*-clusters: character(0)  
##   
## Silhouette plot information:  
## cluster neighbor sil\_width  
## 1 1 5 5.170020e-01  
## 2 1 5 5.170020e-01  
## 4 1 5 5.170020e-01  
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## 12 1 5 5.170020e-01  
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## 5370 5 3 9.320603e-02  
## 3978 5 1 9.282297e-02  
## 2635 5 3 9.084644e-02  
## 2682 5 3 9.030743e-02  
## 5175 5 3 9.030743e-02  
## 5503 5 3 9.030743e-02  
## 2482 5 3 8.954280e-02  
## 5715 5 1 8.808811e-02  
## 5194 5 3 8.767347e-02  
## 3091 5 1 8.533426e-02  
## 2284 5 1 8.493454e-02  
## 3143 5 3 8.491430e-02  
## 2868 5 3 8.479264e-02  
## 5195 5 1 8.460130e-02  
## 2545 5 3 8.392398e-02  
## 3282 5 3 8.110492e-02  
## 5117 5 3 7.991652e-02  
## 3212 5 1 7.938688e-02  
## 1648 5 3 7.938264e-02  
## 4520 5 3 7.894710e-02  
## 3160 5 3 7.861216e-02  
## 2045 5 3 7.727872e-02  
## 4678 5 3 7.676796e-02  
## 1918 5 3 7.665189e-02  
## 3980 5 3 7.617544e-02  
## 4747 5 3 7.561995e-02  
## 5185 5 3 7.518955e-02  
## 3007 5 3 7.410964e-02  
## 4075 5 1 7.315701e-02  
## 26 5 3 7.307245e-02  
## 1116 5 3 7.307245e-02  
## 2672 5 3 7.307245e-02  
## 4406 5 3 7.307245e-02  
## 3809 5 1 7.302106e-02  
## 4280 5 1 7.279483e-02  
## 3705 5 3 7.275804e-02  
## 3993 5 3 7.234865e-02  
## 2624 5 3 7.215394e-02  
## 5063 5 1 7.210512e-02  
## 5398 5 3 7.128496e-02  
## 3315 5 1 7.102537e-02  
## 4562 5 3 7.057740e-02  
## 4607 5 1 7.050256e-02  
## 232 5 1 6.931747e-02  
## 1991 5 3 6.901879e-02  
## 3438 5 3 6.901715e-02  
## 3133 5 3 6.818621e-02  
## 2376 5 3 6.638181e-02  
## 5397 5 3 6.535314e-02  
## 3740 5 1 6.486860e-02  
## 5387 5 3 6.481734e-02  
## 1715 5 1 6.456114e-02  
## 1723 5 3 6.362336e-02  
## 4008 5 3 6.283305e-02  
## 4048 5 1 6.050581e-02  
## 4134 5 3 5.846112e-02  
## 3734 5 3 5.589074e-02  
## 1917 5 1 5.461581e-02  
## 5431 5 1 5.442081e-02  
## 2351 5 3 5.375256e-02  
## 218 5 1 5.371535e-02  
## 2523 5 3 5.322230e-02  
## 1137 5 3 5.314842e-02  
## 2639 5 3 5.236057e-02  
## 4237 5 1 5.133118e-02  
## 5470 5 1 5.041732e-02  
## 170 5 3 4.956904e-02  
## 5690 5 3 4.843199e-02  
## 5443 5 3 4.484294e-02  
## 4070 5 3 4.483110e-02  
## 4145 5 1 4.439566e-02  
## 4803 5 3 4.096450e-02  
## 4194 5 1 4.094325e-02  
## 5396 5 3 4.064741e-02  
## 5307 5 3 3.594842e-02  
## 2352 5 3 3.223018e-02  
## 2349 5 3 3.138439e-02  
## 5400 5 3 2.619011e-02  
## 3040 5 3 2.475850e-02  
## 5243 5 3 2.130447e-02  
## 5804 5 3 1.970197e-02  
## 3279 5 3 1.738378e-02  
## 3541 5 3 1.619217e-02  
## 130 5 3 1.187545e-02  
## 4429 5 3 1.154374e-02  
## 1766 5 3 9.521400e-03  
## 5680 5 3 8.403621e-03  
## 2250 5 3 4.054936e-03  
## 3356 5 3 2.091395e-03  
## 2678 5 3 1.422855e-03  
## 3514 5 3 2.969638e-04  
## 2146 5 3 -1.514289e-04  
## 5609 5 3 -2.695053e-03  
## 5598 5 3 -4.136205e-03  
## 3915 5 3 -6.486286e-03  
## 2655 5 3 -6.749536e-03  
## 1409 5 3 -7.829958e-03  
## 4977 5 3 -1.820573e-02  
## 5127 5 3 -1.914861e-02  
## 229 5 3 -2.177203e-02  
## 4632 5 3 -2.388454e-02  
## 2302 5 3 -2.534107e-02  
## 353 5 3 -2.550637e-02  
## 1206 5 3 -2.663045e-02  
## 3444 5 3 -3.200056e-02  
## 1397 5 3 -3.409770e-02  
## 1562 5 3 -3.477233e-02  
## 1798 5 3 -3.553737e-02  
## 5285 5 3 -3.553737e-02  
## 3156 5 3 -3.632002e-02  
## 1810 5 3 -3.641996e-02  
## 3151 5 3 -3.789037e-02  
## 1919 5 3 -4.216658e-02  
## 2731 5 3 -4.553245e-02  
## 5329 5 3 -5.526019e-02  
## 209 5 3 -6.128491e-02  
## 4919 5 3 -6.335119e-02  
## 2694 5 3 -6.394400e-02  
## 5399 5 3 -6.587929e-02  
## 1400 5 3 -6.664933e-02  
## 5292 5 3 -6.736589e-02  
## 2971 5 3 -7.046924e-02  
## 4523 5 3 -7.066411e-02  
## 2299 5 3 -7.492038e-02  
## 2311 5 3 -7.496956e-02  
## 3137 5 3 -7.814780e-02  
## 2141 5 3 -7.900329e-02  
## 3855 5 3 -8.002114e-02  
## 2935 5 3 -8.109461e-02  
## 872 5 3 -8.216342e-02  
## 3314 5 3 -8.442539e-02  
## 3707 5 3 -9.279051e-02  
## 4600 5 3 -9.404253e-02  
## 4848 5 3 -9.451529e-02  
## 4696 5 3 -9.471398e-02  
## 3911 5 3 -9.539660e-02  
## 5340 5 3 -9.830405e-02  
## 5405 5 3 -1.030905e-01  
## 1588 5 3 -1.052522e-01  
## 3963 5 3 -1.056222e-01  
## 4191 5 3 -1.092139e-01  
## 4724 5 3 -1.177300e-01  
## 223 5 3 -1.178096e-01  
## 2532 5 3 -1.197156e-01  
## 5132 5 3 -1.214282e-01  
## 817 5 3 -1.233622e-01  
## 363 5 3 -1.249008e-01  
## 3489 5 3 -1.296700e-01  
## 35 5 3 -1.315510e-01  
## 4174 5 3 -1.417936e-01  
## 4661 5 3 -1.435294e-01  
## 5124 5 3 -1.521519e-01  
## 4135 5 3 -1.602771e-01  
## 5354 5 3 -1.650630e-01  
## 3316 5 3 -1.696245e-01  
## 5515 5 3 -1.709566e-01  
## 5225 5 3 -1.766400e-01  
## 4895 5 3 -1.857652e-01  
## 3898 5 3 -1.877422e-01  
## 1778 5 3 -1.969787e-01  
## 1006 5 3 -2.056663e-01  
## 5306 5 3 -2.082368e-01  
## 5054 5 3 -2.176104e-01  
## 2023 5 3 -2.185879e-01  
## 4439 5 3 -2.376754e-01  
## 3835 5 3 -2.559672e-01  
## 2346 5 3 -2.667938e-01  
## 5528 5 3 -2.677002e-01  
## 1271 5 3 -2.889957e-01  
## 5783 5 3 -2.964621e-01  
## 5121 5 3 -3.032001e-01  
## 5383 5 3 -3.060427e-01  
## 4315 5 3 -3.133976e-01  
## 1800 5 3 -3.390694e-01  
## 224 5 3 -3.660291e-01  
## Average silhouette width per cluster:  
## [1] 0.3200261 0.7714735 0.8097230 0.1582532 0.1365237  
## Average silhouette width of total data set:  
## [1] 0.3733689  
##   
## Available components:  
## [1] "medoids" "id.med" "clustering" "objective" "isolation"   
## [6] "clusinfo" "silinfo" "diss" "call" "data"

