

# Namespace BigExcelCreator

## Classes

### [BigExcelWriter](#)

This class writes Excel files directly using OpenXML SAX. Useful when trying to write tens of thousands of rows. [NuGet](#) [Source](#)

# Class BigExcelWriter

Namespace: [BigExcelCreator](#)

Assembly: BigExcelCreator.dll

This class writes Excel files directly using OpenXML SAX. Useful when trying to write tens of thousands of rows. [NuGet](#) [Source](#)

```
public class BigExcelWriter : IDisposable
```

## Inheritance

[object](#) ← BigExcelWriter

## Implements

[IDisposable](#)

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### BigExcelWriter(Stream, SpreadsheetDocumentType)

Creates a document into `stream`

```
public BigExcelWriter(Stream stream, SpreadsheetDocumentType  
spreadsheetDocumentType)
```

## Parameters

`stream` [Stream](#)

Where to store the document. `MemoryStream` is recommended

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

# BigExcelWriter(Stream, SpreadsheetDocumentType, Stylesheet)

Creates a document into `stream`

```
public BigExcelWriter(Stream stream, SpreadsheetDocumentType  
spreadsheetDocumentType, Stylesheet stylesheet)
```

## Parameters

`stream` [Stream](#)

Where to store the document. `MemoryStream` is recommended

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

`stylesheet` [Stylesheet](#)

A Stylesheet for the document. See [GetStylesheet\(\)](#).

# BigExcelWriter(Stream, SpreadsheetDocumentType, bool)

Creates a document into `stream`

```
public BigExcelWriter(Stream stream, SpreadsheetDocumentType  
spreadsheetDocumentType, bool skipCellWhenEmpty)
```

## Parameters

`stream` [Stream](#)

Where to store the document. `MemoryStream` is recommended

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

`skipCellWhenEmpty` [bool](#)

When [true](#), writing an empty value to a cell moves the next cell to be written. When [false](#), writing an empty value to a cell does nothing.

## BigExcelWriter(Stream, SpreadsheetDocumentType, bool, Stylesheet)

Creates a document into `stream`

```
public BigExcelWriter(Stream stream, SpreadsheetDocumentType  
spreadsheetDocumentType, bool skipCellWhenEmpty, Stylesheet stylesheet)
```

### Parameters

`stream` [Stream](#)

Where to store the document. `MemoryStream` is recommended

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

`skipCellWhenEmpty` [bool](#)

When [true](#), writing an empty value to a cell moves the next cell to be written. When [false](#), writing an empty value to a cell does nothing.

`stylesheet` [Stylesheet](#)

A Stylesheet for the document. See [GetStylesheet\(\)](#).

## BigExcelWriter(string, SpreadsheetDocumentType)

Creates a document into a file located in `path`

```
public BigExcelWriter(string path, SpreadsheetDocumentType spreadsheetDocumentType)
```

### Parameters

`path` [string](#)

Path where the document will be saved

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

## BigExcelWriter(string, SpreadsheetDocumentType, Stylesheet)

Creates a document into a file located in `path`

```
public BigExcelWriter(string path, SpreadsheetDocumentType spreadsheetDocumentType,
    Stylesheet stylesheet)
```

### Parameters

`path` [string](#)

Path where the document will be saved

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

`stylesheet` [Stylesheet](#)

A Stylesheet for the document. See [GetStylesheet\(\)](#).

## BigExcelWriter(string, SpreadsheetDocumentType, bool)

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```
public BigExcelWriter(string path, SpreadsheetDocumentType spreadsheetDocumentType,
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### Parameters

`path` [string](#)

Path where the document will be saved

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Document type. Only `SpreadsheetDocumentType.Workbook` is tested

`skipCellWhenEmpty` [bool](#)

When [true](#), writing an empty value to a cell moves the next cell to be written. When [false](#), writing an empty value to a cell does nothing.

## BigExcelWriter(string, SpreadsheetDocumentType, bool, Stylesheet)

Creates a document into a file located in `path`

```
public BigExcelWriter(string path, SpreadsheetDocumentType spreadsheetDocumentType,
    bool skipCellWhenEmpty, Stylesheet stylesheet)
```

### Parameters

`path` [string](#)

Path where the document will be saved

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

Document type. Only `SpreadsheetDocumentType.Workbook` is tested

`skipCellWhenEmpty` [bool](#)

When [true](#), writing an empty value to a cell moves the next cell to be written. When [false](#), writing an empty value to a cell does nothing.

`stylesheet` [Stylesheet](#)

A Stylesheet for the document. See [GetStylesheet\(\)](#).

## Properties

### Document

The main document

```
public SpreadsheetDocument Document { get; }
```

Property Value

[SpreadsheetDocument](#)

## Path

Created file will be saved to: ...

(null when not saving to file)

```
public string Path { get; }
```

Property Value

[string](#)

## PrintGridLinesInCurrentSheet

When [true](#), Prints gridlines. When [false](#), Doesn't print gridlines (default).

```
public bool PrintGridLinesInCurrentSheet { get; set; }
```

Property Value

[bool](#)

Exceptions

[NoOpenSheetException](#)

When there is no open sheet

## PrintRowAndColumnHeadingsInCurrentSheet

When [true](#), Prints row and column headings. When [false](#), Doesn't print row and column headings (default).

```
public bool PrintRowAndColumnHeadingsInCurrentSheet { get; set; }
```

Property Value

[bool](#)

Exceptions

[NoOpenSheetException](#)

When there is no open sheet

## ShowGridLinesInCurrentSheet

When [true](#), shows gridlines on screen (default). When [false](#), hides gridlines on screen.

```
public bool ShowGridLinesInCurrentSheet { get; set; }
```

Property Value

[bool](#)

Exceptions

[NoOpenSheetException](#)

When there is no open sheet

## ShowRowAndColumnHeadingsInCurrentSheet

When [true](#), shows row and column headings (default). When [false](#), hides row and column headings.

```
public bool ShowRowAndColumnHeadingsInCurrentSheet { get; set; }
```



Property Value

[bool](#)

Exceptions

[NoOpenSheetException](#)

When there is no open sheet

## SkipCellWhenEmpty

When [true](#), writing an empty value to a cell moves the next cell to be written. When [false](#), writing an empty value to a cell does nothing.

```
public bool SkipCellWhenEmpty { get; set; }
```

Property Value

[bool](#)

## SpreadsheetDocumentType

Document type

only `SpreadsheetDocumentType.Workbook` is tested

```
public SpreadsheetDocumentType SpreadsheetDocumentType { get; }
```

Property Value

[SpreadsheetDocumentType](#)

## Stream

Created file will be saved to: ...

