R code examples from r labs

RStudioGD

2

> female\_ids<-c(1,2,3)

> for{one\_id in female\_ids}{

Error: unexpected '{' in "for{"

> #do all the stuff here

> cat("analyzing female",one\_id,"\n")

Error in cat("analyzing female", one\_id, "\n") :

object 'one\_id' not found

> #subset 2015 and 2016 data

>

> #analyze yearly trends

>

> #save output files

>

> }

Error: unexpected '}' in "}"

> for {one\_id in female\_ids}{

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>

> #analyze yearly trends

>

> #save output files

>

> }

Error: unexpected '}' in "}"

> for (one\_id in female\_ids){

+ #do all the stuff here

+ cat("analyzing female",one\_id,"\n")

+ #subset 2015 and 2016 data

+

+ #analyze yearly trends

+

+ #save output files

+

#Start multifemale approach—how to analyze multiple females using for loop funtion.

#readdata

all\_females<-fread("INSERT FILE NAME",data.table=F)

#loop over each female

female\_ids<-unique(all\_females$id)

for (one\_id in female\_ids){

#do all the stuff here

cat("analyzing female",one\_id,"\n")

#subsetdata for this female

one\_female<-all\_females[all\_females$id == one\_id,-5]

#subset 2015 and 2016 data

year\_2015<-one\_female[one\_female$year == 2015,]

year\_2016<-one\_female[one\_female$year == 2016,]

#analyze yearly trends

time\_between\_peaks2015 <- analyze\_monthly\_trends(m1= year\_2015, lag=days\_lag,

cutoff\_estradiol = cutoff\_estradiol,

cutoff\_progesterone = cutoff\_progesterone)

time\_between\_peaks2016 <- analyze\_monthly\_trends(m1=year\_2016, lag=days\_lag,

cutoff\_estradiol = cutoff\_estradiol,

cutoff\_progesterone = cutoff\_progesterone)

peakSummary = data.frame(rbind(time\_between\_peaks2015[[1]],

time\_between\_peaks2016[[1]]), row.names = c('2015','2016'))

print(peakSummary)

#save output files

ovulation\_file<-paste0("stat results file/output/ovulation\_summary\_",one\_id,".csv")

write.csv(peakSummary, file= ovulation\_file)

## Analyze squirrel data using

## Yearly analysis

comparison\_file<-paste0("stat results file/output/yearly\_comparison\_",one\_id,".jpeg")

jpeg(comparison\_file ,width = 900, height= 1200)

years\_plot(days\_lag = days\_lag ,

cutoff\_estradiol = cutoff\_estradiol,

cutoff\_progesterone = cutoff\_progesterone,

up\_pro = 300,

bot\_pro = 100,

up\_est = 2500,

bot\_est = 1200)

dev.off()

}

Rcode issues 7-31-21

s = c('2015','2016','2017'))

Error: unexpected symbol in:

" peakSummary = data.frame(rbind(time\_between\_peaks2015[[1]],

time\_between\_peaks2016[[1]])time\_between\_peaks2017"

> print(peakSummary)

Error in print(peakSummary) : object 'peakSummary' not found

>

>

> #save output files

> ovulation\_file<-paste0("stat results file/output/ovulation\_summary\_",one\_ID,".csv")

Error in paste0("stat results file/output/ovulation\_summary\_", one\_ID, :

object 'one\_ID' not found

> write.csv(peakSummary, file= ovulation\_file)

Error in is.data.frame(x) : object 'peakSummary' not found

>

> ## Analyze squirrel data using

> ## Yearly analysis

> comparison\_file<-paste0("stat results file/output/yearly\_comparison\_",one\_ID,".jpeg")

Error in paste0("stat results file/output/yearly\_comparison\_", one\_ID, :

object 'one\_ID' not found

> jpeg(comparison\_file ,width = 900, height= 1200)

Error in gsub("%%", "", s, fixed = TRUE) :

object 'comparison\_file' not found

> years\_plot(days\_lag = days\_lag ,

+ cutoff\_estradiol = cutoff\_estradiol,

+ cutoff\_progesterone = cutoff\_progesterone,

+ up\_pro = 100,

+ bot\_pro = 4,

+ up\_est = 500,

+ bot\_est = 15)

Error in if (estra\_max[i] == 1 & sum(proge\_max[i:(i + lag)]) > 0 & day(m1$date[i + :

argument is of length zero

In addition: Warning messages:

1: tz(): Don't know how to compute timezone for object of class NULL; returning "UTC". This warning will become an error in the next major version of lubridate.

2: tz(): Don't know how to compute timezone for object of class NULL; returning "UTC". This warning will become an error in the next major version of lubridate.

> dev.off()

null device

1

> }

Error: unexpected '}' in "}"

for(i in 1:length(event)){

date\_search = min(i+lag, length(event))

**#9**

I use the cat function to print out values to see if things are working the way I think they are. You can try adding the highlighted lines below to your code and see what prints out.

cat("Current row:", i, "\n")

cat("date\_search:", date\_search, "\n")

cat("lag:", lag, "\n")

cat("First day:", day(m1$date[i]), "\n")

cat("Last day:", day(m1$date[date\_search]), "\n"))

cat("Estra max:", estra\_max[i], "\n")

cat("Progesterone sum:", sum(proge\_max[i:(i+lag)]), "\n")

if(estra\_max[i]==1 & sum(proge\_max[i:(i+lag)])>0 &

day(m1$date[date\_search]) - day(m1$date[i]) <= lag){

When you run the code, there should be some value printed out for each of them. e.g. you should see something like:

Current row: 2

date\_search: 4

lag: 2

...

The problematic values will display nothing after the colon, so this output:

Last day:

Estra max: 1