plot(p)



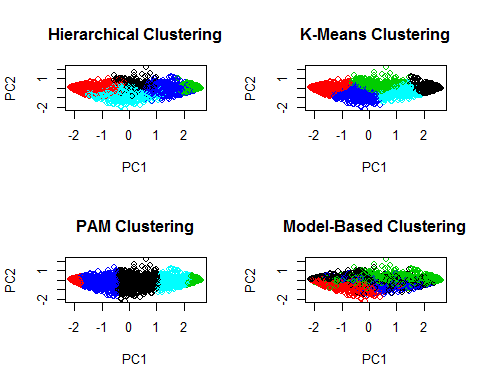
##########  
# DBSCAN #  
##########  
dbs <- dbscan(D\_norm[,6:33], eps=0.5)  
  
###############  
# Model-Based #  
###############  
load\_package('mclust')

## [1] "package already installed: mclust"

## Package 'mclust' version 5.1

## Type 'citation("mclust")' for citing this R package in publications.

mc <- Mclust(D\_norm[,6:33])  
mc2 <- MclustDA(D\_norm[,6:33], D\_norm$D.difficulty)  
  
  
par(mfrow=c(2,2))  
plot(pca\_data$PC1, pca\_data$PC2, col=groups, xlab="PC1", ylab="PC2", main="Hierarchical Clustering")  
plot(pca\_data$PC1, pca\_data$PC2, col=fit5$cluster, xlab="PC1", ylab="PC2", main="K-Means Clustering")  
plot(pca\_data$PC1, pca\_data$PC2, col=p$clustering, xlab="PC1", ylab="PC2", main="PAM Clustering")  
plot(pca\_data$PC1, pca\_data$PC2, col=mc$classification, xlab="PC1", ylab="PC2", main="Model-Based Clustering")



par(mfrow=c(1,1))  
  
