

# Quality Report



Creation Date 2021-10-24

Package Prefix edu.iastate.

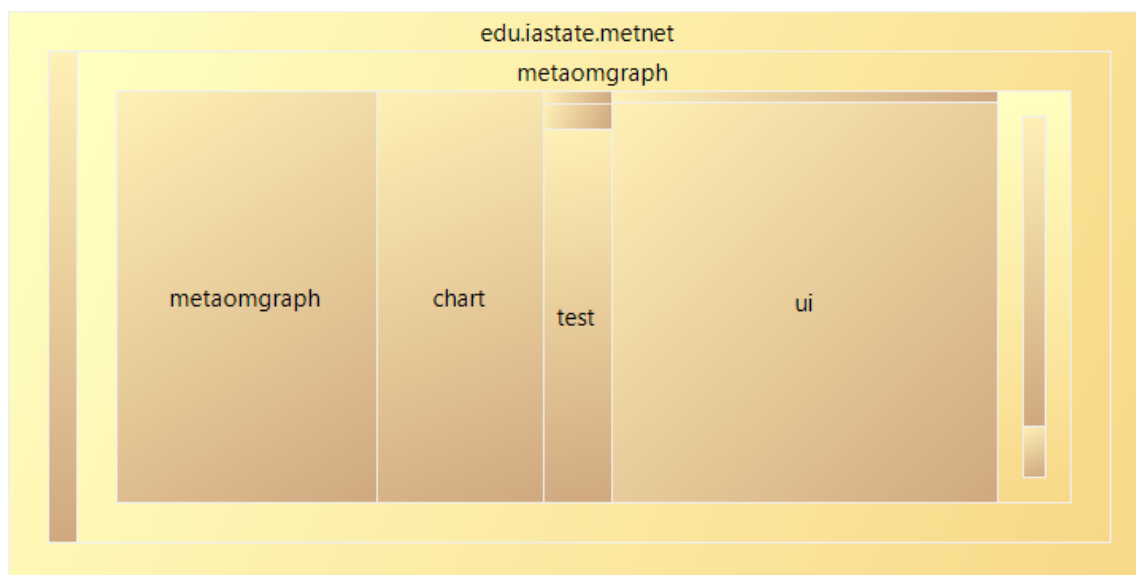
Level of Detail Member

## MetaOmGraph

### Library Dependency Graph

/metaomgraph4/src

### Treemap Overview



### Metrics Summary

Metric	Value
Number of Libraries	1
Number of Packages	10
Number of Top Level Classes	320
Average Number of Top Level Classes per Package	32
Average Number of Member Classes per Class	0.11
Average Number of Methods per Class	4.68
Average Number of Fields per Class	2.67
Estimated Lines of Code	90462
Estimated Lines of Code per Top Level Class	282.69
Average Cyclomatic Complexity	2.73
Fat for Library Dependencies	0
Fat for Flat Package Dependencies	36
Fat for Top Level Class Dependencies	1148
Tangled for Library Dependencies	0%
Average Component Dependency between Libraries	0%
Average Component Dependency between Packages	100%
Average Component Dependency between Units	32.64%
Average Distance	-0.44
Average Absolute Distance	0.44
Average Weighted Methods per Class	12.79
Average Depth of Inheritance Tree	1.13

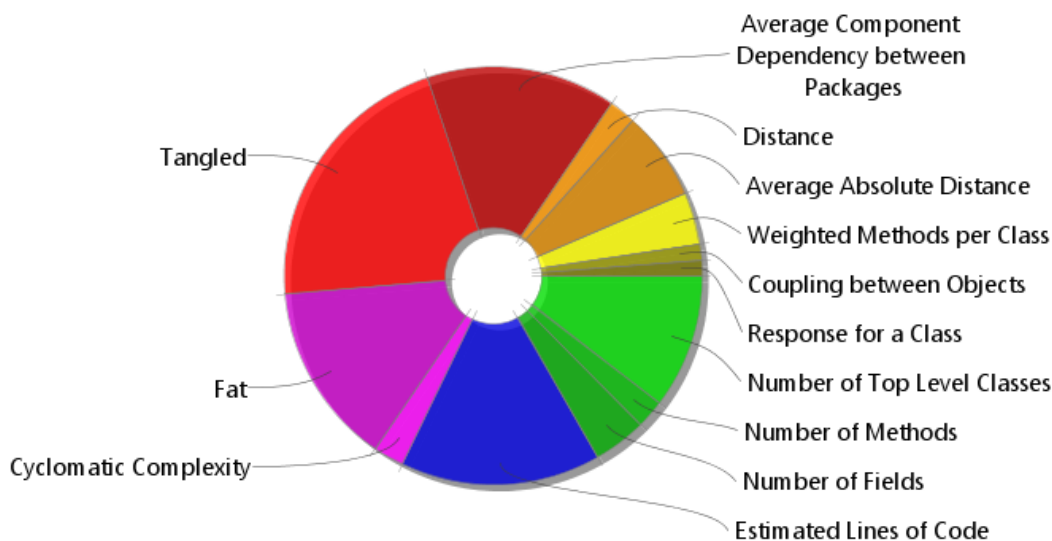
Average Number of Children	0.13
Average Coupling between Objects	5.12
Average Response for a Class	9.10
Average Lack of Cohesion in Methods	27.25

## Top Violations (20 of 663)

Artifact	Metric	Value
MetaOmGraph	ACD - Package	100%
metnet	Tangled	11.61%
metnet.metaomgraph	Tangled	13.52%
MetaOmGraph	D	0.44
metnet.metaomgraph.ui	Units	100
metnet.metaomgraph.ui	Fat	170
metnet.metaomgraph	Units	86
metnet.metaomgraph	Fat	137
metnet.metaomgraph	D	-0.63
metnet.metaomgraph.ui.MetaOmTablePanel	Fat	342
metnet.metaomgraph.ui.MetaOmTablePanel	Fields	115
metnet.metaomgraph.ui.MetaOmTablePanel	WMC	522
metnet.metaomgraph.ui.MetaOmTablePanel	ELOC	5579
metnet.metaomgraph.chart	Units	42
metnet.metaomgraph.chart	Fat	63
metnet.metaomgraph.utils	Tangled	20%
metnet.metaomgraph.MetaOmProject	Fat	493
metnet.metaomgraph.MetaOmProject	WMC	1036
metnet.metaomgraph.MetaOmProject	ELOC	4673
metnet.metaomgraph.MetaOmProject	Methods	167

## Pollution Chart

Pollution 6.81



## Violations by Metric

### Number of Top Level Classes

Artifact	Value
metnet.metaomgraph.ui	100
metnet.metaomgraph	86
metnet.metaomgraph.chart	42

## Number of Methods

Artifact	Value
metnet.metaomgraph.MetaOmProject	167
metnet.metaomgraph.ui.MetaOmTablePanel	82
metnet.metaomgraph.MetaOmGraph	120
metnet.metaomgraph.ui.MetadataTableDisplayPanel	69
metnet.metaomgraph.utils.Utils	91
metnet.metaomgraph.chart.MetaOmChartPanel	62
metnet.metaomgraph.RandomAccessFile	63
metnet.metaomgraph.test.MyRandomAccessFile	59
metnet.metaomgraph.MetadataHybrid	66
metnet.metaomgraph.MetadataCollection	51

## Number of Fields

Artifact	Value
metnet.metaomgraph.ui.MetaOmTablePanel	115
metnet.metaomgraph.MetaOmProject	52
metnet.metaomgraph.MetaOmGraph	211
metnet.metaomgraph.ui.MetadataTableDisplayPanel	37
metnet.metaomgraph.chart.MetaOmChartPanel	50
metnet.metaomgraph.chart.BoxPlot	54
metnet.metaomgraph.chart.ScatterPlotChart	51
metnet.metaomgraph.chart.ScatterPlotDimReduction	54
metnet.metaomgraph.chart.ChartToolBar	66
metnet.metaomgraph.ui.ReproducibilityDashboardPanel	35
metnet.metaomgraph.ui.NewProjectDialog	25
metnet.metaomgraph.ui.MetadataTreeDisplayPanel	35
metnet.metaomgraph.chart.NewCustomSortDialog	38
metnet.metaomgraph.chart.HistogramChart	41
metnet.metaomgraph.ui.DualTablePanel	35
metnet.metaomgraph.chart.CustomSortDialog	38
metnet.metaomgraph.chart.VolcanoPlot	35
metnet.metaomgraph.ui.ReadMetadata	30
metnet.metaomgraph.chart.BarChart	34
metnet.metaomgraph.chart.HeatMapPanel	21
metnet.metaomgraph.TangoIconTheme	67
metnet.arrayexpress.v2.AEImportDialog	27
metnet.metaomgraph.JavaIconTheme	61
metnet.metaomgraph.SilkIconTheme	61
metnet.metaomgraph.chart.HeatMapChart	21
metnet.metaomgraph.ui.StatisticalResultsPanel	29
metnet.metaomgraph.test.ColorPicker	25

