

# Namespace BigExcelCreator

## Classes

### [BigExcelWriter](#)

This class writes Excel files directly using OpenXML SAX. Useful when trying to write tens of thousands of rows.

# 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.

```
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\(\)](#) 

## Remarks

[NuGet](#) 

[Source](#) 

[API](#) 

[Site](#) 

## Constructors

### BigExcelWriter(Stream)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream and spreadsheet document type.

```
public BigExcelWriter(Stream stream)
```

## Parameters

**stream** [Stream](#)

The stream to write the Excel document to.

## Remarks

Initializes a new Workbook

## BigExcelWriter(Stream, Stylesheet)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream, spreadsheet document type, and stylesheet.

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

## Parameters

**stream** [Stream](#)

The stream to write the Excel document to.

**stylesheet** [Stylesheet](#)

The stylesheet to apply to the Excel document. See [GetStylesheet\(\)](#).

## Remarks

Initializes a new Workbook

## BigExcelWriter(Stream, SpreadsheetDocumentType)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream and spreadsheet document type.

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

## Parameters

**stream** [Stream](#)

The stream to write the Excel document to.

**spreadsheetDocumentType** [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

## BigExcelWriter(Stream, SpreadsheetDocumentType, Stylesheet)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream, spreadsheet document type, and stylesheet.

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

### Parameters

**stream** [Stream](#)

The stream to write the Excel document to.

**spreadsheetDocumentType** [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

**stylesheet** [Stylesheet](#)

The stylesheet to apply to the Excel document. See [GetStylesheet\(\)](#).

## BigExcelWriter(Stream, SpreadsheetDocumentType, bool)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream, spreadsheet document type, and a flag indicating whether to skip cells when they are empty.

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

## Parameters

**stream** [Stream](#)

The stream to write the Excel document to.

**spreadsheetDocumentType** [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

**skipCellWhenEmpty** [bool](#)

A flag indicating whether to skip cells when they are empty. 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)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream, spreadsheet document type, a flag indicating whether to skip cells when they are empty, and a stylesheet.

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

## Parameters

**stream** [Stream](#)

The stream to write the Excel document to.

**spreadsheetDocumentType** [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

**skipCellWhenEmpty** [bool](#)

A flag indicating whether to skip cells when they are empty. 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](#)

The stylesheet to apply to the Excel document. See [GetStylesheet\(\)](#).

## BigExcelWriter(Stream, bool)

Initializes a new instance of the [BigExcelWriter](#) class with the specified stream, spreadsheet document type, and a flag indicating whether to skip cells when they are empty.

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

### Parameters

stream [Stream](#)

The stream to write the Excel document to.

skipCellWhenEmpty [bool](#)

A flag indicating whether to skip cells when they are empty. 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.

### Remarks

Initializes a new Workbook

## BigExcelWriter(string)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path and spreadsheet document type.

```
public BigExcelWriter(string path)
```

### Parameters

path [string](#)

The file path to write the Excel document to.

## Remarks

Initializes a new Workbook

## BigExcelWriter(string, Stylesheet)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path, spreadsheet document type, and stylesheet. Initializes a new Workbook

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

## Parameters

path [string](#) 

The file path to write the Excel document to.

stylesheet [Stylesheet](#) 

The stylesheet to apply to the Excel document. See [GetStylesheet\(\)](#).

## BigExcelWriter(string, SpreadsheetDocumentType)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path and spreadsheet document type.

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

## Parameters

path [string](#) 

The file path to write the Excel document to.

spreadsheetDocumentType [SpreadsheetDocumentType](#) 

The type of the spreadsheet document (e.g., Workbook, Template).

# BigExcelWriter(string, SpreadsheetDocumentType, Stylesheet)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path, spreadsheet document type, and stylesheet.

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

## Parameters

path [string](#)

The file path to write the Excel document to.

spreadsheetDocumentType [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

stylesheet [Stylesheet](#)

The stylesheet to apply to the Excel document. See [GetStylesheet\(\)](#).

# BigExcelWriter(string, SpreadsheetDocumentType, bool)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path, spreadsheet document type, and a flag indicating whether to skip cells when they are empty.

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

## Parameters

path [string](#)

The file path to write the Excel document to.

spreadsheetDocumentType [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

`skipCellWhenEmpty` [bool](#)

A flag indicating whether to skip cells when they are empty. 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)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path, spreadsheet document type, a flag indicating whether to skip cells when they are empty, and a stylesheet.

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

### Parameters

`path` [string](#)

The file path to write the Excel document to.

`spreadsheetDocumentType` [SpreadsheetDocumentType](#)

The type of the spreadsheet document (e.g., Workbook, Template).

`skipCellWhenEmpty` [bool](#)

A flag indicating whether to skip cells when they are empty. 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](#)

The stylesheet to apply to the Excel document. See [GetStylesheet\(\)](#).

## BigExcelWriter(string, bool)

Initializes a new instance of the [BigExcelWriter](#) class with the specified file path, spreadsheet document type, and a flag indicating whether to skip cells when they are

empty.

