

### ***Code Documentation:***

The original code base is from: <http://nn.cs.utexas.edu/keyword?stanley:ec02> but I made the following adjustments:

File	Origin	Change
evaluation.m	Ethan Peters	I created this file to provide further analysis of the fittest individual of a certain population.
experiment.m	uTexas	I changed this file to produce a generalized version of an xor classification.
initial_population.m	uTexas	Unchanged.
main.m	Ethan Peters	This file is to iterate through the individual genre datasets.
neat_main.m	uTexas	Changed for a generalization for any dataset.
rep.m	uTexas	Unchanged.
reproduce.m	uTexas	Unchanged.

### ***Other Files:***

- neatsaves\_\*.mat are data structures storing each of the final populations
- overall\_results is produced by evaluation.m consisting of the results of the evolution.
- times directory holds the resulting time stamp of a certain error
- graphs directory holds the graphs from the genres
- datasets holds the cvs files for the genres and a master excel spreadsheet

***Execution:*** Run the main.m with the parameter of a list of genres.

Ex. genres = ["rock","pop","country","electronic","indie"];