(null when not saving to Stream)

```
public Stream Stream { get; }
```

Property Value

[Stream](#)🔗

## Methods

### AddAutofilter(CellRange, bool)

Adds autofilter. Only one filter per sheet is allowed.

```
public void AddAutofilter(CellRange range, bool overwrite = false)
```

Parameters

range [CellRange](#)

Where to add the filter (header cells)

overwrite [bool](#)🔗

Replace active filter

Exceptions

[ArgumentNullException](#)🔗

Null range

[NoOpenSheetException](#)

When no open sheet

[SheetAlreadyHasFilterException](#)

When there is already a filter an `overwrite` is set to [false](#)🔗

[ArgumentOutOfRangeException](#)🔗

When range height is not exactly one row

# AddAutofilter(string, bool)

Adds autofilter. Only one filter per sheet is allowed.

```
public void AddAutofilter(string range, bool overwrite = false)
```

## Parameters

**range** [string](#)

Where to add the filter (header cells)

**overwrite** [bool](#)

Replace active filter

## Exceptions

[ArgumentNullException](#)

Null range

[NoOpenSheetException](#)

When no open sheet

[SheetAlreadyHasFilterException](#)

When there is already a filter an **overwrite** is set to [false](#)

[ArgumentOutOfRangeException](#)

When range height is not exactly one row

[InvalidRangeException](#)

When **range** is not a valid range

# AddConditionalFormattingCells(CellRange, ConditionalFormattingOperatorValues, string, int, string)

Adds conditional formatting based on cell value

```
public void AddConditionalFormattingCellIs(CellRange cellRange,  
ConditionalFormattingOperatorValues @operator, string value, int format, string  
value2 = null)
```

## Parameters

**cellRange** [CellRange](#)

Cell to apply format to

**operator** [ConditionalFormattingOperatorValues](#)

**value** [string](#)

Compare cell value to this

**format** [int](#)

Index of differential format in stylesheet. See [GetIndexDifferentialByName\(string\)](#).

**value2** [string](#)

When **operator** requires 2 parameters, compare cell value to this as second parameter

## Exceptions

[ArgumentOutOfRangeException](#)

When format is less than 0

[ArgumentNullException](#)

When **value** is [null](#) OR **operator** requires 2 arguments and **value2** is [null](#)

[NoOpenSheetException](#)

When there is no open sheet

## AddConditionalFormattingCells(string, ConditionalFormattingOperatorValues, string, int, string)

Adds conditional formatting based on cell value

```
public void AddConditionalFormattingCellIs(string reference,  
ConditionalFormattingOperatorValues @operator, string value, int format, string  
value2 = null)
```

## Parameters

**reference** [string](#)

Cell to apply format to

**operator** [ConditionalFormattingOperatorValues](#)

**value** [string](#)

Compare cell value to this

**format** [int](#)

Index of differential format in stylesheet. See [GetIndexDifferentialByName\(string\)](#).

**value2** [string](#)

When **operator** requires 2 parameters, compare cell value to this as second parameter

## Exceptions

[ArgumentOutOfRangeException](#)

When format is less than 0

[ArgumentNullException](#)

When **value** is [null](#) OR **operator** requires 2 arguments and **value2** is [null](#)

[NoOpenSheetException](#)

When there is no open sheet

[InvalidRangeException](#)

When **reference** is not a valid range

# AddConditionalFormattingDuplicatedValues(CellRange, int)

Adds conditional formatting to duplicated values

```
public void AddConditionalFormattingDuplicatedValues(CellRange cellRange,  
int format)
```

## Parameters

cellRange [CellRange](#)

Cell to apply format to

format [int](#)

Index of differential format in stylesheet. See [GetIndexDifferentialByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When format is less than 0

[NoOpenSheetException](#)

When there is no open sheet

# AddConditionalFormattingDuplicatedValues(string, int)

Adds conditional formatting to duplicated values

```
public void AddConditionalFormattingDuplicatedValues(string reference, int format)
```

## Parameters

reference [string](#)

Cell to apply format to

format [int](#)

Index of differential format in stylesheet. See [GetIndexDifferentialByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)↗

When format is less than 0

[NoOpenSheetException](#)

When there is no open sheet

[InvalidRangeException](#)

When `reference` is not a valid range

## AddConditionalFormattingFormula(CellRange, string, int)

Adds conditional formatting based on a formula

```
public void AddConditionalFormattingFormula(CellRange cellRange, string formula,
int format)
```

## Parameters

`cellRange` [CellRange](#)

Cell to apply format to

`formula` [string](#)↗

Formula. Format will be applied when this formula evaluates to true

`format` [int](#)↗

Index of differential format in stylesheet. See [GetIndexDifferentialByName\(string\)](#).

## Exceptions

[ArgumentNullException](#)↗

When formula is [null](#)↗ or empty string

### [ArgumentNullException](#)

`cellRange` is `null`.

### [ArgumentOutOfRangeException](#)

When `format` is less than 0

### [NoOpenSheetException](#)

When there is no open sheet

## AddConditionalFormattingFormula(string, string, int)

Adds conditional formatting based on a formula

```
public void AddConditionalFormattingFormula(string reference, string formula,
int format)
```

### Parameters

`reference` [string](#)

Cell to apply format to

`formula` [string](#)

Formula. Format will be applied when this formula evaluates to true

`format` [int](#)

Index of differential format in stylesheet. See [GetIndexDifferentialByName\(string\)](#).

### Exceptions

#### [ArgumentNullException](#)

When `formula` is [null](#) or empty string

#### [ArgumentOutOfRangeException](#)

When `format` is less than 0

#### [NoOpenSheetException](#)



When there is no open sheet

### [InvalidRangeException](#)

When `reference` is not a valid range

## AddDecimalValidator(CellRange, decimal, DataValidationOperatorValues, bool, bool, bool, decimal?)

Adds a decimal number validator to a range

```
public void AddDecimalValidator(CellRange range, decimal firstOperand,
DataValidationOperatorValues validationType, bool allowBlank = true, bool
showInputMessage = true, bool showErrorMessage = true, decimal? secondOperand
= null)
```

### Parameters

range [CellRange](#)

firstOperand [decimal](#) 

validationType [DataValidationOperatorValues](#) 

allowBlank [bool](#) 

showInputMessage [bool](#) 

showErrorMessage [bool](#) 

secondOperand [decimal](#) ?

### Exceptions

[ArgumentNullException](#) 

[NoOpenSheetException](#)

# AddDecimalValidator(string, decimal, DataValidationOperatorValues, bool, bool, bool, decimal?)

Adds a decimal number validator to a range

```
public void AddDecimalValidator(string range, decimal firstOperand,
DataValidationOperatorValues validationType, bool allowBlank = true, bool
showInputMessage = true, bool showErrorMessage = true, decimal? secondOperand
= null)
```

## Parameters

range [string](#) 

firstOperand [decimal](#) 

validationType [DataValidationOperatorValues](#) 

allowBlank [bool](#) 

showInputMessage [bool](#) 

showErrorMessage [bool](#) 

secondOperand [decimal](#) ?