```
public BigExcelWriter(string path, bool skipCellWhenEmpty)
```

## Parameters

**path** [string](#)

The file path to write the Excel document to.

**skipCellWhenEmpty** [bool](#)

A flag indicating whether to skip cells when they are empty. 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.

## Remarks

Initializes a new Workbook

# Properties

## Document

Gets the SpreadsheetDocument object representing the Excel document.

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

## Property Value

[SpreadsheetDocument](#)

## Path

Gets the file path where the Excel document is being saved.

(null when not saving to file)

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

Property Value

[string](#)

## PrintGridLinesInCurrentSheet

Gets or sets a value indicating whether to print grid lines in the current sheet.

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

Property Value

[bool](#)

Remarks

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

Exceptions

[NoOpenSheetException](#)

When there is no open sheet

## PrintRowAndColumnHeadingsInCurrentSheet

Gets or sets a value indicating whether to print row and column headings in the current sheet.

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

Property Value

[bool](#)

Remarks

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

## Exceptions

### [NoOpenSheetException](#)

When there is no open sheet

## ShowGridLinesInCurrentSheet


Gets or sets a value indicating whether to show grid lines in the current sheet.

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

## Property Value

[bool](#)

## Remarks

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

## Exceptions

### [NoOpenSheetException](#)

When there is no open sheet

## ShowRowAndColumnHeadingsInCurrentSheet

Gets or sets a value indicating whether to show row and column headings in the current sheet.

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

## Property Value

[bool](#)

## Remarks

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

## Exceptions

### [NoOpenSheetException](#)

When there is no open sheet

## SkipCellWhenEmpty

Gets or sets a value indicating whether to skip cells when they are empty.

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

## Property Value

[bool](#)

## Remarks

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.

## SpreadsheetDocumentType

Gets the type of the spreadsheet document (e.g., Workbook, Template).

only `SpreadsheetDocumentType.Workbook` is tested

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

## Property Value

[SpreadsheetDocumentType](#)

## Stream

Gets the Stream where the Excel document is being saved.

(null when not saving to Stream)

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

Property Value

[Stream](#) 

## Methods

### AddAutofilter(CellRange, bool)


Adds an autofilter to the specified range in the current sheet.

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

Parameters

range [CellRange](#)

The range where the autofilter should be applied.

overwrite [bool](#) 

If set to `true`, any existing autofilter will be replaced.

Remarks

The range height must be 1.

Only one filter per sheet is allowed.

Exceptions

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the autofilter to.

[ArgumentNullException](#) 

Thrown when the `range` is `null`.

#### [SheetAlreadyHasFilterException](#)

Thrown when there is already an autofilter in the current sheet and `overwrite` is `false`.

#### [ArgumentOutOfRangeException](#)

Thrown when the height of the `range` is not 1.

## AddAutofilter(string, bool)

Adds an autofilter to the specified range in the current sheet.

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

### Parameters

`range` [string](#)

The range where the autofilter should be applied.

`overwrite` [bool](#)

If set to `true`, any existing autofilter will be replaced.

### Remarks

The range height must be 1.

Only one filter per sheet is allowed.

### Exceptions

#### [InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the autofilter to.

#### [ArgumentNullException](#)

Thrown when the `range` is `null`.

### [SheetAlreadyHasFilterException](#)

Thrown when there is already an autofilter in the current sheet and `overwrite` is `false`.

### [ArgumentOutOfRangeException](#)

Thrown when the height of the `range` is not 1.

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

Adds a conditional formatting rule based on a cell value to the specified cell range.

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

### Parameters

`cellRange` [CellRange](#)

The cell range to apply the conditional formatting to.

`operator` [ConditionalFormattingOperatorValues](#)

The operator to use for the conditional formatting rule.

`value` [string](#)

The value to compare the cell value against.

`format` [int](#)

The format ID of the differential format in stylesheet to apply when the condition is met.  
See [GetIndexDifferentialByName\(string\)](#)

`value2` [string](#)

The second value to compare the cell value against, used for "Between" and "NotBetween" operators.

# Exceptions

## [ArgumentNullException](#)

Thrown when `cellRange`, `value`, or `value2` (if required) is null.

## [ArgumentOutOfRangeException](#)

Thrown when `format` is negative.

## [NoOpenSheetException](#)

Thrown when there is no open sheet to add the conditional formatting to.

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

Adds a conditional formatting rule based on a cell value to the specified cell range.

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

## Parameters

`reference` [string](#)

The cell range to apply the conditional formatting to.

`operator` [ConditionalFormattingOperatorValues](#)

The operator to use for the conditional formatting rule.

`value` [string](#)

The value to compare the cell value against.

`format` [int](#)

The format ID of the differential format in stylesheet to apply when the condition is met.  
See [GetIndexDifferentialByName\(string\)](#).

`value2` [string](#)

The second value to compare the cell value against, used for "Between" and "NotBetween" operators.

## Exceptions

### [ArgumentNullException](#)

Thrown when `reference`, `value`, or `value2` (if required) is null.

### [ArgumentOutOfRangeException](#)

Thrown when `format` is negative.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the conditional formatting to.

### [InvalidRangeException](#)

Thrown when the `reference` does not represent a valid range.

## AddConditionalFormattingDuplicatedValues(CellRange, int)

Adds a conditional formatting rule to highlight duplicated values in the specified cell range.

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

## Parameters

`cellRange` [CellRange](#)

The cell range to apply the conditional formatting to.

`format` [int](#) 

The format ID of the differential format in stylesheet to apply when the condition is met.  
See [GetIndexDifferentialByName\(string\)](#).

## Exceptions

### [ArgumentNullException](#)

Thrown when `cellRange` is null.

### [ArgumentOutOfRangeException](#)

Thrown when `format` is negative.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the conditional formatting to.

## AddConditionalFormattingDuplicatedValues(string, int)

Adds a conditional formatting rule to highlight duplicated values in the specified cell range.

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

### Parameters

`reference` [string](#)

The cell range to apply the conditional formatting to.

`format` [int](#)

The format ID of the differential format in stylesheet to apply when the condition is met.  
See [GetIndexDifferentialByName\(string\)](#).

### Exceptions

#### [ArgumentNullException](#)

Thrown when `reference` is null.

#### [ArgumentOutOfRangeException](#)

Thrown when `format` is negative.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the conditional formatting to.

