RAT-STATS Products

1.0

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Chapter 4

Namespace Documentation

4.1 oig::ratstats::ui::UIRStatsUtils Namespace Reference

This namespace represents a collection of reusable functions that have access to the Qt classes.

Functions

- void desktopOpen (const std::string &url)

  desktopOpen Opens files and web urls on the desktp
- void launchHtml (const std::string &content)

  launchHtml Displays html content in system web browser
- void launchHelp (const std::string &pdf)

  launchHelp Builds a url to the pdf item. Launches system pdf viewer with url as filePath.
- void setCurrentText (QComboBox ∗combo, const std::string &text)

  setCurrentText
- QPixmap getPixmap (const std::string &pixmapFileName)

  getPixmap
- QIcon getIcon (const std::string &iconFileName)

  getIcon
- std::string getCurrentTheme ()

  getCurrentTheme
- void loadThemeSettings (QApplication ∗app)

  loadThemeSettings
- void highlightErrorInValidationConsole (QListWidget ∗widget)

  highlightErrorInValidationConsole Ensures that the next error in the validation console is highlighted/focused.
- void populateWithColumns (const std::set< size_t > &columns, QComboBox ∗comboBox)

  populateWithColumns Populates combobox widget with column headers
- void populateWithRows (const std::set< size_t > &rows, QComboBox ∗comboBox)

  populateWithRows Populates combobox widget with row numbers
- void bindUIToSheet (QTableWidget ∗table, oig::ratstats::utils::RStatsWorksheet &sheetOut)

  bindUIToSheet
- void bindSheetToUI (const oig::ratstats::utils::RStatsWorksheet &sheetIn, QTableWidget ∗table, bool checkableHeader=false, int padRows=0, int padColumns=0, int numDecimalPlaces=-1, bool readOnly=false, bool disableAllFormatting=false)

  bindSheetToUI This function copies fields in the model class (RStatsWorksheet) into the view object (QTableWidget)

- QString setOutputFile (QCheckBox *checkBox, const QString &title, const QString &extension)

  setOutputFile Common code used by all the modules for saving output file
- template<typename ModuleType >
  std::pair< QActionGroup *, QAction * > buildRecentSessions (QWidget *parent, QAction *menuRecentAction, std::map< std::string, utils::RStatsModuleSessionDataPtr > &sessionMapOut, const std::string &sessionExtension)

  buildRecentSessions Constructs the "Recently Used" menu used by the modules
- void initAction (QAction *action, const QString &icon, const QString &shortcut, const QFont &font=QFont())

  initAction
- void initButton (QPushButton *button, const QString &icon, const QFont &font=QFont(), int height=32)

  initButton

4.1.1 Detailed Description

This namespace represents a collection of reusable functions that have access to the Qt classes.

4.1.2 Function Documentation

4.1.2.1 void oig::ratstats::ui::UIRStatsUtils::bindSheetToUI (const oig::ratstats::utils::RStatsWorksheet & *sheetIn*, QTableWidget * *table*, bool *checkableHeader* = `false`, int *padRows* = `0`, int *padColumns* = `0`, int *numDecimalPlaces* = `-1`, bool *readOnly* = `false`, bool *disableAllFormatting* = `false`) [inline]

bindSheetToUI This function copies fields in the model class (RStatsWorksheet) into the view object (QTableWidget)

Parameters

sheet	The (model) worksheet input
table	The (view) table widget output
padRows	Number of extra (blank) rows to add
padColumns	Number of extra (blank) columns to add
numDecimalPlaces	Number of decimal places to round numeric values
readOnly	Makes the output table cells read only
disableAllFormatting	Overrides any formatting settings in worksheet

4.1.2.2 void oig::ratstats::ui::UIRStatsUtils::bindUIToSheet (QTableWidget * *table*, oig::ratstats::utils::RStatsWorksheet & *sheetOut*) [inline]

bindUIToSheet

Parameters

table	
sheetOut	

4.1.2.3 template<typename ModuleType > std::pair<QActionGroup *, QAction*> oig::ratstats::ui::UIRStats↩ Utils::buildRecentSessions (QWidget * *parent,* QAction * *menuRecentAction,* std::map< std::string, utils::RStatsModuleSessionDataPtr > & *sessionMapOut,* const std::string & *sessionExtension*) [inline]

buildRecentSessions Constructs the "Recently Used" menu used by the modules

Parameters

parent	The parent widget to hold the sessions
menuRecentAction	The "Recently Used" menu item widget
sessionMapOut	The map to hold the session data pointers
sessionExtension	The extension/id using for saving/loading the sessions

Returns

Returns an action group and action pair to be used in module menu bar

4.1.2.4 void oig::ratstats::ui::UIRStatsUtils::desktopOpen (const std::string & *url*) [inline]

desktopOpen Opens files and web urls on the desktp

Parameters

url	Location of item to open

4.1.2.5 std::string oig::ratstats::ui::UIRStatsUtils::getCurrentTheme ( ) [inline]

getCurrentTheme

Returns

4.1.2.6 QIcon oig::ratstats::ui::UIRStatsUtils::getIcon (const std::string & *iconFileName*) [inline]

getIcon

Parameters

iconFileName	

Returns

4.1.2.7 QPixmap oig::ratstats::ui::UIRStatsUtils::getPixmap (const std::string & *pixmapFileName*) [inline]

getPixmap

Parameters

pixmapFileName	

Returns

4.1.2.8 void oig::ratstats::ui::UIRStatsUtils::highlightErrorInValidationConsole (QListWidget * *widget*) [inline]

highlightErrorInValidationConsole Ensures that the next error in the validation console is highlighted/focused.

Parameters

widget	The validation console list widget

4.1.2.9 void oig::ratstats::ui::UIRStatsUtils::initAction (QAction * *action,* const QString & *icon,* const QString & *shortcut,* const QFont & *font* = `QFont()`) [inline]

initAction

Parameters

action	
icon	
shortcut	
font	

4.1.2.10 void oig::ratstats::ui::UIRStatsUtils::initButton (QPushButton * *button,* const QString & *icon,* const QFont & *font* = `QFont()`, int *height* = `32`) [inline]

initButton

Parameters

button	
icon	
font	
height	

4.1.2.11 void oig::ratstats::ui::UIRStatsUtils::launchHelp (const std::string & *pdf*) [inline]

launchHelp Builds a url to the pdf item. Launches system pdf viewer with url as filePath.

Parameters

pdf	The filename portion of full url path

4.1.2.12 void oig::ratstats::ui::UIRStatsUtils::launchHtml (const std::string & *content*) [inline]

launchHtml Displays html content in system web browser

Parameters

content	The html content to display

4.1.2.13 void oig::ratstats::ui::UIRStatsUtils::loadThemeSettings (QApplication * *app*) [inline]

loadThemeSettings

Parameters

app	

4.1.2.14 void oig::ratstats::ui::UIRStatsUtils::populateWithColumns (const std::set< size_t > & *columns,* QComboBox * *comboBox*) [inline]

populateWithColumns Populates combobox widget with column headers

Parameters

columns	Unique set of columns
comboBox	The combobox widget to populate

4.1.2.15 void oig::ratstats::ui::UIRStatsUtils::populateWithRows (const std::set< size_t > & *rows,* QComboBox * *comboBox*) [inline]

populateWithRows Populates combobox widget with row numbers

Parameters

rows	Unique set of rows
comboBox	The combobox to populate

4.1.2.16 void oig::ratstats::ui::UIRStatsUtils::setCurrentText (QComboBox * *combo*, const std::string & *text*) [inline]

setCurrentText

Parameters

combo	
text	

4.1.2.17 QString oig::ratstats::ui::UIRStatsUtils::setOutputFile (QCheckBox * *checkBox*, const QString & *title*, const QString & *extension*) [inline]

setOutputFile Common code used by all the modules for saving output file

Parameters

checkBox	
title	
extension	

Returns

4.2 oig::ratstats::utils::RStatsUtils Namespace Reference

This namespace provides commonly used functions without requiring any dependencies on the Qt SDK.

Functions

- std::pair< std::string, std::string > getDataFormatTypeStr (RStatsDataFormatType type)

  getDataFormatTypeStr Gets the string representation of the data format type enumeration value
- template<class T >
  RStatsInteger vbRound (T value)

  vbRound This function attempts to simulate VB / VBA bankers rounding
- template<typename Integer >
  Integer ipow (Integer base, Integer exp)

  ipow Custom pow function for integers
- bool isEqual (RStatsFloat value1, RStatsFloat value2)

  isEqual Compares to floating point values
- template<typename Number >
  Number getSum (const RStatsObjectList< Number > &values, size_t dimension=0)

  getSum Return sum of list of numbers
- template<typename Float >
  Float getSumRaisedTo (const RStatsObjectList< Float > &values, Float power, size_t dimension=0)

  getSumRaisedTo Return sum of values raised to power

- template<typename Number >
  size_t getNumItemsThatMatchCondition (RStatsConditionalOperatorType condition, const RStatsObjectList< Number > &values, Number value, size_t dimension=0)

  getNumItemsThatMatchCondition Attempts to return the number of items in values that match the condition. Conditions can be =, !=, >, <, >= or <=
- template<typename Number >
  void calculate (const RStatsObjectList< Number > &input1, const RStatsObjectList< Number > &input2, RStatsObjectList< Number > &result, RStatsCalculationType calculation, size_t dimension=0)

  calculate This function takes in to RStatsObjectList structures and performs calculations on each element. The result is returned back in a third RStatsObjectList
- template<typename Number >
  RStatsObjectList< Number > getNumbersAdded (const RStatsObjectList< Number > &input1, const RStatsObjectList< Number > &input2, size_t dimension=0)

  getNumbersAdded This function adds together two RStatsObjetList structures and returns the result in another RStatsObjectList
- template<typename Number >
  RStatsObjectList< Number > getNumbersSubtracted (const RStatsObjectList< Number > &input1, const RStatsObjectList< Number > &input2, size_t dimension=0)

  getNumbersSubtracted This function subtracts two RStatsObjetList structures and returns the result in another RStatsObjectList
- template<typename Number >
  RStatsObjectList< Number > getNumbersMultiplied (const RStatsObjectList< Number > &input1, const RStatsObjectList< Number > &input2, size_t dimension=0)

  getNumbersMultiplied This function multiplies two RStatsObjetList structures and returns the result in another RStatsObjectList
- template<typename Number >
  RStatsObjectList< Number > getNumbersDivided (const RStatsObjectList< Number > &input1, const RStatsObjectList< Number > &input2, size_t dimension=0)

  getNumbersDivided This function divides two RStatsObjetList structures and returns the result in another RStatsObjectList
- std::string getValidPath (const std::string &pathToValidate)

  getValidPath RAT-STATS makes use of external files and this function attempts to find a valid path for input files. To remain portable and self-contained, RAT-STATS checks the following places for external files: (1) The execution directory - This is where the RAT-STATS main menu and RAT-STATS internal modules are located.
- std::string getModulePropertiesPath ()

  getModulePropertiesPath Return valid path to module XML config directory
- std::string getConfigPath ()

  getConfigPath Return valid path to config directory
- std::string getContribPath ()

  getContribPath Return valid path to contrib directory
- std::string getScriptProviderPropertiesPath ()

  getScriptProviderPropertiesPath Return valid path to script provider XML config directory
- std::string getResourcePath ()

  getResourcePath
- std::string getThemeSettingsFilePath ()

  getThemeSettingsFilePath
- std::vector< RStatsModuleProperties > getModulePropertiesList ()

  getModulePropertiesList Read all module properties from disk
- std::vector< std::string > getModuleCategories ()

  getModuleCategories Get list of all module categories
- std::vector< RStatsScriptProviderProperties > getScriptProviderPropertiesList ()

  getScriptProviderPropertiesList Get list of all parsed script provider from disk
- size_t getColumnIndexFromLabel (const std::string &columnLabel)

  RStatsWorksheet::getColumnIndexFromLabel.

- std::string getColumnLabelFromIndex (size_t columnIndex)

  RStatsWorksheet::getColumnLabelFromIndex.
- std::pair< size_t, size_t > getCellIndexFromAddress (const std::string &cellAddress)

  getCellIndexFromAddress
- void createValidPath (const std::string &pathToCreate)

  createValidPath
- std::string getValidSessionPath ()

  getValidSessionPath
- std::vector< std::string > getRecentSessions (const std::string &sessionExtension)

  getRecentSessions
- void saveRecentSession (RStatsModuleSessionDataPtr sessionPtr)

  saveRecentSession
- void clearRecentSessions (const std::string &sessionExtension)

  clearRecentSessions
- RStatsFloat divideValues (RStatsInteger value1, RStatsInteger value2)

  divideValues
- std::string getAuditName ()

  getRandomAuditName Generates random audit name for use when none is provided
- std::string getApplicationName ()

  getApplicationName Returns name of application
- std::string getCellLabel (size_t row, size_t column)

  getCellLabel Gets the spreadsheet cell label (A1, B4, etc) from 0-based row and column indices
- std::string getValidModule (const std::string &modulePath)

  getValidModule Returns string path to validated module
- bool isValidModule (const std::string &modulePath)

  isValidModule Determines if a module path can be validated

4.2.1 Detailed Description

This namespace provides commonly used functions without requiring any dependencies on the Qt SDK.

4.2.2 Function Documentation

4.2.2.1 template<typename Number > void oig::ratstats::utils::RStatsUtils::calculate (const RStatsObjectList< Number > & *input1*, const RStatsObjectList< Number > & *input2*, RStatsObjectList< Number > & *result*, RStatsCalculationType *calculation*, size_t *dimension* = 0) [inline]

calculate This function takes in to RStatsObjectList structures and performs calculations on each element. The result is returned back in a third RStatsObjectList

Parameters

input1	The first number list
input2	The second number list
result	Reference to the output list result
calculation	The calculation to perform
dimension	The dimension to perform the calculation in

4.2.2.2 void oig::ratstats::utils::RStatsUtils::clearRecentSessions (const std::string & *sessionExtension*) [inline]

clearRecentSessions

Parameters

sessionExtension	

4.2.2.3 void oig::ratstats::utils::RStatsUtils::createValidPath (const std::string & *pathToCreate*) [inline]

createValidPath

Parameters

pathToCreate	

4.2.2.4 RStatsFloat oig::ratstats::utils::RStatsUtils::divideValues (RStatsInteger *value1,* RStatsInteger *value2*) [inline]

divideValues

Parameters

value1	
value2	

Returns

4.2.2.5 std::string oig::ratstats::utils::RStatsUtils::getApplicationName ( ) [inline]

getApplicationName Returns name of application

Returns

Returns name of application

4.2.2.6 std::string oig::ratstats::utils::RStatsUtils::getAuditName ( ) [inline]

getRandomAuditName Generates random audit name for use when none is provided

Returns

Return newly created random audit name

4.2.2.7 std::pair<size_t,size_t> oig::ratstats::utils::RStatsUtils::getCellIndexFromAddress (const std::string & *cellAddress*) [inline]

getCellIndexFromAddress

Parameters

cellAddress	

Returns

4.2.2.8 std::string oig::ratstats::utils::RStatsUtils::getCellLabel (size_t *row,* size_t *column*) [inline]

getCellLabel Gets the spreadsheet cell label (A1, B4, etc) from 0-based row and column indices

Parameters

row	The row index
column	The column index

Returns

Return string with cell label (A1, B4, etc)

4.2.2.9 size_t oig::ratstats::utils::RStatsUtils::getColumnIndexFromLabel (const std::string & *columnLabel*) [inline]

RStatsWorksheet::getColumnIndexFromLabel.

Parameters

columnLabel	

Returns

4.2.2.10 std::string oig::ratstats::utils::RStatsUtils::getColumnLabelFromIndex (size_t *columnIndex*) [inline]

RStatsWorksheet::getColumnLabelFromIndex.

Parameters

columnIndex	

Returns

4.2.2.11 std::string oig::ratstats::utils::RStatsUtils::getConfigPath ( ) [inline]

getConfigPath Return valid path to config directory

Returns

4.2.2.12 std::string oig::ratstats::utils::RStatsUtils::getContribPath ( ) [inline]

getContribPath Return valid path to contrib directory

Returns

4.2.2.13 std::pair<std::string,std::string> oig::ratstats::utils::RStatsUtils::getDataFormatTypeStr (RStatsDataFormatType *type*) [inline]

getDataFormatTypeStr Gets the string representation of the data format type enumeration value

Parameters

type	The enumeration value to convert to string

Returns

Return string representation of data format type enumeration

4.2.2.14 std::vector<std::string> oig::ratstats::utils::RStatsUtils::getModuleCategories ( ) [inline]

getModuleCategories Get list of all module categories

Returns

Return vector of module category names

4.2.2.15 std::vector<RStatsModuleProperties> oig::ratstats::utils::RStatsUtils::getModulePropertiesList ( ) [inline]

getModulePropertiesList Read all module properties from disk

Returns

Return vector of all parsed module properties

4.2.2.16 std::string oig::ratstats::utils::RStatsUtils::getModulePropertiesPath ( ) [inline]

getModulePropertiesPath Return valid path to module XML config directory

Returns

4.2.2.17 template<typename Number > RStatsObjectList<Number> oig::ratstats::utils::RStatsUtils::getNumbersAdded (const RStatsObjectList< Number > & *input1*, const RStatsObjectList< Number > & *input2*, size_t *dimension* = 0) [inline]

getNumbersAdded This function adds together two RStatsObjetList structures and returns the result in another RStatsObjectList

Parameters

input1	The first number list
input2	The second number list
dimension	The dimension to add

Returns

Return number list of added results

4.2.2.18 template<typename Number > RStatsObjectList<Number> oig::ratstats::utils::RStatsUtils::getNumbersDivided (const RStatsObjectList< Number > & *input1*, const RStatsObjectList< Number > & *input2*, size_t *dimension* = 0) [inline]

getNumbersDivided This function divides two RStatsObjetList structures and returns the result in another RStats↩ ObjectList

Parameters

input1	The first number list
input2	The second number list
dimension	The dimension to divide

Returns

Return number list of divided results

4.2.2.19 template<typename Number > RStatsObjectList<Number> oig::ratstats::utils::RStatsUtils::getNumbers↩ Multiplied (const RStatsObjectList< Number > & *input1*, const RStatsObjectList< Number > & *input2*, size_t *dimension* = 0) [inline]

getNumbersMultiplied This function multiplies two RStatsObjetList structures and returns the result in another R↩ StatsObjectList

Parameters

input1	The first number list
input2	The second number list
dimension	The dimension to multiply

Returns

Return number list of multiplied results

4.2.2.20 template<typename Number > RStatsObjectList<Number> oig::ratstats::utils::RStatsUtils::getNumbersSubtracted (const RStatsObjectList< Number > & *input1*, const RStatsObjectList< Number > & *input2*, size_t *dimension* = 0) [inline]

getNumbersSubtracted This function subtracts two RStatsObjetList structures and returns the result in another RStatsObjectList

Parameters

input1	The first number list
input2	The second number list
dimension	The dimension to subtract

Returns

Return number list of subtracted results

4.2.2.21 template<typename Number > size_t oig::ratstats::utils::RStatsUtils::getNumItemsThatMatchCondition (RStatsConditionalOperatorType *condition*, const RStatsObjectList< Number > & *values*, Number *value*, size_t *dimension* = 0) [inline]

getNumItemsThatMatchCondition Attempts to return the number of items in values that match the condition. Conditions can be =, !=, >, <, >= or <=

Parameters

condition	The condition to check
values	List of values
value	Number to compare to list of values
dimension	Dimension of values to check

Returns

total count of values that match condition

4.2.2.22 std::vector<std::string> oig::ratstats::utils::RStatsUtils::getRecentSessions (const std::string & *sessionExtension*) [inline]

getRecentSessions

Parameters

sessionExtension	

Returns

4.2.2.23 std::string oig::ratstats::utils::RStatsUtils::getResourcePath ( ) [inline]

getResourcePath

Returns

4.2.2.24 std::vector<**RStatsScriptProviderProperties**> oig::ratstats::utils::RStatsUtils::getScriptProviderPropertiesList ( ) [inline]

getScriptProviderPropertiesList Get list of all parsed script provider from disk

Returns

Return vector of script provider properties

4.2.2.25 std::string oig::ratstats::utils::RStatsUtils::getScriptProviderPropertiesPath ( ) [inline]

getScriptProviderPropertiesPath Return valid path to script provider XML config directory

Returns

4.2.2.26 template<typename Number > Number oig::ratstats::utils::RStatsUtils::getSum (const **RStatsObjectList**< Number > & *values,* size_t *dimension* = 0) [inline]

getSum Return sum of list of numbers

Parameters

values	List of numbers to sum
dimension	Dimension of numbers to sum

Returns

total sum of all values

4.2.2.27 template<typename Float > Float oig::ratstats::utils::RStatsUtils::getSumRaisedTo (const RStatsObjectList< Float > & *values*, Float *power*, size_t *dimension* = 0) [inline]

getSumRaisedTo Return sum of values raised to power

Parameters

values	List of numbers to sum
power	The power to raise each number to
dimension	The dimension of the numbers to sum

Returns

total sum of all raised values

4.2.2.28 std::string oig::ratstats::utils::RStatsUtils::getThemeSettingsFilePath ( ) [inline]

getThemeSettingsFilePath

Returns

4.2.2.29 std::string oig::ratstats::utils::RStatsUtils::getValidModule (const std::string & *modulePath*) [inline]

getValidModule Returns string path to validated module

Parameters

modulePath	Initial (unvalidated) path to module

Returns

Returns validated path to module

Exceptions

GenericException	if modulePath could not be validated

4.2.2.30 std::string oig::ratstats::utils::RStatsUtils::getValidPath (const std::string & *pathToValidate*) [inline]

getValidPath RAT-STATS makes use of external files and this function attempts to find a valid path for input files. To remain portable and self-contained, RAT-STATS checks the following places for external files: (1) The execution directory - This is where the RAT-STATS main menu and RAT-STATS internal modules are located.

(2) The users application folder - This is different per platform but it represents a folder that is readable/writable by the current user.

(3) The users home folder - As a last resort this folder is checked for the location of the file. If none of these paths are valid then an exception is thrown.