## Exceptions

[ArgumentNullException](#) 

[NoOpenSheetException](#)

# AddIntegerValidator(CellRange, int, DataValidationOperatorValues, bool, bool, bool, int?)

Adds an integer (whole) number validator to a range

```
public void AddIntegerValidator(CellRange range, int firstOperand,
DataValidationOperatorValues validationType, bool allowBlank = true, bool
```

```
showInputMessage = true, bool showErrorMessage = true, int? secondOperand = null)
```

## Parameters

range [CellRange](#)

firstOperand [int](#)

validationType [DataValidationOperatorValues](#)

allowBlank [bool](#)

showInputMessage [bool](#)

showErrorMessage [bool](#)

secondOperand [int](#)?

## Exceptions

[ArgumentNullException](#)

[NoOpenSheetException](#)

# AddIntegerValidator(string, int, DataValidationOperatorValues, bool, bool, bool, int?)

Adds an integer (whole) number validator to a range

```
public void AddIntegerValidator(string range, int firstOperand,  
DataValidationOperatorValues validationType, bool allowBlank = true, bool  
showInputMessage = true, bool showErrorMessage = true, int? secondOperand = null)
```

## Parameters

range [string](#)

firstOperand [int](#)

validationType [DataValidationOperatorValues](#)

allowBlank [bool](#)

showInputMessage [bool](#)↗

showErrorMessage [bool](#)↗

secondOperand [int](#)↗?

## Exceptions

[ArgumentNullException](#)↗

[NoOpenSheetException](#)

# AddListValidator(CellRange, string, bool, bool, bool)

Adds a list validator to a range based on a formula

```
public void AddListValidator(CellRange range, string formula, bool allowBlank =  
true, bool showInputMessage = true, bool showErrorMessage = true)
```

## Parameters

range [CellRange](#)

Cells to validate

formula [string](#)↗

Validation formula

allowBlank [bool](#)↗

showInputMessage [bool](#)↗

showErrorMessage [bool](#)↗

## Exceptions

[ArgumentNullException](#)↗

When `range` is null

[NoOpenSheetException](#)

When there is no open sheet

## AddListValidator(string, string, bool, bool, bool)

Adds a list validator to a range based on a formula

```
public void AddListValidator(string range, string formula, bool allowBlank = true,
    bool showInputMessage = true, bool showErrorMessage = true)
```

### Parameters

range [string](#)

Cells to validate

formula [string](#)

Validation formula

allowBlank [bool](#)

showInputMessage [bool](#)

showErrorMessage [bool](#)

### Exceptions

[ArgumentNullException](#)

When `range` is null

[NoOpenSheetException](#)

When there is no open sheet

[InvalidRangeException](#)

When `range` is not a valid range

## BeginRow()

Creates a new row

```
public void BeginRow()
```

## Exceptions

### [NoOpenSheetException](#)

If there is no open sheet

### [RowAlreadyOpenException](#)

If already inside a row

## BeginRow(bool)

Creates a new row

```
public void BeginRow(bool hidden)
```

## Parameters

hidden [bool](#)

Hides the row when [true](#)

## Exceptions

### [NoOpenSheetException](#)

If there is no open sheet

### [RowAlreadyOpenException](#)

If already inside a row

## BeginRow(int)

Creates a new row

```
public void BeginRow(int rownum)
```

## Parameters

`rownum` [int](#)

Row index

## Exceptions

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[OutOfOrderWritingException](#)

If attempting to write rows out of order

## BeginRow(int, bool)

Creates a new row

```
public void BeginRow(int rownum, bool hidden)
```

## Parameters

`rownum` [int](#)

Row index

`hidden` [bool](#)

Hides the row when [true](#)

## Exceptions

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

### [OutOfOrderWritingException](#)

If attempting to write rows out of order

## CloseDocument()

Closes the document

```
public void CloseDocument()
```

## CloseSheet()

Closes a sheet

```
public void CloseSheet()
```

## Exceptions

### [NoOpenSheetException](#)

When there is no open sheet

## Comment(string, CellRange, string)

Adds a comment to a cell

```
public void Comment(string text, CellRange cellRange, string author  
= "BigExcelCreator")
```

## Parameters

text [string](#)<sup>↗</sup>

Comment text

cellRange [CellRange](#)



Commented cell

author [string](#)

Comment Author

## Exceptions

[ArgumentOutOfRangeException](#)

When `author` is null or an empty string OR `cellRange` is not a single cell

[NoOpenSheetException](#)

When there is no open sheet

[ArgumentNullException](#)

`cellRange` is null.

## Comment(string, string, string)

Adds a comment to a cell

```
public void Comment(string text, string reference, string author  
= "BigExcelCreator")
```

## Parameters

text [string](#)

Comment text

reference [string](#)

Commented cell

author [string](#)

Comment Author

## Exceptions

### [ArgumentOutOfRangeException](#)

When `author` is null or an empty string OR `reference` is not a single cell

### [NoOpenSheetException](#)

When there is no open sheet

### [InvalidRangeException](#)

When `reference` is not a valid range

## CreateAndOpenSheet(string)

Creates a new sheet and prepares the writer to use it.

```
public void CreateAndOpenSheet(string name)
```

### Parameters

`name` [string](#)

Names the sheet

### Exceptions

#### [SheetAlreadyOpenException](#)

When a sheet is already open

## CreateAndOpenSheet(string, SheetStateValues)

Creates a new sheet and prepares the writer to use it.

```
public void CreateAndOpenSheet(string name, SheetStateValues sheetState)
```

### Parameters

`name` [string](#)

Names the sheet

sheetState [SheetStateValues](#)

Sets sheet visibility. `SheetStateValues.Visible` to list the sheet. `SheetStateValues.Hidden` to hide it. `SheetStateValues.VeryHidden` to hide it and prevent unhiding from the GUI.

## Exceptions

[SheetAlreadyOpenException](#)

When a sheet is already open

## CreateAndOpenSheet(string, IList<Column>)

Creates a new sheet and prepares the writer to use it.

```
public void CreateAndOpenSheet(string name, IList<Column> columns)
```

## Parameters

name [string](#)

Names the sheet

columns [IList](#) <[Column](#)>

Use this to set the columns' width

## Exceptions

[SheetAlreadyOpenException](#)

When a sheet is already open

## CreateAndOpenSheet(string, IList<Column>, SheetStateValues)

Creates a new sheet and prepares the writer to use it.

```
public void CreateAndOpenSheet(string name, IList<Column> columns,
SheetStateValues sheetState)
```

## Parameters

name [string](#)

Names the sheet

columns [IList](#) <[Column](#)>

Use this to set the columns' width

sheetState [SheetStateValues](#)

Sets sheet visibility. [SheetStateValues.Visible](#) to list the sheet. [SheetStateValues.Hidden](#) to hide it. [SheetStateValues.VeryHidden](#) to hide it and prevent unhiding from the GUI.