## Estimated Lines of Code

Artifact	Value
metnet.metaomgraph.ui.MetaOmTablePanel	5579
metnet.metaomgraph.MetaOmProject	4673
metnet.metaomgraph.MetaOmGraph	3031
metnet.metaomgraph.ui.MetadataTableDisplayPanel	2698
metnet.arrayexpress.v2.AEXMLNodeInfo	1612
metnet.metaomgraph.chart.MetaOmChartPanel	1650
metnet.metaomgraph.ui.logFCResultsFrame	1552
metnet.metaomgraph.ui.MetaOmTablePanel.actionPerformed(...)	2425
metnet.metaomgraph.utils.Utils	1645
	1285

<input checked="" type="radio"/> metnet.metaomgraph.chart.BoxPlot	
<input checked="" type="radio"/> metnet.metaomgraph.ui.DiffCorrResultsTable	1278
<input checked="" type="radio"/> metnet.metaomgraph.MetaOmAnalyzer	1274
<input checked="" type="radio"/> metnet.metaomgraph.chart.ScatterPlotChart	1186
<input checked="" type="radio"/> metnet.metaomgraph.chart.ScatterPlotDimReduction	1132
<input checked="" type="radio"/> metnet.metaomgraph.ui.NewProjectDialog	1097
<input checked="" type="radio"/> metnet.metaomgraph.ui.ReproducibilityDashboardPanel	1029
<input checked="" type="radio"/> metnet.metaomgraph.utils.DataNormalizer	969
<input checked="" type="radio"/> metnet.metaomgraph.Metadata	1075
<input checked="" type="radio"/> metnet.metaomgraph.chart.ChartToolBar	951
<input checked="" type="radio"/> metnet.metaomgraph.RepInfo	970
<input type="radio"/> metnet.metaomgraph.MetaOmProject.openProject(...)	868
<input checked="" type="radio"/> metnet.metaomgraph.RandomAccessFile	915
<input checked="" type="radio"/> metnet.metaomgraph.ui.MetadataTreeDisplayPanel	825
<input checked="" type="radio"/> metnet.metaomgraph.chart.HeatMapPanel	832
<input checked="" type="radio"/> metnet.metaomgraph.test.MyRandomAccessFile	845
<input checked="" type="radio"/> metnet.metaomgraph.MetadataCollection	818
<input checked="" type="radio"/> metnet.metaomgraph.ui.MetadataPanel	821
<input checked="" type="radio"/> metnet.metaomgraph.ui.ReadMetadata	744
<input checked="" type="radio"/> metnet.metaomgraph.chart.NewCustomSortDialog	715
<input checked="" type="radio"/> metnet.metaomgraph.chart.PointInfoPanel	730
<input checked="" type="radio"/> metnet.metaomgraph.ui.DifferentialExpFrame	739
<input checked="" type="radio"/> metnet.metaomgraph.ui.DualTablePanel	761
<input checked="" type="radio"/> metnet.metaomgraph.utils.ExceptionHandler	658
<input type="radio"/> metnet.metaomgraph.MetaOmProject.loadProjectFile(...)	733
<input checked="" type="radio"/> metnet.metaomgraph.ui.DifferentialCorrFrame	699
<input checked="" type="radio"/> metnet.metaomgraph.MetadataHybrid	733
<input checked="" type="radio"/> metnet.metaomgraph.chart.VolcanoPlot	645
<input checked="" type="radio"/> metnet.metaomgraph.test.PathAndLocusSmasher	512
<input checked="" type="radio"/> metnet.metaomgraph.chart.HistogramChart	652
<input type="radio"/> metnet.metaomgraph.MetaOmGraph.init(...)	600
<input checked="" type="radio"/> metnet.metaomgraph.chart.CustomSortDialog	614
<input checked="" type="radio"/> metnet.metaomgraph.chart.BarChart	604
<input checked="" type="radio"/> metnet.metaomgraph.CalculateLogFC	592
<input checked="" type="radio"/> metnet.metaomgraph.ui.CorrelationMetaTable	618
<input checked="" type="radio"/> metnet.metaomgraph.CalculateDiffCorr	632
<input checked="" type="radio"/> metnet.metaomgraph.ui.MetadataFilter	614
<input checked="" type="radio"/> metnet.metaomgraph.ui.ProjectPropertiesPanel	606
<input type="radio"/> metnet.metaomgraph.ui.MetaOmTablePanel(...)	551
<input checked="" type="radio"/> metnet.metaomgraph.chart.ChartDataExporter	523
<input type="radio"/> metnet.metaomgraph.test.PathAndLocusSmasher {...}	432
<input type="radio"/> metnet.metaomgraph.MetaOmGraph.actionPerformed(...)	815
<input checked="" type="radio"/> metnet.metaomgraph.ui.MetadataImportWizard	501
<input checked="" type="radio"/> metnet.metaomgraph.utils.MetNetUtils	511
<input checked="" type="radio"/> metnet.metaomgraph.chart.HeatMapChart	526
<input checked="" type="radio"/> metnet.metaomgraph.ui.Metadataviewer	500
<input checked="" type="radio"/> metnet.metaomgraph.utils.ProjectMerger	489
<input checked="" type="radio"/> metnet.metaomgraph.ui.SearchByExpressionFrame	518
<input checked="" type="radio"/> metnet.metaomgraph.ListTree	545
<input checked="" type="radio"/> metnet.arrayexpress.v2.AEImportDialog	512
<input checked="" type="radio"/> metnet.metaomgraph.FilterableTableModel	510
<input checked="" type="radio"/> metnet.metaomgraph.ui.WelcomePanelWin10	455
<input type="radio"/> metnet.metaomgraph.AtGeneSearch.doQuery(...)	367
<input checked="" type="radio"/> metnet.metaomgraph.ui.WelcomePanel	430
<input type="radio"/> metnet.metaomgraph.ui.logFCResultsFrame(...)	1276
<input type="radio"/> metnet.metaomgraph.ui.WelcomePanelWin10.()	364