#### [InvalidRangeException](#)

Thrown when the `reference` does not represent a valid range.

## AddConditionalFormattingFormula(CellRange, string, int)

Adds a conditional formatting rule based on a formula to the specified cell range.

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

### Parameters

`cellRange` [CellRange](#)

The cell range to apply the conditional formatting to.

`formula` [string](#) 

The formula that determines the conditional formatting rule.

`format` [int](#) 

The format ID of the differential format in stylesheet to apply when the condition is met.  
See [GetIndexDifferentialByName\(string\)](#).

### Exceptions

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the conditional formatting to.

[ArgumentNullException](#) 

Thrown when `cellRange` or `formula` is null.

[ArgumentOutOfRangeException](#) 

Thrown when `format` is negative.

## AddConditionalFormattingFormula(string, string, int)

Adds a conditional formatting rule based on a formula to the specified cell range.

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

## Parameters

**reference** [string](#)

The cell range to apply the conditional formatting to.

**formula** [string](#)

The formula that determines the conditional formatting rule.

**format** [int](#)

The format ID of the differential format in stylesheet to apply when the condition is met.

See [GetIndexDifferentialByName\(string\)](#).

## Exceptions

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the conditional formatting to.

[ArgumentNullException](#)

Thrown when **reference** or **formula** is null.

[ArgumentOutOfRangeException](#)

Thrown when **format** is negative.

[InvalidRangeException](#)

Thrown when the **reference** does not represent a valid range.

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

Adds a decimal data validation to the specified cell 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](#)

The cell range to apply the validation to.

**firstOperand** [decimal](#)

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)

The type of validation to apply.

**allowBlank** [bool](#)

If set to `true`, blank values are allowed.

**showInputMessage** [bool](#)

If set to `true`, an input message will be shown.

**showErrorMessage** [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

**secondOperand** [decimal](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

## [NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds a decimal data validation to the specified cell range.

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

## Parameters

range [CellRange](#)

The cell range to apply the validation to.

firstOperand [double](#)

The first operand for the validation.

validationType [DataValidationOperatorValues](#)

The type of validation to apply.

allowBlank [bool](#)

If set to `true`, blank values are allowed.

showInputMessage [bool](#)

If set to `true`, an input message will be shown.

showErrorMessage [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

secondOperand [double](#)?

The second operand for the validation, if required by the validation type.

# Exceptions

## [ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

## [ArgumentNullException](#)

Thrown when the `range` is `null`.

## [NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds a decimal data validation to the specified cell range.

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

## Parameters

`range` [CellRange](#)

The cell range to apply the validation to.

`firstOperand` [float](#)

The first operand for the validation.

`validationType` [DataValidationOperatorValues](#)

The type of validation to apply.

`allowBlank` [bool](#)

If set to `true`, blank values are allowed.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

`secondOperand` [float](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds a decimal data validation to the specified cell 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](#)

The cell range to apply the validation to.

`firstOperand` [decimal](#)

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)

The type of validation to apply.

**allowBlank** [bool](#)

If set to **true**, blank values are allowed.

**showInputMessage** [bool](#)

If set to **true**, an input message will be shown.

**showErrorMessage** [bool](#)

If set to **true**, an error message will be shown when invalid data is entered.

**secondOperand** [decimal](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but **secondOperand** is **null**.

[ArgumentNullException](#)

Thrown when the **range** is **null**.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

[InvalidRangeException](#)

Thrown when the **range** does not represent a valid range.

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

Adds a decimal data validation to the specified cell range.

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

## Parameters

**range** [string](#)

The cell range to apply the validation to.

**firstOperand** [double](#)

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)

The type of validation to apply.

**allowBlank** [bool](#)

If set to `true`, blank values are allowed.

**showInputMessage** [bool](#)

If set to `true`, an input message will be shown.

**showErrorMessage** [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

**secondOperand** [double](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

### [InvalidRangeException](#)

Thrown when the **range** does not represent a valid range.

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

Adds a decimal data validation to the specified cell range.

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

### Parameters

**range** [string](#)<sup>↗</sup>

The cell range to apply the validation to.

**firstOperand** [float](#)<sup>↗</sup>

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)<sup>↗</sup>

The type of validation to apply.

**allowBlank** [bool](#)<sup>↗</sup>

If set to **true**, blank values are allowed.

**showInputMessage** [bool](#)<sup>↗</sup>

If set to **true**, an input message will be shown.

**showErrorMessage** [bool](#)<sup>↗</sup>

If set to **true**, an error message will be shown when invalid data is entered.

**secondOperand** [float](#)<sup>↗</sup>?

The second operand for the validation, if required by the validation type.

# Exceptions

## [ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

## [ArgumentNullException](#)

Thrown when the `range` is `null`.

## [NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

## [InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

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

Adds an integer data validation to the specified cell 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](#)

The cell range to apply the validation to.

`firstOperand` [int](#)

The first operand for the validation.

`validationType` [DataValidationOperatorValues](#)

The type of validation to apply.

`allowBlank` [bool](#)

If set to `true`, blank values are allowed.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

`secondOperand` [int](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds an integer data validation to the specified cell range.

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

## Parameters

`range` [CellRange](#)

The cell range to apply the validation to.

`firstOperand` [long](#)

The first operand for the validation.

`validationType` [DataValidationOperatorValues](#)

The type of validation to apply.

`allowBlank` [bool](#)

If set to `true`, blank values are allowed.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

`secondOperand` [long](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds an integer data validation to the specified cell range.

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