## Exceptions

[SheetAlreadyOpenException](#)

When a sheet is already open

## Dispose()

Saves and closes the document.

```
public void Dispose()
```

## Dispose(bool)

Saves and closes the document.

```
protected virtual void Dispose(bool disposing)
```

## Parameters

disposing [bool](#)

# EndRow()

Closes a row

```
public void EndRow()
```

## Exceptions

[NoOpenRowException](#)

When there is no open row

# ~BigExcelWriter()

The finalizer

```
protected ~BigExcelWriter()
```

# MergeCells(CellRange)

Merges cells

```
public void MergeCells(CellRange range)
```

## Parameters

range [CellRange](#)

Cells to merge

## Exceptions

[ArgumentNullException](#) 

When range is [null](#) 

## [NoOpenSheetException](#)

When there is no open sheet

## [OverlappingRangesException](#)

When trying to merge already merged cells

# MergeCells(string)

Merges cells

```
public void MergeCells(string range)
```

## Parameters

range [string](#)<sup>↗</sup>

Cells to merge

## Exceptions

### [InvalidRangeException](#)

When `range` is not a valid range

### [NoOpenSheetException](#)

When there is no open sheet

### [OverlappingRangesException](#)

When trying to merge already merged cells

# WriteFormulaCell(string, int)

Writes a formula to a cell

```
public void WriteFormulaCell(string formula, int format = 0)
```

## Parameters

**formula** [string](#)

formula to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When **format** is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteFormulaRow(IEnumerable<string>, int, bool)

Writes an entire formula row at once

```
public void WriteFormulaRow(IEnumerable<string> formulas, int format = 0, bool  
hidden = false)
```

## Parameters

**formulas** [IEnumerable](#) <[string](#)>

List of formulas to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Hides the row when [true](#)

## Exceptions

### [ArgumentNullException](#)

When list is [null](#)

### [NoOpenSheetException](#)

If there is no open sheet

### [RowAlreadyOpenException](#)

If already inside a row

### [ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteNumberCell(byte, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(byte number, int format = 0)
```

### Parameters

`number` [byte](#)

value to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

### Exceptions

#### [ArgumentOutOfRangeException](#)

When `format` is less than 0

#### [NoOpenRowException](#)

When there is no open row



## WriteNumberCell(decimal, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(decimal number, int format = 0)
```

### Parameters

number [decimal](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

### Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(double, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(double number, int format = 0)
```

### Parameters

number [double](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(short, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(short number, int format = 0)
```

### Parameters

`number` [short](#)

value to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(int, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(int number, int format = 0)
```

## Parameters

number [int](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(long, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(long number, int format = 0)
```

## Parameters

number [long](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(sbyte, int)

Writes a numerical value to a cell

```
[CLSCompliant(false)]
```

```
public void WriteNumberCell(sbyte number, int format = 0)
```

### Parameters

number [sbyte](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

### Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(float, int)

Writes a numerical value to a cell

```
public void WriteNumberCell(float number, int format = 0)
```

### Parameters

number [float](#)

value to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberCell(ushort, int)

Writes a numerical value to a cell

```
[CLSCompliant(false)]  
public void WriteNumberCell(ushort number, int format = 0)
```

## Parameters

`number` [ushort](#)

value to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

# WriteNumberCell(uint, int)

Writes a numerical value to a cell

```
[CLSCompliant(false)]  
public void WriteNumberCell(uint number, int format = 0)
```

## Parameters

number [uint](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

# WriteNumberCell(ulong, int)

Writes a numerical value to a cell

```
[CLSCompliant(false)]  
public void WriteNumberCell(ulong number, int format = 0)
```

## Parameters

number [ulong](#)

value to be written

format [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteNumberRow(IEnumerable<byte>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<byte> numbers, int format = 0, bool hidden = false)
```

## Parameters

`numbers` [IEnumerable](#) <[byte](#)>

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

## [RowAlreadyOpenException](#)

If already inside a row

## [ArgumentOutOfRangeException](#)

When `format` is less than 0

# WriteNumberRow(IEnumerable<decimal>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<decimal> numbers, int format = 0, bool hidden = false)
```

## Parameters

`numbers` [IEnumerable](#) <[decimal](#)>

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

## Exceptions

### [ArgumentNullException](#)

When list is [null](#)

### [NoOpenSheetException](#)

If there is no open sheet

### [RowAlreadyOpenException](#)

If already inside a row

### [ArgumentOutOfRangeException](#)



When `format` is less than 0

## WriteNumberRow(IEnumerable<double>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<double> numbers, int format = 0, bool hidden = false)
```

### Parameters

`numbers` [IEnumerable<double>](#)

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

### Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteNumberRow(IEnumerable<short>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<short> numbers, int format = 0, bool hidden = false)
```

## Parameters

**numbers** [IEnumerable<short>](#)

Lists of values to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When **format** is less than 0

## WriteNumberRow(IEnumerable<int>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<int> numbers, int format = 0, bool hidden = false)
```

## Parameters

**numbers** [IEnumerable](#) <[int](#)>

Lists of values to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When **format** is less than 0

## WriteNumberRow(IEnumerable<long>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<long> numbers, int format = 0, bool hidden = false)
```

## Parameters

**numbers** [IEnumerable](#) <[long](#)>

Lists of values to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When **format** is less than 0

## WriteNumberRow(IEnumerable<sbyte>, int, bool)

Writes an entire numerical row at once

```
[CLSCompliant(false)]
```

```
public void WriteNumberRow(IEnumerable<sbyte> numbers, int format = 0, bool hidden  
= false)
```

## Parameters

**numbers** [IEnumerable](#) <[sbyte](#)>

Lists of values to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteNumberRow(IEnumerable<float>, int, bool)

Writes an entire numerical row at once

```
public void WriteNumberRow(IEnumerable<float> numbers, int format = 0, bool hidden = false)
```

## Parameters

`numbers` [IEnumerable](#) <[float](#)>

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteNumberRow(IEnumerable<ushort>, int, bool)

Writes an entire numerical row at once

```
[CLSCompliant(false)]  
public void WriteNumberRow(IEnumerable<ushort> numbers, int format = 0, bool hidden  
= false)
```

## Parameters

`numbers` [IEnumerable](#) <[ushort](#)>

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

#### [NoOpenSheetException](#)

If there is no open sheet

#### [RowAlreadyOpenException](#)

If already inside a row

#### [ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteNumberRow(IEnumerable<uint>, int, bool)

Writes an entire numerical row at once

```
[CLSCompliant(false)]
```

```
public void WriteNumberRow(IEnumerable<uint> numbers, int format = 0, bool hidden  
= false)
```

### Parameters

`numbers` [IEnumerable](#) <[uint](#)>

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

### Exceptions

#### [ArgumentNullException](#)

When list is [null](#)

#### [NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteNumberRow(IEnumerable<ulong>, int, bool)

Writes an entire numerical row at once

```
[CLSCompliant(false)]  
public void WriteNumberRow(IEnumerable<ulong> numbers, int format = 0, bool hidden  
= false)
```

### Parameters

`numbers` [IEnumerable](#) <[ulong](#)>

Lists of values to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Hides the row when [true](#)

### Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)



If already inside a row

[ArgumentOutOfRangeException](#)

When `format` is less than 0

## WriteTextCell(string, int, bool)

Writes a string to a cell

```
public void WriteTextCell(string text, int format = 0, bool useSharedStrings  
= false)
```

### Parameters

`text` [string](#)

value to be written

`format` [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

`useSharedStrings` [bool](#)

Write the value to the shared strings table. This might help reduce the output file size when the same text is shared multiple times among sheets.