  
#######  
# CCA #  
#######  
questions <- D\_norm[,6:33]  
behavior <- D\_norm[,3:5]  
behavior$D.attendance <- as.numeric(behavior$D.attendance)  
str(behavior)

## 'data.frame': 5820 obs. of 3 variables:  
## $ D.nb.repeat : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ D.attendance: num 1 2 3 2 1 4 2 2 2 5 ...  
## $ D.difficulty: int 4 3 4 3 1 3 3 3 3 4 ...

load\_package('GGally')

## [1] "package already installed: GGally"

##   
## Attaching package: 'GGally'

## The following object is masked from 'package:dplyr':  
##   
## nasa

load\_package('CCA')

## [1] "package already installed: CCA"

## Loading required package: fda

## Loading required package: splines

## Loading required package: Matrix

##   
## Attaching package: 'fda'

## The following object is masked from 'package:graphics':  
##   
## matplot

## Loading required package: fields

## Loading required package: spam

## Loading required package: grid

## Spam version 1.3-0 (2015-10-24) is loaded.  
## Type 'help( Spam)' or 'demo( spam)' for a short introduction   
## and overview of this package.  
## Help for individual functions is also obtained by adding the  
## suffix '.spam' to the function name, e.g. 'help( chol.spam)'.

##   
## Attaching package: 'spam'

## The following objects are masked from 'package:base':  
##   
## backsolve, forwardsolve

## Loading required package: maps

##   
## # ATTENTION: maps v3.0 has an updated 'world' map. #  
## # Many country borders and names have changed since 1990. #  
## # Type '?world' or 'news(package="maps")'. See README\_v3. #

##   
## Attaching package: 'maps'

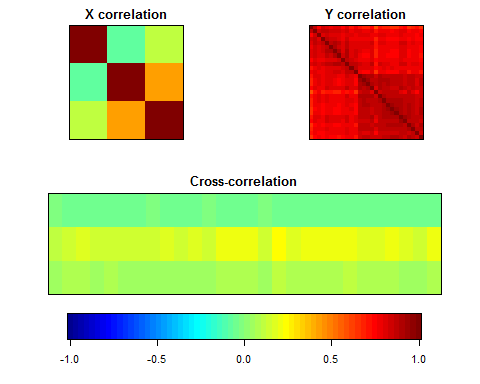
## The following object is masked from 'package:mclust':  
##   
## map

## The following object is masked from 'package:cluster':  
##   
## votes.repub

##   
## Attaching package: 'fields'

## The following object is masked from 'package:Hmisc':  
##   
## describe

corrs <- matcor(behavior, questions)  
img.matcor(corrs, type=3)



cc1 <- cc(behavior, questions)  
# Cannonical Correlations  
cc1$cor

## [1] 0.2689011 0.1164277 0.0576913

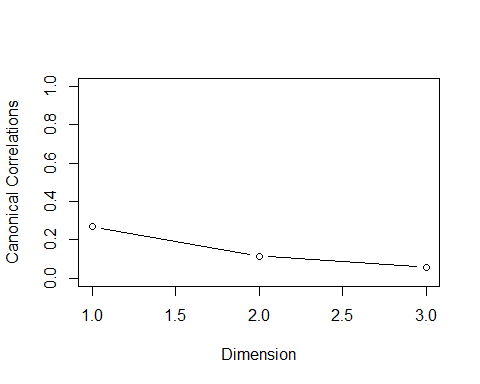
# Raw Canonical Coefficients  
cc1$xcoef

## [,1] [,2] [,3]  
## D.nb.repeat 0.43264507 -0.6322601 -1.7486409  
## D.attendance -0.61437696 -0.4354193 -0.1120347  
## D.difficulty -0.08122559 0.8139886 -0.1674265