metnet.metaomgraph.ui.DisplayMetadataEditor	429
metnet.metaomgraph.ui.ReadMetadata.()	493
metnet.metaomgraph.TableSorter	476
metnet.metaomgraph.MutualInformation	430
metnet.metaomgraph.ui.MetadataSplitcol	437
metnet.metaomgraph.ui.ParseTableTree	427
metnet.metaomgraph.ui.DiffCorrResultsTable.(...)	1100
metnet.metaomgraph.MetaOmProject.saveProject(...)	287
metnet.metaomgraph.utils.ProjectMerger.mergeProjects(...)	301
metnet.metaomgraph.AtGeneSearch	423
metnet.metaomgraph.chart.ChartToolBar.actionPerformed(...)	400
metnet.metaomgraph.ui.ColorProperties	418
metnet.metaomgraph.ui.NewProjectDialog.initComponents()	318
metnet.metaomgraph.CorrelationCalc	421
metnet.arrayexpress.v2.AEXMLParser	411
metnet.metaomgraph.ui.ParseTableTree.buildTree(...)	246
metnet.arrayexpress.v2.AEXMLNodeInfo.loadDictionary()	222
metnet.metaomgraph.test.GeneHistogram	393
metnet.metaomgraph.ui.MetadataImportWizard.(...)	444
metnet.metaomgraph.chart.ChartToolBar.(...)	245
metnet.arrayexpress.v2.AEXMLNodeInfo.getNewMetadataElement()	237
metnet.metaomgraph.MetaOmAnalyzer.2.construct()	227
metnet.metaomgraph.ui.TreeSearchQueryConstructionPanel	392
metnet.metaomgraph.utils.qdxml.QDParser.parse(...)	250
metnet.metaomgraph.ui.ReproducibilityDashboardPanel.9.mouseClicked(...)	239
metnet.metaomgraph.chart.ChartDataExporter.doExport(...)	216
metnet.metaomgraph.ui.ColorProperties.()	238
metnet.metaomgraph.chart.HeatMapChart.actionPerformed(...)	406
metnet.metaomgraph.test.BoxPlotter	364
metnet.metaomgraph.chart.ScatterPlotDimReduction.(...)	211
metnet.metaomgraph.chart.ScatterPlotChart.(...)	212
metnet.metaomgraph.ui.MetadataRemoveCols	357
metnet.metaomgraph.utils.ExceptionHandler.uncaughtException(...)	282
metnet.metaomgraph.ui.TreeSearchQueryConstructionPanelDC	369
metnet.metaomgraph.ui.TreeSearchQueryConstructionPanelDEA	369
metnet.metaomgraph.utils.DataNormalizer.newshowSplitDialog(...)	311
metnet.metaomgraph.ui.DifferentialCorrFrame.(...)	426
metnet.metaomgraph.ui.ReproducibilityDashboardPanel.(...)	303
metnet.metaomgraph.chart.MetaOmChartPanel.(...)	616
metnet.metaomgraph.ui.DifferentialExpFrame.()	461
metnet.metaomgraph.ui.NoneditableTableModel	369
metnet.metaomgraph.TangoIconTheme	384
metnet.metaomgraph.chart.BoxPlot.5.drawVerticalItem(...)	194
metnet.metaomgraph.ui.UpdatingSortableFilterableTable	353
metnet.metaomgraph.chart.BoxPlot.actionPerformed(...)	221
metnet.metaomgraph.chart.MetaOmChartPanel.1	340
metnet.metaomgraph.ui.MetadataTableDisplayPanel.initializeMenuBar()	1031
metnet.metaomgraph.chart.MetaOmChartPanel.initializeDataset()	212
metnet.metaomgraph.MetaOmAnalyzer.ExcludeDialog	343
metnet.metaomgraph.ui.FeatureMetadataRemoveCols	342
metnet.metaomgraph.chart.MetaOmChartPanel.1.getToolTipText(...)	175
metnet.metaomgraph.ui.WelcomePanel.()	168
metnet.metaomgraph.chart.BoxPlot.createTooltipTable(...)	169
metnet.metaomgraph.CorrelationGrouped	335
metnet.metaomgraph.test.BoxPlotter.4.drawVerticalItem(...)	179
metnet.metaomgraph.ui.MetadataSplitcol.(...)	198

● metnet.metaomgraph.chart.BoxPlot.(...)	165
● metnet.arrayexpress.v2.AEXMLParser.endElement(...)	188
● metnet.metaomgraph.ui.CorrelationMetaTable.(...)	410
⊕ metnet.metaomgraph.ui.StripedTable	342
● metnet.metaomgraph.ui.WelcomePanel.oldWelcomePanel()	157
● metnet.metaomgraph.ui.NewProjectDialog.doOK()	178
⊕ metnet.arrayexpress.v2.AEProjectMaker	337
● metnet.arrayexpress.v2.AEXMLNodeInfo.getSDRFData(...)	181
● metnet.metaomgraph.test.UniversalProjectCreator.MetaOmFile.analyzeFile(...)	178
● metnet.metaomgraph.chart.ScatterPlotDimReduction.actionPerformed(...)	203
● metnet.metaomgraph.ui.MetadataPanel.(...)	540
● metnet.metaomgraph.chart.ScatterPlotChart.actionPerformed(...)	201
● metnet.arrayexpress.v2.AEImportDialog.(...)	226
⊕ metnet.metaomgraph.ui.DualListPanel	330
● metnet.metaomgraph.utils.FileSplitter.splitAndNormalize(...)	160
● metnet.metaomgraph.ui.NewProjectDialog.SourceAnalyzeWorker.construct()	178
● metnet.metaomgraph.chart.HistogramChart.(...)	155
● metnet.metaomgraph.CalculateLogFC.2.construct()	162
● metnet.metaomgraph.ui.FilterCorrMetaTablePanel.()	160
● metnet.metaomgraph.ui.MetadataFilter.(...)	356
● metnet.metaomgraph.ui.MetadataTreeDisplayPanel.(...)	405
● metnet.metaomgraph.MetaOmAnalyzer.3.construct()	155
● metnet.metaomgraph.ui.NewProjectDialog.getMetadatafromcsv2(...)	144
● metnet.metaomgraph.ui.NewProjectDialog.getMetadatafromcsv(...)	141
● metnet.metaomgraph.chart.PointInfoPanel.(...)	464
● metnet.metaomgraph.chart.NewCustomSortDialog.(...)	172
● metnet.metaomgraph.chart.ChartDataExporter.(...)	150
⊕ metnet.metaomgraph.test.AEChipDownloader	314
● metnet.arrayexpress.v2.AEXMLNodeInfo.downloadSDRFData(...)	152
⊕ metnet.metaomgraph.AnnotationImporter	313
● metnet.metaomgraph.playback.PlaybackAction.playActions(...)	145
● metnet.metaomgraph.chart.HistogramChart.actionPerformed(...)	175
⊕ metnet.metaomgraph.JavaIconTheme	331
⊕ metnet.metaomgraph.SilkIconTheme	331
● metnet.metaomgraph.ui.UpdatingSortableFilterableTable.paintComponent(...)	129
● metnet.metaomgraph.test.AEChipDownloader.main(...)	138
● metnet.metaomgraph.chart.BoxPlotOpts.(...)	125
● metnet.metaomgraph.ui.DisplayMetadataEditor.parsedata()	137
● metnet.metaomgraph.ui.MetadataRemoveCols.(...)	209
● metnet.metaomgraph.chart.CustomSortDialog.(...)	153
● metnet.metaomgraph.ui.logFCResultsFrame.10.1.construct()	132
● metnet.metaomgraph.ui.logFCResultsFrame.11.1.construct()	132
● metnet.arrayexpress.v2.AEXMLNodeInfo.getSDRFData()	141
● metnet.metaomgraph.CorrelationGrouped.main(...)	128
● metnet.metaomgraph.ui.FeatureMetadataRemoveCols.(...)	195
● metnet.metaomgraph.chart.PointInfoPanel.refresh()	134
● metnet.metaomgraph.ui.ProjectPropertiesPanel.(...)	205
● metnet.arrayexpress.v2.AEXMLNodeInfo.unzipAndProcessData()	126
● metnet.metaomgraph.playback.PlaybackAction.playChart(...)	127
● metnet.metaomgraph.utils.FileSplitter.splitFile(...)	122
● metnet.metaomgraph.MetaOmProject.createProjectFromFile()	132
● metnet.metaomgraph.ui.ReproducibilityDashboardPanel.markActionsAsFavorite(...)	124
● metnet.metaomgraph.utils.DataNormalizer.wiesiaNormalize(...)	123
● metnet.metaomgraph.chart.VolcanoPlot.(...)	113
● metnet.metaomgraph.ui.DifferentialExpFrame.2.actionPerformed(...)	188
● metnet.metaomgraph.ui.CorrelationMetaTable.loadDatainTable(...)	142