### Exceptions

[ArgumentOutOfRangeException](#)

When `format` is less than 0

[NoOpenRowException](#)

When there is no open row

## WriteTextRow(IEnumerable<string>, int, bool, bool)

Writes an entire text row at once

```
public void WriteTextRow(IEnumerable<string> texts, int format = 0, bool hidden = false, bool useSharedStrings = false)
```

## Parameters

**texts** [IEnumerable](#) <[string](#)>

List of values to be written

**format** [int](#)

Format index inside stylesheet. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Hides the row when [true](#)

**useSharedStrings** [bool](#)

Write the value to the shared strings table. This might help reduce the output file size when the same text is shared multiple times among sheets.

## Exceptions

[ArgumentNullException](#)

When list is [null](#)

[NoOpenSheetException](#)

If there is no open sheet

[RowAlreadyOpenException](#)

If already inside a row

[ArgumentOutOfRangeException](#)

When **format** is less than 0

# Namespace BigExcelCreator.Exceptions

## Classes

### [NoOpenRowException](#)

When attempting to write to a row when there is none open

### [NoOpenSheetException](#)

When attempting to write to a sheet when there is none open

### [OutOfOrderWritingException](#)

When attempting to write to a previous row / a row before another already written to

### [RowAlreadyOpenException](#)

When attempting to open a row when there is another already open

### [SheetAlreadyHasFilterException](#)

When attempting to create a filter to a sheet that already has one, without indicating to overwrite the old one

### [SheetAlreadyOpenException](#)

When attempting to open a sheet when there is another already open

# Class NoOpenRowException

Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

When attempting to write to a row when there is none open

[Serializable]

```
public class NoOpenRowException : InvalidOperationException, ISerializable
```

## Inheritance

[object](#) < [Exception](#) < [SystemException](#) < [InvalidOperationException](#) <

NoOpenRowException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,  
[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,  
[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### NoOpenRowException()

The constructor for NoOpenRowException

```
public NoOpenRowException()
```

### NoOpenRowException(SerializationInfo, StreamingContext)

The constructor for NoOpenRowException

```
protected NoOpenRowException(SerializationInfo serializationInfo,  
    StreamingContext streamingContext)
```

Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

## NoOpenRowException(string)

The constructor for NoOpenRowException

```
public NoOpenRowException(string message)
```

Parameters

message [string](#)↗

## NoOpenRowException(string, Exception)

The constructor for NoOpenRowException

```
public NoOpenRowException(string message, Exception innerException)
```

Parameters

message [string](#)↗

innerException [Exception](#)↗

# Class NoOpenSheetException

Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

When attempting to write to a sheet when there is none open

[Serializable]

```
public class NoOpenSheetException : InvalidOperationException, ISerializable
```

## Inheritance

[object](#) < [Exception](#) < [SystemException](#) < [InvalidOperationException](#) < [NoOpenSheetException](#)

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,  
[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,  
[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### NoOpenSheetException()

The constructor for NoOpenSheetException

```
public NoOpenSheetException()
```

### NoOpenSheetException(SerializationInfo, StreamingContext)

The constructor for NoOpenSheetException

```
protected NoOpenSheetException(SerializationInfo serializationInfo,  
    StreamingContext streamingContext)
```

Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

## NoOpenSheetException(string)

The constructor for NoOpenSheetException

```
public NoOpenSheetException(string message)
```

Parameters

message [string](#)↗

## NoOpenSheetException(string, Exception)

The constructor for NoOpenSheetException

```
public NoOpenSheetException(string message, Exception innerException)
```

Parameters

message [string](#)↗

innerException [Exception](#)↗

# Class OutOfOrderWritingException

Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

When attempting to write to a previous row / a row before another already written to

[Serializable]

```
public class OutOfOrderWritingException : InvalidOperationException, ISerializable
```

## Inheritance

[object](#) < [Exception](#) < [SystemException](#) < [InvalidOperationException](#) < [OutOfOrderWritingException](#)

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,

[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,

[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,

[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,

[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,

[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### OutOfOrderWritingException()

The constructor for OutOfOrderWritingException

```
public OutOfOrderWritingException()
```

### OutOfOrderWritingException(SerializationInfo, StreamingContext)



The constructor for `OutOfOrderWritingException`

```
protected OutOfOrderWritingException(SerializationInfo serializationInfo,  
    StreamingContext streamingContext)
```

Parameters

`serializationInfo` [SerializationInfo](#)↗

`streamingContext` [StreamingContext](#)↗

## OutOfOrderWritingException(string)

The constructor for `OutOfOrderWritingException`

```
public OutOfOrderWritingException(string message)
```

Parameters

`message` [string](#)↗

## OutOfOrderWritingException(string, Exception)

The constructor for `OutOfOrderWritingException`

```
public OutOfOrderWritingException(string message, Exception innerException)
```

Parameters

`message` [string](#)↗

`innerException` [Exception](#)↗

# Class RowAlreadyOpenException

Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

When attempting to open a row when there is another already open

[Serializable]

```
public class RowAlreadyOpenException : InvalidOperationException, ISerializable
```

## Inheritance

[object](#) < [Exception](#) < [SystemException](#) < [InvalidOperationException](#) <

RowAlreadyOpenException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,

[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,

[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,

[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,

[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,

[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### RowAlreadyOpenException()

The constructor for RowAlreadyOpenException

```
public RowAlreadyOpenException()
```

### RowAlreadyOpenException(SerializationInfo, StreamingContext)

The constructor for RowAlreadyOpenException

```
protected RowAlreadyOpenException(SerializationInfo serializationInfo,  
    StreamingContext streamingContext)
```

Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

## RowAlreadyOpenException(string)

The constructor for RowAlreadyOpenException

```
public RowAlreadyOpenException(string message)
```

Parameters

message [string](#)↗

## RowAlreadyOpenException(string, Exception)

The constructor for RowAlreadyOpenException

```
public RowAlreadyOpenException(string message, Exception innerException)
```

Parameters

message [string](#)↗

innerException [Exception](#)↗

# Class SheetAlreadyHasFilterException

Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

When attempting to create a filter to a sheet that already has one, without indicating to overwrite the old one

```
[Serializable]  
public class SheetAlreadyHasFilterException : InvalidOperationException,  
ISerializable
```