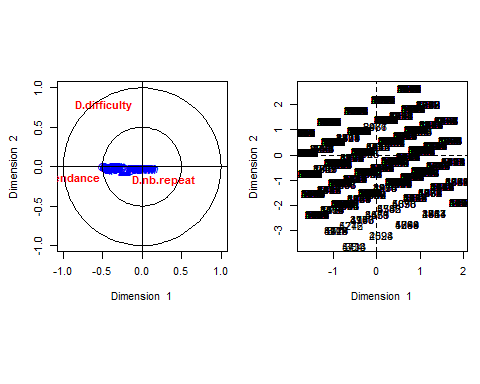
cc1$ycoef

## [,1] [,2] [,3]  
## Q1\_norm 0.4364795 1.5659835 -1.44195543  
## Q2\_norm -0.7825219 1.1260843 3.41277812  
## Q3\_norm -0.3156052 -1.6379304 -0.30874476  
## Q4\_norm 0.3143000 0.4361789 0.89130235  
## Q5\_norm -0.4132620 1.4313886 -1.60150166  
## Q6\_norm 0.5074075 -0.9735678 -0.72394094  
## Q7\_norm -0.0168972 0.2784154 2.46511174  
## Q8\_norm 0.1194593 1.8072613 -2.07115472  
## Q9\_norm -1.0681996 -2.6287521 0.62529550  
## Q10\_norm 0.5544703 -0.8600610 0.88147683  
## Q11\_norm -0.7306779 -1.0636813 0.14869945  
## Q12\_norm 0.8553612 -0.6862935 -2.42835606  
## Q13\_norm -0.4214621 0.0445856 0.39186613  
## Q14\_norm -0.9565555 1.2004778 4.33305682  
## Q15\_norm 0.1262673 0.2208750 -1.36944150  
## Q16\_norm 1.9444997 -2.9499766 -2.16342457  
## Q17\_norm -1.8593902 2.3039402 -3.41876173  
## Q18\_norm 0.1240851 -1.7471650 0.73232927  
## Q19\_norm -0.2163770 -0.4620633 1.72921706  
## Q20\_norm 0.5045729 0.5230399 -1.24031747  
## Q21\_norm -0.6523731 0.3144992 0.61102417  
## Q22\_norm -0.1469279 0.9128121 -2.72999352  
## Q23\_norm -0.8043479 -0.1580688 1.17504057  
## Q24\_norm 0.1536174 1.3755633 -1.21150689  
## Q25\_norm -0.5552734 1.2900326 1.90426180  
## Q26\_norm 0.3558716 -2.4061313 0.06791433  
## Q27\_norm 1.1203477 1.0692417 0.54897476  
## Q28\_norm -0.7654564 -0.7812794 0.09665382

# plot the canonical correlations of the first 3 dimensions  
plot(cc1$cor, xlab = "Dimension",   
 ylab = "Canonical Correlations",  
 ylim = c(0,1),  
 type="b")



