TWD Training Documentation

* TWD training is done on the HPC Bracewell
* The four scripts in the ./twd\_training directory are required to run training procedures on Bracewell:
  + HPC\_createjob\_transfer.py: python script that writes batch scripts to perform transfer learning on the new datasets
  + Job\_prep.sh: batch scripts that loads relevant modules into the environment on HPC Bracewell
  + Og.h5: pre-trained h5 file containing the model, optimiser and weights, load this into the twd training process for transfer learning
  + Twd\_transfertraining.py: python script that performs transfer learning based on og.h5 and the inputs it just received
* To perform twd training for new users, make sure that audio data samples have been generated and concatenated into batches of 4000 samples each (Network Inputs)
* Load the network inputs (x\_inputs\_batch) into the X variable in line 28
* Load the true network outputs (y\_inputs\_batch) into the Y variable in line 29
* After fitting, the new model, as well as a record of its training history will be saved in the current directory
* To change the directory to which the training history and new model are saved, specify the file path in line 37 and line 41
* To perform continuous training on new users, simply load the pre-trained sample in line 24 and pass in new input datasets in lines 28 and 29