## Inheritance



















[object](#)  ← [Exception](#)  ← [SystemException](#)  ← [InvalidOperationException](#)  ←

SheetAlreadyHasFilterException

## Implements

[ISerializable](#) 

## Inherited Members

[Exception.GetBaseException\(\)](#) ,  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,  
[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,  
[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) 

## Constructors

### SheetAlreadyHasFilterException()

The constructor for SheetAlreadyHasFilterException

```
public SheetAlreadyHasFilterException()
```

# SheetAlreadyHasFilterException(SerializationInfo, StreamingContext)

The constructor for SheetAlreadyHasFilterException

```
protected SheetAlreadyHasFilterException(SerializationInfo serializationInfo,  
StreamingContext streamingContext)
```

## Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

# SheetAlreadyHasFilterException(string)

The constructor for SheetAlreadyHasFilterException

```
public SheetAlreadyHasFilterException(string message)
```

## Parameters

message [string](#)↗

# SheetAlreadyHasFilterException(string, Exception)

The constructor for SheetAlreadyHasFilterException

```
public SheetAlreadyHasFilterException(string message, Exception innerException)
```

## Parameters

message [string](#)↗

innerException [Exception](#)↗

# Class SheetAlreadyOpenException

Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

When attempting to open a sheet when there is another already open

[Serializable]

```
public class SheetAlreadyOpenException : InvalidOperationException, ISerializable
```

## Inheritance

[object](#) < [Exception](#) < [SystemException](#) < [InvalidOperationException](#) <

SheetAlreadyOpenException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,  
[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,  
[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### SheetAlreadyOpenException()

The constructor for SheetAlreadyOpenException

```
public SheetAlreadyOpenException()
```

### SheetAlreadyOpenException(SerializationInfo, StreamingContext)

The constructor for SheetAlreadyOpenException

```
protected SheetAlreadyOpenException(SerializationInfo serializationInfo,  
StreamingContext streamingContext)
```

Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

## SheetAlreadyOpenException(string)

The constructor for SheetAlreadyOpenException

```
public SheetAlreadyOpenException(string message)
```

Parameters

message [string](#)↗

## SheetAlreadyOpenException(string, Exception)

The constructor for SheetAlreadyOpenException

```
public SheetAlreadyOpenException(string message, Exception innerException)
```

Parameters

message [string](#)↗

innerException [Exception](#)↗

# Namespace BigExcelCreator.Ranges

## Classes

### [CellRange](#)

Range in Excel spreadsheets

### [InvalidRangeException](#)

When unable to parse a range from a string or a range is not valid

### [OverlappingRangesException](#)

When 2 or more ranges overlaps one another



# Class CellRange

Namespace: [BigExcelCreator.Ranges](#)

Assembly: BigExcelCreator.dll

Range in Excel spreadsheets

```
public class CellRange : IEquatable<CellRange>, IComparable<CellRange>
```

## Inheritance

[object](#) ← CellRange

## Implements

[IEquatable](#) <[CellRange](#)>, [IComparable](#) <[CellRange](#)>

## Inherited Members

[object.Equals\(object, object\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#),  
[object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

## Constructors

CellRange(int?, bool, int?, bool, int?, bool, int?, bool, string)

Creates a range using coordinates indexes

```
public CellRange(int? startingColumn, bool fixedStartingColumn, int? startingRow,  
bool fixedStartingRow, int? endingColumn, bool fixedEndingColumn, int? endingRow,  
bool fixedEndingRow, string sheetname)
```

## Parameters

startingColumn [int](#)?

fixedStartingColumn [bool](#)

startingRow [int](#)?

fixedStartingRow [bool](#)

endingColumn [int?](#)

fixedEndingColumn [bool](#)

endingRow [int?](#)

fixedEndingRow [bool](#)

sheetname [string](#)

## Exceptions

[ArgumentOutOfRangeException](#)

If any index is less than 1

[InvalidRangeException](#)

If a range makes no sense

## CellRange(int?, bool, int?, bool, string)

Creates a fixed single cell range using coordinates indexes

```
public CellRange(int? column, bool fixedColumn, int? row, bool fixedRow,
string sheetname)
```

## Parameters

column [int?](#)

fixedColumn [bool](#)

row [int?](#)

fixedRow [bool](#)

sheetname [string](#)

## Exceptions

[ArgumentOutOfRangeException](#)

If any index is less than 1

[InvalidRangeException](#)

If a range makes no sense

## CellRange(int?, int?, int?, int?, string)

Creates a range using coordinates indexes

```
public CellRange(int? startingColumn, int? startingRow, int? endingColumn, int? endingRow, string sheetname)
```

### Parameters

startingColumn [int?](#)

startingRow [int?](#)

endingColumn [int?](#)

endingRow [int?](#)

sheetname [string](#)

### Exceptions

[ArgumentOutOfRangeException](#)

If any index is less than 1

[InvalidRangeException](#)

If a range makes no sense

## CellRange(int?, int?, string)

Creates a single cell range using coordinates indexes

```
public CellRange(int? column, int? row, string sheetname)
```

## Parameters

column [int](#)?

row [int](#)?

sheetname [string](#)

## Exceptions

[ArgumentOutOfRangeException](#)

If any index is less than 1

[InvalidRangeException](#)

If a range makes no sense

## CellRange(string)

Parses a [string](#) into a range

```
public CellRange(string range)
```

## Parameters

range [string](#)

## Exceptions

[ArgumentNullException](#)

If `range` is null

[ArgumentOutOfRangeException](#)

If any index is less than 1

[InvalidRangeException](#)

If a range makes no sense

# Properties

## EndingColumn

Index of the range's last column

```
public int? EndingColumn { get; }
```

Property Value

[int](#)?

## EndingColumnIsFixed

[true](#) if the ending column is fixed

Represented by '\$' in the string representation

```
public bool EndingColumnIsFixed { get; }
```

Property Value

[bool](#)

## EndingRow

Index of the range's last row

```
public int? EndingRow { get; }
```

Property Value

[int](#)?

## EndingRowIsFixed

[true](#) if the ending row is fixed

Represented by '\$' in the string representation

```
public bool EndingRowIsFixed { get; }
```

Property Value

[bool](#)

## Height


Range's height

```
public int Height { get; }
```

Property Value

[int](#)

## IsInfiniteCellRange


[true](#) if the range is infinite in any direction

```
public bool IsInfiniteCellRange { get; }
```

Property Value

[bool](#)

## IsInfiniteCellRangeCol

[true](#) if the range is infinite in any column

```
public bool IsInfiniteCellRangeCol { get; }
```

Property Value

[bool](#)

## IsInfiniteCellRangeRow

[true](#) if the range is infinite in any row

```
public bool IsInfiniteCellRangeRow { get; }
```

Property Value

[bool](#)

## IsSingleCellRange

[true](#) if the range represents a single column

```
public bool IsSingleCellRange { get; }
```

Property Value

[bool](#)

## RangeString

A [string](#) representing a range with the sheet's name (if available)

```
public string RangeString { get; }
```

Property Value

[string](#)

## RangeStringNoSheetName

A [string](#) representing a range without the sheet's name

```
public string RangeStringNoSheetName { get; }
```

Property Value

[string](#)

## Sheetname

The name of the range's sheet (if available)

```
public string Sheetname { get; set; }
```

Property Value

[string](#)

## StartingColumn

Index of the range's first column

```
public int? StartingColumn { get; }
```

Property Value

[int](#)?