# plot the values and units on the first 2 canonical variates  
plt.cc(cc1, var.label=TRUE)



cc1$scores

## $xscores  
## [,1] [,2] [,3]  
## 1 0.83801567 1.85516235 0.35841740  
## 2 0.30486430 0.60575440 0.41380922  
## 3 -0.39073825 0.98432369 0.13434798  
## 4 0.30486430 0.60575440 0.41380922  
## 5 1.08169243 -0.58680351 0.86069699  
## 6 -0.92388962 -0.26508426 0.18973980  
## 7 0.30486430 0.60575440 0.41380922  
## 8 0.30486430 0.60575440 0.41380922  
## 9 0.30486430 0.60575440 0.41380922  
## 10 -1.61949217 0.11348503 -0.08972144  
## 11 -1.00511521 0.54890436 0.02231327  
## 12 -0.92388962 -0.26508426 0.18973980  
## 13 -0.30951266 0.17033507 0.30177451  
## 14 0.38608988 -0.20823422 0.58123575  
## 15 -0.30951266 0.17033507 0.30177451  
## 16 -1.00511521 0.54890436 0.02231327  
## 17 -1.00511521 0.54890436 0.02231327  
## 18 0.38608988 -0.20823422 0.58123575  
## 19 0.22363871 1.41974302 0.24638269  
## 20 -0.30951266 0.17033507 0.30177451  
## 21 -0.39073825 0.98432369 0.13434798  
## 22 -0.14706149 -1.45764217 0.63662757  
## 23 -0.92388962 -0.26508426 0.18973980  
## 24 -0.39073825 0.98432369 0.13434798  
## 25 0.30486430 0.60575440 0.41380922  
## 26 1.00046684 0.22718511 0.69327046  
## 27 0.38608988 -0.20823422 0.58123575  
## 28 -0.39073825 0.98432369 0.13434798  
## 29 -0.84266403 -1.07907288 0.35716633  
## 30 -0.92388962 -0.26508426 0.18973980  
## 31 0.30486430 0.60575440 0.41380922  
## 32 0.30486430 0.60575440 0.41380922  
## 33 -0.39073825 0.98432369 0.13434798  
## 34 -0.92388962 -0.26508426 0.18973980  
## 35 -0.30951266 0.17033507 0.30177451  
## 36 -1.00511521 0.54890436 0.02231327  
## 37 -0.30951266 0.17033507 0.30177451  
## 38 -1.45704099 -1.51449221 0.24513161  
## 39 1.08169243 -0.58680351 0.86069699  
## 40 1.17015444 -0.65876589 -3.08347263  
## 41 0.30486430 0.60575440 0.41380922  
## 42 0.91924126 1.04117373 0.52584393  
## 43 0.73750937 -0.02650574 -1.33483171  
## 44 0.30486430 0.60575440 0.41380922  
## 45 0.83801567 1.85516235 0.35841740  
## 46 -1.00511521 0.54890436 0.02231327  
## 47 -0.30951266 0.17033507 0.30177451  
## 48 0.73750937 -0.02650574 -1.33483171  
## 49 0.30486430 0.60575440 0.41380922  
## 50 0.14241312 2.23373164 0.07895616  
## 51 0.30486430 0.60575440 0.41380922  
## 52 -0.92388962 -0.26508426 0.18973980  
## 53 -1.53826658 -0.70050359 0.07770509  
## 54 0.91924126 1.04117373 0.52584393  
## 55 -0.92388962 -0.26508426 0.18973980  
## 56 0.46731547 -1.02222284 0.74866228  
## 57 0.22363871 1.41974302 0.24638269  
## 58 -1.61949217 0.11348503 -0.08972144  
## 59 -1.00511521 0.54890436 0.02231327  
## 60 -0.92388962 -0.26508426 0.18973980  
## 61 -1.00511521 0.54890436 0.02231327  
## 62 -0.92388962 -0.26508426 0.18973980  
## 63 -1.00511521 0.54890436 0.02231327  
## 64 -0.47196384 1.79831231 -0.03307855  
## 65 -1.45704099 -1.51449221 0.24513161  
## 66 -0.92388962 -0.26508426 0.18973980  
## 67 -1.53826658 -0.70050359 0.07770509  
## 68 -1.00511521 0.54890436 0.02231327  
## 69 -0.92388962 -0.26508426 0.18973980  
## 70 -0.92388962 -0.26508426 0.18973980  
## 71 -1.53826658 -0.70050359 0.07770509  
## 72 1.08169243 -0.58680351 0.86069699  
## 73 1.00770326 0.96921135 -3.41832569  
## 74 0.14241312 2.23373164 0.07895616  
## 75 0.22363871 1.41974302 0.24638269  
## 76 -0.92388962 -0.26508426 0.18973980  
## 77 -1.08634080 1.36289298 -0.14511326  
## 78 -1.53826658 -0.70050359 0.07770509  
## 79 0.22363871 1.41974302 0.24638269  
## 80 -1.08634080 1.36289298 -0.14511326  
## 81 -1.00511521 0.54890436 0.02231327  
## 82 -1.70071776 0.92747365 -0.25714797  
## 83 0.75679008 2.66915097 0.19099087  
## 84 -0.92388962 -0.26508426 0.18973980  
## 85 -1.61949217 0.11348503 -0.08972144  
## 86 -1.00511521 0.54890436 0.02231327  
## 87 -1.00511521 0.54890436 0.02231327  
## 88 -0.92388962 -0.26508426 0.18973980  
## 89 -1.00511521 0.54890436 0.02231327  
## 90 -1.00511521 0.54890436 0.02231327  
## 91 0.91924126 1.04117373 0.52584393  
## 92 -1.00511521 0.54890436 0.02231327  
## 93 -1.53826658 -0.70050359 0.07770509  
## 94 1.33260561 -2.28674313 -2.74861958  
## 95 0.04190682 0.35206355 -1.61429295  
## 96 0.91924126 1.04117373 0.52584393  
## 97 1.27066074 1.22290221 -1.39022353  
## 98 0.65628378 0.78748288 -1.50225824  
## 99 -1.00511521 0.54890436 0.02231327  
## 100 1.08169243 -0.58680351 0.86069699  
## 101 -0.39073825 0.98432369 0.13434798  
## 102 -1.00511521 0.54890436 0.02231327  
## 103 0.46731547 -1.02222284 0.74866228  
## 104 -1.00511521 0.54890436 0.02231327  
## 105 -1.61949217 0.11348503 -0.08972144  
## 106 0.30486430 0.60575440 0.41380922  
## 107 -1.53826658 -0.70050359 0.07770509  
## 108 0.14241312 2.23373164 0.07895616  