Parameters

pathToValidate	The path to look for in the above 3 locations

Returns

Returns validated path to "pathToValidate" item

Exceptions

FileAccessException	if a valid path could not be found

4.2.2.31 std::string oig::ratstats::utils::RStatsUtils::getValidSessionPath ( ) [inline]

getValidSessionPath

Returns

4.2.2.32 template<typename Integer > Integer oig::ratstats::utils::RStatsUtils::ipow (Integer *base,* Integer *exp*) [inline]

ipow Custom pow function for integers

Parameters

base	The base value
exp	The exponential value

Returns

Computed base raised to exp

4.2.2.33 bool oig::ratstats::utils::RStatsUtils::isEqual (RStatsFloat *value1*, RStatsFloat *value2*) [inline]

isEqual Compares to floating point values

Parameters

value1	First floating point value
value2	Second floating point value

Returns

True if the floats are equal, false otherwise

4.2.2.34 bool oig::ratstats::utils::RStatsUtils::isValidModule (const std::string & *modulePath*) [inline]

isValidModule Determines if a module path can be validated

Parameters

modulePath	Initial path to module

Returns

Returns true if path exists, false otherwise

4.2.2.35 void oig::ratstats::utils::RStatsUtils::saveRecentSession (RStatsModuleSessionDataPtr *sessionPtr*) [inline]

saveRecentSession

Parameters

sessionData	
sessionExtension	

4.2.2.36 template<class T > RStatsInteger oig::ratstats::utils::RStatsUtils::vbRound (T *value*) [inline]

vbRound This function attempts to simulate VB / VBA bankers rounding

Parameters

value	The value to round

Returns

rounded integer value

Chapter 5

Class Documentation

5.1 oig::ratstats::utils::RStatsCell Struct Reference

The RStatsCell struct represents a single cell object for a worksheet.

`#include <RStatsWorksheet.h>`

Public Member Functions

- void **operator=** (const std::string &text)
- void **operator=** (RStatsFloat number)
- void **operator=** (RStatsInteger number)
- **RStatsCell** (const std::string &text="")

Public Attributes

- cbtek::common::utility::Font **font**
- cbtek::common::utility::Color **bgColor**
- cbtek::common::utility::Color **fgColor**
- RStatsTextAlignment **alignment**
- std::string **text**

Static Public Attributes

- static RStatsTextAlignment **ms_DefaultAlignment** = RStatsTextAlignment::AlignLeft
- static cbtek::common::utility::Color **ms_DefaultBGColor** = ColorFactory::create(colors::TRANSPARENT_1)
- static cbtek::common::utility::Color **ms_DefaultFGColor** = Color(0,0,0)
- static cbtek::common::utility::Font **ms_DefaultFont** = cbtek::common::utility::Font("arial")
- static RStatsCellFormat **ms_DefaultFormat**
- static size_t **ms_DefaultFloatingPointDecimals** = 6

5.1.1 Detailed Description

The RStatsCell struct represents a single cell object for a worksheet.

The documentation for this struct was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsWorksheet.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsWorksheet.cpp

5.2 oig::ratstats::utils::RStatsConditionLogger Class Reference

The RStatsConditionLogger class provides support for creating warning, informative and error messages based on boolean conditions. This object is used by the modules for realtime error/exception monitoring.

`#include <RStatsConditionLogger.h>`

Public Member Functions

- RStatsConditionLogger ()
  RStatsConditionLogger (Constructor)
- void addWarning (bool condition, const std::string &message)
  addWarning Adds warning condition to logger
- void addInformation (bool condition, const std::string &message)
  addInformation Adds information condition to logger
- void addError (bool condition, const std::string &message)
  addError Add error condition to logger
- const std::vector< std::string > & getMessages () const
  getMessages Get all the messages in logger
- bool hasMessages () const
  hasMessages Determine if there are any messages
- bool hasError () const
  hasError Determine if there are any error messages
- bool hasWarning () const
  hasWarning Determine if there are any warning messages
- bool hasInformation () const
  hasInformation Determine if there are any information messages
- void clear ()
  clear Clears all messages from logger
- void setWarningQSS (const std::string &qss)
  setWarningQSS
- void setErrorQSS (const std::string &qss)
  setErrorQSS
- void setInformationQSS (const std::string &qss)
  setInformationQSS
- bool isError (size_t index) const
  isError
- bool isWarning (size_t index) const
  isWarning
- bool isInformation (size_t index) const
  isInformation
- ~RStatsConditionLogger ()
  Destructor.

5.2.1 Detailed Description

The RStatsConditionLogger class provides support for creating warning, informative and error messages based on boolean conditions. This object is used by the modules for realtime error/exception monitoring.

5.2.2 Member Function Documentation

5.2.2.1 void oig::ratstats::utils::RStatsConditionLogger::addError (bool *condition,* const std::string & *message*)

addError Add error condition to logger

Parameters

condition	COndition that shows error if true
message	The actual error message

5.2.2.2 void oig::ratstats::utils::RStatsConditionLogger::addInformation (bool *condition,* const std::string & *message*)

addInformation Adds information condition to logger

Parameters

condition	Condition that shows information if true
message	The acutal information message

5.2.2.3 void oig::ratstats::utils::RStatsConditionLogger::addWarning (bool *condition,* const std::string & *message*)

addWarning Adds warning condition to logger

Parameters

condition	Condition that shows warning if true
message	The actual warning message

5.2.2.4 const std::vector< std::string > & oig::ratstats::utils::RStatsConditionLogger::getMessages ( ) const

getMessages Get all the messages in logger

Returns

Returns vector of string containing all messages

5.2.2.5 bool oig::ratstats::utils::RStatsConditionLogger::hasError ( ) const

hasError Determine if there are any error messages

Returns

Returns true if error messages exist, false otherwise

5.2.2.6 bool oig::ratstats::utils::RStatsConditionLogger::hasInformation ( ) const

hasInformation Determine if there are any information messages

Returns

Returns true if info messages exist, false otherwise

5.2.2.7 bool oig::ratstats::utils::RStatsConditionLogger::hasMessages ( ) const

hasMessages Determine if there are any messages

Returns

Returns true if messages exist, false otherwise

5.2.2.8 bool oig::ratstats::utils::RStatsConditionLogger::hasWarning ( ) const

hasWarning Determine if there are any warning messages

Returns

Returns true if warning messages exist, false otherwise

5.2.2.9 bool oig::ratstats::utils::RStatsConditionLogger::isError (size_t *index*) const

isError

Parameters

index	

Returns

5.2.2.10 bool oig::ratstats::utils::RStatsConditionLogger::isInformation (size_t *index*) const

isInformation

Parameters

index	

Returns

5.2.2.11 bool oig::ratstats::utils::RStatsConditionLogger::isWarning (size_t *index*) const

isWarning

Parameters

index	

Returns

5.2.2.12 void oig::ratstats::utils::RStatsConditionLogger::setErrorQSS (const std::string & *qss*)

setErrorQSS

Parameters

qss	

5.2.2.13 void oig::ratstats::utils::RStatsConditionLogger::setInformationQSS (const std::string & *qss*)

setInformationQSS

Parameters

qss	

5.2.2.14 void oig::ratstats::utils::RStatsConditionLogger::setWarningQSS (const std::string & *qss*)

setWarningQSS

Parameters

qss	

The documentation for this class was generated from the following files:

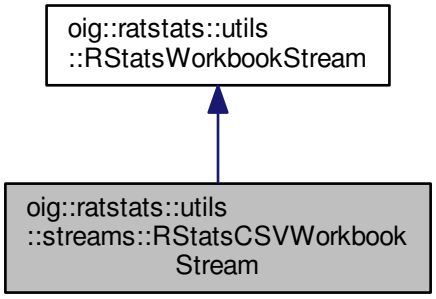
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsConditionLogger.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsConditionLogger.cpp

5.3 oig::ratstats::utils::streams::RStatsCSVWorkbookStream Class Reference

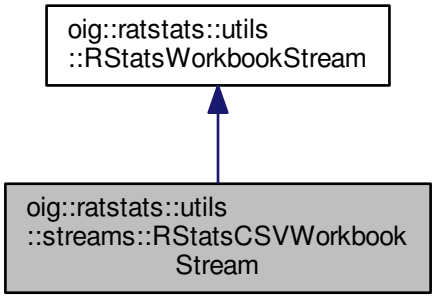
The RStatsCSVWorkbookStream class provides support for reading/writing to a CSV file.

`#include <RStatsCSVWorkbookStream.h>`

Inheritance diagram for oig::ratstats::utils::streams::RStatsCSVWorkbookStream:



Collaboration diagram for oig::ratstats::utils::streams::RStatsCSVWorkbookStream:



Public Member Functions

- RStatsCSVWorkbookStream (const std::string &filePath)

  RStatsCSVWorkbookStream (Constructor) Sets the path for input/output.
- virtual void write (const RStatsWorkbook &workbook)

  write Writes a workbook out to file. Note that this will only write the first sheet to the CSV file and add it to the workbook since CSV does not support mulitple sheets.
- virtual RStatsWorkbook read ()

  read Reads a workbook from file. Note that this will only read a single sheet from the CSV file and add it to the workbook since CSV does not support mulitple sheets
- ~RStatsCSVWorkbookStream ()

  Destructor.

5.3.1 Detailed Description

The RStatsCSVWorkbookStream class provides support for reading/writing to a CSV file.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 oig::ratstats::utils::streams::RStatsCSVWorkbookStream::RStatsCSVWorkbookStream (const std::string & *filePath*)

RStatsCSVWorkbookStream (Constructor) Sets the path for input/output.

Parameters

filePath	The path to the input/output file

5.3.3 Member Function Documentation

5.3.3.1 RStatsWorkbook oig::ratstats::utils::streams::RStatsCSVWorkbookStream::read ( ) [virtual]

read Reads a workbook from file. Note that this will only read a single sheet from the CSV file and add it to the workbook since CSV does not support mulitple sheets

Returns

Return constructed Workbook object

Implements oig::ratstats::utils::RStatsWorkbookStream.

5.3.3.2 void oig::ratstats::utils::streams::RStatsCSVWorkbookStream::write (const RStatsWorkbook & *workbook*) [virtual]

write Writes a workbook out to file. Note that this will only write the first sheet to the CSV file and add it to the workbook since CSV does not support mulitple sheets.

Parameters

workbook	The workbook object to write

Implements oig::ratstats::utils::RStatsWorkbookStream.

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/streams/RStatsCSVWorkbookStream.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/streams/RStatsCSVWorkbookStream.cpp

5.4 oig::ratstats::utils::RStatsDataFormatTypeIndex Struct Reference

The RStatsDataFormatTypeIndex struct.

`#include <RStatsTypes.hpp>`

Public Attributes

- RStatsDataFormatType **type**
- size_t **primaryDatasetColumnIndex**
- size_t **secondaryDatasetColumnIndex**

5.4.1 Detailed Description

The RStatsDataFormatTypeIndex struct.

The documentation for this struct was generated from the following file:

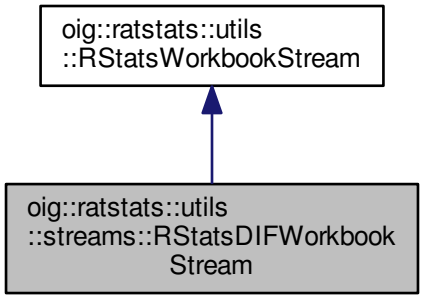
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsTypes.hpp

5.5 oig::ratstats::utils::streams::RStatsDIFWorkbookStream Class Reference

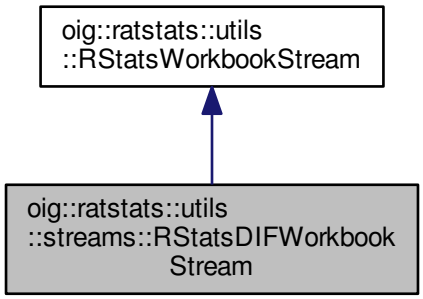
The RStatsDIFWorkbookStream class provides support for reading from and writing to the data interchange format.

`#include <RStatsDIFWorkbookStream.h>`

Inheritance diagram for oig::ratstats::utils::streams::RStatsDIFWorkbookStream:



Collaboration diagram for oig::ratstats::utils::streams::RStatsDIFWorkbookStream:



Public Member Functions

- RStatsDIFWorkbookStream (const std::string &filePath)

  RStatsDIFWorkbookStream (Constructor)
- virtual void write (const RStatsWorkbook &workbook)

  write Writes a workbook object to DIF at m_filePath NOTE: For a multisheet workbook, only the first sheet is written
- virtual RStatsWorkbook read ()

  read Reads a DIF file at m_filePath into a workbook object
- ~RStatsDIFWorkbookStream ()

  Destructor.

5.5.1 Detailed Description

The RStatsDIFWorkbookStream class provides support for reading from and writing to the data interchange format.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 oig::ratstats::utils::streams::RStatsDIFWorkbookStream::RStatsDIFWorkbookStream (const std::string & *filePath*)

RStatsDIFWorkbookStream (Constructor)

Parameters

filePath	The path for reading/writing

5.5.3 Member Function Documentation

5.5.3.1 RStatsWorkbook oig::ratstats::utils::streams::RStatsDIFWorkbookStream::read ( ) [virtual]

read Reads a DIF file at m_filePath into a workbook object

Returns

Returs workbook object of parsed DIF file

Exceptions

GenericException	if file could not be read from

Implements oig::ratstats::utils::RStatsWorkbookStream.

5.5.3.2 void oig::ratstats::utils::streams::RStatsDIFWorkbookStream::write (const RStatsWorkbook & *workbook*) [virtual]

write Writes a workbook object to DIF at m_filePath NOTE: For a multisheet workbook, only the first sheet is written

Parameters

workbook	The workbook to write

Exceptions

GenericException	if file could not be written to

Implements oig::ratstats::utils::RStatsWorkbookStream.

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/streams/RStatsDIFWorkbookStream.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/streams/RStatsDIFWorkbookStream.cpp

5.6 oig::ratstats::utils::RStatsMergeCellRange Struct Reference

The RStatsMergeCellRange struct.

```
#include <RStatsWorksheet.h>
```

Public Member Functions

- bool **contains** (size_t row, size_t column) const
- bool **operator**< (const RStatsMergeCellRange &value) const

Public Attributes

- size_t **startRow**
- size_t **startColumn**
- size_t **rowOffset**
- size_t **columnOffset**

5.6.1 Detailed Description

The RStatsMergeCellRange struct.

The documentation for this struct was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsWorksheet.h

5.7 oig::ratstats::utils::RStatsModuleProperties Class Reference

The RStatsModuleProperties class represents a individual module object in RAT-STATS. It provides a method of loading, saving and removing the module to/from disk.

```
#include <RStatsModuleProperties.h>
```

Public Member Functions

- RStatsModuleProperties ()

  RStatsModuleProperties (Constructor)
- void setType (const std::string &value)

  Setter for m_type.
- void setName (const std::string &value)

  Setter for m_name.
- void setWorkingDir (const std::string &value)

  Setter for m_workingDir.
- void setPath (const std::string &value)

  Setter for m_location.
- void setCategory (const std::string &value)

  Setter for m_group.
- void setArgs (const std::vector< std::pair< std::string, std::string > > &value)

  Setter for m_args.
- std::string getGeneratedApplicationCommand () const

  getGeneratedApplicationCommand This fuction constructs a command string which includes module path, script (if applicable) and command line arguments
- void generateApplicationCommand (std::string &commandOut, std::string &argsOut)

  generateApplicationCommand
- void setScriptPath (const std::string &scriptFilePath)

  setScriptPrefix
- const std::string & **getScriptPath** () const
- const std::string & getType () const

  Getter for m_type.
- const std::string & getName () const

  Getter for m_name.
- const std::string & getWorkingDir () const

  Getter for m_workingDir.
- const std::string & getPath () const

  Getter for m_location.
- const std::string & getCategory () const

  Getter for m_group.
- const std::string & getConfigPath () const

  getConfigPath
- const std::string & getScriptPathArgs () const

  Getter for m_args.
- void setScriptPathArgs (const std::string &value)

  setArgs
- const std::string & getArgs () const

  Getter for m_args.
- void setArgs (const std::string &value)

  setArgs
- void setConfigPath (const std::string &path)

  setConfigPath Sets the XML config file path
- void loadConfig (const std::string &filePath)

  loadConfig
- void saveConfig (const std::string &filePath)

  saveConfig Saves XML config to filePath
- void saveConfig ()

saveConfig Saves XML config to default filePath

- void removeConfig ()

  removeConfig Deletes XML config from default filePath

- void setIcon (const std::string &appIcon)

  setIcon

- std::string getIcon () const

  getIcon Returns string relative URL to icon resource

- bool isConsoleShown () const

  isConsoleShown Determines if command console should be shown.

- void setConsoleShown (bool flag)

  setConsoleShown Sets boolean flag for condition where the command console should be shown when launching a module.

- ~RStatsModuleProperties ()

  Destructor.

5.7.1 Detailed Description

The RStatsModuleProperties class represents a individual module object in RAT-STATS. It provides a method of loading, saving and removing the module to/from disk.

5.7.2 Member Function Documentation

5.7.2.1 void oig::ratstats::utils::RStatsModuleProperties::generateApplicationCommand (std::string & *commandOut*, std::string & *argsOut*)

generateApplicationCommand

Parameters

commandOut	
argsOut	

5.7.2.2 const std::string & oig::ratstats::utils::RStatsModuleProperties::getArgs ( ) const

Getter for m_args.

Returns

Return copy of m_args

5.7.2.3 const std::string & oig::ratstats::utils::RStatsModuleProperties::getCategory ( ) const

Getter for m_group.

Returns

Return copy of m_group

5.7.2.4 const std::string & oig::ratstats::utils::RStatsModuleProperties::getConfigPath ( ) const

getConfigPath

Returns

5.7.2.5 std::string oig::ratstats::utils::RStatsModuleProperties::getGeneratedApplicationCommand ( ) const

getGeneratedApplicationCommand This fuction constructs a command string which includes module path, script (if applicable) and command line arguments

Returns

Returns string of full command thats ready to be launched

5.7.2.6 std::string oig::ratstats::utils::RStatsModuleProperties::getIcon ( ) const

getIcon Returns string relative URL to icon resource

Returns

5.7.2.7 const std::string & oig::ratstats::utils::RStatsModuleProperties::getName ( ) const

Getter for m_name.

Returns

Return copy of m_name

5.7.2.8 const std::string & oig::ratstats::utils::RStatsModuleProperties::getPath ( ) const

Getter for m_location.

Returns

Return copy of m_location

5.7.2.9 const std::string & oig::ratstats::utils::RStatsModuleProperties::getScriptPathArgs ( ) const

Getter for m_args.

Returns

Return copy of m_args

5.7.2.10 const std::string & oig::ratstats::utils::RStatsModuleProperties::getType ( ) const

Getter for m_type.

Returns

Return copy of m_type

5.7.2.11 const std::string & oig::ratstats::utils::RStatsModuleProperties::getWorkingDir ( ) const

Getter for m_workingDir.

Returns

Return copy of m_workingDir

5.7.2.12 bool oig::ratstats::utils::RStatsModuleProperties::isConsoleShown ( ) const

isConsoleShown Determines if command console should be shown.

Returns

Returns true if console should be shown, false otherwise

5.7.2.13 void oig::ratstats::utils::RStatsModuleProperties::loadConfig (const std::string & *filePath*)

loadConfig

Parameters

filePath	Reads XML config from filePath

5.7.2.14 void oig::ratstats::utils::RStatsModuleProperties::setArgs (const std::vector< std::pair< std::string, std::string > > & *value*)

Setter for m_args.

Parameters

value	to replace m_args

5.7.2.15 void oig::ratstats::utils::RStatsModuleProperties::setArgs (const std::string & *value*)

setArgs

Parameters

value	

5.7.2.16 void oig::ratstats::utils::RStatsModuleProperties::setCategory (const std::string & *value*)

Setter for m_group.

Parameters

value	to replace m_group

5.7.2.17 void oig::ratstats::utils::RStatsModuleProperties::setConfigPath (const std::string & *path*)

setConfigPath Sets the XML config file path

Parameters

path	The path to the XML config file

5.7.2.18 void oig::ratstats::utils::RStatsModuleProperties::setConsoleShown (bool *flag*)

setConsoleShown Sets boolean flag for condition where the command console should be shown when launching a module.

Parameters

flag	The boolean flag to set

5.7.2.19 void oig::ratstats::utils::RStatsModuleProperties::setIcon (const std::string & *appIcon*)

setIcon

Parameters

appIcon	

5.7.2.20 void oig::ratstats::utils::RStatsModuleProperties::setName (const std::string & *value*)

Setter for m_name.

Parameters

value	to replace m_name

5.7.2.21 void oig::ratstats::utils::RStatsModuleProperties::setPath (const std::string & *value*)

Setter for m_location.

Parameters

value	to replace m_location

5.7.2.22 void oig::ratstats::utils::RStatsModuleProperties::setScriptPath (const std::string & *scriptFilePath*)

setScriptPrefix

Parameters

type	
scriptFilePath	

5.7.2.23 void oig::ratstats::utils::RStatsModuleProperties::setScriptPathArgs (const std::string & *value*)

setArgs

Parameters

value	

5.7.2.24 void oig::ratstats::utils::RStatsModuleProperties::setType (const std::string & *value*)

Setter for m_type.

Parameters

value	to replace m_type

5.7.2.25 void oig::ratstats::utils::RStatsModuleProperties::setWorkingDir (const std::string & *value*)

Setter for m_workingDir.

Parameters

value	to replace m_workingDir

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsModuleProperties.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsModuleProperties.cpp

5.8 oig::ratstats::utils::RStatsModuleSessionData Class Reference

The RStatsModuleSessionData interface is used by each of the modules to provide custom session data for the "Recently Used" feature. This interface represents the common functions that have to be implemented for each module.