metnet.metaomgraph.Metadata.areReps(...)	131
metnet.metaomgraph.utils.RepUtils.areReps(...)	130
metnet.arrayexpress.v2.AEProjectMaker.1.construct()	120
metnet.metaomgraph.RepInfo.areReps(...)	129
metnet.metaomgraph.DifferentialCorrResults.getAsXMLNode()	113
metnet.metaomgraph.utils.ExceptionHandler.contact()	156
metnet.metaomgraph.ui.SearchByExpressionFrame.startSearch()	116
metnet.metaomgraph.MetaOmAnalyzer.ExcludeDialog.actionPerformed(...)	195
metnet.metaomgraph.ui.MetadataTableDisplayPanel.actionPerformed(...)	133
metnet.metaomgraph.chart.ScatterPlotDimReduction.createTooltipTable(...)	109
metnet.metaomgraph.chart.ScatterPlotChart.createTooltipTable(...)	108
metnet.metaomgraph.FilterableTableModel.applyFilter(...)	120
metnet.metaomgraph.ui.DualTablePanel(...)	127
metnet.metaomgraph.chart.BarChart(...)	103
metnet.metaomgraph.chart.BarChart.actionPerformed(...)	132
metnet.metaomgraph.ui.MetNetLAF.HorizontalSliderThumbIcon.paintIcon(...)	105
metnet.metaomgraph.ui.DiffCorrResultsTable.10.1.construct()	108
metnet.metaomgraph.ui.DiffCorrResultsTable.11.1.construct()	108
metnet.metaomgraph.MetadataCollection.readMetadataTextFile(...)	109
metnet.metaomgraph.chart.HeatMapPanel.createToolTipTextString(...)	104
metnet.metaomgraph.ui.SimpleSearchFrame(...)	128
metnet.metaomgraph.RepInfo.getGoodReps(...)	106
metnet.metaomgraph.ui.SimpleSearchFrame()	124
metnet.metaomgraph.chart.VolcanoPlot.createTooltipTable(...)	100
metnet.metaomgraph.ui.SetProgramParameters()	119
metnet.metaomgraph.ui.SearchByExpressionFrame(...)	127
metnet.metaomgraph.ui.DifferentialCorrFrame.2.actionPerformed(...)	150
metnet.metaomgraph.ui.ReproducibilityDashboardPanel.createNewTabAndPopulate(...)	299
metnet.metaomgraph.ui.CreateListFrame(...)	101
metnet.metaomgraph.ui.StripedTable.openColumnSelectorDialog(...)	114
metnet.metaomgraph.chart.MetaOmChartPanel.1.drawRangeMarkers(...)	100
metnet.metaomgraph.test.GeneHistogram.makeHistogram(...)	126
metnet.metaomgraph.test.MetaOmIconPanel.paintComponent2(...)	94
metnet.metaomgraph.ui.SearchByExpressionFrame.initRightTable(...)	132
metnet.metaomgraph.ui.RegexTable.main(...)	105
metnet.metaomgraph.chart.ChartDataExporter.actionPerformed(...)	106
metnet.metaomgraph.test.MetaOmIconPanel.paintComponent(...)	91
metnet.metaomgraph.MetaOmAnalyzer.ExcludeDialog(...)	92
metnet.metaomgraph.ui.MetadataTableDisplayPanel.createTSNEPanel(...)	115
metnet.metaomgraph.MutualInformation.main(...)	91
metnet.metaomgraph.ui.MetadataRemoveCols.5.actionPerformed(...)	94
metnet.metaomgraph.ui.MetadataEditor.parsedata()	95
metnet.metaomgraph.ui.DisplayMetadataEditor.addDataatoNode(...)	97
metnet.arrayexpress.v2.ProcessedDataFileInfo(...)	100
metnet.metaomgraph.ui.MetaOmTablePanel.23.construct()	95
metnet.arrayexpress.v2.AEXMLNodeInfo.getMetadataElement()	94
metnet.metaomgraph.ui.FeatureMetadataRemoveCols(...)	114
metnet.metaomgraph.ui.MetadataRemoveCols(...)	114
metnet.metaomgraph.chart.ScatterPlotChart.createDataset()	92
metnet.metaomgraph.ComputeRunsSimilarity.doComputation(...)	92
metnet.arrayexpress.v2.AEXMLNodeInfo.downloadProcessedData(...)	94
metnet.metaomgraph.MetaOmProject.createProjectFromStream(...)	96
metnet.metaomgraph.ui.DualTablePanel.getMatchingRow(...)	107
metnet.metaomgraph.chart.ChartActions.createFileSaveWindow(...)	103
metnet.metaomgraph.ui.Metadataviewer.showSearchframe()	183
metnet.metaomgraph.CalculateDiffCorr.doCalc()	146

metnet.metaomgraph.chart.CustomSortDialog.markSelectedRows()	94
metnet.metaomgraph.chart.NewCustomSortDialog.markSelectedRows()	94
metnet.metaomgraph.test.WiesiaCorrelation.main(...)	92
metnet.metaomgraph.test.GeneHistogram.makeStackedHistogram(...)	91
metnet.metaomgraph.ui.ProjectPropertiesPanel.RowNameManager.manageRows()	123
metnet.metaomgraph.chart.MyChartPanel.actionPerformed(...)	102
metnet.metaomgraph.CorrelationGrouped.getrvalueRandModel(...)	87
metnet.metaomgraph.ui.CreateListFrameDC(...)	88
metnet.metaomgraph.ui.CreateListFrameDEA(...)	88
metnet.metaomgraph.chart.HeatMapPanel.createTable()	132
metnet.metaomgraph.ui.MetaOmTablePanel.plotLineChartChooseGrouping()	88
metnet.metaomgraph.DifferentialCorrResults.writeAsXMLNode(...)	88
metnet.metaomgraph.test.GeneHistogram.makeHistogram(...)	86
metnet.metaomgraph.ui.SetRPaths.()	117
metnet.metaomgraph.DifferentialExpResults.getAsXMLNode()	87
metnet.metaomgraph.ui.MetadataTableDisplayPanel.5.actionPerformed(...)	97
metnet.metaomgraph.ui.MetadataPanel.10.actionPerformed(...)	114
metnet.metaomgraph.ui.DEAColumnSelectFrame(...)	111
metnet.metaomgraph.test.ColorPicker.main(...)	81
metnet.metaomgraph.ui.MetadataFilter.initTables()	139
metnet.metaomgraph.ui.MetadataTableDisplayPanel.initTable()	220
metnet.metaomgraph.test.GeneHistogram.makeHistogram(...)	85
metnet.metaomgraph.utils.MetNetUtils.getMetNetInfoFromProbes(...)	87
metnet.metaomgraph.RandomAccessFile.testBlocks(...)	87
metnet.metaomgraph.test.MyRandomAccessFile.testBlocks(...)	87
metnet.metaomgraph.MetaOmAnalyzer.1.construct()	86
metnet.metaomgraph.ui.MetaOmTablePanel.createSplitIndex()	110
metnet.metaomgraph.RepInfo.sort()	84
metnet.metaomgraph.MetaOmAnalyzer.updateExcluded(...)	86
metnet.metaomgraph.ui.SimilarityDisplayFrame(...)	122
metnet.metaomgraph.MetaOmAnalyzer.doAnalysis(...)	159
metnet.metaomgraph.chart.BoxPlot.2.run()	85
metnet.metaomgraph.ui.FeatureMetadataRemoveCols.5.actionPerformed(...)	80
metnet.metaomgraph.RandomAccessFile.testBytes(...)	84
metnet.metaomgraph.test.MyRandomAccessFile.testBytes(...)	84
metnet.metaomgraph.CalculateLogFC.main(...)	76
metnet.metaomgraph.utils.Utils.convertNanoTimeToWords(...)	84
metnet.metaomgraph.ReplicateGroups(...)	80
metnet.metaomgraph.ui.DualListPanel(...)	78
metnet.metaomgraph.ui.DCColumnSelectFrame(...)	105
metnet.metaomgraph.MetaOmProject.importLists(...)	82
metnet.metaomgraph.ui.CreateListFrame.actionPerformed(...)	83
metnet.metaomgraph.ui.CreateListFrameDC.actionPerformed(...)	83
metnet.metaomgraph.ui.CreateListFrameDEA.actionPerformed(...)	83
metnet.metaomgraph.ui.MetaOmTablePanel.plotLineChartDefaultGrouping()	78
metnet.arrayexpress.v2.AEProjectMaker.createProject(...)	78
metnet.metaomgraph.ui.MetaOmTablePanel.callExternalSite(...)	77
metnet.metaomgraph.ListTree.drop(...)	82
metnet.metaomgraph.ui.ThirdPartyLibs.()	73
metnet.metaomgraph.ui.MetaOmTablePanel.groupDataIndexbyRepColumn(...)	84
metnet.metaomgraph.ui.PolygonPanel.BouncingPolygon.move()	78
metnet.metaomgraph.RepInfo.getRepPanel()	97
metnet.metaomgraph.ui.MetadataTableDisplayPanel.15.actionPerformed(...)	101
metnet.metaomgraph.chart.MetaOmChartPanel.oldmanageColumns2()	113
metnet.metaomgraph.utils.DataNormalizer.normalize(...)	77
metnet.metaomgraph.MetaOmProject.addMetNetRowData(...)	77