## 109 -1.08634080 1.36289298 -0.14511326  
## 110 -0.39073825 0.98432369 0.13434798  
## 111 -1.08634080 1.36289298 -0.14511326  
## 112 -1.08634080 1.36289298 -0.14511326  
## 113 -1.61949217 0.11348503 -0.08972144  
## 114 0.14241312 2.23373164 0.07895616  
## 115 -1.70071776 0.92747365 -0.25714797  
## 116 1.00046684 0.22718511 0.69327046  
## 117 -1.00511521 0.54890436 0.02231327  
## 118 -1.61949217 0.11348503 -0.08972144  
## 119 -0.92388962 -0.26508426 0.18973980  
## 120 -0.39073825 0.98432369 0.13434798  
## 121 -0.47196384 1.79831231 -0.03307855  
## 122 -0.39073825 0.98432369 0.13434798  
## 123 0.14241312 2.23373164 0.07895616  
## 124 0.75679008 2.66915097 0.19099087  
## 125 1.08169243 -0.58680351 0.86069699  
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## 5665 -0.1113176920 -0.9161666081 1.6218025855  
## 5666 -0.9587071027 -0.2164093337 -0.2253144662  
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## 5668 -0.9376573848 -1.8729019222 1.7254870691  
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## 5817 -0.6392346070 -0.0370343917 -0.7031296349  
## 5818 -0.9587071027 -0.2164093337 -0.2253144662  
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## 5820 1.3850014747 0.2230755542 0.3239286472  
##   
## $corr.X.xscores  
## [,1] [,2] [,3]  
## D.nb.repeat 0.2889835 -0.1651228 -0.9429862  
## D.attendance -0.9720365 -0.1363256 -0.1912077  
## D.difficulty -0.4799389 0.7803462 -0.4008971  
##   
## $corr.Y.xscores  
## [,1] [,2] [,3]  
## Q1\_norm -0.1116605 0.0008305834 -0.0036936254  
## Q2\_norm -0.1576698 -0.0103808682 0.0054713971  
## Q3\_norm -0.1804970 -0.0276791308 -0.0030543362  
## Q4\_norm -0.1430385 -0.0082782612 0.0002850316  
## Q5\_norm -0.1516996 -0.0155375741 -0.0053943521  
## Q6\_norm -0.1441731 -0.0262089045 -0.0049363780  
## Q7\_norm -0.1398332 -0.0215078239 0.0003460950  
## Q8\_norm -0.1317223 -0.0169062161 -0.0088065275  
## Q9\_norm -0.1804693 -0.0453094040 -0.0025783367  
## Q10\_norm -0.1451600 -0.0353121903 -0.0025195333  
## Q11\_norm -0.1769377 -0.0379590790 -0.0072298444  
## Q12\_norm -0.1267713 -0.0354824599 -0.0116751342  
## Q13\_norm -0.1909313 -0.0216177579 -0.0008979210  
## Q14\_norm -0.2070195 -0.0162288208 0.0029844541  
## Q15\_norm -0.1975314 -0.0185550692 -0.0062649001  
## Q16\_norm -0.1500969 -0.0367558001 -0.0074921430  
## Q17\_norm -0.2365650 -0.0049915355 -0.0128544950  
## Q18\_norm -0.1800023 -0.0306795170 -0.0044885931  
## Q19\_norm -0.1933182 -0.0230001145 -0.0022832687  
## Q20\_norm -0.1976523 -0.0151734432 -0.0071012109  
## Q21\_norm -0.2096508 -0.0152093678 -0.0055204134  
## Q22\_norm -0.2104159 -0.0125670742 -0.0089671063  
## Q23\_norm -0.1809582 -0.0184875139 -0.0040331671  
## Q24\_norm -0.1633311 -0.0138911509 -0.0069512648  
## Q25\_norm -0.2078306 -0.0096641679 -0.0017607311  
## Q26\_norm -0.1738733 -0.0310235494 -0.0037114348  
## Q27\_norm -0.1450636 -0.0167707627 -0.0027759400  
## Q28\_norm -0.2056374 -0.0189569848 -0.0048341488  
##   
## $corr.X.yscores  
## [,1] [,2] [,3]  
## D.nb.repeat 0.0777080 -0.01922487 -0.05440210  
## D.attendance -0.2613817 -0.01587208 -0.01103102  
## D.difficulty -0.1290561 0.09085393 -0.02312827  
##   
## $corr.Y.yscores  
## [,1] [,2] [,3]  
## Q1\_norm -0.4152472 0.007133898 -0.064023963  
## Q2\_norm -0.5863487 -0.089161482 0.094839213  
## Q3\_norm -0.6712393 -0.237736602 -0.052942756  
## Q4\_norm -0.5319370 -0.071102149 0.004940634  
## Q5\_norm -0.5641464 -0.133452531 -0.093503742  
## Q6\_norm -0.5361567 -0.225108799 -0.085565386  
## Q7\_norm -0.5200170 -0.184731125 0.005999085  
## Q8\_norm -0.4898541 -0.145207824 -0.152649152  
## Q9\_norm -0.6711363 -0.389163367 -0.044691952  
## Q10\_norm -0.5398266 -0.303297101 -0.043672675  
## Q11\_norm -0.6580029 -0.326031280 -0.125319499  
## Q12\_norm -0.4714420 -0.304759550 -0.202372540  
## Q13\_norm -0.7100428 -0.185675350 -0.015564237  
## Q14\_norm -0.7698721 -0.139389663 0.051731445  
## Q15\_norm -0.7345875 -0.159369856 -0.108593505  
## Q16\_norm -0.5581861 -0.315696294 -0.129866088  
## Q17\_norm -0.8797470 -0.042872397 -0.222815152  
## Q18\_norm -0.6693996 -0.263506978 -0.077803645  
## Q19\_norm -0.7189192 -0.197548438 -0.039577350  
## Q20\_norm -0.7350370 -0.130325003 -0.123089813  
## Q21\_norm -0.7796577 -0.130633561 -0.095688843  
## Q22\_norm -0.7825029 -0.107938848 -0.155432567  
## Q23\_norm -0.6729544 -0.158789622 -0.069909455  
## Q24\_norm -0.6074022 -0.119311370 -0.120490702  
## Q25\_norm -0.7728884 -0.083005729 -0.030519874  
## Q26\_norm -0.6466069 -0.266461879 -0.064332665  
## Q27\_norm -0.5394681 -0.144044412 -0.048117137  
## Q28\_norm -0.7647325 -0.162821917 -0.083793381