```
public void AddIntegerValidator(CellRange range, uint firstOperand,
```

```
DataValidationOperatorValues validationType, bool allowBlank = true, bool  
showInputMessage = true, bool showErrorMessage = true, uint? secondOperand = null)
```

## Parameters

**range** [CellRange](#)

The cell range to apply the validation to.

**firstOperand** [uint](#)

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)

The type of validation to apply.

**allowBlank** [bool](#)

If set to `true`, blank values are allowed.

**showInputMessage** [bool](#)

If set to `true`, an input message will be shown.

**showErrorMessage** [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

**secondOperand** [uint](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds an integer data validation to the specified cell range.

```
[CLSCompliant(false)]  
public void AddIntegerValidator(CellRange range, ulong firstOperand,  
DataValidationOperatorValues validationType, bool allowBlank = true, bool  
showInputMessage = true, bool showErrorMessage = true, ulong? secondOperand = null)
```

## Parameters

**range** [CellRange](#)

The cell range to apply the validation to.

**firstOperand** [ulong](#)

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)

The type of validation to apply.

**allowBlank** [bool](#)

If set to `true`, blank values are allowed.

**showInputMessage** [bool](#)

If set to `true`, an input message will be shown.

**showErrorMessage** [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

**secondOperand** [ulong](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

## [ArgumentNullException](#)

Thrown when the `range` is `null`.

## [NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

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

Adds an integer data validation to the specified cell 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](#)

The cell range to apply the validation to.

`firstOperand` [int](#)

The first operand for the validation.

`validationType` [DataValidationOperatorValues](#)

The type of validation to apply.

`allowBlank` [bool](#)

If set to `true`, blank values are allowed.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

`secondOperand` [int](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

### [ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

### [ArgumentNullException](#)

Thrown when the `range` is `null`.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

### [InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

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

Adds an integer data validation to the specified cell range.

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

## Parameters

`range` [string](#)

The cell range to apply the validation to.

`firstOperand` [long](#)

The first operand for the validation.

`validationType` [DataValidationOperatorValues](#)

The type of validation to apply.

`allowBlank` [bool](#)

If set to `true`, blank values are allowed.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

`secondOperand` [long](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

[InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

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

Adds an integer data validation to the specified cell range.

```
[CLSCompliant(false)]  
public void AddIntegerValidator(string range, uint firstOperand,  
DataValidationOperatorValues validationType, bool allowBlank = true, bool  
showInputMessage = true, bool showErrorMessage = true, uint? secondOperand = null)
```

## Parameters

`range` [string](#)

The cell range to apply the validation to.

`firstOperand` [uint](#)

The first operand for the validation.

`validationType` [DataValidationOperatorValues](#)

The type of validation to apply.

`allowBlank` [bool](#)

If set to `true`, blank values are allowed.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

`secondOperand` [uint](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

[InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

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

Adds an integer data validation to the specified cell range.

```
[CLSCompliant(false)]  
public void AddIntegerValidator(string range, ulong firstOperand,  
DataValidationOperatorValues validationType, bool allowBlank = true, bool  
showInputMessage = true, bool showErrorMessage = true, ulong? secondOperand = null)
```

## Parameters

**range** [string](#)

The cell range to apply the validation to.

**firstOperand** [ulong](#)

The first operand for the validation.

**validationType** [DataValidationOperatorValues](#)

The type of validation to apply.

**allowBlank** [bool](#)

If set to `true`, blank values are allowed.

**showInputMessage** [bool](#)

If set to `true`, an input message will be shown.

**showErrorMessage** [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

**secondOperand** [ulong](#)?

The second operand for the validation, if required by the validation type.

## Exceptions

[ArgumentNullException](#)

Thrown when the validation type requires a second operand but `secondOperand` is `null`.

## [ArgumentNullException](#)

Thrown when the `range` is `null`.

## [NoOpenSheetException](#)

Thrown when there is no open sheet to add the validation to.

## [InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

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

Adds a list data validation to the specified cell range.

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

## Parameters

`range` [CellRange](#)

The cell range to apply the validation to.

`formula` [string](#)

The formula defining the list of valid values.

`allowBlank` [bool](#)

If set to `true`, blank values are considered valid.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

## Exceptions

### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the autofilter to.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

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

Adds a list data validation to the specified cell range.

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

### Parameters

`range` [string](#)

The cell range to apply the validation to.

`formula` [string](#)

The formula defining the list of valid values.

`allowBlank` [bool](#)

If set to `true`, blank values are considered valid.

`showInputMessage` [bool](#)

If set to `true`, an input message will be shown.

`showErrorMessage` [bool](#)

If set to `true`, an error message will be shown when invalid data is entered.

### Exceptions

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the autofilter to.

[ArgumentNullException](#)

Thrown when the `range` is `null`.

## [InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

# BeginRow()

Begins a new row in the currently open sheet.

