TEST LOG

Test Case	Test Case Description	Date Tested	Pass (P)	Fail (F)
Winnow.data_to_list	The function which transforms a file into a list of data based on the separating character.	09/27/15	P	
Winnow.do_analysis	Performs the entire analysis and compares the first results with known results.	09/27/15	P	
Winnow.do_gwas	Performs GWAS analysis on a small set of data and compares the performetric results with the expected values.	09/27/15	P	
Winnow.load_data	Tests that the load_data function correctly creates lists for beta and p-values.	09/27/15	P	
Winnow.load_ote	Loads the OTE KT file into a boolean list.	09/27/15	P	
Performetrics.accuracy	Compares actual and expected result for the accuracy function on a small set of data (12 values)	09/27/15	P	
Performetrics.auc	Compares actual and expected result for the area under the curve function on a small set of data (12 values)	09/27/15	P	
Performetrics.error	Compares actual and expected result for the error function	09/27/15	P	
Performetrics.fdr	Compares actual and expected result of the FDR function	09/27/15	P	
Performetrics.fn	Compares actual and expected number of false negatives	09/27/15	P	
Performetrics.fp	Compares actual and expected number of false positives	09/27/15	P	
Performetrics.fpr	Compares actual and expected false positive rate	09/27/15	P	
Performetrics.mae	Compares actual and expected result of the MAE function	09/27/15	P	
Performetrics.mattcorr	Compares actual and expected result of the Mattcorr function	09/27/15	P	
Performetrics.precision	Compares actual and expected result of the Precision function	09/27/15	P	
Performetrics.rmse	Compares actual and expected root mean squared error	09/27/15	P	
Performetrics.sens	Compares actual and expected sensitivity	09/27/15	P	
Performetrics.spec	Compares actual and expected specificity	09/27/15	P	
Performetrics.tn	Compares actual and expected number of true negatives	09/27/15	P	

Performetrics.tp	Compares actual and expected number of true positives	09/27/15	P	
Performetrics.tpr	Compares actual and expected true positive rate	09/27/15	P	
Performetrics.youden	Compares actual and expected result of the Youden statistic	09/27/15	P	
Performetrics.avgcovarweight	Tests the actual and expected means for a set of covariate data	09/29/15	P	
Adjustments.fdr_bh	Compares actual and expected results of the Benjamini Hochberg FDR p-value adjustment method	09/27/15	P	
GWAS.with_beta	Compares actual and expected performetric results using data without covariates and with beta values	09/27/15	P	
GWAS.without_beta	Compares actual and expected performetric results using data without covariates and without beta values	09/27/15	P	
GWAS.with_beta_covariate	Compares actual and expected performetric results using data with covariates and with beta values	09/29/15	P	
GWAS.without_beta_covariate	Compares actual and expected performetric results using data with covariates and without beta values	09/29/15	P	
ListRanker.function	Tests the ranking function	09/30/15	P	
ListRanker.inputs	Tests that the expected input files exist and can be read	09/30/15	P	
ListRanker.outputs	Ensures that the function produces the two output files	09/30/15	P	
MPlot.directory	Makes sure that the test directory is accessible	09/30/15	P	
MPlot.function	Tests that the MPlot functions create the desired output files	09/30/15	P	
Demonstrate.directory	Makes sure that the test directory is accessible	09/30/15	P	
Demonstrate.function	Tests that the Demonstrate functions create the desired output files	09/30/15	P	
Demonstrate2.directory	Makes sure that the test directory is accessible	09/30/15	P	
Demonstrate2.function	Tests that the Demonstrate2 functions execute without throwing errors	09/30/15	P	
Demonstrate2.outputs	Tests that the Demonstrate2 functions create the desired output files	09/30/15	P	
		TOTAL (Pass/Fail)	38	0

Test Coverage

Winnow/winnow.py

- 84.44% coverage
- 76 covered lines, 90 relevant lines

Winnow/data.py

- 87.88% coverage
- 29 covered lines, 33 relevant lines

Winnow/checkhidden.py

- 89.47% coverage
- 17 covered lines, 19 relevant lines

Winnow/performetrics.py

- 96.32% coverage
- 131 covered lines, 136 relevant lines

Winnow/fileimport.py

- 100% coverage
- 13 lines

Winnow/gwas.py

- 100% coverage
- 9 lines

Winnow/adjustments.py

- 100% coverage
- 15 lines

Note: Because Demonstrate and it's associated functions are written in R, coveralls will not measure test coverage. That being said, the tests still run through Travis CI and the results are included in the above table.