`#include <RStatsModuleSessionData.hpp>`

Inheritance diagram for oig::ratstats::utils::RStatsModuleSessionData:

Public Member Functions

- virtual std::string getSessionId () const =0

  getSessionId Returns unique id associated with this session
- virtual std::string getType () const =0

  getType The type of child class session data
- virtual void save (const std::string &url)=0

  save Called by sub-classes for saving custom fields
- virtual void load (const std::string &url)=0

  load Called by sub-classes for loading custom fields
- virtual const cbtek::common::utility::DateEntity & getCreationDate () const =0

  Getter for m_creationDate.
- virtual const cbtek::common::utility::TimeEntity & getCreationTime () const =0

  Getter for m_creationTime.
- virtual const std::string & getCSVOutputFile () const =0

  Getter for m_csvOutputFile.
- virtual const std::string & getTextOutputFile () const =0

Getter for m_textOutputFile.

- virtual const std::string & getAuditName () const =0

  Getter for m_auditName.

- virtual bool isViewableInBrowser () const =0

  isViewableInBrowser Flag to determine if module results are visible within a web browser

- virtual ~RStatsModuleSessionData ()

  Virtual Destructor.

5.8.1 Detailed Description

The RStatsModuleSessionData interface is used by each of the modules to provide custom session data for the "Recently Used" feature. This interface represents the common functions that have to be implemented for each module.

5.8.2 Member Function Documentation

5.8.2.1 virtual const std::string& oig::ratstats::utils::RStatsModuleSessionData::getAuditName ( ) const [pure virtual]

Getter for m_auditName.

Returns

Return copy of m_auditName

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.2 virtual const cbtek::common::utility::DateEntity& oig::ratstats::utils::RStatsModuleSessionData::getCreationDate ( ) const [pure virtual]

Getter for m_creationDate.

Returns

Return copy of m_creationDate

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.3 virtual const cbtek::common::utility::TimeEntity& oig::ratstats::utils::RStatsModuleSessionData::getCreationTime ( ) const [pure virtual]

Getter for m_creationTime.

Returns

Return copy of m_creationTime

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.4 virtual const std::string& oig::ratstats::utils::RStatsModuleSessionData::getCSVOutputFile ( ) const [pure virtual]

Getter for m_csvOutputFile.

Returns

Return copy of m_csvOutputFile

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.5 virtual std::string oig::ratstats::utils::RStatsModuleSessionData::getSessionId ( ) const [pure virtual]

getSessionId Returns unique id associated with this session

Returns

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.6 virtual const std::string& oig::ratstats::utils::RStatsModuleSessionData::getTextOutputFile ( ) const [pure virtual]

Getter for m_textOutputFile.

Returns

Return copy of m_textOutputFile

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.7 virtual std::string oig::ratstats::utils::RStatsModuleSessionData::getType ( ) const [pure virtual]

getType The type of child class session data

Returns

Return type of session data

Implemented in oig::ratstats::modules::sva::RStatsSVASessionData, oig::ratstats::modules::uva::RStatsUVASessionData, oig::ratstats::modules::ssrn::RStatsSSRNSessionData, oig::ratstats::modules::uaa::RStatsUAASessionData, and oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.8 virtual bool oig::ratstats::utils::RStatsModuleSessionData::isViewableInBrowser ( ) const [pure virtual]

isViewableInBrowser Flag to determine if module results are visible within a web browser

Returns

Implemented in oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.9 virtual void oig::ratstats::utils::RStatsModuleSessionData::load (const std::string & *url*) [pure virtual]

load Called by sub-classes for loading custom fields

Parameters

url	The location to load the file from

Implemented in oig::ratstats::modules::sva::RStatsSVASessionData, oig::ratstats::modules::uva::RStatsUVASessionData, oig::ratstats::modules::ssrn::RStatsSSRNSessionData, oig::ratstats::modules::uaa::RStatsUAASessionData, and oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.8.2.10 virtual void oig::ratstats::utils::RStatsModuleSessionData::save (const std::string & *url*) [pure virtual]

save Called by sub-classes for saving custom fields

Parameters

url	The location to save the file to

Implemented in oig::ratstats::modules::sva::RStatsSVASessionData, oig::ratstats::modules::uva::RStatsUVASessionData, oig::ratstats::modules::ssrn::RStatsSSRNSessionData, oig::ratstats::modules::uaa::RStatsUAASessionData, and oig::ratstats::utils::RStatsModuleSessionDataImpl.

The documentation for this class was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsModuleSessionData.hpp

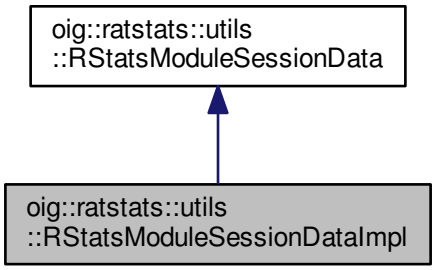
5.9 oig::ratstats::utils::RStatsModuleSessionDataImpl Class Reference

The RStatsModuleSessionDataImpl abstract class is a partial base implementation of the RStatsModuleSessionData interface. It implements getters/setters for the common values.

`#include <RStatsModuleSessionDataImpl.h>`

Inheritance diagram for oig::ratstats::utils::RStatsModuleSessionDataImpl:

Collaboration diagram for oig::ratstats::utils::RStatsModuleSessionDataImpl:



Public Member Functions

- RStatsModuleSessionDataImpl ()

  RStatsModuleSessionDataImpl.
- virtual std::string getType () const =0

  getType Get a string representing the subclass type
- virtual void save (const std::string &url)=0

  save Calls virtual subclass method for saving
- virtual void load (const std::string &url)=0

  load Calls virtual subclass method for loading
- virtual std::string getSessionId () const

  getSessionId Return unique id associated with this session
- void setCreationDate (const cbtek::common::utility::DateEntity &value)

  Setter for m_creationDate.
- void setCreationTime (const cbtek::common::utility::TimeEntity &value)

  Setter for m_creationTime.
- void setCSVOutputFile (const std::string &value)

  Setter for m_csvOutputFile.
- void setXLSOutputFile (const std::string &value)

  Setter for m_xlsOutputFile.
- void setTextOutputFile (const std::string &value)

  Setter for m_textOutputFile.
- void setAuditName (const std::string &value)

  Setter for m_auditName.
- const cbtek::common::utility::DateEntity & getCreationDate () const

  Getter for m_creationDate.
- const cbtek::common::utility::TimeEntity & getCreationTime () const

  Getter for m_creationTime.
- const std::string & getCSVOutputFile () const

  Getter for m_csvOutputFile.
- const std::string & getXLSOutputFile () const

  Getter for m_xlsOutputFile.
- const std::string & getTextOutputFile () const

Getter for m_textOutputFile.

- const std::string & getAuditName () const

  Getter for m_auditName.
- void setViewInBrowserFlag (bool flag)

  setViewInBrowserFlag
- bool isViewableInBrowser () const

  isViewableInBrowser
- void createSessionId ()

  createSessionId Generates new session id
- ~RStatsModuleSessionDataImpl ()

  Destructor.

Protected Member Functions

- void save (cbtek::common::utility::XMLStreamWriter &writer)

  save Provides XML save support for common values. This is usually called by implementing modules.
- void load (cbtek::common::utility::XMLDataElement *element)

  load Provides XML load support for common values. This is usually called by implementing modules.

5.9.1 Detailed Description

The RStatsModuleSessionDataImpl abstract class is a partial base implementation of the RStatsModuleSessionData interface. It implements getters/setters for the common values.

5.9.2 Member Function Documentation

5.9.2.1 const std::string & oig::ratstats::utils::RStatsModuleSessionDataImpl::getAuditName ( ) const [virtual]

Getter for m_auditName.

Returns

Return copy of m_auditName

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.2 const cbtek::common::utility::DateEntity & oig::ratstats::utils::RStatsModuleSessionDataImpl::getCreationDate ( ) const [virtual]

Getter for m_creationDate.

Returns

Return copy of m_creationDate

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.3 const cbtek::common::utility::TimeEntity & oig::ratstats::utils::RStatsModuleSessionDataImpl::getCreationTime ( ) const [virtual]

Getter for m_creationTime.

Returns

Return copy of m_creationTime

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.4 const std::string & oig::ratstats::utils::RStatsModuleSessionDataImpl::getCSVOutputFile ( ) const [virtual]

Getter for m_csvOutputFile.

Returns

Return copy of m_csvOutputFile

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.5 std::string oig::ratstats::utils::RStatsModuleSessionDataImpl::getSessionId ( ) const [virtual]

getSessionId Return unique id associated with this session

Returns

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.6 const std::string & oig::ratstats::utils::RStatsModuleSessionDataImpl::getTextOutputFile ( ) const [virtual]

Getter for m_textOutputFile.

Returns

Return copy of m_textOutputFile

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.7 virtual std::string oig::ratstats::utils::RStatsModuleSessionDataImpl::getType ( ) const [pure virtual]

getType Get a string representing the subclass type

Returns

Return string for type (m_type)

Implements oig::ratstats::utils::RStatsModuleSessionData.

Implemented in oig::ratstats::modules::sva::RStatsSVASessionData, oig::ratstats::modules::uva::RStatsUVASessionData, oig::ratstats::modules::ssrn::RStatsSSRNSessionData, and oig::ratstats::modules::uaa::RStatsUAASessionData.

5.9.2.8 const std::string & oig::ratstats::utils::RStatsModuleSessionDataImpl::getXLSOutputFile ( ) const

Getter for m_xlsOutputFile.

Returns

Return copy of m_xlsOutputFile

5.9.2.9 bool oig::ratstats::utils::RStatsModuleSessionDataImpl::isViewableInBrowser ( ) const [virtual]

isViewableInBrowser

Returns

Implements oig::ratstats::utils::RStatsModuleSessionData.

5.9.2.10 virtual void oig::ratstats::utils::RStatsModuleSessionDataImpl::load (const std::string & *url*) [pure virtual]

load Calls virtual subclass method for loading

Parameters

url	Path to file to load

Implements oig::ratstats::utils::RStatsModuleSessionData.

Implemented in oig::ratstats::modules::sva::RStatsSVASessionData, oig::ratstats::modules::uva::RStatsUVASessionData, oig::ratstats::modules::ssrn::RStatsSSRNSessionData, and oig::ratstats::modules::uaa::RStatsUASessionData.

5.9.2.11 void oig::ratstats::utils::RStatsModuleSessionDataImpl::load (cbtek::common::utility::XMLDataElement * *element*) [protected]

load Provides XML load support for common values. This is usually called by implementing modules.

Parameters

element	Pointer to XML parse element

5.9.2.12 virtual void oig::ratstats::utils::RStatsModuleSessionDataImpl::save (const std::string & *url*) [pure virtual]

save Calls virtual subclass method for saving

Parameters

url	Path to file to save

Implements oig::ratstats::utils::RStatsModuleSessionData.

Implemented in oig::ratstats::modules::sva::RStatsSVASessionData, oig::ratstats::modules::uva::RStatsUVASessionData, oig::ratstats::modules::ssrn::RStatsSSRNSessionData, and oig::ratstats::modules::uaa::RStatsUASessionData.

5.9.2.13 void oig::ratstats::utils::RStatsModuleSessionDataImpl::save (cbtek::common::utility::XMLStreamWriter & *writer*) [protected]

save Provides XML save support for common values. This is usually called by implementing modules.

Parameters

writer	Reference to the XML outout writer

5.9.2.14 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setAuditName (const std::string & *value*)

Setter for m_auditName.

Parameters

Value	to replace m_auditName

5.9.2.15 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setCreationDate (const cbtek::common::utility::DateEntity & *value*)

Setter for m_creationDate.

Parameters

Value	to replace m_creationDate

5.9.2.16 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setCreationTime (const cbtek::common::utility::TimeEntity & *value*)

Setter for m_creationTime.

Parameters

Value	to replace m_creationTime

5.9.2.17 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setCSVOutputFile (const std::string & *value*)

Setter for m_csvOutputFile.

Parameters

Value	to replace m_csvOutputFile

5.9.2.18 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setTextOutputFile (const std::string & *value*)

Setter for m_textOutputFile.

Parameters

Value	to replace m_textOutputFile

5.9.2.19 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setViewInBrowserFlag (bool *flag*)

setViewInBrowserFlag

Parameters

flag	

5.9.2.20 void oig::ratstats::utils::RStatsModuleSessionDataImpl::setXLSOutputFile (const std::string & *value*)

Setter for m_xlsOutputFile.

Parameters

Value	to replace m_xlsOutputFile

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsModuleSessionDataImpl.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsModuleSessionDataImpl.cpp

5.10 oig::ratstats::utils::RStatsObjectList< T > Class Template Reference

The RStatsObjectList class is used to represent a simple N-dimensional array with similar add/remove syntax with VB/VBA.

`#include <RStatsObjectList.hpp>`

Public Member Functions

- RStatsObjectList ()
  RStatsObjectList (Constructor)
- RStatsObjectList (size_t size, size_t dimensionCount=1)
  RStatsObjectList (Constructor)
- void initialize (size_t size, size_t dimensionCount=1)
  initialize
- size_t size (size_t dimension=0) const
  size Returns the size of the vector at specified dimension
- void resize (size_t newSize)
  resize Resizes all dimensions to newSize
- T & operator() (size_t index, size_t dimension=0)
  operator () Used to access the data by reference
- const T & operator() (size_t index, size_t dimension=0) const
  operator () Used to access the data by const reference
- std::string toString () const
  toString Converts all elements into a string and returns it
- std::string toString (size_t orderByDimension) const
  toString
- size_t getNumDimensions () const
  getNumDimensions
- void addValues (const RStatsObjectList< T > &values, size_t sourceDimension=0)
  addValues
- void addValues (const std::vector< T > &values)
  addValues
- RStatsObjectList< T > getValues (size_t dimension=0) const
  getValues
- const std::vector< T > & toStdVector (size_t dimension=0) const
  toStdVector
- void clear ()
  clear
- void sort (size_t dimension=0)
  sort
- ~RStatsObjectList ()
  Destructor.

5.10.1 Detailed Description

template<typename T>
class oig::ratstats::utils::RStatsObjectList< T >

The RStatsObjectList class is used to represent a simple N-dimensional array with similar add/remove syntax with VB/VBA.

5.10.2 Constructor & Destructor Documentation

5.10.2.1 template<typename T > oig::ratstats::utils::RStatsObjectList< T >::RStatsObjectList (size_t *size*, size_t *dimensionCount* = 1)

RStatsObjectList (Constructor)

Parameters

size	The total size of the array
dimensionCount	The number of dimensions to create

5.10.3 Member Function Documentation

5.10.3.1 template<typename T> void oig::ratstats::utils::RStatsObjectList< T >::addValues (const RStatsObjectList< T > & *values*, size_t *sourceDimension* = 0)

addValues

Parameters

values	
dimensionForValues	

5.10.3.2 template<typename T> void oig::ratstats::utils::RStatsObjectList< T >::addValues (const std::vector< T > & *values*)

addValues

Parameters

values	

5.10.3.3 template<typename T > size_t oig::ratstats::utils::RStatsObjectList< T >::getNumDimensions ( ) const

getNumDimensions

Returns

5.10.3.4 template<typename T > RStatsObjectList< T > oig::ratstats::utils::RStatsObjectList< T >::getValues (size_t *dimension* = 0) const

getValues

Parameters

dimension	

Returns

5.10.3.5 template<typename T > void oig::ratstats::utils::RStatsObjectList< T >::initialize (size_t *size*, size_t *dimensionCount* = 1)

initialize

Parameters

size	The total size of the array
dimensionCount	The number of dimensions to create

5.10.3.6 template<typename T > T & oig::ratstats::utils::RStatsObjectList< T >::operator() (size_t *index*, size_t *dimension* = 0)

operator () Used to access the data by reference

Parameters

index	Index of the element to access
dimension	The dimension to access

Returns

Return reference to type T

5.10.3.7 template<typename T > const T & oig::ratstats::utils::RStatsObjectList< T >::operator() (size_t *index*, size_t *dimension* = 0) const

operator () Used to access the data by const reference

Parameters

index	Index of the element to access
dimension	The dimension to access

Returns

Return const reference to type T

5.10.3.8 template<typename T > void oig::ratstats::utils::RStatsObjectList< T >::resize (size_t *newSize*)

resize Resizes all dimensions to newSize

Parameters

newSize	New size for all dimensions

5.10.3.9 template<typename T > size_t oig::ratstats::utils::RStatsObjectList< T >::size (size_t *dimension* = 0) const

size Returns the size of the vector at specified dimension

Returns

Return size_t size of vector at specified dimension

5.10.3.10 template<typename T > void oig::ratstats::utils::RStatsObjectList< T >::sort (size_t *dimension* = 0)

sort

Parameters

dimension	

5.10.3.11 template<typename T > const std::vector< T > & oig::ratstats::utils::RStatsObjectList< T >::toStdVector (size_t *dimension* = 0) const

toStdVector

Parameters

dimension	

Returns

5.10.3.12 template<typename T > std::string oig::ratstats::utils::RStatsObjectList< T >::toString ( ) const

toString Converts all elements into a string and returns it

Returns

Return string containing all elements

5.10.3.13 template<typename T > std::string oig::ratstats::utils::RStatsObjectList< T >::toString (size_t *orderByDimension*) const

toString

Parameters

orderByDimension	

Returns

The documentation for this class was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsObjectList.hpp

5.11 oig::ratstats::utils::RStatsScriptProviderProperties Class Reference

The RStatsScriptProviderProperties class represents all the fields neccessary to represent a script provider.

`#include <RStatsScriptProviderProperties.h>`

Public Member Functions

- RStatsScriptProviderProperties ()
  RStatsScriptProviderProperties (Constructor)
- void setPath (const std::string &value)
  Setter for m_path.
- void setIcon (const std::string &value)
  Setter for m_icon.
- void setArgs (const std::string &value)
  Setter for m_args.
- void setName (const std::string &value)
  Setter for m_name.
- const std::string & getPath () const
  Getter for m_path.
- const std::string & getIcon () const
  Getter for m_icon.
- const std::string & getArgs () const
  Getter for m_args.
- const std::string & getName () const
  Getter for m_name.
- void saveConfig ()
  saveConfig
- void saveConfig (const std::string &filePath)
  saveConfig
- void loadConfig (const std::string &filePath)
  loadConfig
- void removeConfig ()
  removeConfigFile
- void setConfigPath (const std::string &configPath)
  setConfigPath
- const std::string & getConfigPath () const
  getConfigPath
- ~RStatsScriptProviderProperties ()
  Destructor.

5.11.1 Detailed Description

The RStatsScriptProviderProperties class represents all the fields neccessary to represent a script provider.

5.11.2 Member Function Documentation

5.11.2.1 const std::string & oig::ratstats::utils::RStatsScriptProviderProperties::getArgs ( ) const

Getter for m_args.

Returns

Return copy of m_args

5.11.2.2 const std::string & oig::ratstats::utils::RStatsScriptProviderProperties::getConfigPath ( ) const

getConfigPath

Returns

5.11.2.3 const std::string & oig::ratstats::utils::RStatsScriptProviderProperties::getIcon ( ) const

Getter for m_icon.

Returns

Return copy of m_icon

5.11.2.4 const std::string & oig::ratstats::utils::RStatsScriptProviderProperties::getName ( ) const

Getter for m_name.

Returns

Return copy of m_name

5.11.2.5 const std::string & oig::ratstats::utils::RStatsScriptProviderProperties::getPath ( ) const

Getter for m_path.

Returns

Return copy of m_path

5.11.2.6 void oig::ratstats::utils::RStatsScriptProviderProperties::loadConfig (const std::string & *filePath*)

loadConfig

Parameters

filePath	

5.11.2.7 void oig::ratstats::utils::RStatsScriptProviderProperties::saveConfig (const std::string & *filePath*)

saveConfig

Parameters

filePath	

5.11.2.8 void oig::ratstats::utils::RStatsScriptProviderProperties::setArgs (const std::string & *value*)

Setter for m_args.

Parameters

value	to replace m_args

5.11.2.9 void oig::ratstats::utils::RStatsScriptProviderProperties::setConfigPath (const std::string & *configPath*)

setConfigPath

Parameters

configPath	

5.11.2.10 void oig::ratstats::utils::RStatsScriptProviderProperties::setIcon (const std::string & *value*)

Setter for m_icon.

Parameters

value	to replace m_icon

5.11.2.11 void oig::ratstats::utils::RStatsScriptProviderProperties::setName (const std::string & *value*)

Setter for m_name.

Parameters

value	to replace m_name

5.11.2.12 void oig::ratstats::utils::RStatsScriptProviderProperties::setPath (const std::string & *value*)

Setter for m_path.

Parameters

value	to replace m_path

The documentation for this class was generated from the following files:

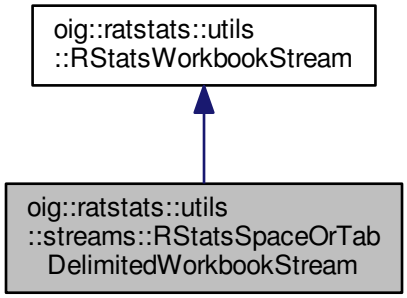
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsScriptProviderProperties.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsScriptProviderProperties.cpp

5.12 oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream Class Reference

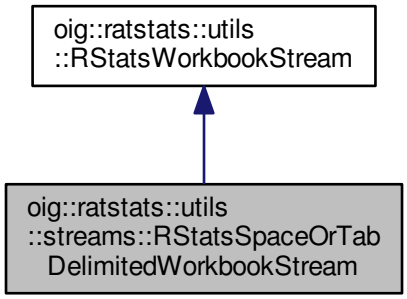
The RStatsSpaceOrTabDelimitedWorkbookStream class provides support for reading and writing to space and tab delimited files.

```
#include <RStatsSpaceOrTabDelimitedWorkbookStream.h>
```

Inheritance diagram for oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream:



Collaboration diagram for oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream:



Public Member Functions

- RStatsSpaceOrTabDelimitedWorkbookStream (const std::string &filePath)

  RStatsSpaceOrTabDelimitedWorkbookStream (Constructor) Sets the path for input/output.
- virtual void write (const RStatsWorkbook &workbook)

  write Writes a workbook out to file. Note that this will only write the first sheet to the ssv,txt or dat file and add it to the workbook since CSV does not support mulitple sheets.
- virtual RStatsWorkbook read ()

  read Reads a workbook from file. Note that this will only read a single sheet from the ssv,txt or dat file and add it to the workbook since they do not support mulitple sheets
- ~RStatsSpaceOrTabDelimitedWorkbookStream ()

  Destructor.