```
public void BeginRow()
```

## Exceptions

### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use `EndRow` to close it.

### [OutOfOrderWritingException](#)

Thrown when writing rows out of order is attempted.

# BeginRow(bool)

Begins a new row in the currently open sheet.

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

## Parameters

`hidden` [bool](#) 

Indicates whether the row should be hidden.

## Exceptions

### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

#### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

#### [OutOfOrderWritingException](#)

Thrown when writing rows out of order is attempted.

## BeginRow(int)

Begins a new row in the currently open sheet.

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

### Parameters

rownum [int](#)

The row number to begin.

### Exceptions

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

#### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

#### [OutOfOrderWritingException](#)

Thrown when writing rows out of order is attempted.

## BeginRow(int, bool)

Begins a new row in the currently open sheet.

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

## Parameters

`rownum` [int](#)

The row number to begin.

`hidden` [bool](#)

Indicates whether the row should be hidden.

## Exceptions

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[OutOfOrderWritingException](#)

Thrown when writing rows out of order is attempted.

## CloseDocument()

Closes the current document, ensuring all data is written and resources are released.

```
public void CloseDocument()
```

## Remarks

This method will end any open rows and sheets, write shared strings and sheets, and save the document and worksheet part writer. If saving to a stream, it will reset the stream position to the beginning.

## CloseSheet()

Closes the currently open sheet.

```
public void CloseSheet()
```

## Exceptions

### [NoOpenSheetException](#)

Thrown when there is no open sheet to close.

## Comment(string, CellRange, string)

Adds a comment to a specified cell range.

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

### Parameters

**text** [string](#)

The text of the comment.

**cellRange** [CellRange](#)

The cell range where the comment will be added. Must be a single cell range.

**author** [string](#)

The author of the comment. Default is "BigExcelCreator".

## Exceptions

### [ArgumentOutOfRangeException](#)

Thrown when **author** is null or empty, or when **cellRange** is not a single cell range.

### [ArgumentNullException](#)

Thrown when **cellRange** is null.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to add the comment to.

# Comment(string, string, string)

Adds a comment to a specified cell range.

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

## Parameters

**text** [string](#)

The text of the comment.

**reference** [string](#)

The cell range where the comment will be added. Must be a single cell range.

**author** [string](#)

The author of the comment. Default is "BigExcelCreator".

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when **author** is null or empty, or when **reference** is not a single cell range.

[ArgumentNullException](#)

Thrown when **reference** is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to add the comment to.

[InvalidRangeException](#)

Thrown when the **reference** does not represent a valid range.

# CreateAndOpenSheet(string)

Creates and opens a new sheet with the specified name, and prepares the writer to use it.

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

## Parameters

name [string](#)

The name of the sheet to create and open.

## Exceptions

[SheetAlreadyOpenException](#)

Thrown when a sheet is already open and not closed before opening a new one.

[SheetNameCannotBeEmptyException](#)

Thrown when the sheet name is null or empty.

[SheetWithSameNameAlreadyExistsException](#)

Thrown when a sheet with the same name already exists.

## CreateAndOpenSheet(string, SheetStateValues)

Creates and opens a new sheet with the specified name, and sheet state, and prepares the writer to use it.

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

## Parameters

name [string](#)

The name of the sheet to create and open.

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](#)

Thrown when a sheet is already open and not closed before opening a new one.

### [SheetNameCannotBeEmptyException](#)

Thrown when the sheet name is null or empty.

### [SheetWithSameNameAlreadyExistsException](#)

Thrown when a sheet with the same name already exists.

## CreateAndOpenSheet(string, IList<Column>)

Creates and opens a new sheet with the specified name and columns, and prepares the writer to use it.

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

### Parameters

name [string](#)

The name of the sheet to create and open.

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

The columns to add to the sheet. Can be null. Use this to set the columns' width.

### Exceptions

#### [SheetAlreadyOpenException](#)

Thrown when a sheet is already open and not closed before opening a new one.

#### [SheetNameCannotBeEmptyException](#)

Thrown when the sheet name is null or empty.

#### [SheetWithSameNameAlreadyExistsException](#)

Thrown when a sheet with the same name already exists.

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

Creates and opens a new sheet with the specified name, columns, and sheet state, and prepares the writer to use it.

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

## Parameters

name [string](#)

The name of the sheet to create and open.

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

The columns to add to the sheet. Can be null. 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](#)

Thrown when a sheet is already open and not closed before opening a new one.

### [SheetNameCannotBeEmptyException](#)

Thrown when the sheet name is null or empty.

### [SheetWithSameNameAlreadyExistsException](#)

Thrown when a sheet with the same name already exists.

# CreateSheetFromObject<T>(IEnumerable<T>, string, SheetStateValues, bool, bool, IList<Column>)

Creates a new sheet from a collection of objects with a specified sheet state, automatically mapping object properties to columns.