● metnet.metaomgraph.ui.UpdatingSortableFilterableTable.main(...)	85
● metnet.metaomgraph.ui.FileSelectionPanel.checkFiles()	77
● metnet.metaomgraph.MetaOmAnalyzer.pairwiseMI(...)	285
● metnet.metaomgraph.ui.MetaOmTablePanel.launchTAIR()	74
● metnet.metaomgraph.ui.DualListPanel.makeActive(...)	78
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.detectSRAColumns()	79
● metnet.metaomgraph.ui.logFCResultsFrame.11.actionPerformed(...)	180
● metnet.metaomgraph.MetaOmAnalyzer.pairwise(...)	214
● metnet.metaomgraph.test.MAGETest.main(...)	72
● metnet.metaomgraph.ui.MetadataHeaderEdit(...)	91
● metnet.metaomgraph.MetaOmAnalyzer.ExcludeDialog.1.run()	75
● metnet.metaomgraph.chart.PointInfoPanel.cleanHTML(...)	72
● metnet.metaomgraph.utils.NumberStringComparator.compare(...)	81
● metnet.metaomgraph.CalculateLogFC.doCalc()	217
● metnet.metaomgraph.utils.Utills.saveJTableToExcel(...)	96
● metnet.metaomgraph.ui.DualListPanel.makeInactive(...)	75
● metnet.metaomgraph.CorrelationGrouped.getrvalueFEModel(...)	70
● metnet.metaomgraph.ui.WelcomePanelWin10.initRecentProjects()	78
● metnet.metaomgraph.ui.TreeSearchQueryConstructionPanelDC(...)	68
● metnet.metaomgraph.ui.TreeSearchQueryConstructionPanelDEA(...)	68
● metnet.metaomgraph.utils.DataNormalizer.getWiesiaMeans(...)	73
● metnet.metaomgraph.ui.TreeSearchQueryConstructionPanel(...)	67
● metnet.metaomgraph.utils.DataNormalizer.getMADMeans(...)	72
● metnet.metaomgraph.test.WiesiaCorrelation.{...}	65
● metnet.metaomgraph.ui.TreeSearchQueryConstructionPanel.showSearchDialog(...)	84
● metnet.metaomgraph.ui.TreeSearchQueryConstructionPanelDC.showSearchDialog(...)	84
● metnet.metaomgraph.ui.TreeSearchQueryConstructionPanelDEA.showSearchDialog(...)	84
● metnet.metaomgraph.ui.SimilarityDisplayFrame.initTableMatrix()	76
● metnet.metaomgraph.AnnotationImporter.oldimportAnnotation(...)	68
● metnet.metaomgraph.DifferentialExpResults.writeAsXMLNode(...)	69
● metnet.metaomgraph.utils.DataNormalizer.getMeans(...)	70
● metnet.metaomgraph.AnimatedSwingWorker(...)	95
● metnet.metaomgraph.MetadataHybrid.searchByValue(...)	70
● metnet.metaomgraph.ui.logFCPanel.()	64
● metnet.metaomgraph.utils.Utills.saveJTabletofile(...)	68
● metnet.arrayexpress.v2.AEXMLNodeInfo.getSoftware()	75
● metnet.metaomgraph.ui.MetadataTreeDisplayPanel.6.actionPerformed(...)	69
● metnet.metaomgraph.chart.NormalizedHistogramDataset.addSeries(...)	68
● metnet.metaomgraph.HashtableSavePanel(...)	71
● metnet.metaomgraph.ComputeDensityFromSpline.computeWCforz(...)	67
● metnet.metaomgraph.ui.logFCResultsFrame.10.actionPerformed(...)	174
● metnet.metaomgraph.chart.ChartToolBar.updateRangeMarkers(...)	69
● metnet.metaomgraph.throbber.FlippingSquaresThrobber.resetPolys()	62
● metnet.metaomgraph.ui.DifferentialExpFrame.2.1.1.run()	64
● metnet.metaomgraph.ui.MetaOmTablePanel.makeBoxPlot()	79
● metnet.metaomgraph.ui.MetaOmTablePanel.24.construct()	67
● metnet.metaomgraph.ui.MetaOmTablePanel.22.construct()	66
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.26.mouseClicked(...)	69
● metnet.metaomgraph.ui.ReproducibilityDashboardPanel.addActionToLogTree(...)	66
● metnet.metaomgraph.ui.ProjectPropertiesPanel.ColumnManager.manageCols()	72
● metnet.metaomgraph.ui.SetColTypes.initTable()	69
● metnet.metaomgraph.ui.ListMergePanel.1.actionPerformed(...)	65
● metnet.metaomgraph.ui.DiffCorrResultsTable.11.actionPerformed(...)	148
● metnet.metaomgraph.chart.HeatMapPanel.updateHeatMapTableWithClusters()	64
● metnet.metaomgraph.MetadataCollection.setHeaders(...)	67
● metnet.arrayexpress.v2.ProgressTableCellRenderer.1.paintComponent(...)	60

● metnet.metaomgraph.chart.VolcanoPlot.actionPerformed(...)	64
● metnet.metaomgraph.ui.SimpleSearchDialog.()	76
● metnet.metaomgraph.utils.ProjectMerger.getIDCols(...)	75
● metnet.metaomgraph.ui.MetaOmTablePanel.valueChanged(...)	62
● metnet.metaomgraph.ui.MetaOmTablePanel.19.construct()	64
● metnet.metaomgraph.utils.DataNormalizer.3.1.construct()	65
● metnet.metaomgraph.ui.MetadataTreeDisplayPanel.3.actionPerformed(...)	62
● metnet.metaomgraph.CalculateDiffCorr.computeTwoGroupCorrelations(...)	64
● metnet.metaomgraph.ui.BlockingProgressDialog.init(...)	66
● metnet.metaomgraph.MetaOmGraph.NewProjectWorker.finished()	64
● metnet.metaomgraph.MetadataCollection.getDatabyAttributes(...)	62
● metnet.metaomgraph.MetaOmProject.openProjectOLD(...)	73
● metnet.metaomgraph.chart.BoxPlot.makeBoxPlot(...)	96
● metnet.metaomgraph.ui.DiffCorrResultsTable.10.actionPerformed(...)	145
● metnet.metaomgraph.CalculateLogFC.createGroup()	87
● metnet.metaomgraph.ui.AboutFrame.()	70
● metnet.metaomgraph.utils.MetNetUtils.getPathwayInfo()	66
● metnet.metaomgraph.utils.ProjectMerger.showMergeDialog()	89
● metnet.metaomgraph.chart.ScatterPlotChart.makeScatterPlot()	108
● metnet.metaomgraph.chart.HeatMapChartProperties.(...)	72
● metnet.metaomgraph.CalculateDiffCorr.methodParametric()	103
● metnet.metaomgraph.CalculateDiffCorr.methodPermutation(...)	103
● metnet.metaomgraph.test.TextMiner.oldMineTextForTargets(...)	63
● metnet.metaomgraph.chart.ScatterPlotDimReduction.makeScatterPlot()	108
● metnet.metaomgraph.utils.MetNetUtils.getPathwayInfo(...)	61
● metnet.metaomgraph.utils.ExceptionHandler.createGitIssue(...)	60
● metnet.metaomgraph.utils.MetadataUpdater.OldMetadataHandler.endElement(...)	60
● metnet.metaomgraph.utils.DataNormalizer.medianNormalize(...)	60
● metnet.metaomgraph.utils.DataNormalizer.normalize(...)	60
● metnet.metaomgraph.ui.ScrollingTexturePanel.TimedAnimator.actionPerformed(...)	62
● metnet.metaomgraph.ui.MetaOmTablePanel.graphPairs()	71
● metnet.metaomgraph.ui.SearchByExpressionFrame.initLeftTable()	87
● metnet.metaomgraph.ui.Metadataviewer.createTable()	85
● metnet.metaomgraph.ui.MetadataImportWizard.5.actionPerformed(...)	83
● metnet.metaomgraph.ui.CorrelationMetaTable.10.actionPerformed(...)	78
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.createPCAPanel(...)	71
● metnet.metaomgraph.ui.ColorProperties.initButtons(...)	87
● metnet.metaomgraph.AlphanumericComparator.compareNatural(...)	64
● metnet.arrayexpress.v2.AEXMLNodeInfo.getTable()	61
● metnet.metaomgraph.ui.ListMergePanel.showMergeDialog(...)	105
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.21.actionPerformed(...)	90
● metnet.metaomgraph.chart.ChartAnnotator.manageAnnotations()	87
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.23.actionPerformed(...)	87
● metnet.metaomgraph.ui.StripedTableHeaderMouseListener.mousePressed(...)	72
● metnet.metaomgraph.ui.Metadataviewer.showHideframe()	76
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.22.actionPerformed(...)	85
● metnet.metaomgraph.ui.DualTablePanel.main(...)	69
● metnet.metaomgraph.chart.ChartActions.createRadioButtonPanel(...)	61
● metnet.metaomgraph.ui.MetaOmTablePanel.createHistogram()	66
● metnet.metaomgraph.chart.VolcanoPlot.makeVolcanoPlot()	77
● metnet.metaomgraph.test.BoxPlotter.getFeatureBoxPlot(...)	72
● metnet.metaomgraph.utils.MetNetUtils.downloadFile(...)	77
● metnet.metaomgraph.ui.DiffCorrResultsTable.15.actionPerformed(...)	62
● metnet.metaomgraph.ui.logFCResultsFrame.15.actionPerformed(...)	62
● metnet.metaomgraph.ui.AboutFrame4.()	65
● metnet.metaomgraph.chart.BarChart.makeBarChart(...)	67