5.12.1 Detailed Description

The RStatsSpaceOrTabDelimitedWorkbookStream class provides support for reading and writing to space and tab delimited files.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream::RStatsSpaceOrTabDelimitedWorkbook↩ Stream (const std::string & *filePath*)

RStatsSpaceOrTabDelimitedWorkbookStream (Constructor) Sets the path for input/output.

Parameters

filePath	The path to the input/output file

5.12.3 Member Function Documentation

5.12.3.1 RStatsWorkbook oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream::read ( ) [virtual]

read Reads a workbook from file. Note that this will only read a single sheet from the ssv,txt or dat file and add it to the workbook since they do not support mulitple sheets

Returns

Return constructed Workbook object

Implements oig::ratstats::utils::RStatsWorkbookStream.

5.12.3.2 void oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream::write (const RStatsWorkbook & *workbook*) [virtual]

write Writes a workbook out to file. Note that this will only write the first sheet to the ssv,txt or dat file and add it to the workbook since CSV does not support mulitple sheets.

Parameters

workbook	The workbook object to write

Implements oig::ratstats::utils::RStatsWorkbookStream.

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/streams/RStatsSpaceOrTabDelimited↩ WorkbookStream.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/streams/RStatsSpaceOrTabDelimited↩ WorkbookStream.cpp

5.13 oig::ratstats::modules::ssrn::RStatsSSRN Class Reference

The RStatsSSRN class represents the Single Stage Random Numbers function. In the model-view-controller paradigm, this class represents the controller.

`#include <RStatsSSRN.h>`

Public Member Functions

- RStatsSSRNOutputData execute (const std::string &auditName, RStatsFloat inputSeed, oig::ratstats::utils::↩ RStatsInteger sequentialOrder, oig::ratstats::utils::RStatsInteger sparesInRandomOrder, oig::ratstats::utils↩ ::RStatsInteger lowNumber, oig::ratstats::utils::RStatsInteger highNumber)

  generateRandomNumbers
- void saveToCSVFile (const std::string &filePath)

  saveToCSVWorksheetFile
- void saveToWorksheet (oig::ratstats::utils::RStatsWorksheet &worksheetOut)

  saveToWorksheet Saves output results to worksheet reference
- void saveToTextFile (const std::string &filePath)

  saveToTextFile

5.13.1 Detailed Description

The RStatsSSRN class represents the Single Stage Random Numbers function. In the model-view-controller paradigm, this class represents the controller.

5.13.2 Member Function Documentation

5.13.2.1 RStatsSSRNOutputData oig::ratstats::modules::ssrn::RStatsSSRN::execute (const std::string & *auditName,* RStatsFloat *inputSeed,* oig::ratstats::utils::RStatsInteger *sequentialOrder,* oig::ratstats::utils::RStatsInteger *sparesInRandomOrder,* oig::ratstats::utils::RStatsInteger *lowNumber,* oig::ratstats::utils::RStatsInteger *highNumber*)

generateRandomNumbers

Parameters

auditName	
inputSeed	
sequentialOrder	
sparesInRandomOrder	
lowNumber	
highNumber	

Returns

5.13.2.2 void oig::ratstats::modules::ssrn::RStatsSSRN::saveToCSVFile (const std::string & *filePath*)

saveToCSVWorksheetFile

Parameters

filePath	

5.13.2.3 void oig::ratstats::modules::ssrn::RStatsSSRN::saveToTextFile (const std::string & *filePath*)

saveToTextFile

Parameters

filePath	

5.13.2.4 void oig::ratstats::modules::ssrn::RStatsSSRN::saveToWorksheet (oig::ratstats::utils::RStatsWorksheet & *worksheetOut*)

saveToWorksheet Saves output results to worksheet reference

Parameters

worksheetOut	Reference to worksheet to be returned

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/inc/RStatsSSRN.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/src/RStatsSSRN.cpp

5.14 oig::ratstats::modules::ssrn::RStatsSSRNInputData Struct Reference

The RStatsSSRNInputData struct.

`#include <RStatsSSRN.h>`

Public Attributes

- double **ratStatValue**
- double **excelValue**
- oig::ratstats::utils::RStatsInteger **stepValue**

5.14.1 Detailed Description

The RStatsSSRNInputData struct.

The documentation for this struct was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/inc/RStatsSSRN.h

5.15 oig::ratstats::modules::ssrn::RStatsSSRNOutputData Struct Reference

The RStatsSSRNOutputData struct.

`#include <RStatsSSRN.h>`

Public Attributes

- std::string **auditName**
- std::vector< RStatsSSRNValue > **values**
- oig::ratstats::utils::RStatsInteger **sum**
- oig::ratstats::utils::RStatsInteger **upper**
- oig::ratstats::utils::RStatsInteger **lower**
- oig::ratstats::utils::RStatsFloat **seed**
- oig::ratstats::utils::RStatsInteger **frameSize**
- oig::ratstats::utils::RStatsInteger **sparesCount**
- oig::ratstats::utils::RStatsInteger **sequentialCount**
- cbtek::common::utility::DateEntity **createDate**
- cbtek::common::utility::TimeEntity **createTime**

5.15.1 Detailed Description

The RStatsSSRNOutputData struct.

The documentation for this struct was generated from the following file:

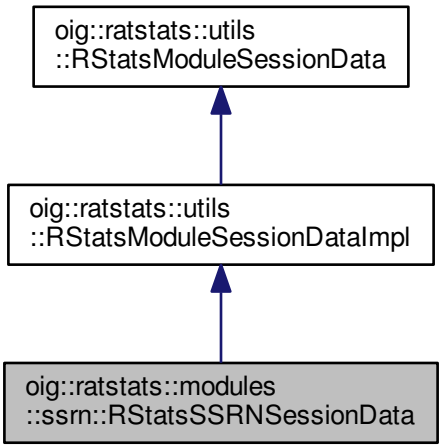
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/inc/RStatsSSRN.h

5.16 oig::ratstats::modules::ssrn::RStatsSSRNSessionData Class Reference

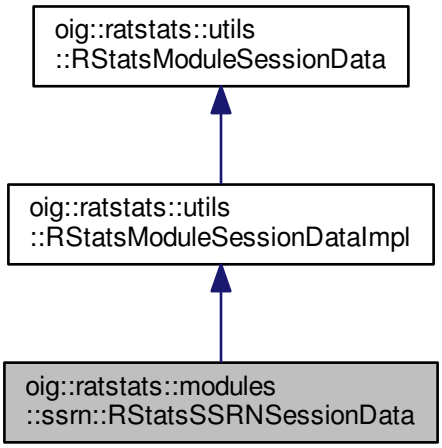
The RStatsSSRNSessionData class represents the custom session data for single stage random numbers (SSRN)

`#include <RStatsSSRNSessionData.h>`

Inheritance diagram for oig::ratstats::modules::ssrn::RStatsSSRNSessionData:



Collaboration diagram for oig::ratstats::modules::ssrn::RStatsSSRNSessionData:



Public Member Functions

- RStatsSSRNSessionData ()

  Constructor for RStatsSSRNSessionData.
- void setSeed (const utils::RStatsFloat &value)

  Setter for m_seed.
- void setOrder (const utils::RStatsInteger &value)

  Setter for m_order.
- void setSpares (const utils::RStatsInteger &value)

  Setter for m_spares.
- void setLow (const utils::RStatsInteger &value)

  Setter for m_low.
- void setHigh (const utils::RStatsInteger &value)

  Setter for m_high.
- const utils::RStatsFloat & getSeed () const

  Getter for m_seed.
- const utils::RStatsInteger & getOrder () const

  Getter for m_order.
- const utils::RStatsInteger & getSpares () const

  Getter for m_spares.
- const utils::RStatsInteger & getLow () const

  Getter for m_low.
- const utils::RStatsInteger & getHigh () const

  Getter for m_high.
- std::string getType () const

  getType Get a string representing the subclass type
- void load (const std::string &url)

  load

- void save (const std::string &url)

  save
- ~RStatsSSRNSessionData ()

  Destructor.

Additional Inherited Members

5.16.1 Detailed Description

The RStatsSSRNSessionData class represents the custom session data for single stage random numbers (SSRN)

5.16.2 Constructor & Destructor Documentation

5.16.2.1 oig::ratstats::modules::ssrn::RStatsSSRNSessionData::RStatsSSRNSessionData ( )

Constructor for RStatsSSRNSessionData.

Detailed description for RStatsSSRNSessionData

5.16.3 Member Function Documentation

5.16.3.1 const RStatsInteger & oig::ratstats::modules::ssrn::RStatsSSRNSessionData::getHigh ( ) const

Getter for m_high.

Returns

Return copy of m_high

5.16.3.2 const RStatsInteger & oig::ratstats::modules::ssrn::RStatsSSRNSessionData::getLow ( ) const

Getter for m_low.

Returns

Return copy of m_low

5.16.3.3 const RStatsInteger & oig::ratstats::modules::ssrn::RStatsSSRNSessionData::getOrder ( ) const

Getter for m_order.

Returns

Return copy of m_order

5.16.3.4 const RStatsFloat & oig::ratstats::modules::ssrn::RStatsSSRNSessionData::getSeed ( ) const

Getter for m_seed.

Returns

Return copy of m_seed

5.16.3.5 const RStatsInteger & oig::ratstats::modules::ssrn::RStatsSSRNSessionData::getSpares ( ) const

Getter for m_spares.

Returns

Return copy of m_spares

5.16.3.6 std::string oig::ratstats::modules::ssrn::RStatsSSRNSessionData::getType ( ) const [virtual]

getType Get a string representing the subclass type

Returns

Return string for type (m_type)

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.16.3.7 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::load (const std::string & *url*) [virtual]

load

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.16.3.8 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::save (const std::string & *url*) [virtual]

save

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.16.3.9 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::setHigh (const utils::RStatsInteger & *value*)

Setter for m_high.

Parameters

value	to replace m_high

5.16.3.10 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::setLow (const utils::RStatsInteger & *value*)

Setter for m_low.

Parameters

value	to replace m_low

5.16.3.11 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::setOrder (const utils::RStatsInteger & *value*)

Setter for m_order.

Parameters

value	to replace m_order

5.16.3.12 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::setSeed (const utils::RStatsFloat & *value*)

Setter for m_seed.

Parameters

value	to replace m_seed

5.16.3.13 void oig::ratstats::modules::ssrn::RStatsSSRNSessionData::setSpares (const utils::RStatsInteger & *value*)

Setter for m_spares.

Parameters

value	to replace m_spares

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/inc/RStatsSSRNSessionData.h

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/src/RStatsSSRNSessionData.cpp

5.17 oig::ratstats::modules::ssrn::RStatsSSRNValue Struct Reference

The RStatsSSRNValue struct.

`#include <RStatsSSRN.h>`

Public Attributes

- RStatsInteger **orderIndex**
- RStatsInteger **value**
- RStatsSSRNOrderType **orderType**

5.17.1 Detailed Description

The RStatsSSRNValue struct.

The documentation for this struct was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/inc/RStatsSSRN.h

5.18 oig::ratstats::modules::sva::RStatsSVA Class Reference

The RStatsSVA class represents the stratified variable appraisal function. In the model-view-controller paradigm, this class represents the controller.

`#include <RStatsSVA.h>`

Public Member Functions

- RStatsSVA ()

  Constructor for RStatsSVA.
- RStatsSVAOutputDataList execute (const std::string &auditName, const oig::ratstats::utils::RStatsWorksheet &dataSheet, const oig::ratstats::utils::RStatsWorksheet &sizeSheet, const utils::RStatsDataFormatTypeIndex &dataSheetIndex, size_t dataSheetRowStart, size_t sizeSheetSampleSizeColumn, size_t sizeSheetUniverseSizeColumn, size_t sizeSheetRowStart)

  execute
- void saveToWorkbook (oig::ratstats::utils::RStatsWorkbook &workbookOut)

  saveToWorkbook
- ~RStatsSVA ()

  Destructor.

5.18.1 Detailed Description

The RStatsSVA class represents the stratified variable appraisal function. In the model-view-controller paradigm, this class represents the controller.

5.18.2 Constructor & Destructor Documentation

5.18.2.1 oig::ratstats::modules::sva::RStatsSVA::RStatsSVA ( )

Constructor for RStatsSVA.

Detailed description for RStatsSVA

5.18.3 Member Function Documentation

5.18.3.1 RStatsSVAOutputDataList oig::ratstats::modules::sva::RStatsSVA::execute (const std::string & *auditName*, const **oig::ratstats::utils::RStatsWorksheet** & *dataSheet*, const **oig::ratstats::utils::RStatsWorksheet** & *sizeSheet*, const **utils::RStatsDataFormatTypeIndex** & *dataSheetIndex*, size_t *dataSheetRowStart*, size_t *sizeSheetSampleSizeColumn*, size_t *sizeSheetUniverseSizeColumn*, size_t *sizeSheetRowStart*)

execute

Parameters

sizeSheet	
inputSheet	
dataFormatType	

Returns

5.18.3.2 void oig::ratstats::modules::sva::RStatsSVA::saveToWorkbook (**oig::ratstats::utils::RStatsWorkbook** & *workbookOut*)

saveToWorkbook

Parameters

outputList	
workbookOut	

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/inc/RStatsSVA.h

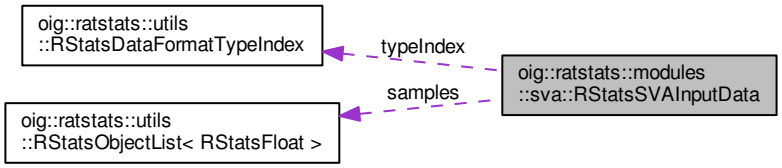
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/src/RStatsSVA.cpp

5.19 oig::ratstats::modules::sva::RStatsSVAInputData Struct Reference

The RStatsSVAInputData struct represents the input data to the SVA function.

`#include <RStatsSVA.h>`

Collaboration diagram for oig::ratstats::modules::sva::RStatsSVAInputData:



Public Attributes

- oig::ratstats::utils::RStatsInteger **sampleSize**
- oig::ratstats::utils::RStatsInteger **universeSize**
- oig::ratstats::utils::RStatsInteger **interestSize**
- oig::ratstats::utils::RStatsFloatList **samples**
- oig::ratstats::utils::RStatsDataFormatTypeIndex **typeIndex**
- oig::ratstats::utils::RStatsInteger **count**
- oig::ratstats::utils::RStatsInteger **offset**

5.19.1 Detailed Description

The RStatsSVAInputData struct represents the input data to the SVA function.

The documentation for this struct was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/inc/RStatsSVA.h

5.20 oig::ratstats::modules::sva::RStatsSVAOutputData Struct Reference

The RStatsSVAOutputData struct represents the output data for the SVA function.

`#include <RStatsSVA.h>`

Public Attributes

- std::string **typeName**
- oig::ratstats::utils::RStatsDataFormatType **type**
- bool **isDisplaySummary**
- bool **isValid**
- cbtek::common::utility::DateEntity **createDate**
- cbtek::common::utility::TimeEntity **createTime**
- std::string **auditName**
- oig::ratstats::utils::RStatsInteger **populationSize**
- oig::ratstats::utils::RStatsInteger **sampleSize**
- oig::ratstats::utils::RStatsInteger **nonZeroCount**
- oig::ratstats::utils::RStatsFloat **mean**
- oig::ratstats::utils::RStatsFloat **standardDeviation**
- oig::ratstats::utils::RStatsFloat **skewness**
- oig::ratstats::utils::RStatsFloat **standardErrorMean**
- oig::ratstats::utils::RStatsFloat **standardErrorTotal**
- oig::ratstats::utils::RStatsFloat **kurtosis**
- oig::ratstats::utils::RStatsFloat **pointEstimate**
- oig::ratstats::utils::RStatsFloat **lower80**
- oig::ratstats::utils::RStatsFloat **lower90**
- oig::ratstats::utils::RStatsFloat **lower95**
- oig::ratstats::utils::RStatsFloat **upper80**
- oig::ratstats::utils::RStatsFloat **upper90**
- oig::ratstats::utils::RStatsFloat **upper95**
- oig::ratstats::utils::RStatsFloat **precisionAmount80**
- oig::ratstats::utils::RStatsFloat **precisionAmount90**
- oig::ratstats::utils::RStatsFloat **precisionAmount95**
- oig::ratstats::utils::RStatsFloat **tValue80**
- oig::ratstats::utils::RStatsFloat **tValue90**
- oig::ratstats::utils::RStatsFloat **tValue95**
- oig::ratstats::utils::RStatsFloat **precisionPercent80**
- oig::ratstats::utils::RStatsFloat **precisionPercent90**
- oig::ratstats::utils::RStatsFloat **precisionPercent95**

5.20.1 Detailed Description

The RStatsSVAOutputData struct represents the output data for the SVA function.

The documentation for this struct was generated from the following file:

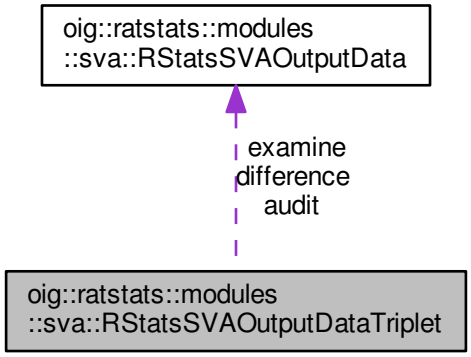
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/inc/RStatsSVA.h

5.21 oig::ratstats::modules::sva::RStatsSVAOutputDataTriplet Struct Reference

The RStatsSVAOutputDataTriplet struct.

`#include <RStatsSVA.h>`

Collaboration diagram for oig::ratstats::modules::sva::RStatsSVAOutputDataTriplet:



Public Attributes

- RStatsSVAOutputData **audit**
- RStatsSVAOutputData **examine**
- RStatsSVAOutputData **difference**

5.21.1 Detailed Description

The RStatsSVAOutputDataTriplet struct.

The documentation for this struct was generated from the following file:

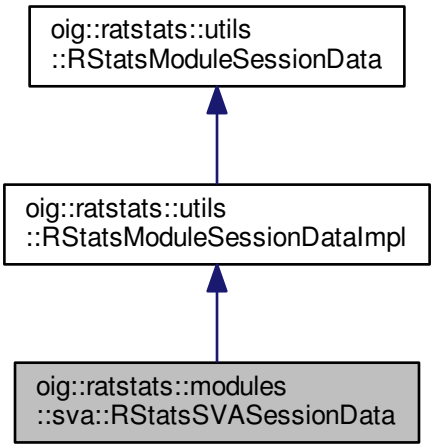
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/inc/R↩ StatsSVA.h

5.22 oig::ratstats::modules::sva::RStatsSVASessionData Class Reference

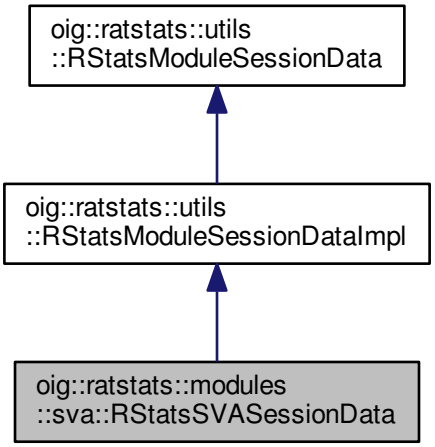
The RStatsSVASessionData class represents the custom session data for stratified variable appraisal (SVA)

`#include <RStatsSVASessionData.h>`

Inheritance diagram for oig::ratstats::modules::sva::RStatsSVASessionData:



Collaboration diagram for oig::ratstats::modules::sva::RStatsSVASessionData:



Public Member Functions

- RStatsSVASessionData ()

  Constructor for RStatsSVASessionData.
- void setDataFormat (const utils::RStatsDataFormatType &value)

  Setter for m_dataFormat.
- void setSizeTableFilePath (const std::string &value)

  Setter for m_sizeTable.
- void setDataTableFilePath (const std::string &value)

  Setter for m_dataTable.
- void setSizeTableRowStart (const utils::RStatsInteger &value)

  Setter for m_sizeTableRowStart.
- void setDataTableRowStart (const utils::RStatsInteger &value)

  Setter for m_dataTableRowStart.
- void setUniverseColumn (const std::string &value)

  Setter for m_universeColumn.
- void setSampleColumn (const std::string &value)

  Setter for m_sampleColumn.
- void setDifferenceColumn (const std::string &value)

  Setter for m_differenceColumn.
- void setAuditColumn (const std::string &value)

  Setter for m_auditColumn.
- void setExamineColumn (const std::string &value)

  Setter for m_examineColumn.
- const utils::RStatsDataFormatType & getDataFormat () const

  Getter for m_dataFormat.
- const std::string & getSizeTableFilePath () const

  Getter for m_sizeTable.
- const std::string & getDataTableFilePath () const

  Getter for m_dataTable.
- const utils::RStatsInteger & getSizeTableRowStart () const

  Getter for m_sizeTableRowStart.
- const utils::RStatsInteger & getDataTableRowStart () const

  Getter for m_dataTableRowStart.
- const std::string & getUniverseColumn () const

  Getter for m_universeColumn.
- const std::string & getSampleColumn () const

  Getter for m_sampleColumn.
- const std::string & getDifferenceColumn () const

  Getter for m_differenceColumn.
- const std::string & getAuditColumn () const

  Getter for m_auditColumn.
- const std::string & getExamineColumn () const

  Getter for m_examineColumn.
- std::string getType () const

  getType
- void load (const std::string &url)

  load
- void save (const std::string &url)

  save
- void setSizeTableSheetName (const std::string &name)

setSizeTableSheetName

- void setDataTableSheetName (const std::string &name)

  setDataTableSheetName
- std::string getDataTableSheetName () const

  getDataTableSheetName
- std::string getSizeTableSheetName () const

  getSizeTableSheetName
- ~RStatsSVASessionData ()

  Destructor.

Additional Inherited Members

5.22.1 Detailed Description

The RStatsSVASessionData class represents the custom session data for stratified variable appraisal (SVA)

5.22.2 Constructor & Destructor Documentation

5.22.2.1 oig::ratstats::modules::sva::RStatsSVASessionData::RStatsSVASessionData ( )

Constructor for RStatsSVASessionData.