```
[SuppressMessage("Performance", "CA1851:Possible multiple enumerations of  
'IEnumerable' collection", Justification = "I need to have it separated")]  
public void CreateSheetFromObject<T>(IEnumerable<T> data, string sheetName,  
SheetStateValues sheetState, bool writeHeaderRow = true, bool  
addAutoFilterOnFirstColumn = false, IList<Column> columns = null) where T : class
```

## Parameters

data [IEnumerable](#)<T>

The collection of objects to write to the sheet.

sheetName [string](#)

The name of the sheet to create.

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.

writeHeaderRow [bool](#)

If set to `true`, writes column headers as first row. Default is `true`.

addAutoFilterOnFirstColumn [bool](#)

If set to `true`, adds an autofilter to the first row. Default is `false`.

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

The column definitions to use for the sheet. If not provided, columns will be generated automatically from the object type. Default is `null`.

## Type Parameters

T

The type of objects in the collection. Must be a reference type.

## Remarks

This method automatically discovers properties from type `T` and writes them as sheet columns.

Properties can be decorated with the following attributes to customize their behavior:

- [ExcelIgnoreAttribute](#) - Excludes a property from being written to the sheet.
- [ExcelColumnNameAttribute](#) - Sets a custom column header name.
- [ExcelColumnOrderAttribute](#) - Controls the column order.
- [ExcelColumnTypeAttribute](#) - Specifies the cell data type (Text, Number, or Formula).
- [ExcelColumnWidthAttribute](#) - Sets a custom column width.
- [ExcelColumnHiddenAttribute](#) - Hides the column from view.

## Exceptions

### [ArgumentNullException](#)

Thrown when `data` is `null`.

### [SheetAlreadyOpenException](#)

Thrown when a sheet is already open and not closed before opening a new one.

### [SheetNameCannotBeEmptyException](#)

Thrown when `sheetName` is null or empty.

### [SheetWithSameNameAlreadyExistsException](#)

Thrown when a sheet with the same name already exists.

## CreateSheetFromObject<T>(IEnumerable<T>, string, bool, bool, IList<Column>)

Creates a new sheet from a collection of objects, automatically mapping object properties to columns.

```
public void CreateSheetFromObject<T>(IEnumerable<T> data, string sheetName, bool
writeHeaderRow = true, bool addAutoFilterOnFirstColumn = false, IList<Column>
columns = null) where T : class
```

## Parameters

**data** [IEnumerable](#) <T>

The collection of objects to write to the sheet.

**sheetName** [string](#)

The name of the sheet to create.

**writeHeaderRow** [bool](#)

If set to **true**, writes column headers as first row. Default is **true**.

**addAutoFilterOnFirstColumn** [bool](#)

If set to **true**, adds an autofilter to the first row. Default is **false**.

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

The column definitions to use for the sheet. If not provided, columns will be generated automatically from the object type. Default is **null**.

## Type Parameters

**T**

The type of objects in the collection. Must be a reference type.

## Remarks

This method automatically discovers properties from type **T** and writes them as sheet columns.

Properties can be decorated with the following attributes to customize their behavior:

- [ExcelIgnoreAttribute](#) - Excludes a property from being written to the sheet.
- [ExcelColumnNameAttribute](#) - Sets a custom column header name.
- [ExcelColumnOrderAttribute](#) - Controls the column order.
- [ExcelColumnTypeAttribute](#) - Specifies the cell data type (Text, Number, or Formula).
- [ExcelColumnWidthAttribute](#) - Sets a custom column width.
- [ExcelColumnHiddenAttribute](#) - Hides the column from view.

The sheet state is set to [Visible](#) by default.

## Exceptions

### [ArgumentNullException](#)

Thrown when `data` is `null`.

### [SheetAlreadyOpenException](#)

Thrown when a sheet is already open and not closed before opening a new one.

### [SheetNameCannotBeEmptyException](#)

Thrown when `sheetName` is null or empty.

### [SheetWithSameNameAlreadyExistsException](#)

Thrown when a sheet with the same name already exists.

## Dispose()

Closes the current document, ensuring all data is written and resources are released.

```
public void Dispose()
```

### Remarks

This method will end any open rows and sheets, write shared strings and sheets, and save the document and worksheet part writer. If saving to a stream, it will reset the stream position to the beginning.

## Dispose(bool)

Closes the current document, ensuring all data is written and resources are released.

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

### Parameters

`disposing` [bool](#)

### Remarks

This method will end any open rows and sheets, write shared strings and sheets, and save the document and worksheet part writer. If saving to a stream, it will reset the stream position to the beginning.

## EndRow()

Ends the currently open row in the sheet.

```
public void EndRow()
```

## Exceptions

[NoOpenRowException](#)

Thrown when there is no open row to end.

## ~BigExcelWriter()

Finalizes an instance of the [BigExcelWriter](#) class.