metnet.metaomgraph.utils.DataNormalizer.3.actionPerformed(...)	103
metnet.metaomgraph.ui.MetadataTableDisplayPanel.updateTable(...)	87
metnet.metaomgraph.chart.MakeChartWithR.saveDatatoFile(...)	75
metnet.metaomgraph.chart.DataSorter.sortByXaxisNames()	66
metnet.metaomgraph.ui.DifferentialCorrFrame.showSearchMetadataPanel()	65
metnet.metaomgraph.ui.DifferentialExpFrame.showSearchMetadataPanel()	65
metnet.metaomgraph.ui.MetaOmTablePanel.makeBoxPlot(...)	63
metnet.metaomgraph.ui.MetadataTableDisplayPanel.18.actionPerformed(...)	60
metnet.metaomgraph.chart.BoxPlot.createDataset()	103
metnet.metaomgraph.CalculateDiffCorr.getPermutatedCorrelations(...)	60
metnet.metaomgraph.chart.MakeChartWithR.makeHeatmap(...)	69
metnet.metaomgraph.chart.DataSorter.sortByMetadata()	72
metnet.metaomgraph.chart.MakeChartWithR.runUserR(...)	69
metnet.metaomgraph.ui.MetadataTreeDisplayPanel.initDisplay(...)	65
metnet.metaomgraph.chart.BoxPlot.getBoxAndWhiskerRenderer(...)	210
metnet.metaomgraph.MetaOmGraph.14.finished()	76
metnet.arrayexpress.v2.AEProjectMaker.compileProcessedData()	143
metnet.metaomgraph.ui.MetaOmTablePanel.plotHeatMap(...)	61
metnet.metaomgraph.ui.MetaOmTablePanel.plotCorrHist(...)	67
metnet.metaomgraph.ui.DifferentialExpFrame.2.1.construct()	77
metnet.metaomgraph.test.BoxPlotter.getBoxAndWhiskerRenderer()	188
metnet.arrayexpress.v2.ProgressTableCellRendererer.getTableCellRendererComponent(...)	71

## Cyclomatic Complexity

















Artifact	Value
metnet.metaomgraph.ui.MetaOmTablePanel.actionPerformed(...)	209
metnet.metaomgraph.MetaOmProject.openProject(...)	213
metnet.metaomgraph.MetaOmProject.loadProjectFile(...)	199
metnet.metaomgraph.MetaOmGraph.actionPerformed(...)	125
metnet.metaomgraph.MetaOmGraph.init(...)	22
metnet.metaomgraph.AtGeneSearch.doQuery(...)	69
metnet.metaomgraph.MetaOmProject.saveProject(...)	34
metnet.metaomgraph.utils.ProjectMerger.mergeProjects(...)	50
metnet.metaomgraph.chart.ChartToolBar.actionPerformed(...)	58
metnet.metaomgraph.ui.ParseTableTree.buildTree(...)	34
metnet.metaomgraph.ui.logFCResultsFrame(...)	21
metnet.metaomgraph.MetaOmAnalyzer.2.construct()	38
metnet.arrayexpress.v2.AEXMLNodeInfo.getNewMetadataElement()	51
metnet.metaomgraph.chart.ChartDataExporter.doExport(...)	31
metnet.metaomgraph.utils.qdxml.QDParser.parse(...)	71
metnet.metaomgraph.ui.ReproducibilityDashboardPanel.9.mouseClicked(...)	35
metnet.metaomgraph.chart.HeatMapChart.actionPerformed(...)	39
metnet.metaomgraph.chart.BoxPlot.5.drawVerticalItem(...)	31
metnet.metaomgraph.chart.BoxPlot.actionPerformed(...)	31
metnet.arrayexpress.v2.AEXMLParser.endElement(...)	42
metnet.metaomgraph.chart.MetaOmChartPanel.initializeDataset()	29
metnet.metaomgraph.test.BoxPlotter.4.drawVerticalItem(...)	28
metnet.metaomgraph.ui.NewProjectDialog.doOK()	37
metnet.metaomgraph.test.UniversalProjectCreator.MetaOmFile.analyzeFile(...)	40
metnet.arrayexpress.v2.AEXMLNodeInfo.getSDRFData(...)	46
metnet.metaomgraph.CalculateLogFC.2.construct()	30
metnet.metaomgraph.ui.NewProjectDialog.SourceAnalyzeWorker.construct()	48
metnet.metaomgraph.chart.ScatterPlotDimReduction.actionPerformed(...)	35
metnet.metaomgraph.chart.ScatterPlotChart.actionPerformed(...)	34
metnet.arrayexpress.v2.AEXMLNodeInfo.downloadSDRFData(...)	35
metnet.metaomgraph.MetaOmAnalyzer.3.construct()	27