Detailed description for RStatsSVASessionData

5.22.3 Member Function Documentation

5.22.3.1 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getAuditColumn ( ) const

Getter for m_auditColumn.

Returns

Return copy of m_auditColumn

5.22.3.2 const RStatsDataFormatType & oig::ratstats::modules::sva::RStatsSVASessionData::getDataFormat ( ) const

Getter for m_dataFormat.

Returns

Return copy of m_dataFormat

5.22.3.3 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getDataTableFilePath ( ) const

Getter for m_dataTable.

Returns

Return copy of m_dataTable

5.22.3.4 const RStatsInteger & oig::ratstats::modules::sva::RStatsSVASessionData::getDataTableRowStart ( ) const

Getter for m_dataTableRowStart.

Returns

Return copy of m_dataTableRowStart

5.22.3.5 std::string oig::ratstats::modules::sva::RStatsSVASessionData::getDataTableSheetName ( ) const

getDataTableSheetName

Returns

5.22.3.6 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getDifferenceColumn ( ) const

Getter for m_differenceColumn.

Returns

Return copy of m_differenceColumn

5.22.3.7 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getExamineColumn ( ) const

Getter for m_examineColumn.

Returns

Return copy of m_examineColumn

5.22.3.8 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getSampleColumn ( ) const

Getter for m_sampleColumn.

Returns

Return copy of m_sampleColumn

5.22.3.9 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getSizeTableFilePath ( ) const

Getter for m_sizeTable.

Returns

Return copy of m_sizeTable

5.22.3.10 const RStatsInteger & oig::ratstats::modules::sva::RStatsSVASessionData::getSizeTableRowStart ( ) const

Getter for m_sizeTableRowStart.

Returns

Return copy of m_sizeTableRowStart

5.22.3.11 std::string oig::ratstats::modules::sva::RStatsSVASessionData::getSizeTableSheetName ( ) const

getSizeTableSheetName

Returns

5.22.3.12 std::string oig::ratstats::modules::sva::RStatsSVASessionData::getType ( ) const [virtual]

getType

Returns

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.22.3.13 const std::string & oig::ratstats::modules::sva::RStatsSVASessionData::getUniverseColumn ( ) const

Getter for m_universeColumn.

Returns

Return copy of m_universeColumn

5.22.3.14 void oig::ratstats::modules::sva::RStatsSVASessionData::load (const std::string & *url*) [virtual]

load

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.22.3.15 void oig::ratstats::modules::sva::RStatsSVASessionData::save (const std::string & *url*) [virtual]

save

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.22.3.16 void oig::ratstats::modules::sva::RStatsSVASessionData::setAuditColumn (const std::string & *value*)

Setter for m_auditColumn.

Parameters

value	to replace m_auditColumn

5.22.3.17 void oig::ratstats::modules::sva::RStatsSVASessionData::setDataFormat (const utils::RStatsDataFormatType & *value*)

Setter for m_dataFormat.

Parameters

value	to replace m_dataFormat

5.22.3.18 void oig::ratstats::modules::sva::RStatsSVASessionData::setDataTableFilePath (const std::string & *value*)

Setter for m_dataTable.

Parameters

value	to replace m_dataTable

5.22.3.19 void oig::ratstats::modules::sva::RStatsSVASessionData::setDataTableRowStart (const utils::RStatsInteger & *value*)

Setter for m_dataTableRowStart.

Parameters

value	to replace m_dataTableRowStart

5.22.3.20 void oig::ratstats::modules::sva::RStatsSVASessionData::setDataTableSheetName (const std::string & *name*)

setDataTableSheetName

Parameters

name	

5.22.3.21 void oig::ratstats::modules::sva::RStatsSVASessionData::setDifferenceColumn (const std::string & *value*)

Setter for m_differenceColumn.

Parameters

value	to replace m_differenceColumn

5.22.3.22 void oig::ratstats::modules::sva::RStatsSVASessionData::setExamineColumn (const std::string & *value*)

Setter for m_examineColumn.

Parameters

value	to replace m_examineColumn

5.22.3.23 void oig::ratstats::modules::sva::RStatsSVASessionData::setSampleColumn (const std::string & *value*)

Setter for m_sampleColumn.

Parameters

value	to replace m_sampleColumn

5.22.3.24 void oig::ratstats::modules::sva::RStatsSVASessionData::setSizeTableFilePath (const std::string & *value*)

Setter for m_sizeTable.

Parameters

value	to replace m_sizeTable

5.22.3.25 void oig::ratstats::modules::sva::RStatsSVASessionData::setSizeTableRowStart (const utils::RStatsInteger & *value*)

Setter for m_sizeTableRowStart.

Parameters

value	to replace m_sizeTableRowStart

5.22.3.26 void oig::ratstats::modules::sva::RStatsSVASessionData::setSizeTableSheetName (const std::string & *name*)

setSizeTableSheetName

Parameters

name	

5.22.3.27 void oig::ratstats::modules::sva::RStatsSVASessionData::setUniverseColumn (const std::string & *value*)

Setter for m_universeColumn.

Parameters

value	to replace m_universeColumn

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/inc/RStatsSVASessionData.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/src/RStatsSVASessionData.cpp

5.23 oig::ratstats::modules::uaa::RStatsUAA Class Reference

The RStatsUAA class represents the unrestricted attribute appraisal function. In the model-view-controller paradigm, this class represents the controller.

`#include <RStatsUAA.h>`

Public Member Functions

- RStatsUAA ()

  Constructor for RStatsUAA.
- RStatsUAAOutputData execute (const std::string &auditName, utils::RStatsInteger sampleSize, utils::RStatsInteger universeSize, utils::RStatsInteger coiSize, RStatsUAAConfidenceIntervalType type=RStatsUAAConfidenceIntervalType::TwoSided)

execute This function executes the main unrestricted attribute appraisal function

- void saveToCSVFile (const std::string &filePath)

  saveToCSVWorksheetFile Saves output result to CSV file
- void saveToWorksheet (oig::ratstats::utils::RStatsWorksheet &worksheetOut)

  saveToWorksheet Saves output results to worksheet object
- void saveToTextFile (const std::string &filePath)

  saveToTextFile Saves output result to text file
- ~RStatsUAA ()

  Destructor.

5.23.1 Detailed Description

The RStatsUAA class represents the unrestricted attribute appraisal function. In the model-view-controller paradigm, this class represents the controller.

5.23.2 Constructor & Destructor Documentation

5.23.2.1 oig::ratstats::modules::uaa::RStatsUAA::RStatsUAA ( )

Constructor for RStatsUAA.

Detailed description for RStatsUAA

5.23.3 Member Function Documentation

5.23.3.1 RStatsUAAOutputData oig::ratstats::modules::uaa::RStatsUAA::execute (const std::string & *auditName*, utils::RStatsInteger *sampleSize*, utils::RStatsInteger *universeSize*, utils::RStatsInteger *coiSize*, RStatsUAAConfidenceIntervalType *type* = `RStatsUAAConfidenceIntervalType::TwoSided`)

execute This function executes the main unrestricted attribute appraisal function

Parameters

auditName	The name of the audit
sampleSize	The input sample size
universeSize	The input universe size
coiSize	The characteristic of interest count
type	The data format type

Returns

5.23.3.2 void oig::ratstats::modules::uaa::RStatsUAA::saveToCSVFile (const std::string & *filePath*)

saveToCSVWorksheetFile Saves output result to CSV file

Parameters

filePath	

5.23.3.3 void oig::ratstats::modules::uaa::RStatsUAA::saveToTextFile (const std::string & *filePath*)

saveToTextFile Saves output result to text file

Parameters

filePath	

5.23.3.4 void oig::ratstats::modules::uaa::RStatsUAA::saveToWorksheet (oig::ratstats::utils::RStatsWorksheet & *worksheetOut*)

saveToWorksheet Saves output results to worksheet object

Parameters

worksheetOut	The worksheet to save to

The documentation for this class was generated from the following files:

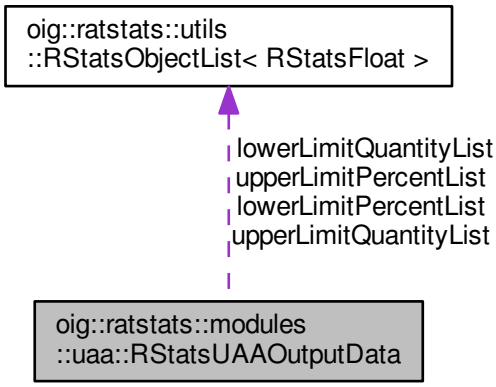
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/inc/RStatsUAA.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/src/RStatsUAA.cpp

5.24 oig::ratstats::modules::uaa::RStatsUAAOutputData Struct Reference

The RStatsUAAOutputData struct represents the output produced by the unrestricted attribute appraisal function.

```
#include <RStatsUAA.h>
```

Collaboration diagram for oig::ratstats::modules::uaa::RStatsUAAOutputData:



Public Attributes

- cbtek::common::utility::DateEntity **createDate**
- cbtek::common::utility::TimeEntity **createTime**
- std::string **auditName**
- RStatsUAAConfidenceIntervalType **confidenceIntervalType**
- oig::ratstats::utils::RStatsInteger **universeSize**
- oig::ratstats::utils::RStatsInteger **sampleSize**
- oig::ratstats::utils::RStatsInteger **coiSize**
- oig::ratstats::utils::RStatsFloat **projectedTotal**
- oig::ratstats::utils::RStatsFloat **projectedTotalPercent**
- oig::ratstats::utils::RStatsFloat **variance**
- oig::ratstats::utils::RStatsFloat **standardError**
- oig::ratstats::utils::RStatsFloat **standardErrorPercent**
- oig::ratstats::utils::RStatsFloatList **upperLimitPercentList**
- oig::ratstats::utils::RStatsFloatList **lowerLimitQuantityList**
- oig::ratstats::utils::RStatsFloatList **upperLimitQuantityList**
- oig::ratstats::utils::RStatsFloatList **lowerLimitPercentList**

5.24.1 Detailed Description

The RStatsUAAOutputData struct represents the output produced by the unrestricted attribute appraisal function.

The documentation for this struct was generated from the following file:

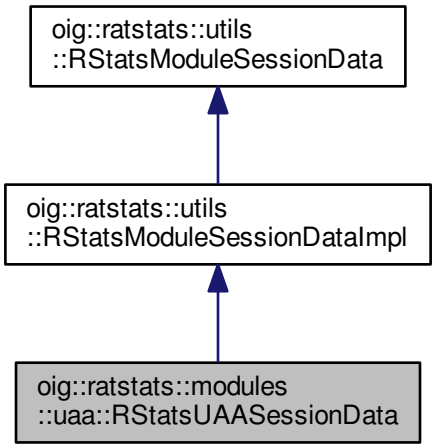
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/inc/R↩ StatsUAA.h

5.25 oig::ratstats::modules::uaa::RStatsUAASessionData Class Reference

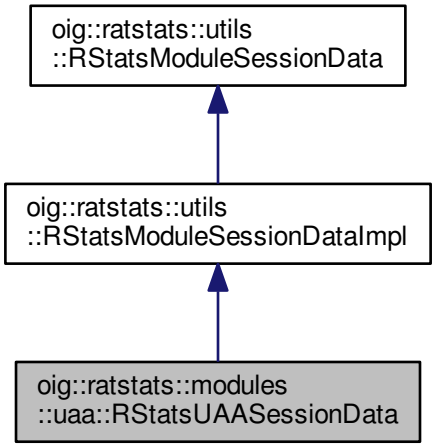
The RStatsUAASessionData class represents the custom session data for unrestricted attribute appraisal (UAA)

`#include <RStatsUAASessionData.h>`

Inheritance diagram for oig::ratstats::modules::uaa::RStatsUAASessionData:



Collaboration diagram for oig::ratstats::modules::uaa::RStatsUAASessionData:



Public Member Functions

- RStatsUAASessionData ()

  Constructor for RStatsUAASessionData.
- void setDataFormat (const utils::RStatsDataFormatType &value)

  Setter for m_dataFormat.
- void setUniverseSize (const utils::RStatsInteger &value)

  Setter for m_universeSize.
- void setSampleSize (const utils::RStatsInteger &value)

  Setter for m_sampleSize.
- void setCoiSize (const utils::RStatsInteger &value)

  Setter for m_coiSize.
- const utils::RStatsDataFormatType & getDataFormat () const

  Getter for m_dataFormat.
- const utils::RStatsInteger & getUniverseSize () const

  Getter for m_universeSize.
- const utils::RStatsInteger & getSampleSize () const

  Getter for m_sampleSize.
- const utils::RStatsInteger & getCoiSize () const

  Getter for m_coiSize.
- std::string getType () const

  getType
- void load (const std::string &url)

  load
- void save (const std::string &url)

  save
- ~RStatsUAASessionData ()

  Destructor.

Additional Inherited Members

5.25.1 Detailed Description

The RStatsUAASessionData class represents the custom session data for unrestricted attribute appraisal (UAA)

5.25.2 Constructor & Destructor Documentation

5.25.2.1 oig::ratstats::modules::uaa::RStatsUAASessionData::RStatsUAASessionData ( )

Constructor for RStatsUAASessionData.

Detailed description for RStatsUAASessionData

5.25.3 Member Function Documentation

5.25.3.1 const utils::RStatsInteger & oig::ratstats::modules::uaa::RStatsUAASessionData::getCoiSize ( ) const

Getter for m_coiSize.

Returns

Return copy of m_coiSize

5.25.3.2 const utils::RStatsDataFormatType & oig::ratstats::modules::uaa::RStatsUAASessionData::getDataFormat ( ) const

Getter for m_dataFormat.

Returns

Return copy of m_dataFormat

5.25.3.3 const utils::RStatsInteger & oig::ratstats::modules::uaa::RStatsUAASessionData::getSampleSize ( ) const

Getter for m_sampleSize.

Returns

Return copy of m_sampleSize

5.25.3.4 std::string oig::ratstats::modules::uaa::RStatsUAASessionData::getType ( ) const [virtual]

getType

Returns

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.25.3.5 const utils::RStatsInteger & oig::ratstats::modules::uaa::RStatsUAASessionData::getUniverseSize ( ) const

Getter for m_universeSize.

Returns

Return copy of m_universeSize

5.25.3.6 void oig::ratstats::modules::uaa::RStatsUAASessionData::load (const std::string & *url*) [virtual]

load

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.25.3.7 void oig::ratstats::modules::uaa::RStatsUAASessionData::save (const std::string & *url*) [virtual]

save

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.25.3.8 void oig::ratstats::modules::uaa::RStatsUAASessionData::setCoiSize (const utils::RStatsInteger & *value*)

Setter for m_coiSize.

Parameters

value	to replace m_coiSize

5.25.3.9 void oig::ratstats::modules::uaa::RStatsUAASessionData::setDataFormat (const utils::RStatsDataFormatType & *value*)

Setter for m_dataFormat.

Parameters

value	to replace m_dataFormat

5.25.3.10 void oig::ratstats::modules::uaa::RStatsUAASessionData::setSampleSize (const utils::RStatsInteger & *value*)

Setter for m_sampleSize.

Parameters

value	to replace m_sampleSize

5.25.3.11 void oig::ratstats::modules::uaa::RStatsUAASessionData::setUniverseSize (const utils::RStatsInteger & *value*)

Setter for m_universeSize.

Parameters

value	to replace m_universeSize

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/inc/RStatsUAASessionData.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/src/RStatsUAASessionData.cpp

5.26 oig::ratstats::modules::uva::RStatsUVA Class Reference

The RStatsUVA class represents the unrestricted variable appraisal function. In the model-view-controller paradigm, this class represents the controller.

`#include <RStatsUVA.h>`

Public Member Functions

- RStatsUVA ()

  Constructor for RStatsUVA.
- void execute (const std::string &auditName, size_t universeSize, const oig::ratstats::utils::RStatsWorksheet &dataSheetInput, size_t dataSheetRowOffset, const oig::ratstats::utils::RStatsDataFormatTypeIndex &dataSheetDatasetColumnTypeIndex)

  execute This function executes the unrestricted variable appraisal algorithm
- void saveToWorkbook (oig::ratstats::utils::RStatsWorkbook &workbook)

  saveToWorkbook This function saves all data output into a workbook structure
- ~RStatsUVA ()

  Destructor.

5.26.1 Detailed Description

The RStatsUVA class represents the unrestricted variable appraisal function. In the model-view-controller paradigm, this class represents the controller.

5.26.2 Constructor & Destructor Documentation

5.26.2.1 oig::ratstats::modules::uva::RStatsUVA::RStatsUVA ( )

Constructor for RStatsUVA.

Detailed description for RStatsUVA

5.26.3 Member Function Documentation

5.26.3.1 void oig::ratstats::modules::uva::RStatsUVA::execute (const std::string & *auditName*, size_t *universeSize*, const oig::ratstats::utils::RStatsWorksheet & *dataSheetInput*, size_t *dataSheetRowOffset*, const oig::ratstats::utils::RStatsDataFormatTypeIndex & *dataSheetDatasetColumnTypeIndex*)

execute This function executes the unrestricted variable appraisal algorithm

Parameters

auditName	Name of the audit
universeSize	Universe/Population size
dataSheetInput	Datasheet containing all the values
dataSheetRowOffset	Starting row for the data
dataSheetDatasetColumnTypeIndex	Structure that contains column information for the sheet as well as data output format

5.26.3.2 void oig::ratstats::modules::uva::RStatsUVA::saveToWorkbook (oig::ratstats::utils::RStatsWorkbook & *workbook*)

saveToWorkbook This function saves all data output into a workbook structure

Parameters

workbook	The workbook to write to

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/inc/RStatsUVA.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/src/RStatsUVA.cpp

5.27 oig::ratstats::modules::uva::RStatsUVAOutputData Struct Reference

The RStatsUVAOutputData struct This structure holds data for an single instance of output It is primarly used to populate the worksheet for saving.

`#include <RStatsUVA.h>`

Public Attributes

- std::string **title**
- oig::ratstats::utils::RStatsInteger **populationSize**
- oig::ratstats::utils::RStatsInteger **sampleSize**
- oig::ratstats::utils::RStatsInteger **nonZeroSize**
- oig::ratstats::utils::RStatsFloat **mean**
- oig::ratstats::utils::RStatsFloat **standardDeviation**
- oig::ratstats::utils::RStatsFloat **standardErrorMean**
- oig::ratstats::utils::RStatsInteger **standardErrorTotal**
- oig::ratstats::utils::RStatsInteger **pointEstimate**
- oig::ratstats::utils::RStatsFloat **lower80**
- oig::ratstats::utils::RStatsFloat **lower90**
- oig::ratstats::utils::RStatsFloat **lower95**
- oig::ratstats::utils::RStatsFloat **upper80**

- oig::ratstats::utils::RStatsFloat **upper90**
- oig::ratstats::utils::RStatsFloat **upper95**
- oig::ratstats::utils::RStatsFloat **kurtosis**
- oig::ratstats::utils::RStatsFloat **skewness**
- oig::ratstats::utils::RStatsFloat **precisionAmount80**
- oig::ratstats::utils::RStatsFloat **precisionAmount90**
- oig::ratstats::utils::RStatsFloat **precisionAmount95**
- oig::ratstats::utils::RStatsFloat **precisionPercent80**
- oig::ratstats::utils::RStatsFloat **precisionPercent90**
- oig::ratstats::utils::RStatsFloat **precisionPercent95**
- oig::ratstats::utils::RStatsFloat **tValue80**
- oig::ratstats::utils::RStatsFloat **tValue90**
- oig::ratstats::utils::RStatsFloat **tValue95**
- oig::ratstats::utils::RStatsFloat **totalAmount**

5.27.1 Detailed Description

The RStatsUVAOutputData struct This structure holds data for an single instance of output It is primarly used to populate the worksheet for saving.

The documentation for this struct was generated from the following file:

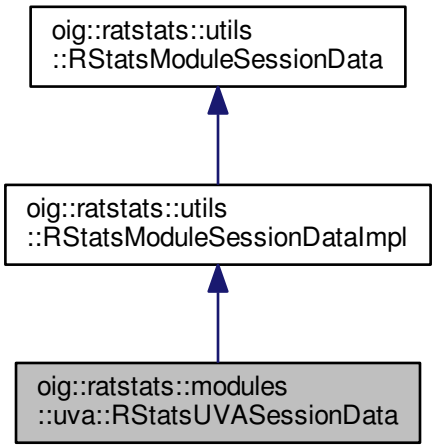
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/inc/R↩ StatsUVA.h

5.28 oig::ratstats::modules::uva::RStatsUVASessionData Class Reference

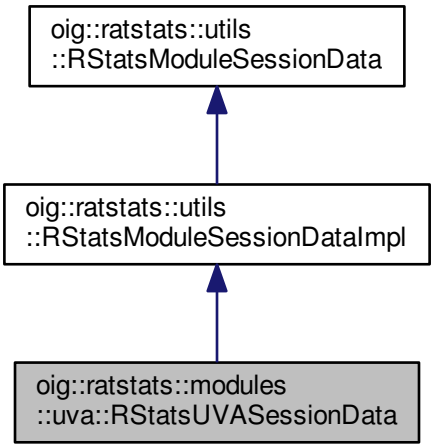
The RStatsUVASessionData class represents the custom session data for unrestricted variable appraisal (UVA)

`#include <RStatsUVASessionData.h>`

Inheritance diagram for oig::ratstats::modules::uva::RStatsUVASessionData:



Collaboration diagram for oig::ratstats::modules::uva::RStatsUVASessionData:



Public Member Functions

- RStatsUVASessionData ()

  Constructor for RStatsUVASessionData.
- void setDataFormat (const utils::RStatsDataFormatType &value)

  Setter for m_dataFormat.
- void setUniverseSize (const utils::RStatsInteger &value)

  Setter for m_universeSize.
- void setDataRowStart (const utils::RStatsInteger &value)

  Setter for m_dataRowStart.
- void setDataTableFilePath (const std::string &value)

  Setter for m_dataTable.
- void setDataTableSheetName (const std::string &value)

  Setter for m_dataTable.
- void setExamineColumn (const std::string &value)

  Setter for m_examineColumn.
- void setAuditColumn (const std::string &value)

  Setter for m_auditColumn.
- void setDifferenceColumn (const std::string &value)

  Setter for m_differenceColumn.
- const utils::RStatsDataFormatType & getDataFormat () const

  Getter for m_dataFormat.
- const utils::RStatsInteger & getUniverseSize () const

  Getter for m_universeSize.
- const utils::RStatsInteger & getDataRowStart () const

  Getter for m_dataRowStart.
- const std::string & getDataTableFilePath () const

  Getter for m_dataTable.