cc2 <- comput(behavior, questions, cc1)  
# Canonical Loadings  
cc2$corr.X.xscores

## [,1] [,2] [,3]  
## D.nb.repeat 0.2889835 -0.1651228 -0.9429862  
## D.attendance -0.9720365 -0.1363256 -0.1912077  
## D.difficulty -0.4799389 0.7803462 -0.4008971

cc2$corr.Y.xscores

## [,1] [,2] [,3]  
## Q1\_norm -0.1116605 0.0008305834 -0.0036936254  
## Q2\_norm -0.1576698 -0.0103808682 0.0054713971  
## Q3\_norm -0.1804970 -0.0276791308 -0.0030543362  
## Q4\_norm -0.1430385 -0.0082782612 0.0002850316  
## Q5\_norm -0.1516996 -0.0155375741 -0.0053943521  
## Q6\_norm -0.1441731 -0.0262089045 -0.0049363780  
## Q7\_norm -0.1398332 -0.0215078239 0.0003460950  
## Q8\_norm -0.1317223 -0.0169062161 -0.0088065275  
## Q9\_norm -0.1804693 -0.0453094040 -0.0025783367  
## Q10\_norm -0.1451600 -0.0353121903 -0.0025195333  
## Q11\_norm -0.1769377 -0.0379590790 -0.0072298444  
## Q12\_norm -0.1267713 -0.0354824599 -0.0116751342  
## Q13\_norm -0.1909313 -0.0216177579 -0.0008979210  
## Q14\_norm -0.2070195 -0.0162288208 0.0029844541  
## Q15\_norm -0.1975314 -0.0185550692 -0.0062649001  
## Q16\_norm -0.1500969 -0.0367558001 -0.0074921430  
## Q17\_norm -0.2365650 -0.0049915355 -0.0128544950  
## Q18\_norm -0.1800023 -0.0306795170 -0.0044885931  
## Q19\_norm -0.1933182 -0.0230001145 -0.0022832687  
## Q20\_norm -0.1976523 -0.0151734432 -0.0071012109  
## Q21\_norm -0.2096508 -0.0152093678 -0.0055204134  
## Q22\_norm -0.2104159 -0.0125670742 -0.0089671063  
## Q23\_norm -0.1809582 -0.0184875139 -0.0040331671  
## Q24\_norm -0.1633311 -0.0138911509 -0.0069512648  
## Q25\_norm -0.2078306 -0.0096641679 -0.0017607311  
## Q26\_norm -0.1738733 -0.0310235494 -0.0037114348  
## Q27\_norm -0.1450636 -0.0167707627 -0.0027759400  
## Q28\_norm -0.2056374 -0.0189569848 -0.0048341488

cc2$corr.X.yscores

## [,1] [,2] [,3]  
## D.nb.repeat 0.0777080 -0.01922487 -0.05440210  
## D.attendance -0.2613817 -0.01587208 -0.01103102  
## D.difficulty -0.1290561 0.09085393 -0.02312827

cc2$corr.Y.yscores

## [,1] [,2] [,3]  
## Q1\_norm -0.4152472 0.007133898 -0.064023963  
## Q2\_norm -0.5863487 -0.089161482 0.094839213  
## Q3\_norm -0.6712393 -0.237736602 -0.052942756  
## Q4\_norm -0.5319370 -0.071102149 0.004940634  
## Q5\_norm -0.5641464 -0.133452531 -0.093503742  
## Q6\_norm -0.5361567 -0.225108799 -0.085565386  
## Q7\_norm -0.5200170 -0.184731125 0.005999085  
## Q8\_norm -0.4898541 -0.145207824 -0.152649152  
## Q9\_norm -0.6711363 -0.389163367 -0.044691952  
## Q10\_norm -0.5398266 -0.303297101 -0.043672675  
## Q11\_norm -0.6580029 -0.326031280 -0.125319499  
## Q12\_norm -0.4714420 -0.304759550 -0.202372540  
## Q13\_norm -0.7100428 -0.185675350 -0.015564237  
## Q14\_norm -0.7698721 -0.139389663 0.051731445  
## Q15\_norm -0.7345875 -0.159369856 -0.108593505  
## Q16\_norm -0.5581861 -0.315696294 -0.129866088  
## Q17\_norm -0.8797470 -0.042872397 -0.222815152  
## Q18\_norm -0.6693996 -0.263506978 -0.077803645  
## Q19\_norm -0.7189192 -0.197548438 -0.039577350  
## Q20\_norm -0.7350370 -0.130325003 -0.123089813  
## Q21\_norm -0.7796577 -0.130633561 -0.095688843  
## Q22\_norm -0.7825029 -0.107938848 -0.155432567  
## Q23\_norm -0.6729544 -0.158789622 -0.069909455  
## Q24\_norm -0.6074022 -0.119311370 -0.120490702  
## Q25\_norm -0.7728884 -0.083005729 -0.030519874  
## Q26\_norm -0.6466069 -0.266461879 -0.064332665  
## Q27\_norm -0.5394681 -0.144044412 -0.048117137  
## Q28\_norm -0.7647325 -0.162821917 -0.083793381

# Test the null hypothesis that the canonical correlations are all equal to zero,  
# that the second and third canonical correlations are equal to zero, and that   
# the third canonical correlation is equal to zero.   
ev <- (1 - cc1$cor^2)  
n <- dim(behavior)[1]  
p <- length(behavior)  
q <- length(questions)  
k <- min(p,q)  
m <- n - 3/2 - (p + q) / 2  
w <- rev(cumprod(rev(ev)))  
# initialize  
d1 <- d2 <- f <- vector("numeric", k)  
for (i in 1:k) {  
 s <- sqrt((p^2 \* q^2 - 4)/(p^2 + q^2- 5))  
 si <- 1/s  
 d1[i] <- p \* q  
 d2[i] <- m \* s - p \* q/2 + 1  
 r <- (1 - w[i]^si)/w[i]^si  
 f[i] <- r \* d2[i]/d1[i]  
 p <- p - 1  
 q <- q - 1  
}  
pv <- pf(f, d1, d2, lower.tail = FALSE)  
(dmat <- cbind(WilksL = w, F = f, df1 = d1, df2 = d2, p = pv))

## WilksL F df1 df2 p  
## [1,] 0.9120712 6.4418108 84 17318.84 1.152608e-66  
## [2,] 0.9831614 1.8285963 54 11580.00 2.048048e-04  
## [3,] 0.9966717 0.7437872 26 5791.00 8.214838e-01