```
protected ~BigExcelWriter()
```

## MergeCells(CellRange)

Merges the specified cell range in the current sheet.

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

## Parameters

range [CellRange](#)

The cell range to merge.

## Exceptions

[ArgumentNullException](#)

Thrown when `range` is null.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to merge the cells into.

#### [OverlappingRangesException](#)

Thrown when the specified range overlaps with an existing merged range.

## MergeCells(string)

Merges the specified cell range in the current sheet.

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

### Parameters

`range` [string](#)<sup>↗</sup>

The cell range to merge.

### Exceptions

#### [ArgumentNullException](#)<sup>↗</sup>

Thrown when `range` is null.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to merge the cells into.

#### [OverlappingRangesException](#)

Thrown when the specified range overlaps with an existing merged range.

#### [InvalidRangeException](#)

Thrown when the `range` does not represent a valid range.

## WriteFormulaCell(string, int)

Writes a formula cell to the currently open row in the sheet.

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

## Parameters

formula [string](#)

The formula to write in the cell.

format [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

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

Writes a row of formula cells to the currently open sheet.

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

## Parameters

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

The collection of formulas to write in the row.

format [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

hidden [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

### [ArgumentNullException](#)

Thrown when the formulas collection is null.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

## WriteNumberCell(byte, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

`number` [byte](#) 

The number to write in the cell.

`format` [int](#) 

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

### [NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(decimal, int)

Writes a numerical value to the currently open row in the sheet.

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

### Parameters

number [decimal](#)

The number to write in the cell.

format [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

### Exceptions

[ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(double, int)

Writes a numerical value to the currently open row in the sheet.

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

### Parameters

number [double](#)

The number to write in the cell.

**format** [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(short, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

**number** [short](#)

The number to write in the cell.

**format** [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(int, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

number [int](#)

The number to write in the cell.

format [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(long, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

number [long](#)

The number to write in the cell.

format [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

## [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

## [NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

# WriteNumberCell(sbyte, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

number [sbyte](#)

The number to write in the cell.

format [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

### [NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

# WriteNumberCell(float, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

**number** [float](#)

The number to write in the cell.

**format** [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(ushort, int)

Writes a numerical value to the currently open row in the sheet.

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

## Parameters

**number** [ushort](#)

The number to write in the cell.

**format** [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

## [NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(uint, int)

Writes a numerical value to the currently open row in the sheet.

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

### Parameters

**number** [uint](#)

The number to write in the cell.

**format** [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

### Exceptions

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

## WriteNumberCell(ulong, int)

Writes a numerical value to the currently open row in the sheet.

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

### Parameters

number [ulong](#)

The number to write in the cell.

format [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

[NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

format [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

hidden [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

[ArgumentNullException](#)

Thrown when the numbers collection is null.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

#### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

#### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

### Parameters

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

The collection of numbers to write in the row.

`format` [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Indicates whether the row should be hidden. Default is false.

### Exceptions

#### [ArgumentNullException](#)

Thrown when the numbers collection is null.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

## [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

## [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

`format` [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

### [ArgumentNullException](#)

Thrown when the numbers collection is null.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

### Parameters

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

The collection of numbers to write in the row.

`format` [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Indicates whether the row should be hidden. Default is false.

### Exceptions

[ArgumentNullException](#)

Thrown when the numbers collection is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

**format** [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

[ArgumentNullException](#)

Thrown when the numbers collection is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

**format** [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

[ArgumentNullException](#)

Thrown when the numbers collection is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

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

## Parameters

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

The collection of numbers to write in the row.

**format** [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

[ArgumentNullException](#)

Thrown when the numbers collection is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

**format** [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

[ArgumentNullException](#)

Thrown when the numbers collection is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

**format** [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

### [ArgumentNullException](#)

Thrown when the numbers collection is null.

### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

## Parameters

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

The collection of numbers to write in the row.

`format` [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Indicates whether the row should be hidden. Default is false.

## Exceptions

### [ArgumentNullException](#)

Thrown when the numbers collection is null.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

#### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

#### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

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

Writes a row of cells with numerical values to the currently open sheet.

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

### Parameters

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

The collection of numbers to write in the row.

`format` [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

`hidden` [bool](#)

Indicates whether the row should be hidden. Default is false.

### Exceptions

#### [ArgumentNullException](#)

Thrown when the numbers collection is null.

#### [NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

#### [RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

#### [ArgumentOutOfRangeException](#)

Thrown when `format` is less than 0

## WriteTextCell(string, int, bool)

Writes a text cell to the currently open row in the sheet.

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

### Parameters

`text` [string](#)

The text to write in the cell.

`format` [int](#)

The format index to apply to the cell. Default is 0. See [GetIndexByName\(string\)](#).

`useSharedStrings` [bool](#)

Indicates whether to 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. Default is false.

### Exceptions

#### [NoOpenRowException](#)

Thrown when there is no open row to write the cell to.

#### [ArgumentOutOfRangeException](#)

When `format` is less than 0

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

Writes a row of text cells to the currently open sheet.

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

## Parameters

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

The collection of text strings to write in the row.

**format** [int](#)

The format index to apply to each cell. Default is 0. See [GetIndexByName\(string\)](#).

**hidden** [bool](#)

Indicates whether the row should be hidden. Default is false.

**useSharedStrings** [bool](#)

Indicates whether to 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. Default is false.

## Exceptions

[ArgumentNullException](#)

Thrown when the texts collection is null.

[NoOpenSheetException](#)

Thrown when there is no open sheet to write a row to.

[RowAlreadyOpenException](#)

Thrown when a row is already open. Use EndRow to close it.

[ArgumentOutOfRangeException](#)

Thrown when **format** is less than 0

# Namespace BigExcelCreator.Class

## Attributes

### Classes

#### [ExcelColumnHiddenAttribute](#)

Marks a property as hidden in Excel exports. When applied to a property, the corresponding column will not be visible in the generated Excel spreadsheet.

#### [ExcelColumnNameAttribute](#)

Specifies the name of an Excel column for a property.

#### [ExcelColumnOrderAttribute](#)

Specifies the column order for a property when exporting to Excel.

#### [ExcelColumnTypeAttribute](#)

Specifies the Excel cell type for a property when exporting to Excel.

#### [ExcelColumnWidthAttribute](#)

Specifies the width of an Excel column for a property.

#### [ExcelIgnoreAttribute](#)

Marks a property to be ignored when generating Excel output.

# Class ExcelColumnHiddenAttribute

Namespace: [BigExcelCreator.ClassAttributes](#)

Assembly: BigExcelCreator.dll

















Marks a property as hidden in Excel exports. When applied to a property, the corresponding column will not be visible in the generated Excel spreadsheet.