● metnet.arrayexpress.v2.AEXMLNodeInfo.getSDRFData()	34
● metnet.metaomgraph.playback.PlaybackAction.playActions(...)	27
● metnet.metaomgraph.utils.FileSplitter.splitAndNormalize(...)	23
● metnet.metaomgraph.chart.HistogramChart.actionPerformed(...)	30
● metnet.metaomgraph.chart.PointInfoPanel.refresh()	29
● metnet.metaomgraph.Metadata.areReps(...)	36
● metnet.metaomgraph.utils.RepUtils.areReps(...)	36
● metnet.metaomgraph.RepInfo.areReps(...)	36
● metnet.metaomgraph.FilterableTableModel.applyFilter(...)	30
● metnet.metaomgraph.ui.DiffCorrResultsTable.(...)	15
● metnet.metaomgraph.playback.PlaybackAction.playChart(...)	24
● metnet.metaomgraph.MetaOmProject.createProjectFromFile()	24
● metnet.metaomgraph.ui.logFCResultsFrame.10.1.construct()	21
● metnet.metaomgraph.ui.logFCResultsFrame.11.1.construct()	21
● metnet.arrayexpress.v2.AEXMLNodeInfo.unzipAndProcessData()	22
● metnet.metaomgraph.ui.ReproducibilityDashboardPanel.markActionsAsFavorite(...)	22
● metnet.arrayexpress.v2.AEProjectMaker.1.construct()	22
● metnet.metaomgraph.utils.DataNormalizer.wiesiaNormalize(...)	21
● metnet.metaomgraph.ui.DualTablePanel.getMatchingRow(...)	38
● metnet.metaomgraph.ui.DifferentialExpFrame.2.actionPerformed(...)	23
● metnet.metaomgraph.utils.DataNormalizer.newshowSplitDialog(...)	16
● metnet.arrayexpress.v2.ProcessedDataFileInfo.(...)	23
● metnet.metaomgraph.utils.FileSplitter.splitFile(...)	18
● metnet.metaomgraph.chart.BarChart.actionPerformed(...)	20
● metnet.metaomgraph.chart.MetaOmChartPanel.1.getToolTipText(...)	15
● metnet.metaomgraph.ui.SearchByExpressionFrame.startSearch()	18
● metnet.metaomgraph.CorrelationGrouped.main(...)	17
● metnet.metaomgraph.ui.DifferentialCorrFrame.2.actionPerformed(...)	22
● metnet.metaomgraph.MetaOmAnalyzer.ExcludeDialog.actionPerformed(...)	20
● metnet.metaomgraph.utils.NumberStringComparator.compare(...)	25
● metnet.metaomgraph.MetaOmProject.createProjectFromStream(...)	19
● metnet.metaomgraph.ui.MetaOmTablePanel.groupDataIndexbyRepColumn(...)	22
● metnet.metaomgraph.MetadataCollection.readMetadataTextFile(...)	17
● metnet.metaomgraph.RepInfo.getGoodReps(...)	17
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.actionPerformed(...)	17
● metnet.metaomgraph.chart.ChartDataExporter.actionPerformed(...)	18
● metnet.metaomgraph.ui.DisplayMetadataEditor.parsedata()	15
● metnet.arrayexpress.v2.AEXMLNodeInfo.getSoftware()	21
● metnet.metaomgraph.ui.DisplayMetadataEditor.addDataatoNode(...)	16
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.detectSRAColumns()	18
● metnet.metaomgraph.chart.BoxPlot.2.run()	17
● metnet.metaomgraph.AlphanumericComparator.compareNatural(...)	24
● metnet.metaomgraph.ui.DiffCorrResultsTable.10.1.construct()	15
● metnet.metaomgraph.ui.DiffCorrResultsTable.11.1.construct()	15
● metnet.metaomgraph.utils.Utils.convertNanoTimeToWords(...)	17
● metnet.metaomgraph.ui.CreateListFrame.actionPerformed(...)	17
● metnet.metaomgraph.ui.CreateListFrameDC.actionPerformed(...)	17
● metnet.metaomgraph.ui.CreateListFrameDEA.actionPerformed(...)	17
● metnet.metaomgraph.ListTree.drop(...)	17
● metnet.metaomgraph.RandomAccessFile.testBlocks(...)	16
● metnet.metaomgraph.test.MyRandomAccessFile.testBlocks(...)	16
● metnet.metaomgraph.MetaOmAnalyzer.updateExcluded(...)	16
● metnet.metaomgraph.RandomAccessFile.testBytes(...)	16
● metnet.metaomgraph.test.MyRandomAccessFile.testBytes(...)	16
● metnet.arrayexpress.v2.AEXMLNodeInfo.downloadProcessedData(...)	15
● metnet.metaomgraph.ui.DualListPanel.makeActive(...)	16




● metnet.metaomgraph.utils.MetNetUtils.getMetNetInfoFromProbes(...)	15
● metnet.metaomgraph.ui.DualListPanel.makeInactive(...)	16
● metnet.metaomgraph.MetaOmProject.importLists(...)	15
● metnet.metaomgraph.ui.MetadataTableDisplayPanel.26.mouseClicked(...)	16
● metnet.metaomgraph.MetaOmProject.openProjectOLD(...)	17
● metnet.metaomgraph.Metadata.search(...)	17
● metnet.metaomgraph.MetadataCollection.setHeaders(...)	15
● metnet.metaomgraph.test.TextMiner.oldMineTextForTargets(...)	15
● metnet.metaomgraph.ui.ScrollingTexturePanel.TimedAnimator.actionPerformed(...)	15
● metnet.metaomgraph.test.ColorBrickPanel.paintComponent(...)	15
● metnet.metaomgraph.utils.Utils.chooseFileToSave(...)	16
● metnet.metaomgraph.GraphFileFilter.accept(...)	19
● metnet.metaomgraph.ui.MetadataPanel.MetadataTransferHandler.canImport(...)	17
● metnet.metaomgraph.SortableData.compareTo(...)	16

## Fat


Artifact	Value
🗑 metnet.metaomgraph.ui	170
🗑 metnet.metaomgraph	137
🟢 metnet.metaomgraph.ui.MetaOmTablePanel	342
🗑 metnet.metaomgraph.chart	63
🟢 metnet.metaomgraph.MetaOmProject	493
🟢 metnet.metaomgraph.MetaOmGraph	490
🟢 metnet.metaomgraph.ui.MetadataTableDisplayPanel	341
🟢 metnet.metaomgraph.chart.MetaOmChartPanel	266
🟢 metnet.metaomgraph.chart.BoxPlot	158
🟢 metnet.metaomgraph.chart.ScatterPlotChart	165
🟢 metnet.metaomgraph.chart.ScatterPlotDimReduction	162
🟢 metnet.arrayexpress.v2.AEXMLNodeInfo	91
🟢 metnet.metaomgraph.ui.logFCResultsFrame	83
🟢 metnet.metaomgraph.RandomAccessFile	155
🟢 metnet.metaomgraph.test.MyRandomAccessFile	149
🟢 metnet.metaomgraph.utils.Utils	65
🟢 metnet.metaomgraph.ui.NewProjectDialog	84
🟢 metnet.metaomgraph.chart.ChartToolBar	98
🟢 metnet.metaomgraph.ui.ReadMetadata	131
🟢 metnet.metaomgraph.RepInfo	97
🟢 metnet.metaomgraph.ui.DiffCorrResultsTable	66
🟢 metnet.metaomgraph.ui.MetadataTreeDisplayPanel	104
🟢 metnet.metaomgraph.ui.DualTablePanel	118
🟢 metnet.metaomgraph.MetadataCollection	104
🟢 metnet.metaomgraph.chart.HeatMapPanel	93
🟢 metnet.metaomgraph.ui.ReproducibilityDashboardPanel	70
🟢 metnet.metaomgraph.Metadata	73
🟢 metnet.metaomgraph.ui.DifferentialExpFrame	99
🟢 metnet.metaomgraph.chart.HistogramChart	105
🟢 metnet.metaomgraph.chart.VolcanoPlot	97
🟢 metnet.metaomgraph.ui.DifferentialCorrFrame	96
🟢 metnet.metaomgraph.MetadataHybrid	90
🟢 metnet.metaomgraph.chart.NewCustomSortDialog	81
🟢 metnet.metaomgraph.CalculateDiffCorr	97
🟢 metnet.metaomgraph.ui.MetadataPanel	65
🟢 metnet.metaomgraph.chart.HeatMapChart	96
🟢 metnet.metaomgraph.chart.CustomSortDialog	80
🟢 metnet.metaomgraph.chart.BarChart	81
🟢 metnet.metaomgraph.chart.PointInfoPanel	67

 metnet.metaomgraph.ui.MetadataFilter	75
 metnet.metaomgraph.utils.ExceptionHandler	60
 metnet.metaomgraph.CalculateLogFC	68
 metnet.metaomgraph.TableSorter	103
 metnet.metaomgraph.ui.CorrelationMetaTable	61
 metnet.metaomgraph.ui.ColorProperties	79
 metnet.metaomgraph.FilterableTableModel	70
 metnet.metaomgraph.ListTree	64
 metnet.metaomgraph.ui.SearchByExpressionFrame	62
 metnet.metaomgraph.TangoIconTheme	99
 metnet.arrayexpress.v2.AEImportDialog	60
 metnet.metaomgraph.JavaIconTheme	92
 metnet.metaomgraph.SilkIconTheme	92
 metnet.metaomgraph.DifferentialCorrResults	72
 metnet.metaomgraph.DifferentialExpResults	63
 metnet.metaomgraph.ui.ClearableTextField	61




## Tangled

Artifact	Value
 metnet	11.61%
 metnet.metaomgraph	13.52%
 metnet.metaomgraph.utils	20%


## Average Component Dependency between Packages

Artifact	Value
 MetaOmGraph	100%















## Distance

Artifact	Value
 metnet.metaomgraph	-0.63
 metnet.metaomgraph.utils	-0.72
 metnet.metaomgraph.utils.qdxml	-0.59
 metnet.metaomgraph.throbber	-0.54
 metnet.metaomgraph.logging	-0.92

