## what is the DVMax\_checker

* matlab script that checks the Veternary DvMax database to see if there are water entries for the restricted monkeys

**where is DVMax\_checker**

* limblab\_analysis/DVMax/
* \\fsmresfiles.fsm.northwestern.edu\fsmresfiles\Basic\_Sciences\Phys\L\_MillerLab\limblab\lab\_folder\Lab-Wide Animal Info\WeekendWatering\MonkeyWaterData.xlsx

**Who to contact**

* Current maintainer
  + Tucker Tomlinson: tuckertomlinson@gmail.com
* Northwestern University DvMax admins:
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**how does it work**

* the checker connects to the DvMax database using matlabs database toolbox.
* DvMax is an oracle database and requires the odbc driver, which should already be in the correct limblab directory for the DvMax Checker script to point at
* the checker loads a list of monkeys from a .mat file housed in the same folder
* the checker loops through the list of monkeys and
  + pulls all the records for each monkey
  + looks for the most recent restriction entry to determine whether the monkey is on free water
  + if restricted, the checker looks for a water entry (ep8500,ep9000,ac1091) with the current date.
  + if restricted, the checker looks for a body weight entry in the last 5 days, and warns the caretaker if none is found, or if none is found in the last 7 days sends a warning to the whole lab.
  + if no water entry is found the checker will call the send\_mail\_message function to email warnings
* DVMax\_checker uses the information in \\fsmresfiles.fsm.northwestern.edu\fsmresfiles\Basic\_Sciences\Phys\L\_MillerLab\limblab\lab\_folder\Lab-Wide Animal Info\WeekendWatering\MonkeyWaterData.xlsx to send emails
* DVMax\_checker compares the contact info from fsmres, to cached info in animalList.mat, and emails a notification of contact info around to everyone listed on the People and CCM tabs of MonkeyWaterData.

**setting up DvMax checker**

* instructions can also be found at \limblab\_analysis\DVMax\Instructions for installing DVMax checker.doc
* DVmax checker should be installed in a Windows computer running Matlab.
* setting up:
  + Go to the Windows Task Scheduler, click on “Action” and “Import task…”.
  + Navigate to the folder containing this document and select “DVMax checker task scheduler.xml”.
  + You will have to change the user to match that of the computer where it is running.
  + If you are running a version of Matlab different from R2012b (or if the folder where it is installed is not the default one)
    - go to “Actions” and edit the “Start a program” action to change the path where Matlab is installed to the correct one.
  + In the "Actions" menu, you will also have to change the path to DVMax checker in the “Start in (optional)” box so that it matches the full installation path of \limblab\_analysis\DVMax\
  + In the main “Task Scheduler” window, check that “DVMax checker task scheduler” is “ready” and not “disabled” (if disabled, right click on it and press “enable”).
* DO NOT CONFIGURE THE TASK TO RUN WHEN THE USER IS NOT LOGGED IN
  + for some reason matlab only partially loads, and will throw bizarre errors that you can't replicate when you log in and run the checker
  + I think this is because the task scheduler tries to run matlab with no privilages, and Matlab has all kinds of problems when not run as Admin
* testing
  + You can test the DVMax\_checker from the "Task Scheduler" window by right clicking the task and selecting “Run”.
  + Matlab should start, run DVMax checker, everyone will get a warning for their monkeys if they haven’t made a water entry yet and Matlab will close.
  + If you don't want to spam the lab, there is a flag variable in the DVMax\_checker file called 'testing'. If you set testing to 'true' then warnings will only be sent to the maintainer on the line below.

**notes**

* will ignore monkeys not currently restricted by DvMax entry, so DvMax must be correct.