How to work Brant-Entry Shiny App

1. Download R onto laptop/tablet if it is not on the device already
   1. Run these lines of code to install packages if not installed already: (may code this into the app itself later)

install.packages(“shiny”)

install.packages(“shinyjs”)

install.packages(“shinythemes”)

install.packages(“dplyr”)

1. Before use move folder Brant-Data on to laptop/tablet
2. Create a folder to save your backups to
3. Go through the app.R file and look for comments with a \*\*\* symbol. This requires some sort of action to be done once at the **start of the season** before entering data. These file pathways may be different for each laptop you’re entering data on! These actions are:
   1. Set the working directory. This should be the filepath to wherever you moved the Brant-Data folder. For ex: "X:\\Public\\Data\_proofing\_scripts\\Sage\\Shiny\\Brant-Data"
   2. Enter a filepath to the directory where you are going to save your backups to. For ex: "X:\\Public\\Data\_proofing\_scripts\\Sage\\Shiny\\Brant-Data\\Backups"
   3. Add the filepath to the location where the nest/band/egg file is you wish to update – make sure it’s a csv! Ex: "X:\\Public\\Data\_proofing\_scripts\\Sage\\Shiny\\Brant-Data\\NEST\_CSV\\nest1997.csv"
      1. If it’s the first entry then make a blank .csv file with the same column names as previous ones.
   4. In the server part of the shiny app, change “YEAR” = “2019” or whatever it is to the current year for the data.frame under formData as well as the data.frame under egginputs. Make sure the year you enter is in quotes! “YEAR” = 2019 will throw an error where as “YEAR” = “2019” works!
4. Right click the file named Brant Data Entry (the VBScript) and create a shortcut on your desktop.
5. When you’re ready to enter data just click the file Brant Data Entry - Shortcut on your desktop and you’re good to start entering!
6. Backup your backups onto a jump drive!
7. Your data will not automatically synch between laptops, so occasionally you’ll need to move files from one laptop to another and run script combine\_files.R to combine the data. Details in next section below.

Some notes on the app itself:

* If you don’t click SAVE then your entry will not be appended onto the file! Submit just lets you see what you entered.
* If you make a mistake and don’t realize until after you hit submit and/or save you’ll need to go into the .csv file to fix it. I don’t have a way to delete an entry yet before you hit save.
* Honestly I don’t know why there’s a submit and save button, submit is just so you can see the table of your current entries, but save is what you need to do before it saves to the file.
* This app automatically creates backups but it will overwrite the original file, it should be the old file plus the new entries, but the backup will save the old file!
  + Backups will be named in this format: filename\_month(mm)\_day(dd)\_hour(military time)\_minute
  + Backups happen every time you run the app. So if you run it, enter one entry, close it, and then enter it again and enter more data you will have two backups for the two times you run the app.
* The see previous observations of nest box will bring up a new tab where it shows you all the previous entries for a specific nest – could be handy for double checking things like band reads at that nest! Idk you decide
* Band file data will be populated automatically from Nest data. If you have tower information you’ll probably need to go directly into the .csv to add that. THOMAS?

Backing Up and Combining Data from Different Devices

* The scripts will automatically backup data for you into folders on your device. These will be slightly different between computers asdlfjasluiteajknga;4woia
* Backup your backup folders onto a flash drive!

Combining Data

1. Move your three files (Nest, Band, and Egg) from one computer onto a flash drive. Transfer these to the second computer.
   1. A notification will pop up saying “The destination already has a file named x”
   2. Click: “Compare info for both files”
   3. Click both check boxes under “Which files do you want to keep” – this will just add (2) onto the name of the file we’re transferring over
2. Run combine\_files.R by highlighting it all (ctrl-A) and hitting run in the top right corner of the screen or by typing ctrl-enter
   1. This will overwrite the file without a number and then delete the file with a number. Ex: You have band.csv, you copy over the file from a second computer and have band (2).csv; once run through the script the combined data will overwrite band.csv and band (2).csv will be deleted.
3. Put the newly combined data back onto the flash drive and transfer it back to the other computer
   1. A notification will pop up saying “The destination already has a file named x”
   2. Click: “Replace the file in the destination” (this file will have a backup from when the app first ran)