# calculate the standardized canonical coefficients diagonal matrix of sd's  
(s1 <- diag(sqrt(diag(cov(behavior)))))

## [,1] [,2] [,3]  
## [1,] 0.5323759 0.000000 0.000000  
## [2,] 0.0000000 1.474975 0.000000  
## [3,] 0.0000000 0.000000 1.348987

(s2 <- diag(sqrt(diag(cov(questions)))))

## [,1] [,2] [,3] [,4] [,5] [,6] [,7]  
## [1,] 0.3208597 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [2,] 0.0000000 0.3182504 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [3,] 0.0000000 0.0000000 0.3169047 0.000000 0.0000000 0.000000 0.0000000  
## [4,] 0.0000000 0.0000000 0.0000000 0.318128 0.0000000 0.000000 0.0000000  
## [5,] 0.0000000 0.0000000 0.0000000 0.000000 0.3174334 0.000000 0.0000000  
## [6,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.317518 0.0000000  
## [7,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.3177634  
## [8,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [9,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [10,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [11,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [12,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [13,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [14,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [15,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [16,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [17,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [18,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [19,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [20,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [21,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [22,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [23,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [24,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [25,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [26,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [27,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [28,] 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.000000 0.0000000  
## [,8] [,9] [,10] [,11] [,12] [,13]  
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [8,] 0.3173816 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [9,] 0.0000000 0.3161263 0.0000000 0.0000000 0.0000000 0.0000000  
## [10,] 0.0000000 0.0000000 0.3167027 0.0000000 0.0000000 0.0000000  
## [11,] 0.0000000 0.0000000 0.0000000 0.3171201 0.0000000 0.0000000  
## [12,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3180506 0.0000000  
## [13,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3169966  
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [15,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [20,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [21,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [22,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [23,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [24,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [26,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [27,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [28,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [,14] [,15] [,16] [,17] [,18] [,19] [,20]  
## [1,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [2,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [3,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [4,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [5,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [6,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [7,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [8,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [9,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [10,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [11,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [12,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [13,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [14,] 0.3167811 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [15,] 0.0000000 0.3165917 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [16,] 0.0000000 0.0000000 0.317208 0.0000000 0.0000000 0.000000 0.0000000  
## [17,] 0.0000000 0.0000000 0.000000 0.3153601 0.0000000 0.000000 0.0000000  
## [18,] 0.0000000 0.0000000 0.000000 0.0000000 0.3169549 0.000000 0.0000000  
## [19,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.316346 0.0000000  
## [20,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.3161889  
## [21,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [22,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [23,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [24,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [25,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [26,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [27,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [28,] 0.0000000 0.0000000 0.000000 0.0000000 0.0000000 0.000000 0.0000000  
## [,21] [,22] [,23] [,24] [,25] [,26]  
## [1,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [2,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [3,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [4,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [5,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [6,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [7,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [8,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [9,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [10,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [11,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [12,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [13,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [14,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [15,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [16,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [17,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [18,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [19,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [20,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [21,] 0.3160231 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [22,] 0.0000000 0.3159189 0.0000000 0.0000000 0.0000000 0.0000000  
## [23,] 0.0000000 0.0000000 0.3161665 0.0000000 0.0000000 0.0000000  
## [24,] 0.0000000 0.0000000 0.0000000 0.3166036 0.0000000 0.0000000  
## [25,] 0.0000000 0.0000000 0.0000000 0.0000000 0.3160303 0.0000000  
## [26,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3166223  
## [27,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [28,] 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000  
## [,27] [,28]  
## [1,] 0.0000000 0.0000000  
## [2,] 0.0000000 0.0000000  
## [3,] 0.0000000 0.0000000  
## [4,] 0.0000000 0.0000000  
## [5,] 0.0000000 0.0000000  
## [6,] 0.0000000 0.0000000  
## [7,] 0.0000000 0.0000000  
## [8,] 0.0000000 0.0000000  
## [9,] 0.0000000 0.0000000  
## [10,] 0.0000000 0.0000000  
## [11,] 0.0000000 0.0000000  
## [12,] 0.0000000 0.0000000  
## [13,] 0.0000000 0.0000000  
## [14,] 0.0000000 0.0000000  
## [15,] 0.0000000 0.0000000  
## [16,] 0.0000000 0.0000000  
## [17,] 0.0000000 0.0000000  
## [18,] 0.0000000 0.0000000  
## [19,] 0.0000000 0.0000000  
## [20,] 0.0000000 0.0000000  
## [21,] 0.0000000 0.0000000  
## [22,] 0.0000000 0.0000000  
## [23,] 0.0000000 0.0000000  
## [24,] 0.0000000 0.0000000  
## [25,] 0.0000000 0.0000000  
## [26,] 0.0000000 0.0000000  
## [27,] 0.3178771 0.0000000  
## [28,] 0.0000000 0.3160657

write.csv(s1 %\*% cc1$xcoef, file=concat(OUTPUT\_DIR, '/std canonical coefficients - behavior.csv'))  
write.csv(s2 %\*% cc1$ycoef, file=concat(OUTPUT\_DIR, '/std canonical coefficients - questions.csv'))