## StartingColumnIsFixed

[true](#) if the starting column is fixed

Represented by '\$' in the string representation

```
public bool StartingColumnIsFixed { get; }
```

Property Value



[bool](#)

## StartingRow

Index of the range's first row

```
public int? StartingRow { get; }
```

Property Value

[int](#)?

## StartingRowIsFixed

[true](#) if the starting row is fixed

Represented by '\$' in the string representation

```
public bool StartingRowIsFixed { get; }
```

Property Value

[bool](#)

## Width

Range's width

```
public int Width { get; }
```

Property Value

[int](#)

## Methods

# CompareTo(CellRange)

Comparison method

```
public int CompareTo(CellRange other)
```

Parameters

other [CellRange](#)

Another range

Returns

[int](#)

See [CompareTo\(object\)](#)

# Equals(CellRange)

Range equals

```
public virtual bool Equals(CellRange other)
```

Parameters

other [CellRange](#)

Another range

Returns

[bool](#)

[true](#) if ranges are equal. [false](#) otherwise.

# Equals(object)

Range equals

```
public override bool Equals(object obj)
```

## Parameters

**obj** [object](#)

Another range

## Returns

[bool](#)

[true](#) if ranges are equal. [false](#) otherwise.

## GetHashCode()

Returns the hash code for this range

```
public override int GetHashCode()
```

## Returns

[int](#)

## RangeOverlaps(CellRange)

Compares ranges and returns [true](#) if they share any cell

```
public bool RangeOverlaps(CellRange other)
```

## Parameters

**other** [CellRange](#)

## Returns

[bool](#)

## Exceptions

[ArgumentNullException](#) 

## Operators

### operator ==(CellRange, CellRange)

The equality operator

```
public static bool operator ==(CellRange left, CellRange right)
```

Parameters

left [CellRange](#)

right [CellRange](#)

Returns

[bool](#) 

### operator >(CellRange, CellRange)

The greater than operator

```
public static bool operator >(CellRange left, CellRange right)
```

Parameters

left [CellRange](#)

right [CellRange](#)

Returns

[bool](#) 

## operator >=(CellRange, CellRange)

The greater or equal than operator

```
public static bool operator >=(CellRange left, CellRange right)
```

Parameters

left [CellRange](#)

right [CellRange](#)

Returns

[bool](#)

## operator !=(CellRange, CellRange)

The inequality operator

```
public static bool operator !=(CellRange left, CellRange right)
```

Parameters

left [CellRange](#)

right [CellRange](#)

Returns

[bool](#)

## operator <(CellRange, CellRange)

The less than operator

```
public static bool operator <(CellRange left, CellRange right)
```

Parameters

left [CellRange](#)

right [CellRange](#)

Returns

[bool](#)

## operator <=(CellRange, CellRange)

The less or equal than operator

```
public static bool operator <=(CellRange left, CellRange right)
```

Parameters

left [CellRange](#)

right [CellRange](#)

Returns

[bool](#)

# Class InvalidRangeException

Namespace: [BigExcelCreator.Ranges](#)

Assembly: BigExcelCreator.dll

When unable to parse a range from a string or a range is not valid

```
[Serializable]  
public class InvalidRangeException : Exception, ISerializable
```

## Inheritance

[object](#) ← [Exception](#) ← InvalidRangeException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,  
[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,  
[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### InvalidRangeException()

Constructor for InvalidRangeException

```
public InvalidRangeException()
```

### InvalidRangeException(SerializationInfo, StreamingContext)

Constructor for InvalidRangeException

```
protected InvalidRangeException(SerializationInfo serializationInfo,  
    StreamingContext streamingContext)
```

## Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

## InvalidRangeException(string)

Constructor for InvalidRangeException

```
public InvalidRangeException(string message)
```

## Parameters

message [string](#)↗

## InvalidRangeException(string, Exception)

Constructor for InvalidRangeException

```
public InvalidRangeException(string message, Exception innerException)
```

## Parameters

message [string](#)↗

innerException [Exception](#)↗



# Class OverlappingRangesException

Namespace: [BigExcelCreator.Ranges](#)

Assembly: BigExcelCreator.dll

When 2 or more ranges overlaps one another

[Serializable]

```
public class OverlappingRangesException : Exception, ISerializable
```

## Inheritance

[object](#) ← [Exception](#) ← OverlappingRangesException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) ,  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) , [Exception.GetType\(\)](#) ,  
[Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) , [Exception.HResult](#) ,  
[Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Constructors

### OverlappingRangesException()

The constructor for OverlappingRangesException

```
public OverlappingRangesException()
```

### OverlappingRangesException(SerializationInfo, StreamingContext)

The constructor for OverlappingRangesException

```
protected OverlappingRangesException(SerializationInfo serializationInfo,  
StreamingContext streamingContext)
```

## Parameters

serializationInfo [SerializationInfo](#)↗

streamingContext [StreamingContext](#)↗

## OverlappingRangesException(string)

The constructor for OverlappingRangesException

```
public OverlappingRangesException(string message)
```

## Parameters

message [string](#)↗

## OverlappingRangesException(string, Exception)

The constructor for OverlappingRangesException

```
public OverlappingRangesException(string message, Exception innerException)
```

## Parameters

message [string](#)↗

innerException [Exception](#)↗

# Namespace BigExcelCreator.Styles

## Classes

### [DifferentialStyleElement](#)

A style to be converted to an entry of a stylesheet.

Used in conditional formatting

### [StyleElement](#)

A style to be converted to an entry of a stylesheet

### [StyleList](#)

Manages styles and generates stylesheets

# Class DifferentialStyleElement

Namespace: [BigExcelCreator.Styles](#)

Assembly: BigExcelCreator.dll

A style to be converted to an entry of a stylesheet.








