Programs

1. Programs that provide information about the data, images and monitor specifications
   1. getExperimentalDetails: Contains the full description of the dataset along with the details of the images that were used.
   2. getMonitorDetails – specifications of the monitor that was used to display the images
2. Programs to view data and images
   1. displaySingleChannelNaturalImages – A GUI to display raster plots, ERPs and TF plots for the specified dataset. The data is assumed to be outside this folder in a separate folder called data. The data folder contains subfolders containing monkey data, RF centers and images.
   2. getImagePatches – returns a portion of the image that is centered around the RF of a specified electrode. Called by displaySingleChannelNaturalImages.
3. Programs to save gamma
   1. getMeanEnergy – returns the energy in a specified band. Energy data is saved locally. This program is called by displaySingleChannelNaturalImages and analyzeData.
4. Programs to get tuning functions
   1. getPredictedGamma
   2. plotGammaTuningCurves
5. Programs to represent image patches as gratings or hues
   1. getSingleImageParameters
   2. runGetSingleImageParameters – also saves the fitted parameters locally
6. Programs to get and display correlations between real and predicted gamma
   1. analyzeData
   2. runAnalyzeData
   3. getAllCorrelations