## Average Absolute Distance










Artifact	Value
 MetaOmGraph	0.44

## Weighted Methods per Class

Artifact	Value
 metnet.metaomgraph.ui.MetaOmTablePanel	522
 metnet.metaomgraph.MetaOmProject	1036
 metnet.metaomgraph.MetaOmGraph	399
 metnet.metaomgraph.ui.MetadataTableDisplayPanel	181
 metnet.arrayexpress.v2.AEXMLNodeInfo	287
 metnet.metaomgraph.utils.Utils	331
 metnet.metaomgraph.chart.MetaOmChartPanel	162
 metnet.metaomgraph.Metadata	211
 metnet.metaomgraph.RandomAccessFile	217
 metnet.metaomgraph.RepInfo	174
 metnet.metaomgraph.test.MyRandomAccessFile	188
 metnet.metaomgraph.chart.ScatterPlotChart	113
 metnet.metaomgraph.MetadataCollection	169
 metnet.metaomgraph.chart.ScatterPlotDimReduction	106

 metnet.metaomgraph.utils.DataNormalizer	118
 metnet.metaomgraph.MetadataHybrid	159
 metnet.metaomgraph.ui.DualTablePanel	135
 metnet.metaomgraph.FilterableTableModel	125
 metnet.metaomgraph.ListTree	113



### Coupling between Objects

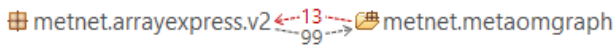
Artifact	Value
 metnet.metaomgraph.ui.MetaOmTablePanel	47
 metnet.metaomgraph.MetaOmProject	90
 metnet.metaomgraph.MetaOmGraph	106
 metnet.metaomgraph.utils.Utils	72
 metnet.metaomgraph.chart.MetaOmChartPanel	31
 metnet.metaomgraph.MetaOmAnalyzer	27
 metnet.metaomgraph.MetadataCollection	28
 metnet.metaomgraph.MetadataHybrid	37
 metnet.metaomgraph.AnimatedSwingWorker	40



### Response for a Class

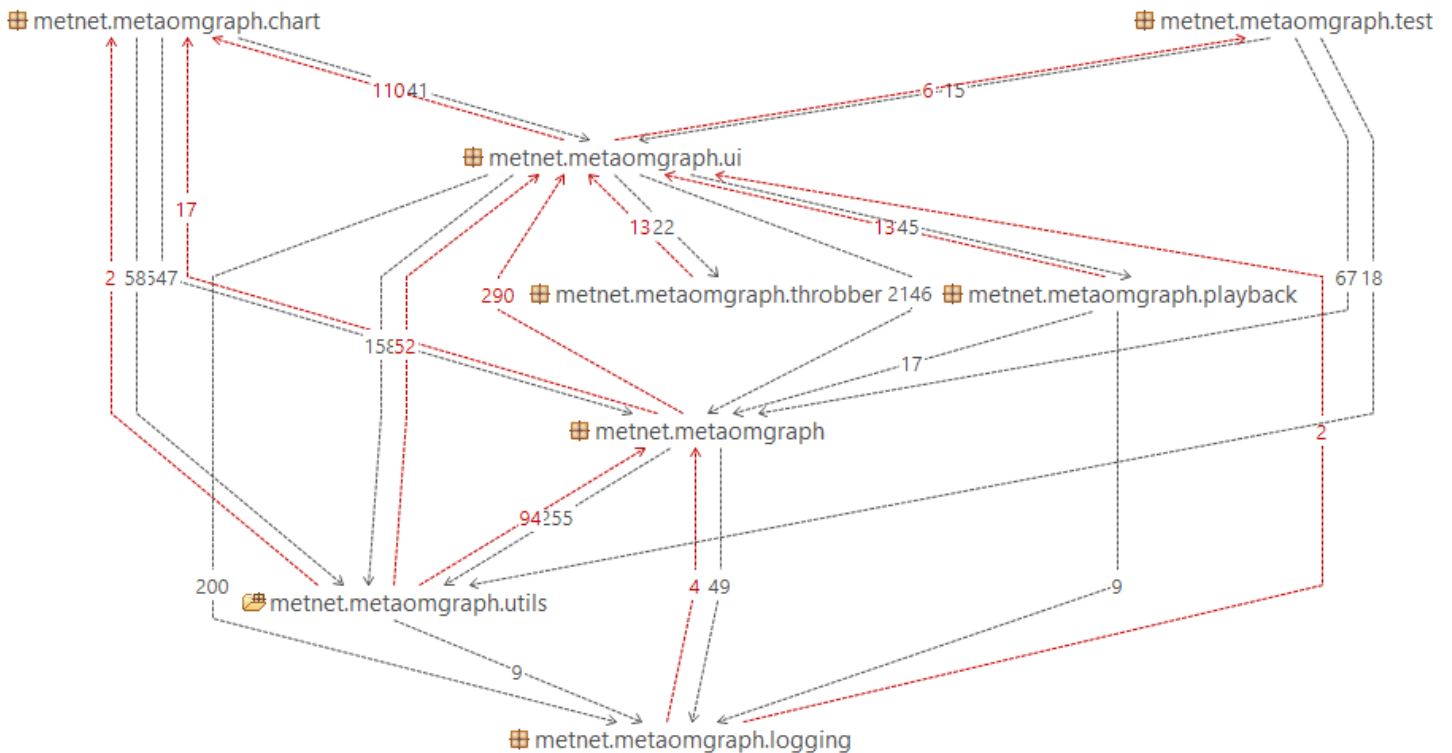
Artifact	Value
 metnet.metaomgraph.ui.MetaOmTablePanel	285
 metnet.metaomgraph.MetaOmProject	289
 metnet.metaomgraph.MetaOmGraph	248
 metnet.metaomgraph.ui.MetadataTableDisplayPanel	171
 metnet.metaomgraph.chart.MetaOmChartPanel	130
 metnet.metaomgraph.utils.Utils	113

### Design Tangles

 Tangle inside  metnet (#nodes=2, #edges=2, weight=112, fas size=1, weight=13)



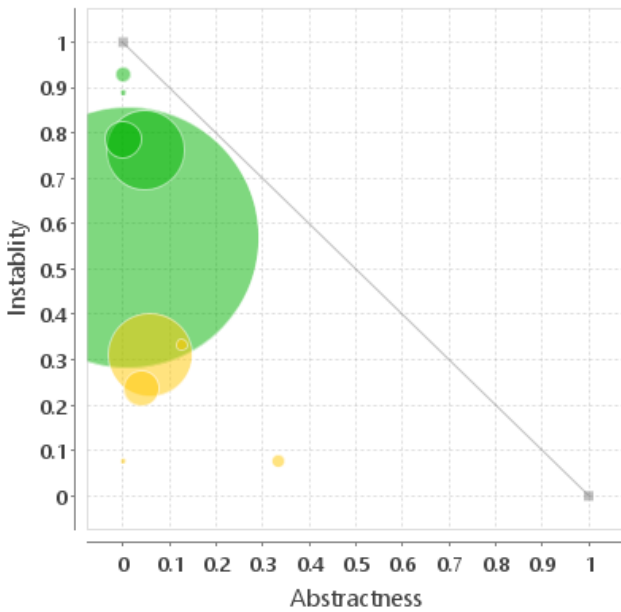
 Tangle inside  metnet.metaomgraph (#nodes=8, #edges=27, weight=4459, fas size=11, weight=603)



Tangle inside metnet.metaomgraph.utils (#nodes=2, #edges=2, weight=5, fas size=1, weight=1)



## Package Distance Chart



## Metric Ratings

### Count Metrics

Metric	Rating	Linear
Number of Top Level Classes	20 40 60 80	✓
Number of Methods	25 50 100 200	✓
Number of Fields	10 20 40 80	✓
Estimated Lines of Code	200 300 400 500	✓
Estimated Lines of Code	30 60 120 240	✓

### Complexity Metrics

Metric	Rating	Linear
Cyclomatic Complexity	10 15 20 30	✓
Fat	30 60 120 240	✓
Fat	30 60 120 240	✓
Fat	30 60 120 240	✓
Tangled	0 1	✓
Tangled for Library Dependencies	0 1	✓
Average Component Dependency between Libraries	0 5 1	✓
Average Component Dependency between Packages	0 5 1	✓

### Robert C. Martin Metrics

Metric	Rating	Linear
Distance	-1 -5 0 5 1	✓
Average Absolute Distance	0 4 5 1	✓

### Chidamber & Kemerer Metrics



Metric	Rating	Linear
Weighted Methods per Class	0 100 200 300	✓
Depth of Inheritance Tree	4 6 8 10	✓
Average Depth of Inheritance Tree	2 1 8	✓
Coupling between Objects	0 25 250	✓
Response for a Class	0 100 1000	✓

[stan4j.com](http://stan4j.com)