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\* First attempt at running the back Calculation software.

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\* Running the model on the cloud (no data privacy guarantee)

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https://hivbackcalc.shinyapps.io/HIVBackCalc\_App/

##I downloaded the sample KC data from GitHub to my desktop and had no problem calling the data in to the online Shiny app. The app worked without any issues.

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\* Running the model locally

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1. Download R - choose the link appropriate to your platform (Windows or Mac)

## I downloaded the most recent version of R 3.1.2 for windows (64-bit version).

http://cran.rstudio.com/

1a. You can also download RStudio Desktop if you like, which is simply a nicer interface to R. Again, choose the link appropriate to your platform (Windows or Mac)

http://www.rstudio.com/products/rstudio/download/

## I also downloaded the most recent version of rstudio so that I can test both R and rstudio platforms.

2. Open R or RStudio, and type or copy the following lines into the console, hitting return after each line to install each package:

install.packages('devtools')

## In windows 7 and 8 there are automatic defaults that prevent writing to the program files folder which is the default for R. The user will have to either set up a different location for their R library and change the directory settings in R or change the permissions for the library folder.

library(devtools)

## The devtools library loads without issue.

source\_url('https://gist.github.com/netterie/65ae953108408a62539d/raw/HIVBackCalc\_PackageInstalls.R')

## The call to install the additional packages results in an error.

Error in function (type, msg, asError = TRUE) : Could not resolve host: gist.github.com

##I tried to install each of the individual packages.

install.packages('shiny', type='source')

##This too resulted in numerous errors mostly due to dependant packages not loading.

##Installing the additional packages runs without a problem:

install.packages('rootSolve')

install.packages('ggplot2')

install.packages('reshape')

install.packages('Hmisc')

install.packages('scales')

install.packages('plyr')

install.packages('xtable')

##I tried running:

install.packages(‘shiny’)

This ran without a problem.

3. Run the model by typing (again, hit return after each line):

library(shiny)

runGitHub('netterie/HIVBackCalc\_App', launch.browser=TRUE)

##This part runs just fine.

4. Now you should have the model open in your web browser, and you can use the left panel to choose a data file. Everything is still running locally, so no need to worry about data privacy.

5. To close the interface, return to R/RStudio and hit the Esc button. To launch it again, just follow step #3.