- const std::string & getDataTableSheetName () const
  Getter for m_dataTable.
- const std::string & getExamineColumn () const
  Getter for m_examineColumn.
- const std::string & getAuditColumn () const
  Getter for m_auditColumn.
- const std::string & getDifferenceColumn () const
  Getter for m_differenceColumn.
- std::string getType () const
  getType
- void save (const std::string &url)
  save
- void load (const std::string &url)
  load
- ~RStatsUVASessionData ()
  Destructor.

Additional Inherited Members

5.28.1 Detailed Description

The RStatsUVASessionData class represents the custom session data for unrestricted variable appraisal (UVA)

5.28.2 Constructor & Destructor Documentation

5.28.2.1 oig::ratstats::modules::uva::RStatsUVASessionData::RStatsUVASessionData ( )

Constructor for RStatsUVASessionData.

Detailed description for RStatsUVASessionData

5.28.3 Member Function Documentation

5.28.3.1 const std::string & oig::ratstats::modules::uva::RStatsUVASessionData::getAuditColumn ( ) const

Getter for m_auditColumn.

Returns

Return copy of m_auditColumn

5.28.3.2 const RStatsDataFormatType & oig::ratstats::modules::uva::RStatsUVASessionData::getDataFormat ( ) const

Getter for m_dataFormat.

Returns

Return copy of m_dataFormat

5.28.3.3 const RStatsInteger & oig::ratstats::modules::uva::RStatsUVASessionData::getDataRowStart ( ) const

Getter for m_dataRowStart.

Returns

Return copy of m_dataRowStart

5.28.3.4 const std::string & oig::ratstats::modules::uva::RStatsUVASessionData::getDataTableFilePath ( ) const

Getter for m_dataTable.

Returns

Return url of data table

5.28.3.5 const std::string & oig::ratstats::modules::uva::RStatsUVASessionData::getDataTableSheetName ( ) const

Getter for m_dataTable.

Returns

Return url of data table

5.28.3.6 const std::string & oig::ratstats::modules::uva::RStatsUVASessionData::getDifferenceColumn ( ) const

Getter for m_differenceColumn.

Returns

Return copy of m_differenceColumn

5.28.3.7 const std::string & oig::ratstats::modules::uva::RStatsUVASessionData::getExamineColumn ( ) const

Getter for m_examineColumn.

Returns

Return copy of m_examineColumn

5.28.3.8 std::string oig::ratstats::modules::uva::RStatsUVASessionData::getType ( ) const [virtual]

getType

Returns

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.28.3.9 const RStatsInteger & oig::ratstats::modules::uva::RStatsUVASessionData::getUniverseSize ( ) const

Getter for m_universeSize.

Returns

Return copy of m_universeSize

5.28.3.10 void oig::ratstats::modules::uva::RStatsUVASessionData::load (const std::string & *url*) [virtual]

load

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.28.3.11 void oig::ratstats::modules::uva::RStatsUVASessionData::save (const std::string & *url*) [virtual]

save

Parameters

url	

Implements oig::ratstats::utils::RStatsModuleSessionDataImpl.

5.28.3.12 void oig::ratstats::modules::uva::RStatsUVASessionData::setAuditColumn (const std::string & *value*)

Setter for m_auditColumn.

Parameters

value	to replace m_auditColumn

5.28.3.13 void oig::ratstats::modules::uva::RStatsUVASessionData::setDataFormat (const utils::RStatsDataFormatType & *value*)

Setter for m_dataFormat.

Parameters

value	to replace m_dataFormat

5.28.3.14 void oig::ratstats::modules::uva::RStatsUVASessionData::setDataRowStart (const utils::RStatsInteger & *value*)

Setter for m_dataRowStart.

Parameters

value	to replace m_dataRowStart

5.28.3.15 void oig::ratstats::modules::uva::RStatsUVASessionData::setDataTableFilePath (const std::string & *value*)

Setter for m_dataTable.

Parameters

value	to replace m_dataTable

5.28.3.16 void oig::ratstats::modules::uva::RStatsUVASessionData::setDataTableSheetName (const std::string & *value*)

Setter for m_dataTable.

Parameters

value	to replace m_dataTable

5.28.3.17 void oig::ratstats::modules::uva::RStatsUVASessionData::setDifferenceColumn (const std::string & *value*)

Setter for m_differenceColumn.

Parameters

value	to replace m_differenceColumn

5.28.3.18 void oig::ratstats::modules::uva::RStatsUVASessionData::setExamineColumn (const std::string & *value*)

Setter for m_examineColumn.

Parameters

value	to replace m_examineColumn

5.28.3.19 void oig::ratstats::modules::uva::RStatsUVASessionData::setUniverseSize (const utils::RStatsInteger & *value*)

Setter for m_universeSize.

Parameters

value	to replace m_universeSize

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/inc/RStatsUVASessionData.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/src/RStatsUVASessionData.cpp

5.29 oig::ratstats::utils::RStatsWorkbook Class Reference

The RStatsWorkbook class represents a simple container for multiple worksheet objects.

`#include <RStatsWorkbook.h>`

Public Member Functions

- RStatsWorkbook ()

  RStatsWorkbook (Constructor)
- void insertWorksheet (const RStatsWorksheet &sheet, size_t index)

  insertWorksheet Inserts a worksheet at any position within worksheet array.
- void save (const std::string &filePath)

  save Saves the workbook to file. This function will call the RStatsWorkbookStreamFactory to determine how the file should be saved.
- void load (const std::string &filePath)

  load Loads a workbook from file. This function will call the RStatsWorkbookStreamFactory to determine how the file should be loaded.
- void addWorksheet (const RStatsWorksheet &sheet)

  addWorksheet Appends worksheet to end of worksheet array
- RStatsWorksheet & createWorksheet (const std::string &name)

  createWorksheet Creates an empty worksheet object and returns a reference to it.
- const std::vector< RStatsWorksheet > & getWorksheets () const

  getWorksheets Returns reference vector of worksheets
- void removeWorksheet (size_t index)

  removeWorksheet Deletes worksheet from workbook
- size_t getNumWorksheets () const

  getNumWorksheets Gets the number of worksheets
- RStatsWorksheet & operator() (size_t index)

  operator () Overloaded operator to ease accessing worksheet.
- const RStatsWorksheet & operator() (size_t index) const

  operator () Overloaded operator to ease accessing worksheet.
- std::vector< std::string > getWorksheetNames () const

  getWorksheetNames Get list of all worksheet names
- RStatsWorksheet mergeSheets (RStatsWorkbookMergeDirection direction=RStatsWorkbookMergeDirection::MergeBottom, size_t padding=1)

  mergeSheets This function merges all the sheets in the workbooks into a single sheet. This is useful for outputing to formats that only support a single sheet.
- void clear ()

  clear Clears all worksheets
- ~RStatsWorkbook ()

  Destructor.

5.29.1 Detailed Description

The RStatsWorkbook class represents a simple container for multiple worksheet objects.

5.29.2 Member Function Documentation

5.29.2.1 void oig::ratstats::utils::RStatsWorkbook::addWorksheet (const RStatsWorksheet & *sheet*)

addWorksheet Appends worksheet to end of worksheet array

Parameters

sheet	Worksheet object to add

5.29.2.2 RStatsWorksheet & oig::ratstats::utils::RStatsWorkbook::createWorksheet (const std::string & *name*)

createWorksheet Creates an empty worksheet object and returns a reference to it.

Parameters

name	The name of the worksheet

Returns

Returns reference of worksheet created

5.29.2.3 size_t oig::ratstats::utils::RStatsWorkbook::getNumWorksheets ( ) const

getNumWorksheets Gets the number of worksheets

Returns

Return size_t of worksheet count

5.29.2.4 std::vector< std::string > oig::ratstats::utils::RStatsWorkbook::getWorksheetNames ( ) const

getWorksheetNames Get list of all worksheet names

Returns

Return vector containing strings of worksheet names

5.29.2.5 const std::vector< RStatsWorksheet > & oig::ratstats::utils::RStatsWorkbook::getWorksheets ( ) const

getWorksheets Returns reference vector of worksheets

Returns

5.29.2.6 void oig::ratstats::utils::RStatsWorkbook::insertWorksheet (const RStatsWorksheet & *sheet*, size_t *index*)

insertWorksheet Inserts a worksheet at any position within worksheet array.

Parameters

sheet	The worksheet to insert
index	The index to insert the worksheet at

5.29.2.7 void oig::ratstats::utils::RStatsWorkbook::load (const std::string & *filePath*)

load Loads a workbook from file. This function will call the RStatsWorkbookStreamFactory to determine how the file should be loaded.

Parameters

filePath	Path to file to load

5.29.2.8 RStatsWorksheet oig::ratstats::utils::RStatsWorkbook::mergeSheets (RStatsWorkbookMergeDirection *direction* = `RStatsWorkbookMergeDirection::MergeBottom`, size_t *padding* = `1`)

mergeSheets This function merges all the sheets in the workbooks into a single sheet. This is useful for outputing to formats that only support a single sheet.

Parameters

direction	The direction in which to merge the sheets
padding	Determines how many extra rows/columns of padding to add between each merged sheet in the final output

Returns

Returns merged worksheet object of all sheets in workbook

5.29.2.9 RStatsWorksheet & oig::ratstats::utils::RStatsWorkbook::operator() (size_t *index*)

operator () Overloaded operator to ease accessing worksheet.

Parameters

index	Index of worksheet to access

Returns

This function returns reference to worksheet object.

Exceptions

GenericException	if index is out of range

5.29.2.10 const RStatsWorksheet & oig::ratstats::utils::RStatsWorkbook::operator() (size_t *index*) const

operator () Overloaded operator to ease accessing worksheet.

Parameters

index	Index of worksheet to access

Returns

This function returns a const reference to worksheet object.

Exceptions

GenericException	if index is out of range

5.29.2.11 void oig::ratstats::utils::RStatsWorkbook::removeWorksheet (size_t *index*)

removeWorksheet Deletes worksheet from workbook

Parameters

index	Index of worksheet to delete

5.29.2.12 void oig::ratstats::utils::RStatsWorkbook::save (const std::string & *filePath*)

save Saves the workbook to file. This function will call the RStatsWorkbookStreamFactory to determine how the file should be saved.

Parameters

filePath	Path to file to save

The documentation for this class was generated from the following files:

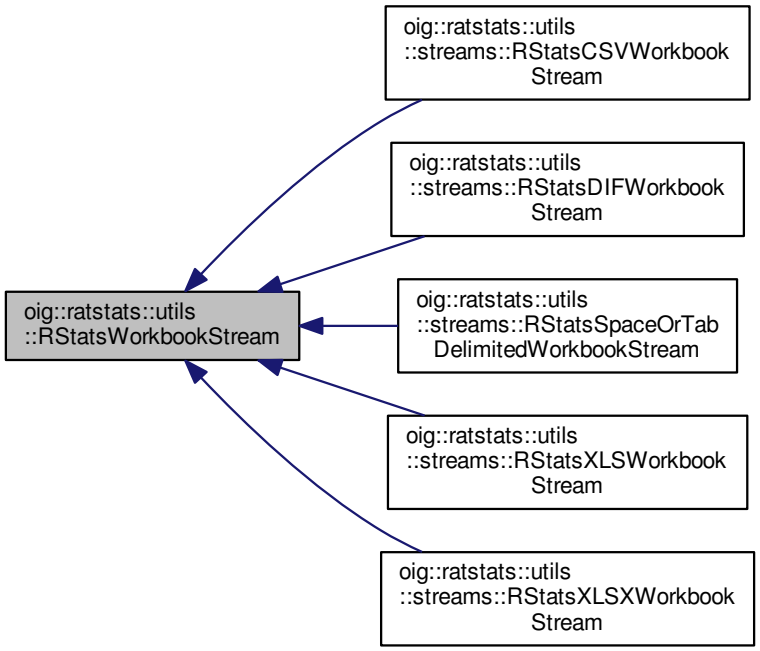
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsWorkbook.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsWorkbook.cpp

5.30 oig::ratstats::utils::RStatsWorkbookStream Class Reference

The RStatsWorkbookStream interface represents a simple read/write stream for various workbook file formats.

`#include <RStatsWorkbookStream.hpp>`

Inheritance diagram for oig::ratstats::utils::RStatsWorkbookStream:



Public Member Functions

- virtual void write (const RStatsWorkbook &workbook)=0

  write This function will be inherited by implementing classes to provide support for writing a workbook to file
- virtual RStatsWorkbook read ()=0

  read This function will be inherited by implementing classes to provide support for reading a workbook from file
- virtual ~RStatsWorkbookStream ()

  Virtual Destructor.

5.30.1 Detailed Description

The RStatsWorkbookStream interface represents a simple read/write stream for various workbook file formats.

5.30.2 Member Function Documentation

5.30.2.1 virtual RStatsWorkbook oig::ratstats::utils::RStatsWorkbookStream::read ( ) [pure virtual]

read This function will be inherited by implementing classes to provide support for reading a workbook from file

Returns

Implemented in oig::ratstats::utils::streams::RStatsDIFWorkbookStream, oig::ratstats::utils::streams::RStatsXLSXWorkbookStream, oig::ratstats::utils::streams::RStatsCSVWorkbookStream, oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream, and oig::ratstats::utils::streams::RStatsXLSWorkbookStream.

5.30.2.2 virtual void oig::ratstats::utils::RStatsWorkbookStream::write (const RStatsWorkbook & *workbook*) [pure virtual]

write This function will be inherited by implementing classes to provide support for writing a workbook to file

Parameters

workbook	The workbook to write

Implemented in oig::ratstats::utils::streams::RStatsDIFWorkbookStream, oig::ratstats::utils::streams::RStatsXLSXWorkbookStream, oig::ratstats::utils::streams::RStatsCSVWorkbookStream, oig::ratstats::utils::streams::RStatsSpaceOrTabDelimitedWorkbookStream, and oig::ratstats::utils::streams::RStatsXLSWorkbookStream.

The documentation for this class was generated from the following file:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsWorkbookStream.hpp

5.31 oig::ratstats::utils::RStatsWorkbookStreamFactory Class Reference

The RStatsWorkbookStreamFactory static class provides a method for instantiating workbook streams for reading/writing. The extension on the filePath is used to determine which workbook stream implementation to use.

`#include <RStatsWorkbookStreamFactory.h>`

Static Public Member Functions

- static RStatsWorkbookStreamPtr create (const std::string &filePath)

  create Creates a initialization of a workbook stream object

5.31.1 Detailed Description

The RStatsWorkbookStreamFactory static class provides a method for instantiating workbook streams for reading/writing. The extension on the filePath is used to determine which workbook stream implementation to use.

5.31.2 Member Function Documentation

5.31.2.1 RStatsWorkbookStreamPtr oig::ratstats::utils::RStatsWorkbookStreamFactory::create (const std::string & *filePath*) [static]

create Creates a initialization of a workbook stream object

Parameters

filePath	The path to file for reading/writing from/to

Returns

Return a shared pointer instance of a workbook stream object

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsWorkbookStreamFactory.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsWorkbookStreamFactory.cpp

5.32 oig::ratstats::utils::RStatsWorksheet Class Reference

The RStatsWorksheet class attempts to emulate a simple spreadsheet object basic formatting of cells.

`#include <RStatsWorksheet.h>`

Public Member Functions

- RStatsWorksheet (const std::string &name="NewSheet")

  RStatsWorksheet (Constructor)
- void setWorksheetTitle (const std::string &value)

  Setter for m_worksheetTitle.
- const std::string & getWorksheetTitle () const

  Getter for m_worksheetTitle.
- RStatsCell & operator() (size_t row, size_t column)

  operator () Allows ease of accessing cells using row/column indices. If row/column is out of range a new cell is created and returned for the index pair.
- const RStatsCell & operator() (size_t row, size_t column) const

  operator () Allows ease of accessing cells using row/column indices. This function provides read only access and therefore if a row/column is out of range an exception is thrown.
- const RStatsCell & getCell (size_t row, size_t column) const

  getCell Returns const reference to cell via row/column indices. This function provides read only access and therefore if a row/column is out of range an exception is thrown.
- RStatsCell & operator() (const std::string &address)

  operator () Allows ease of accessing cells using string address (e.g A1, B15, Z24, etc). If row/column is out of range a new cell is created and returned for the index pair.
- size_t getNumRows () const

  getNumRows

- size_t getNumColumns () const

  getNumColumns
- std::pair< size_t, size_t > getLastDataRowAndColumn () const

  getLastDataRow
- const RStatsCellMap & getCells () const

  getCells
- void setDefaultTextAlignment (RStatsTextAlignment alignment)

  setDefaultTextAlignment
- void setDefaultBGColor (const cbtek::common::utility::Color &bgColor)

  setDefaultBGColor
- void setDefaultFGColor (const cbtek::common::utility::Color &fgColor)

  setDefaultFGColor
- void setDefaultFont (const cbtek::common::utility::Font &font)

  setDefaultFont
- void setDefaultFloatingPointDecimals (size_t count)

  setDefaultFloatingPointDecimals
- void resetDefaults ()

  resetDefaults
- std::set< RStatsCellFormat > **getCellFormatSet** () const
- std::string toCommaDelimitedString () const

  toCommaDelimitedString
- std::string toTabDelimitedString () const

  toTabDelimitedString
- std::string toHTMLTableString (bool includeRowLabels=false, bool includeColumnLabels=false) const

  toHTMLTableString
- std::string toEvenlySpacedString () const

  toEvenlySpacedString Converts worksheet to evenly spaced human readable string output.
- bool isEmpty () const

  isEmpty
- void findDataRowsAndColumns (std::set< size_t > &rowsOut, std::set< size_t > &columnsOut) const

  findDataRowsAndColumns
- void setFormatEnabled (RStatsCellFormat format, bool flag)

  setFormatEnabled
- void setThousandsSeperatorEnabled (bool flag)

  setThousandsSeperatorEnabled
- void setRowBackgroundColor (size_t row, const cbtek::common::utility::Color &color)

  setRowBackgroundColor
- void setColumnBackgroundColor (size_t column, const cbtek::common::utility::Color &color)

  setColumnBackgroundColor
- void clear ()

  clear
- ~RStatsWorksheet ()

  Destructor.
- void setRowBorderColor (size_t row, const cbtek::common::utility::Color &color)

  setRowBorderColor
- void setColumnBorderColor (size_t column, const cbtek::common::utility::Color &color)

  setColumnBorderColor
- void removeRow (size_t row)

  removeRow
- void removeColumn (size_t column)

  removeColumn

- void removeEmptyRows ()

  removeEmptyRows Removes empty rows from worksheet
- void removeEmptyColumns ()

  removeEmptyColumns Removes empty columns from worksheet
- bool validateWorksheet (size_t rowOffset, oig::ratstats::utils::RStatsConditionLogger &logger, const std::string &context="data")

  validateWorksheet Adds errors to logger if data appears to be invalid in the input sheet

5.32.1 Detailed Description

The RStatsWorksheet class attempts to emulate a simple spreadsheet object basic formatting of cells.

5.32.2 Constructor & Destructor Documentation

5.32.2.1 oig::ratstats::utils::RStatsWorksheet::RStatsWorksheet (const std::string & *name* = "NewSheet")

RStatsWorksheet (Constructor)

Parameters

name	The name of the worksheet

5.32.3 Member Function Documentation

5.32.3.1 void oig::ratstats::utils::RStatsWorksheet::findDataRowsAndColumns (std::set< size_t > & *rowsOut*, std::set< size_t > & *columnsOut*) const

findDataRowsAndColumns

Parameters

rowsOut	
columnsOut	

5.32.3.2 const RStatsCell & oig::ratstats::utils::RStatsWorksheet::getCell (size_t *row*, size_t *column*) const

getCell Returns const reference to cell via row/column indices. This function provides read only access and therefore if a row/column is out of range an exception is thrown.

Parameters

row	The row to access
column	The column to access

Returns

Return const reference to RStatsCell

Exceptions

GenericException	if row/column do not exist.

5.32.3.3 const RStatsCellMap & oig::ratstats::utils::RStatsWorksheet::getCells ( ) const

getCells

Returns

5.32.3.4 std::pair< size_t, size_t > oig::ratstats::utils::RStatsWorksheet::getLastDataRowAndColumn ( ) const

getLastDataRow

Returns

5.32.3.5 size_t oig::ratstats::utils::RStatsWorksheet::getNumColumns ( ) const

getNumColumns

Returns

5.32.3.6 size_t oig::ratstats::utils::RStatsWorksheet::getNumRows ( ) const

getNumRows

Returns

5.32.3.7 const std::string & oig::ratstats::utils::RStatsWorksheet::getWorksheetTitle ( ) const

Getter for m_worksheetTitle.

Returns

Return copy of m_worksheetTitle

5.32.3.8 bool oig::ratstats::utils::RStatsWorksheet::isEmpty ( ) const

isEmpty

Returns

5.32.3.9 RStatsCell & oig::ratstats::utils::RStatsWorksheet::operator() (size_t *row*, size_t *column*)

operator () Allows ease of accessing cells using row/column indices. If row/column is out of range a new cell is created and returned for the index pair.

Parameters

row	The row to access
column	The column to access

Returns

Return reference to RStatsCell

5.32.3.10 const RStatsCell & oig::ratstats::utils::RStatsWorksheet::operator() (size_t *row*, size_t *column*) const

operator () Allows ease of accessing cells using row/column indices. This function provides read only access and therefore if a row/column is out of range an exception is thrown.

Parameters

row	The row to access
column	The column to access

Returns

Return const reference to RStatsCell

Exceptions

GenericException	if row/column do not exist.

5.32.3.11 RStatsCell & oig::ratstats::utils::RStatsWorksheet::operator() (const std::string & *address*)

operator () Allows ease of accessing cells using string address (e.g A1, B15, Z24, etc). If row/column is out of range a new cell is created and returned for the index pair.

