Journal Interdisciplinarity

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```
import os
#Creating empty list
txtnames = []
#For loop that iterates through current directory files
for file in os.listdir("./data/inputdata/"):
    if file.endswith(".txt"):
      #Appending text file names without extension to list
      txtnames.append(os.path.splitext(file)[0])
```

```
#Some functions
filename = function(basename,extension,sep1,parpath="",sep2="") {
            if (length(parpath)==0){
                x=paste(basename,extension,sep=sep1)
                return(x)
                }#end if
            else{
              x=paste(basename,extension,sep=sep1)
              y=paste(parpath,x,sep = sep2)
              return(y)
                }#end else
                #if (length(parpath)!=0){
}#end filename f(x)
```

```
#For loop that iterates through file names
for (v in py$txtnames){
txtpath=filename(basename=v,extension="txt",sep1=".",parpath="data/inputdata",sep2="/")
  #Creating data frame by file name
  df = read.table(txtpath,fileEncoding = "utf-16", stringsAsFactors = FALSE,
                  sep= "\t",header = TRUE, fill = TRUE,check.names = FALSE,
                  quote="",na.strings=c("NA","NaN", " ") )
  #Selecting variables of interest
  references0=df %>% select(AU,TI, SO, DT, C1, PD, PY, CR)

  #Splitting cited references and defining as lists
  references=str_split(references0$CR, ";")

  #Renaming lists
  names(references)=references0$TI

  #Separating references into lists of lists
  litvect=sapply(references, function(row){
    str_split(row, ",")
        })

 #Creating vectors to hold data
  x=vector()
  y=vector()
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```
  uid=vector()

  #Updating vectors with data
  for (i in 1:length( litvect ) ){
    for(j in 1:length( litvect[[i]] )    ){
      x[length(x)+1]=litvect[[i]][[j]][3]
      y[length(y)+1]=names(litvect[i])
      uid[length(uid)+1]=i

    }#end for loop j

  }#end for loop i


#Creating data frame from vectors
z=data.frame(uid,article=y,citedjournal=x)

#Specifying output path
cvpath=filename(basename=v,extension="csv",sep1=".",parpath="data/outputdata",sep2="/")
#Creating output files
write.csv(z,file = cvpath,row.names=FALSE)

}#end for loop v
```