setwd('C:\\Users\\ygh\\Desktop')

data=read.csv('双因素方差分析.csv')

str(data)

data$year=as.factor(data$year)

data$treatment=as.factor(data$treatment)

data$S=as.numeric(data$S)

str(data)

table(data$year,data$treatment)

aovS=aov(S~treatment+year+treatment\*year,data=data)

da=read.csv('15-21对照组.csv')

da$YEAR=as.factor(da$YEAR)

da$处理=as.factor(da$处理)

shapiro.test(da$S)

aov1=aov(da$S~da$YEAR)

summary(aov1)

bartlett.test(da$S~da$YEAR)#

TukeyHSD(aov1)

library(agricolae)

lsdda=LSD.test(aov1,'YEAR',p.adj='none')

lsdda

library('vegan')

library(reshape2)

mydata <- read.csv('seeding.csv')

mydata <- read.csv('1.csv')

herb.mat <- acast(mydata,

formula = plot ~ name,

value.var = "N",

fill = 0)

Shannon.Wiener <- diversity(herb.mat, index = "shannon")

S <- specnumber(herb.mat)

plot(S)

J <- Shannon.Wiener/log(S)

f <- data.frame (S,Shannon.Wiener,J)

install.packages("hier.part")

library(hier.part)

data<-read.csv("CB.csv")

env<-data[,6:12];env

hier.part(data$S,env,fam="gaussian",gof="Rsqu")

library(tidyverse)

library(corrplot)

setwd("C:\\Users\\ygh\\Desktop")

mydata1<-read.csv("dm", header = T,sep =",")

cor\_new<-cor(mydata1)