KMeans

library(ggplot2)

base = './outs/KMoutput'  
iter\_list = c(1,2,3,4,5,10,20,30,50)  
for (i in 2:5){  
 for (j in iter\_list){  
 k\_num = as.character(i)  
 iter\_num = as.character(j)  
 paras = paste(paste('\_',k\_num,sep=''),paste('\_',iter\_num,sep = ''),sep='')  
 file = paste(base,paras,sep='')  
 file = paste(file,'/clusteredInstances/part-m-00000',sep='')  
 f = file(file,'r')  
 df = data.frame()  
 k = readLines(f)  
 subsit = strsplit(sub(',','\t',k),'\t')  
 for (l in subsit) {  
 newline = t(as.integer(l))  
 df = rbind(df,newline)  
 }  
 names(df)[names(df)=='V3']<-'Cluster\_Num'  
 plot=ggplot(df,mapping = aes(df$V1,df$V2,colour =factor(Cluster\_Num) ))+geom\_point()+ggtitle(paste('KMeans Result',paras,sep=''))+xlab('x')+ylab('y')  
 print(plot)  
 close(f)  
 }  
   
}