Parameters

address	The cell address to return

Returns

Return reference to RStatsCell

5.32.3.12 void oig::ratstats::utils::RStatsWorksheet::removeColumn (size_t *column*)

removeColumn

Parameters

column	

5.32.3.13 void oig::ratstats::utils::RStatsWorksheet::removeRow (size_t *row*)

removeRow

Parameters

row	

5.32.3.14 void oig::ratstats::utils::RStatsWorksheet::setColumnBackgroundColor (size_t *column*, const cbtek::common::utility::Color & *color*)

setColumnBackgroundColor

Parameters

row	
color	

5.32.3.15 void oig::ratstats::utils::RStatsWorksheet::setColumnBorderColor (size_t *column*, const cbtek::common::utility::Color & *color*)

setColumnBorderColor

Parameters

row	
color	

5.32.3.16 void oig::ratstats::utils::RStatsWorksheet::setDefaultBGColor (const cbtek::common::utility::Color & *bgColor*)

setDefaultBGColor

Parameters

bgColor	

5.32.3.17 void oig::ratstats::utils::RStatsWorksheet::setDefaultFGColor (const cbtek::common::utility::Color & *fgColor*)

setDefaultFGColor

Parameters

fgColor	

5.32.3.18 void oig::ratstats::utils::RStatsWorksheet::setDefaultFloatingPointDecimals (size_t *count*)

setDefaultFloatingPointDecimals

Parameters

count	

5.32.3.19 void oig::ratstats::utils::RStatsWorksheet::setDefaultFont (const cbtek::common::utility::Font & *font*)

setDefaultFont

Parameters

font	

5.32.3.20 void oig::ratstats::utils::RStatsWorksheet::setDefaultTextAlignment (RStatsTextAlignment *alignment*)

setDefaultTextAlignment

Parameters

alignment	

5.32.3.21 void oig::ratstats::utils::RStatsWorksheet::setFormatEnabled (RStatsCellFormat *format,* bool *flag*)

setFormatEnabled

Parameters

format	
flag	

5.32.3.22 void oig::ratstats::utils::RStatsWorksheet::setRowBackgroundColor (size_t *row,* const cbtek::common::utility::Color & *color*)

setRowBackgroundColor

Parameters

row	
color	

5.32.3.23 void oig::ratstats::utils::RStatsWorksheet::setRowBorderColor (size_t *row,* const cbtek::common::utility::Color & *color*)

setRowBorderColor

Parameters

row	
color	

5.32.3.24 void oig::ratstats::utils::RStatsWorksheet::setThousandsSeperatorEnabled (bool *flag*)

setThousandsSeperatorEnabled

Parameters

flag	

5.32.3.25 void oig::ratstats::utils::RStatsWorksheet::setWorksheetTitle (const std::string & *value*)

Setter for m_worksheetTitle.

Parameters

Value	to replace m_worksheetTitle

5.32.3.26 std::string oig::ratstats::utils::RStatsWorksheet::toCommaDelimitedString ( ) const

toCommaDelimitedString

Returns

5.32.3.27 std::string oig::ratstats::utils::RStatsWorksheet::toEvenlySpacedString ( ) const

toEvenlySpacedString Converts worksheet to evenly spaced human readable string output.

Returns

5.32.3.28 std::string oig::ratstats::utils::RStatsWorksheet::toHTMLTableString (bool *includeRowLabels* = `false`, bool *includeColumnLabels* = `false`) const

toHTMLTableString

Returns

5.32.3.29 std::string oig::ratstats::utils::RStatsWorksheet::toTabDelimitedString ( ) const

toTabDelimitedString

Returns

5.32.3.30 bool oig::ratstats::utils::RStatsWorksheet::validateWorksheet (size_t *rowOffset*, oig::ratstats::utils::RStatsConditionLogger & *logger*, const std::string & *context* = `"data"`)

validateWorksheet Adds errors to logger if data appears to be invalid in the input sheet

Parameters

sheet	The input sheet to check
rowOffset	Offset into to sheet. Used to skip header rows
logger	Conditional logger from modules
context	Name of object related to error

Returns

Return true if sheet was valid, false otherwise

The documentation for this class was generated from the following files:

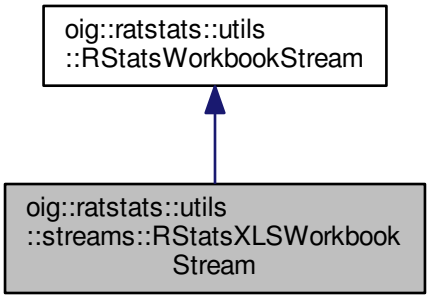
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/RStatsWorksheet.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/RStatsWorksheet.cpp

5.33 oig::ratstats::utils::streams::RStatsXLSWorkbookStream Class Reference

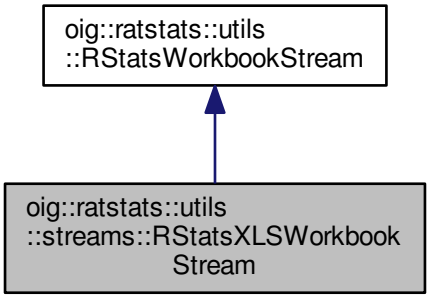
The RStatsXLSWorkbookStream class Provides read/write support for XLS files.

`#include <RStatsXLSWorkbookStream.h>`

Inheritance diagram for oig::ratstats::utils::streams::RStatsXLSWorkbookStream:



Collaboration diagram for oig::ratstats::utils::streams::RStatsXLSWorkbookStream:



Public Member Functions

- **RStatsXLSWorkbookStream** (const std::string &filePath)
- virtual void write (const RStatsWorkbook &workbook)

  write Saves workbook object to XLS file
- virtual RStatsWorkbook read ()

  read Parses XLS file and returns workbook

5.33.1 Detailed Description

The RStatsXLSWorkbookStream class Provides read/write support for XLS files.

5.33.2 Member Function Documentation

5.33.2.1 RStatsWorkbook oig::ratstats::utils::streams::RStatsXLSWorkbookStream::read ( ) [virtual]

read Parses XLS file and returns workbook

Returns

Return fully constructed workbook object from XLS file

Implements oig::ratstats::utils::RStatsWorkbookStream.

5.33.2.2 void oig::ratstats::utils::streams::RStatsXLSWorkbookStream::write (const RStatsWorkbook & *workbook*) [virtual]

write Saves workbook object to XLS file

Parameters

workbook	The workbook to save

Implements oig::ratstats::utils::RStatsWorkbookStream.

The documentation for this class was generated from the following files:

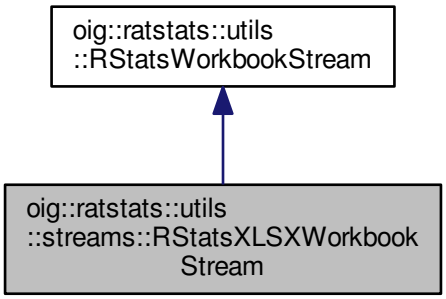
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/streams/RStatsXLSWorkbookStream.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/streams/RStatsXLSWorkbookStream.cpp

5.34 oig::ratstats::utils::streams::RStatsXLSXWorkbookStream Class Reference

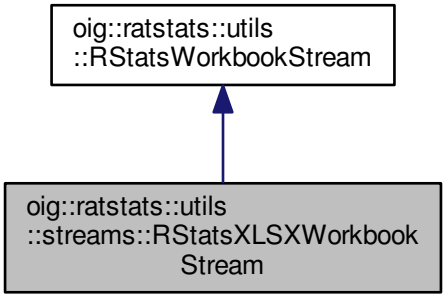
The RStatsXLSXWorkbookStream class provides read support for XLSX files. WARNING: The write function is not implemented and will throw an exception if called.

`#include <RStatsXLSXWorkbookStream.h>`

Inheritance diagram for oig::ratstats::utils::streams::RStatsXLSXWorkbookStream:



Collaboration diagram for oig::ratstats::utils::streams::RStatsXLSXWorkbookStream:



Public Member Functions

- RStatsXLSXWorkbookStream (const std::string &filePath)

  RStatsXLSXWorkbookStream (Constructor)
- void write (const RStatsWorkbook &workbook)

  write In the future this should write a workbook to a xlsx file. WARNING: The write function is not implemented and will throw an exception if called.
- RStatsWorkbook read ()

  read Parses XLSX file and returns it as a workbook object
- ~RStatsXLSXWorkbookStream ()

  Destructor.

5.34.1 Detailed Description

The RStatsXLSXWorkbookStream class provides read support for XLSX files. WARNING: The write function is not implemented and will throw an exception if called.

5.34.2 Constructor & Destructor Documentation

5.34.2.1 oig::ratstats::utils::streams::RStatsXLSXWorkbookStream::RStatsXLSXWorkbookStream (const std::string & *filePath*)

RStatsXLSXWorkbookStream (Constructor)

Parameters

filePath	The path to read from

5.34.3 Member Function Documentation

5.34.3.1 RStatsWorkbook oig::ratstats::utils::streams::RStatsXLSXWorkbookStream::read ( ) [virtual]

read Parses XLSX file and returns it as a workbook object

Returns

Returns workbook object of XLSX file

Exceptions

GenericException	if xlsx file was unable to be opened

Implements oig::ratstats::utils::RStatsWorkbookStream.

5.34.3.2 void oig::ratstats::utils::streams::RStatsXLSXWorkbookStream::write (const RStatsWorkbook & *workbook*) [virtual]

write In the future this should write a workbook to a xlsx file. WARNING: The write function is not implemented and will throw an exception if called.

Parameters

workbook	The workbook to write

Exceptions

GenericException	

Implements oig::ratstats::utils::RStatsWorkbookStream.

The documentation for this class was generated from the following files:

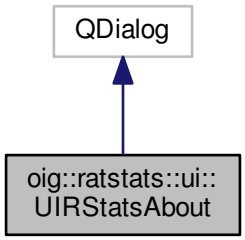
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/inc/streams/RStatsXLSXWorkbookStream.↩ h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_utils/src/streams/RStatsXLSXWorkbookStream.↩ cpp

5.35 oig::ratstats::ui::UIRStatsAbout Class Reference

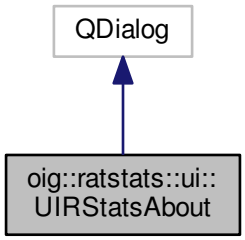
The UIRStatsAbout class represents the code-behind for the "About" dialog used in RAT-STATS.

```
#include <UIRStatsAbout.h>
```

Inheritance diagram for oig::ratstats::ui::UIRStatsAbout:



Collaboration diagram for oig::ratstats::ui::UIRStatsAbout:



Public Member Functions

- UIRStatsAbout (QWidget *parent=0)

  Constructor for UIRStatsAbout.
- ~UIRStatsAbout ()

  Destructor for UIRStatsAbout.

5.35.1 Detailed Description

The UIRStatsAbout class represents the code-behind for the "About" dialog used in RAT-STATS.

5.35.2 Constructor & Destructor Documentation

5.35.2.1 oig::ratstats::ui::UIRStatsAbout::UIRStatsAbout (QWidget * *parent* = 0) [explicit]

Constructor for UIRStatsAbout.

Detailed description for UIRStatsAbout

Parameters

parent	points to embedding super widget. Defaults to null.

The documentation for this class was generated from the following files:

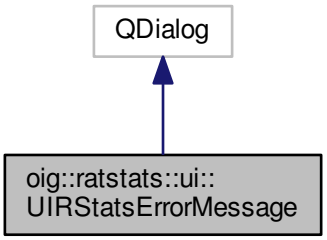
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsAbout.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsAbout.cpp

5.36 oig::ratstats::ui::UIRStatsErrorMessage Class Reference

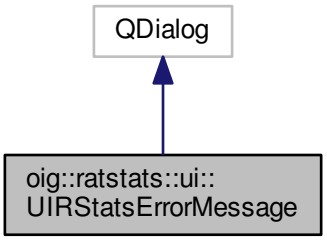
The UIRStatsErrorMessage class represents the code-behind for a custom dialog for displaying error/exception messages.

`#include <UIRStatsErrorMessage.h>`

Inheritance diagram for oig::ratstats::ui::UIRStatsErrorMessage:



Collaboration diagram for oig::ratstats::ui::UIRStatsErrorMessage:



Public Member Functions

- UIRStatsErrorMessage (QString &title, QString &message, bool exitApplication=false, QWidget ∗parent=0)

  UIRStatsErrorMessage (Constructor)
- UIRStatsErrorMessage (const std::string &title, const std::string &message, bool exitApplication=false, QWidget ∗parent=0)

  UIRStatsErrorMessage (Constructor)
- ∼UIRStatsErrorMessage ()

  Destructor for UIRStatsErrorMessage.

5.36.1 Detailed Description

The UIRStatsErrorMessage class represents the code-behind for a custom dialog for displaying error/exception messages.

5.36.2 Constructor & Destructor Documentation

5.36.2.1 oig::ratstats::ui::UIRStatsErrorMessage::UIRStatsErrorMessage (QString & *title*, QString & *message*, bool *exitApplication* = `false`, QWidget ∗ *parent* = `0`) `[explicit]`

UIRStatsErrorMessage (Constructor)

Parameters

title	The message to display in title bar
message	The primary error message
exitApplication	Should application exit after message is dismissed
parent	The parent widget

5.36.2.2 oig::ratstats::ui::UIRStatsErrorMessage::UIRStatsErrorMessage (const std::string & *title*, const std::string & *message*, bool *exitApplication* = `false`, QWidget * *parent* = `0`) [explicit]

UIRStatsErrorMessage (Constructor)

Parameters

title	The message to display in title bar
message	The primary error message
exitApplication	Should application exit after message is dismissed
parent	The parent widget

The documentation for this class was generated from the following files:

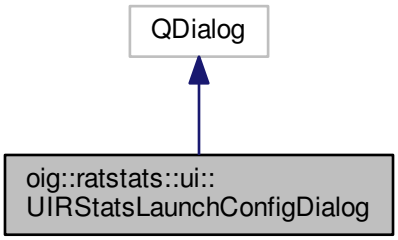
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsErrorMessage.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsErrorMessage.cpp

5.37 oig::ratstats::ui::UIRStatsLaunchConfigDialog Class Reference

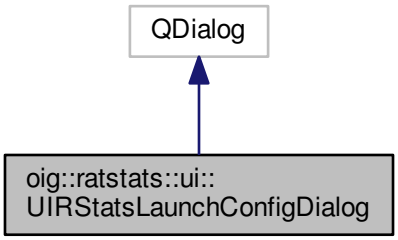
The UIRStatsLaunchConfigDialog class represents the code-behind for editing RStatsModuleProperties.

```
#include <UIRStatsLaunchConfigDialog.h>
```

Inheritance diagram for oig::ratstats::ui::UIRStatsLaunchConfigDialog:



Collaboration diagram for oig::ratstats::ui::UIRStatsLaunchConfigDialog:



Signals

- void **propertiesSaved** (const utils::RStatsModuleProperties &props)

Public Member Functions

- UIRStatsLaunchConfigDialog (const utils::RStatsModuleProperties &props, QWidget ∗parent=0)

  Constructor for UIRStatsLaunchConfigDialog.
- ∼UIRStatsLaunchConfigDialog ()

  Destructor for UIRStatsLaunchConfigDialog.
- bool launch ()

  launch Calls the exec function for this dialog

5.37.1 Detailed Description

The UIRStatsLaunchConfigDialog class represents the code-behind for editing RStatsModuleProperties.

5.37.2 Constructor & Destructor Documentation

5.37.2.1 oig::ratstats::ui::UIRStatsLaunchConfigDialog::UIRStatsLaunchConfigDialog (const utils::RStatsModuleProperties & *props*, QWidget ∗ *parent* = `0`) `[explicit]`

Constructor for UIRStatsLaunchConfigDialog.

Detailed description for UIRStatsLaunchConfigDialog

Parameters

parent	points to embedding super widget. Defaults to null.

5.37.3 Member Function Documentation

5.37.3.1 bool oig::ratstats::ui::UIRStatsLaunchConfigDialog::launch ( )

launch Calls the exec function for this dialog

Returns

Return true if changes were made (OK was pressed) or false if this dialog was canceled

The documentation for this class was generated from the following files:

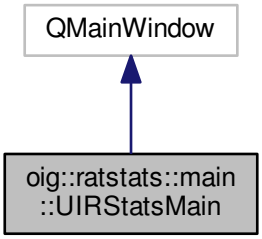
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsLaunchConfigDialog.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsLaunchConfigDialog.cpp

5.38 oig::ratstats::main::UIRStatsMain Class Reference

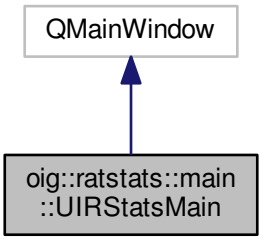
The UIRStatsMain class contains the code-behind for the RAT-STATS main menu window.

`#include <UIRStatsMain.h>`

Inheritance diagram for oig::ratstats::main::UIRStatsMain:



Collaboration diagram for oig::ratstats::main::UIRStatsMain:



Public Member Functions

- UIRStatsMain (QWidget *parent=0)

  UIRStatsMain (constructor)
- ~UIRStatsMain ()

  UIRStatsMain (destructor)

Protected Slots

- void onExit ()

  onExit
- void onLaunchSettingsManager ()

  onLaunchSettingsManager
- void onLaunchAbout ()

  onLaunchAbout
- void onLaunchHelp ()

  onLaunchHelp
- void onLaunchModule (const utils::RStatsModuleProperties &props, int row)

  launchModule This is called when module is to be launched
- void onLaunchModuleShortcut (QShortcut *button)

  onLaunchModuleShortcut
- void onUpdateTableHeader (bool isModuleListSelected)

  onUpdateTableHeader
- void onAddNewModule ()

  onAddNewModule
- void onRemoveModuleShortcut (QShortcut *button)

  onRemoveModuleShortcut
- void onRemoveModule (const utils::RStatsModuleProperties &props, int row)

  removeModule This is called when module properties need to be removed
- void onEditModuleShortcut (QShortcut *button)

  onEditModuleShortcut
- void onEditModule (const utils::RStatsModuleProperties &props, int row)

  editModule This is called when module properties need to be edited
- void onCategoryChanged (int row)

  onCategoryChanged
- void onRepopulateModules (const std::vector< utils::RStatsModuleProperties > &propsIn)

  onRepopulateModules
- void onModuleCellActivated (QTableWidgetItem *item)

  onModuleCellActivated

Protected Member Functions

- void keyPressEvent (QKeyEvent *event)

  keyPressEvent
- void editModule (const QString &propsPath, int row)

  editModule This is called when module properties need to be edited
- void removeModule (const QString &propsPath, int row)

  removeModule This is called when module properties need to be removed
- void launchModule (const QString &propsPath)

  launchModule This is called when module is to be launched

5.38.1 Detailed Description

The UIRStatsMain class contains the code-behind for the RAT-STATS main menu window.

5.38.2 Constructor & Destructor Documentation

5.38.2.1 oig::ratstats::main::UIRStatsMain::UIRStatsMain (QWidget * *parent* = 0) [explicit]

UIRStatsMain (constructor)

Parameters

parent	

5.38.3 Member Function Documentation

5.38.3.1 void oig::ratstats::main::UIRStatsMain::editModule (const QString & *propsPath*, int *row*) [protected]

editModule This is called when module properties need to be edited

Parameters

propsPath	The path to the module properties config
row	The row of the module to edit

5.38.3.2 void oig::ratstats::main::UIRStatsMain::keyPressEvent (QKeyEvent * *event*) [protected]

keyPressEvent

Parameters

event	

5.38.3.3 void oig::ratstats::main::UIRStatsMain::launchModule (const QString & *propsPath*) [protected]

launchModule This is called when module is to be launched

Parameters

propsPath	The path to the module properties config

5.38.3.4 void oig::ratstats::main::UIRStatsMain::onCategoryChanged (int *row*) [protected], [slot]

onCategoryChanged

Parameters

row	

5.38.3.5 void oig::ratstats::main::UIRStatsMain::onEditModule (const utils::RStatsModuleProperties & *props,* int *row*) [protected], [slot]

editModule This is called when module properties need to be edited

Parameters

props	The module properties
row	The row of the module to edit

5.38.3.6 void oig::ratstats::main::UIRStatsMain::onEditModuleShortcut (QShortcut * *button*) [protected], [slot]

onEditModuleShortcut

Parameters

button	

5.38.3.7 void oig::ratstats::main::UIRStatsMain::onLaunchModule (const utils::RStatsModuleProperties & *props,* int *row*) [protected], [slot]

launchModule This is called when module is to be launched

Parameters

propsPath	The path to the module properties config
row	The row of the module to be launched

5.38.3.8 void oig::ratstats::main::UIRStatsMain::onLaunchModuleShortcut (QShortcut * *button*) [protected], [slot]

onLaunchModuleShortcut

Parameters

button	

5.38.3.9 void oig::ratstats::main::UIRStatsMain::onModuleCellActivated (QTableWidgetItem * *item*) [protected], [slot]

onModuleCellActivated

Parameters

item	

5.38.3.10 void oig::ratstats::main::UIRStatsMain::onRemoveModule (const **utils::RStatsModuleProperties** & *props,* int *row*) [protected], [slot]

removeModule This is called when module properties need to be removed

Parameters

props	The module properties
row	The row of the module to remove

5.38.3.11 void oig::ratstats::main::UIRStatsMain::onRemoveModuleShortcut (QShortcut * *button*) [protected], [slot]

onRemoveModuleShortcut

Parameters

button	

5.38.3.12 void oig::ratstats::main::UIRStatsMain::onRepopulateModules (const std::vector< **utils::RStatsModuleProperties** > & *propsIn*) [protected], [slot]

onRepopulateModules

Parameters

propsIn	

5.38.3.13 void oig::ratstats::main::UIRStatsMain::onUpdateTableHeader (bool *isModuleListSelected*) [protected], [slot]

onUpdateTableHeader

Parameters

isModuleListSelected	

5.38.3.14 void oig::ratstats::main::UIRStatsMain::removeModule (const QString & *propsPath*, int *row*) [protected]

removeModule This is called when module properties need to be removed

Parameters

propsPath	The path to the module properties config
row	The row of the module to remove

The documentation for this class was generated from the following files:

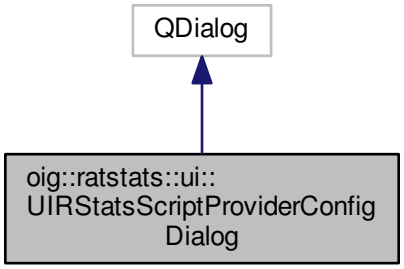
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_main/inc/UIRStatsMain.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_main/src/UIRStatsMain.cpp

5.39 oig::ratstats::ui::UIRStatsScriptProviderConfigDialog Class Reference

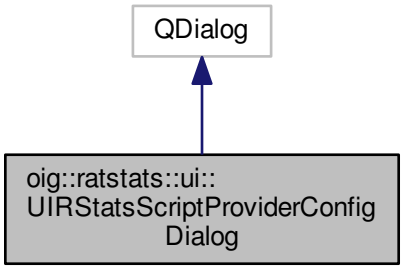
The UIRStatsScriptProviderConfigDialog class provides code-behind for editing RStatsScriptProviderProperties.

