How to use TheFishSense Package

%% System Requirements

* This runs on matlab 2016b
* It doesn’t work on 2015 or 2013 versions of matlab
* Has not been tested on 2017+
* Designed for windows computers, but with a few modifications can run on mac
  + You need to change the type of slash (forward or backward) when dealing with the directories

%% Running the Detector

1. Set you current folder in matlab to the one that contains all the programs in TheFishSense package
2. Run TheFishSenseDriver
   1. This can be done by typing the name into the command line
3. You will be prompted to “Select the directory of the audiofiles”
   1. This is a folder that contains all of the audiofiles that you want to run the detector over
4. Then You will be prompted if you want to add more directories to process
   1. If yes then you will be prompted to select another directory
   2. Notice the command window displays the names of directories that you have already selected
   3. You can keep adding as many directories as you would like
5. Once you say you don’t want to add more directories to be processed you will be asked if you want to save the .txt detector output files in one location or in the same place as the audioFile
   1. If you say one location you will be prompted to select the location
6. Then you are done setting up the program and it will run
   1. It will display in the command window the total duration of all files it is going to process
7. You will see two progressbars (they might be on top of eachother)
   1. Don’t close these or the program will stop and error
8. The progress bar that is updating if how long it will take to process the individual file the detector is working on right now
9. The progressbar that says processing data set is the progress bar for the entire calculation to finish.
   1. It is very accurate because it does its eta estimations based on duration of audiofiles processed and to be processed. Which is much better than looking at the number of files processed/to be processed.
   2. You will need to wait for the detector to process an entire audiofile before you can get your entire data set eta.
   3. This detector is compatible with data that contains multiple channels
      1. If your data has multiple channels you will need to wait for the detector to process all channels of data for that file before the data set progressbar will update.
         1. If you have 4 channels, the audiofile progressbar will cycle through 4 times before the data set progressbar will update.
10. Then you just wait until the detector finishes running