Used in conditional formatting

```
public class DifferentialStyleElement
```

## Inheritance

[object](#)  ← DifferentialStyleElement

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

## Properties

### Alignment

A [Alignment](#) to overwrite when the differential format is applied

```
public Alignment Alignment { get; }
```

### Property Value

[Alignment](#) 

### Border

A [Border](#) to overwrite when the differential format is applied

```
public Border Border { get; }
```

Property Value

[Border](#)

## DifferentialFormat

A [DifferentialFormat](#) representing this style

```
public DifferentialFormat DifferentialFormat { get; }
```

Property Value

[DifferentialFormat](#)

## Fill

A [Fill](#) to overwrite when the differential format is applied

```
public Fill Fill { get; }
```

Property Value

[Fill](#)

## Font

A [Font](#) to overwrite when the differential format is applied

```
public Font Font { get; }
```

Property Value

[Font](#)

## Name

Given name of a differential style

```
public string Name { get; }
```

Property Value

[string](#)

## NumberingFormat

A [NumberingFormat](#) to overwrite when the differential format is applied

```
public NumberingFormat NumberingFormat { get; }
```

Property Value

[NumberingFormat](#)

# Class StyleElement

Namespace: [BigExcelCreator.Styles](#)

Assembly: BigExcelCreator.dll

A style to be converted to an entry of a stylesheet

```
public class StyleElement
```

## Inheritance

[object](#)  ← StyleElement

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,  
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,  
[object.ToString\(\)](#) 

## Constructors

### StyleElement(string, int?, int?, int?, int?, Alignment)

The constructor for StyleElement

```
public StyleElement(string name, int? fontIndex, int? fillIndex, int? borderIndex,  
int? numberFormatIndex, Alignment alignment)
```

## Parameters

name [string](#) 

fontIndex [int](#) ?

fillIndex [int](#) ?

borderIndex [int](#) ?

numberFormatIndex [int](#) ?

alignment [Alignment](#) 

# Properties

## BorderIndex

Border index in the border list of [StyleList](#)

```
public int BorderIndex { get; }
```

Property Value

[int](#)

## FillIndex

Fill index in the fill list of [StyleList](#)

```
public int FillIndex { get; }
```

Property Value

[int](#)

## FontIndex

Font index in the font list of [StyleList](#)

```
public int FontIndex { get; }
```

Property Value

[int](#)

## Name

Given name of a style



```
public string Name { get; }
```

Property Value

[string](#)

## NumberFormatIndex

NumberFormat index in the Number format list of [StyleList](#)

```
public int NumberFormatIndex { get; }
```

Property Value

[int](#)

## Style

A [CellFormat](#) object representing a style

```
public CellFormat Style { get; }
```

Property Value

[CellFormat](#)

# Class StyleList

Namespace: [BigExcelCreator.Styles](#)

Assembly: BigExcelCreator.dll

Manages styles and generates stylesheets

```
public class StyleList
```

## Inheritance

[object](#)  ← StyleList

## Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  ,  
[object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  ,  
[object.ToString\(\)](#) 

## Constructors

### StyleList()

Creates a style list and populates with default styles

```
public StyleList()
```

## Properties

### DifferentialStyleElements

Differential styles.

Used in COnditional formatting

```
public IList<DifferentialStyleElement> DifferentialStyleElements { get; }
```

## Property Value

[IList](#) <[DifferentialStyleElement](#)>

## Styles

Main styles

```
public IList<StyleElement> Styles { get; }
```

Property Value

[IList](#) <[StyleElement](#)>

## Methods

### GetIndexByName(string)

Gets the index of a named style

```
public int GetIndexByName(string name)
```

Parameters

name [string](#)

Style to look for

Returns

[int](#)

### GetIndexByName(string, out StyleElement)

Gets the index of a named style

```
public int GetIndexByName(string name, out StyleElement styleElement)
```

## Parameters

name [string](#)

Style to look for

styleElement [StyleElement](#)

A copy of the found style

## Returns

[int](#)

## GetIndexDifferentialByName(string)

Gets the index of a named differential style

```
public int GetIndexDifferentialByName(string name)
```

## Parameters

name [string](#)

Style to look for

## Returns

[int](#)

## GetIndexDifferentialByName(string, out DifferentialStyleElement)

Gets the index of a named differential style

```
public int GetIndexDifferentialByName(string name, out DifferentialStyleElement differentialStyleElement)
```

## Parameters

name [string](#)

Style to look for

differentialStyleElement [DifferentialStyleElement](#)

A copy of the found style

Returns

[int](#)

## GetStylesheet()

Generates a [Stylesheet](#) to include in an Excel document

```
public Stylesheet GetStylesheet()
```

Returns

[Stylesheet](#)

[Stylesheet](#): A stylesheet

## NewDifferentialStyle(string, Font, Fill, Border, NumberingFormat, Alignment)

Generates, stores and returns a new differential style

```
public DifferentialStyleElement NewDifferentialStyle(string name, Font font = null,
Fill fill = null, Border border = null, NumberingFormat numberingFormat = null,
Alignment alignment = null)
```

Parameters

name [string](#)

A unique name to find the inserted style later

font [Font](#)

[Font](#)

fill [Fill](#)

[Fill](#)

border [Border](#)

[Border](#)

numberingFormat [NumberingFormat](#)

[NumberingFormat](#)

alignment [Alignment](#)

[Alignment](#)

Returns

[DifferentialStyleElement](#)

The [DifferentialStyleElement](#) generated

## NewStyle(Font, Fill, Border, NumberingFormat, Alignment, string)

Generates, stores and returns a new style

```
public StyleElement NewStyle(Font font, Fill fill, Border border, NumberingFormat  
numberingFormat, Alignment alignment, string name)
```

Parameters

font [Font](#)

[Font](#)

fill [Fill](#)

[Fill](#)

border [Border](#)

[Border](#)

numberingFormat [NumberingFormat](#)

[NumberingFormat](#)

alignment [Alignment](#)

[Alignment](#)

name [string](#)

A unique name to find the inserted style later

Returns

[StyleElement](#)

The [StyleElement](#) generated

## NewStyle(Font, Fill, Border, NumberingFormat, string)

Generates, stores and returns a new style

```
public StyleElement NewStyle(Font font, Fill fill, Border border, NumberingFormat  
numberingFormat, string name)
```

Parameters

font [Font](#)

[Font](#)

fill [Fill](#)

[Fill](#)

border [Border](#)

[Border](#)

numberingFormat [NumberingFormat](#)

[NumberingFormat](#)

name [string](#)

A unique name to find the inserted style later

Returns

[StyleElement](#)

The [StyleElement](#) generated

## NewStyle(int?, int?, int?, int?, Alignment, string)

Generates, stores and returns a new style.

If the inserted indexes don't exist when the stylesheet is generated, the file might fail to open

To avoid such problems, use [NewStyle\(Font, Fill, Border, NumberingFormat, string\)](#) or [NewStyle\(Font, Fill, Border, NumberingFormat, Alignment, string\)](#) instead

```
public StyleElement NewStyle(int? fontId, int? fillId, int? borderId, int?
numberingFormatId, Alignment alignment, string name)
```

Parameters

fontId [int](#)?

Index of already inserted font

fillId [int](#)?

Index of already inserted fill

borderId [int](#)?

Index of already inserted border

numberingFormatId [int](#)?

Index of already inserted numbering format

alignment [Alignment](#)



[Alignment](#)

name [string](#)

A unique name to find the inserted style later

Returns

[StyleElement](#)

The [StyleElement](#) generated