`#include <UIRStatsScriptProviderConfigDialog.h>`

Inheritance diagram for oig::ratstats::ui::UIRStatsScriptProviderConfigDialog:



Collaboration diagram for oig::ratstats::ui::UIRStatsScriptProviderConfigDialog:



Public Member Functions

- UIRStatsScriptProviderConfigDialog (const utils::RStatsScriptProviderProperties &props, QWidget *parent=0)

  Constructor for UIRStatsScriptProviderConfigDialog.
- ~UIRStatsScriptProviderConfigDialog ()

  Destructor for UIRStatsScriptProviderConfigDialog.

5.39.1 Detailed Description

The UIRStatsScriptProviderConfigDialog class provides code-behind for editing RStatsScriptProviderProperties.

5.39.2 Constructor & Destructor Documentation

5.39.2.1 oig::ratstats::ui::UIRStatsScriptProviderConfigDialog::UIRStatsScriptProviderConfigDialog (const utils::RStatsScriptProviderProperties & *props,* QWidget * *parent* = 0) [explicit]

Constructor for UIRStatsScriptProviderConfigDialog.

Detailed description for UIRStatsScriptProviderConfigDialog

Parameters

parent	points to embedding super widget. Defaults to null.

The documentation for this class was generated from the following files:

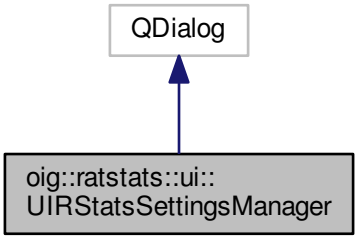
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsScriptProviderConfigDialog.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsScriptProviderConfigDialog.cpp

5.40 oig::ratstats::ui::UIRStatsSettingsManager Class Reference

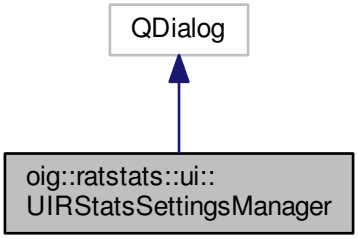
The UIRStatsSettingsManager class represents the properties in the settings dialog such as theme management and script provider management.

```
#include <UIRStatsSettingsManager.h>
```

Inheritance diagram for oig::ratstats::ui::UIRStatsSettingsManager:



Collaboration diagram for oig::ratstats::ui::UIRStatsSettingsManager:



Public Member Functions

- UIRStatsSettingsManager (QWidget ∗parent=0)

  Constructor for UIRStatsSettingsManager.
- ∼UIRStatsSettingsManager ()

  Destructor for UIRStatsSettingsManager.

5.40.1 Detailed Description

The UIRStatsSettingsManager class represents the properties in the settings dialog such as theme management and script provider management.

5.40.2 Constructor & Destructor Documentation

5.40.2.1 oig::ratstats::ui::UIRStatsSettingsManager::UIRStatsSettingsManager (QWidget ∗ *parent* = 0) [explicit]

Constructor for UIRStatsSettingsManager.

Detailed description for UIRStatsSettingsManager

Parameters

parent	points to embedding super widget. Defaults to null.

The documentation for this class was generated from the following files:

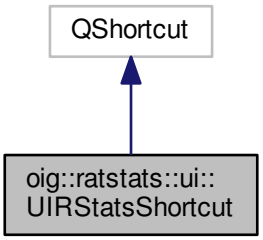
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsSettingsManager.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsSettingsManager.cpp

5.41 oig::ratstats::ui::UIRStatsShortcut Class Reference

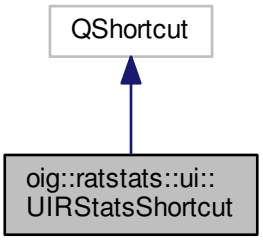
The UIRStatsShortcut class is a custom overload of QShortcut to provide more useful "activated" signal that returns pointer to shortcut.

```
#include <UIRStatsShortcut.h>
```

Inheritance diagram for oig::ratstats::ui::UIRStatsShortcut:



Collaboration diagram for oig::ratstats::ui::UIRStatsShortcut:



Signals

- void activated (QShortcut ∗shortcut)

  activated

Public Member Functions

- UIRStatsShortcut (const QKeySequence &sequence, QWidget ∗parent)

  Constructor for UIRStatsShortcut.
- ∼UIRStatsShortcut ()

  Destructor.

5.41.1 Detailed Description

The UIRStatsShortcut class is a custom overload of QShortcut to provide more useful "activated" signal that returns pointer to shortcut.

5.41.2 Constructor & Destructor Documentation

5.41.2.1 oig::ratstats::ui::UIRStatsShortcut::UIRStatsShortcut (const QKeySequence & *sequence,* QWidget ∗ *parent*)

Constructor for UIRStatsShortcut.

Detailed description for UIRStatsShortcut

5.41.3 Member Function Documentation

5.41.3.1 void oig::ratstats::ui::UIRStatsShortcut::activated (QShortcut ∗ *shortcut*) [signal]

activated

Parameters

shortcut	

The documentation for this class was generated from the following files:

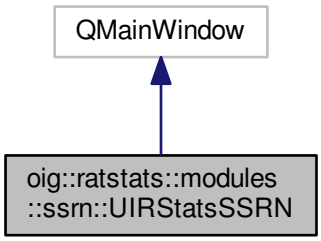
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsShortcut.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsShortcut.cpp

5.42 oig::ratstats::modules::ssrn::UIRStatsSSRN Class Reference

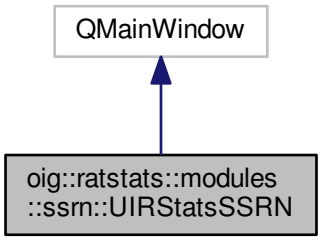
The UIRStatsSSRN class represents the code-behind for the single stage random number user interface. In the model-view-controller pardigm this class represents the view.

`#include <UIRStatsSSRN.h>`

Inheritance diagram for oig::ratstats::modules::ssrn::UIRStatsSSRN:



Collaboration diagram for oig::ratstats::modules::ssrn::UIRStatsSSRN:



Public Member Functions

- UIRStatsSSRN (QWidget *parent=0)
  Constructor for UIRStatsSSRN.
- ~UIRStatsSSRN ()
  Destructor for UIRStatsSSRN.

Protected Member Functions

- void **resizeEvent** (QResizeEvent *)

5.42.1 Detailed Description

The UIRStatsSSRN class represents the code-behind for the single stage random number user interface. In the model-view-controller pardigm this class represents the view.

5.42.2 Constructor & Destructor Documentation

5.42.2.1 oig::ratstats::modules::ssrn::UIRStatsSSRN::UIRStatsSSRN (QWidget * *parent* = 0) [explicit]

Constructor for UIRStatsSSRN.

Detailed description for UIRStatsSSRN

Parameters

parent	points to embedding super widget. Defaults to null.

The documentation for this class was generated from the following files:

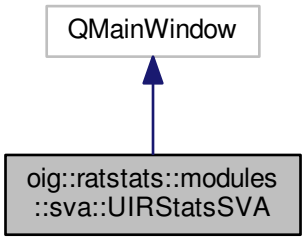
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/inc/UIRStatsSSRN.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/single_stage_random_numbers/src/UIRStatsSSRN.cpp

5.43 oig::ratstats::modules::sva::UIRStatsSVA Class Reference

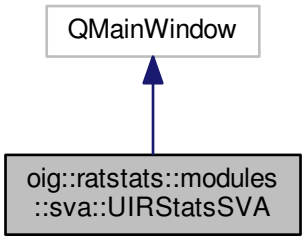
The UIRStatsSVA class represents the code-behind for the stratified variable appraisal user interface. In the model-view-controller pardigm this class represents the view.

```
#include <UIRStatsSVA.h>
```

Inheritance diagram for oig::ratstats::modules::sva::UIRStatsSVA:



Collaboration diagram for oig::ratstats::modules::sva::UIRStatsSVA:



Public Member Functions

- UIRStatsSVA (QWidget ∗parent=0)
  Constructor for UIRStatsSVA.
- ∼UIRStatsSVA ()
  Destructor for UIRStatsSVA.

Protected Slots

- void onSampleDataInputSheetReload ()
  onSampleDataInputSheetReload
- void onSampleSizeInputSheetReload ()
  onSampleSizeInputSheetReload
- void onClearRecentSessions ()
  onClearRecentSessions
- void onRecentSessionSelected (QAction ∗action)
  onRecentSessionSelected
- void onUpdateRowColumnExtentsForDataTable ()
  onUpdateRowColumnExtentsForDataTable
- void onUpdateRowColumnExtentsForSizeTable ()
  onUpdateRowColumnExtentsForSizeTable
- void onExecute ()
  onExecute
- void onExit ()
  onExit
- void onSampleSizeInputSheetSelected (const oig::ratstats::utils::RStatsWorksheet &sheet)
  onSampleSizeInputSheetSelected
- void onSampleDataInputSheetSelected (const oig::ratstats::utils::RStatsWorksheet &sheet)
  onSampleDataInputSheetSelected
- void onComboSizeInputSheetSelected (int row)
  onComboSizeInputSheetSelected
- void onComboDataInputSheetSelected (int row)
  onComboDataInputSheetSelected

- void onImportDataInput ()

  onImportDataInput
- void onImportSizeInput ()

  onImportSizeInput
- void onHelp ()

  onHelp
- void onSaveCSVFile ()

  onSaveCSVFile
- void onSaveTextFile ()

  onSaveTextFile
- void onUpdateDataFormatSelection ()

  onUpdateDataFormatSelection
- void onAbout ()

  onAbout
- void onUpdateDataFormatButtons ()

  onUpdateDataFormatButtons
- void onSetTabOrder ()

  onSetTabOrder
- void onSaveXLSFile ()

  onSaveXLSFile
- void onUpdateValidation ()

  onUpdateValidation Calls the onValidate function
- void onLaunchNewWindow ()

  onLaunchNewWindow Event occurs when user clicks the "New Window" File menu item. Will launch new instance of the RStatsSVA window

Protected Member Functions

- void **resizeEvent** (QResizeEvent ∗)

5.43.1 Detailed Description

The UIRStatsSVA class represents the code-behind for the stratified variable appraisal user interface. In the model-view-controller pardigm this class represents the view.

5.43.2 Constructor & Destructor Documentation

5.43.2.1 oig::ratstats::modules::sva::UIRStatsSVA::UIRStatsSVA (QWidget ∗ *parent* = 0) [explicit]

Constructor for UIRStatsSVA.

Detailed description for UIRStatsSVA

Parameters

parent	points to embedding super widget. Defaults to null.

5.43.3 Member Function Documentation

5.43.3.1 void oig::ratstats::modules::sva::UIRStatsSVA::onComboDataInputSheetSelected (int *row*) [protected], [slot]

onComboDataInputSheetSelected

Parameters

row	

5.43.3.2 void oig::ratstats::modules::sva::UIRStatsSVA::onComboSizeInputSheetSelected (int *row*) [protected], [slot]

onComboSizeInputSheetSelected

Parameters

row	

5.43.3.3 void oig::ratstats::modules::sva::UIRStatsSVA::onRecentSessionSelected (QAction * *action*) [protected], [slot]

onRecentSessionSelected

Parameters

action	

5.43.3.4 void oig::ratstats::modules::sva::UIRStatsSVA::onSampleDataInputSheetSelected (const oig::ratstats::utils::RStatsWorksheet & *sheet*) [protected], [slot]

onSampleDataInputSheetSelected

Parameters

sheet	

5.43.3.5 void oig::ratstats::modules::sva::UIRStatsSVA::onSampleSizeInputSheetSelected (const oig::ratstats::utils::RStatsWorksheet & *sheet*) [protected], [slot]

onSampleSizeInputSheetSelected

Parameters

sheet	

The documentation for this class was generated from the following files:

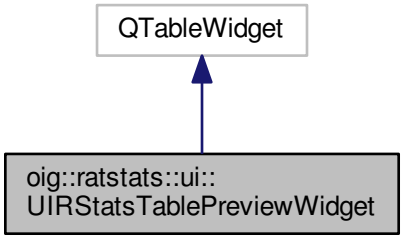
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/inc/UIR↩ StatsSVA.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/stratified_variable_appraisal/src/UIR↩ StatsSVA.cpp

5.44 oig::ratstats::ui::UIRStatsTablePreviewWidget Class Reference

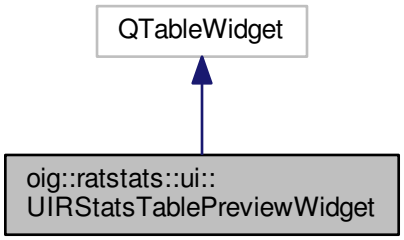
The UIRStatsTablePreviewWidget is a custom overload of the QTableWidget to provide the ability ignore the Tab key when viewing results in table. This allows the Tab key to go to the next sibling widget instead of being stuck in the table.

`#include <UIRStatsTablePreviewWidget.h>`

Inheritance diagram for oig::ratstats::ui::UIRStatsTablePreviewWidget:



Collaboration diagram for oig::ratstats::ui::UIRStatsTablePreviewWidget:



Public Member Functions

- UIRStatsTablePreviewWidget (QWidget *parent=nullptr)

  UIRStatsTablePreviewWidget (Constructor)
- ~UIRStatsTablePreviewWidget ()

  UIRStatsTablePreviewWidget (Destructor)

Protected Member Functions

- void keyPressEvent (QKeyEvent *event)

  keyPressEvent Custom event for ignoring the TAB key so that focus is not always stuck in table

5.44.1 Detailed Description

The UIRStatsTablePreviewWidget is a custom overload of the QTableWidget to provide the ability ignore the Tab key when viewing results in table. This allows the Tab key to go to the next sibling widget instead of being stuck in the table.

5.44.2 Constructor & Destructor Documentation

5.44.2.1 oig::ratstats::ui::UIRStatsTablePreviewWidget::UIRStatsTablePreviewWidget (QWidget * *parent* = `nullptr`) `[explicit]`

UIRStatsTablePreviewWidget (Constructor)

Parameters

parent	

5.44.3 Member Function Documentation

5.44.3.1 void oig::ratstats::ui::UIRStatsTablePreviewWidget::keyPressEvent (QKeyEvent * *event*) `[protected]`

keyPressEvent Custom event for ignoring the TAB key so that focus is not always stuck in table

Parameters

event	The event for keys

The documentation for this class was generated from the following files:

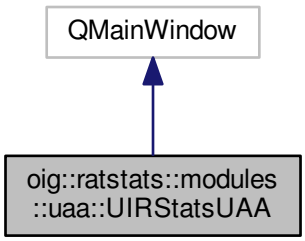
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsTablePreviewWidget.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsTablePreviewWidget.cpp

5.45 oig::ratstats::modules::uaa::UIRStatsUAA Class Reference

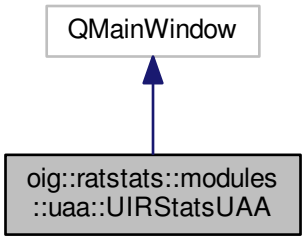
The UIRStatsUAA class represents the code-behind for the unrestricted attribute appraisal user interface. In the model-view-controller pardigm this class represents the view.

`#include <UIRStatsUAA.h>`

Inheritance diagram for oig::ratstats::modules::uaa::UIRStatsUAA:



Collaboration diagram for oig::ratstats::modules::uaa::UIRStatsUAA:



Public Member Functions

- UIRStatsUAA (QWidget *parent=0)

  UIRStatsUAA Class Destructor.
- ~UIRStatsUAA ()

  UIRStatsUAA Class Destructor.

Protected Member Functions

- void resizeEvent (QResizeEvent *)

  resizeEvent Called whenever the window is resized

5.45.1 Detailed Description

The UIRStatsUAA class represents the code-behind for the unrestricted attribute appraisal user interface. In the model-view-controller pardigm this class represents the view.

5.45.2 Constructor & Destructor Documentation

5.45.2.1 oig::ratstats::modules::uaa::UIRStatsUAA::UIRStatsUAA (QWidget * *parent* = 0) [explicit]

UIRStatsUAA Class Destructor.

Parameters

parent	Points to embedding super widget. Defaults to null.

The documentation for this class was generated from the following files:

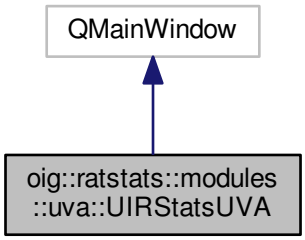
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/inc/UIRStatsUAA.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_attribute_appraisal/src/UIRStatsUAA.cpp

5.46 oig::ratstats::modules::uva::UIRStatsUVA Class Reference

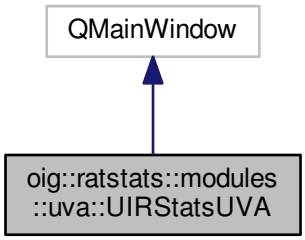
The UIRStatsUVA class represents the code-behind for the unrestricted variable appraisal user interface. In the model-view-controller pardigm this class represents the view.

```
#include <UIRStatsUVA.h>
```

Inheritance diagram for oig::ratstats::modules::uva::UIRStatsUVA:



Collaboration diagram for oig::ratstats::modules::uva::UIRStatsUVA:



Public Member Functions

- UIRStatsUVA (QWidget ∗parent=0)

  Constructor for UIRStatsUVA.
- ∼UIRStatsUVA ()

  Destructor for UIRStatsUVA.

Protected Member Functions

- void resizeEvent (QResizeEvent ∗e)

  resizeEvent Called whenever window is resized. This is called to reposition output labels in the status bar

5.46.1 Detailed Description

The UIRStatsUVA class represents the code-behind for the unrestricted variable appraisal user interface. In the model-view-controller pardigm this class represents the view.

5.46.2 Constructor & Destructor Documentation

5.46.2.1 oig::ratstats::modules::uva::UIRStatsUVA::UIRStatsUVA (QWidget ∗ *parent* = 0) [explicit]

Constructor for UIRStatsUVA.

Detailed description for UIRStatsUVA

Parameters

parent	points to embedding super widget. Defaults to null.

5.46.3 Member Function Documentation

5.46.3.1 void oig::ratstats::modules::uva::UIRStatsUVA::resizeEvent (QResizeEvent * e) [protected]

resizeEvent Called whenever window is resized. This is called to reposition output labels in the status bar

Parameters

e	The resize event object

The documentation for this class was generated from the following files:

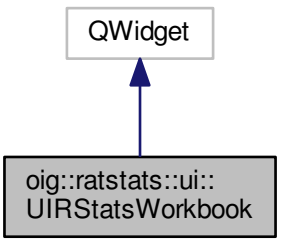
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/inc/UIRStatsUVA.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_modules/unrestricted_variable_appraisal/src/UIRStatsUVA.cpp

5.47 oig::ratstats::ui::UIRStatsWorkbook Class Reference

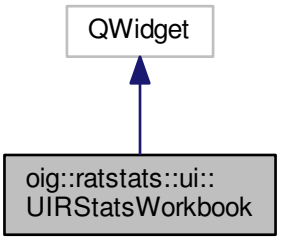
The UIRStatsWorkbook class is used by the SVA class to provide support for displaying multiple worksheets in the output results.

```
#include <UIRStatsWorkbook.h>
```

Inheritance diagram for oig::ratstats::ui::UIRStatsWorkbook:



Collaboration diagram for oig::ratstats::ui::UIRStatsWorkbook:



Public Member Functions

- UIRStatsWorkbook (QWidget *parent=0)

  UIRStatsWorkbook (Constructor)
- UIRStatsWorkbook (const utils::RStatsWorkbook &workbook, QWidget *parent=0)

  UIRStatsWorkbook (Constructor)
- void setWorkbook (const utils::RStatsWorkbook &workbook)

  setWorkbook
- void clear ()

  clear
- ~UIRStatsWorkbook ()

  Destructor for UIRStatsWorkbook.

5.47.1 Detailed Description

The UIRStatsWorkbook class is used by the SVA class to provide support for displaying multiple worksheets in the output results.

5.47.2 Constructor & Destructor Documentation

5.47.2.1 oig::ratstats::ui::UIRStatsWorkbook::UIRStatsWorkbook (QWidget * *parent* = `0`) [explicit]

UIRStatsWorkbook (Constructor)

Parameters

parent	

5.47.2.2 oig::ratstats::ui::UIRStatsWorkbook::UIRStatsWorkbook (const utils::RStatsWorkbook & *workbook*, QWidget * *parent* = 0) [explicit]

UIRStatsWorkbook (Constructor)

Parameters

workbook	The workbook to populate the ui with
parent	

5.47.3 Member Function Documentation

5.47.3.1 void oig::ratstats::ui::UIRStatsWorkbook::setWorkbook (const utils::RStatsWorkbook & *workbook*)

setWorkbook

Parameters

workbook	

The documentation for this class was generated from the following files:

- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/inc/UIRStatsWorkbook.h
- /home/cbtek/dev/RStats2017/products/RAT-STATS/rstats_ui/src/UIRStatsWorkbook.cpp

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