```
[AttributeUsage(AttributeTargets.Property, AllowMultiple = false)]  
public sealed class ExcelColumnHiddenAttribute : Attribute
```

## Inheritance

[object](#)  ← [Attribute](#)  ← ExcelColumnHiddenAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  , [Attribute.GetCustomAttribute\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  ,  
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[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module\)](#)  , [Attribute.GetCustomAttributes\(Module, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  , [Attribute.GetHashCode\(\)](#)  ,  
[Attribute.IsDefaultAttribute\(\)](#)  , [Attribute.IsDefined\(Assembly, Type\)](#)  ,

[Attribute.IsDefined\(Assembly, Type, bool\)](#) , [Attribute.IsDefined\(MemberInfo, Type\)](#) ,  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#) , [Attribute.IsDefined\(Module, Type\)](#) ,  
[Attribute.IsDefined\(Module, Type, bool\)](#) , [Attribute.IsDefined\(ParameterInfo, Type\)](#) ,  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#) , [Attribute.Match\(object\)](#) ,  
[Attribute.TypeId](#) , [object.Equals\(object, object\)](#) , [object.GetType\(\)](#) ,  
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Class ExcelColumnNameAttribute

Namespace: [BigExcelCreator.ClassAttributes](#)

Assembly: BigExcelCreator.dll































Specifies the name of an Excel column for a property.

```
[AttributeUsage(AttributeTargets.Property, AllowMultiple = false)]  
public sealed class ExcelColumnNameAttribute : Attribute
```

## Inheritance

[object](#)  ← [Attribute](#)  ← ExcelColumnNameAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  , [Attribute.GetCustomAttribute\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  ,  
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[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  , [Attribute.GetHashCode\(\)](#)  ,  
[Attribute.IsDefaultAttribute\(\)](#)  , [Attribute.IsDefined\(Assembly, Type\)](#)  ,  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  , [Attribute.IsDefined\(MemberInfo, Type\)](#)  ,

[Attribute.IsDefined\(MemberInfo, Type, bool\)](#) , [Attribute.IsDefined\(Module, Type\)](#) , [Attribute.IsDefined\(Module, Type, bool\)](#) , [Attribute.IsDefined\(ParameterInfo, Type\)](#) , [Attribute.IsDefined\(ParameterInfo, Type, bool\)](#) , [Attribute.Match\(object\)](#) , [Attribute.TypeId](#) , [object.Equals\(object, object\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### ExcelColumnNameAttribute(string)

Specifies the name of an Excel column for a property.

```
public ExcelColumnNameAttribute(string name)
```

#### Parameters

name [string](#)

The name of the Excel column.

## Properties

### Name

Gets the name of the Excel column.

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

#### Property Value

[string](#)

# Class ExcelColumnOrderAttribute

Namespace: [BigExcelCreator.ClassAttributes](#)

Assembly: BigExcelCreator.dll




















Specifies the column order for a property when exporting to Excel.

```
[AttributeUsage(AttributeTargets.Property, AllowMultiple = false)]  
public sealed class ExcelColumnOrderAttribute : Attribute
```

## Inheritance

[object](#)  ← [Attribute](#)  ← ExcelColumnOrderAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  , [Attribute.GetCustomAttribute\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  ,  
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[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  , [Attribute.GetHashCode\(\)](#)  ,  
[Attribute.IsDefaultAttribute\(\)](#)  , [Attribute.IsDefined\(Assembly, Type\)](#)  ,  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  , [Attribute.IsDefined\(MemberInfo, Type\)](#)  ,

[Attribute.IsDefined\(MemberInfo, Type, bool\)](#) , [Attribute.IsDefined\(Module, Type\)](#) , [Attribute.IsDefined\(Module, Type, bool\)](#) , [Attribute.IsDefined\(ParameterInfo, Type\)](#) , [Attribute.IsDefined\(ParameterInfo, Type, bool\)](#) , [Attribute.Match\(object\)](#) , [Attribute.TypeId](#) , [object.Equals\(object, object\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

This attribute is used to control the order in which properties are exported as columns in an Excel worksheet. Properties are ordered by their [Order](#) value in ascending order.

## Constructors

### ExcelColumnOrderAttribute(int)

Specifies the column order for a property when exporting to Excel.

```
public ExcelColumnOrderAttribute(int order)
```

## Parameters

**order** [int](#)

The zero-based position of the column within the Excel sheet.

## Remarks

This attribute is used to control the order in which properties are exported as columns in an Excel worksheet. Properties are ordered by their [Order](#) value in ascending order.

## Properties

### Order

Gets the zero-based position of the item within its containing collection.

```
public int Order { get; }
```

## Property Value



# Class ExcelColumnTypeAttribute

Namespace: [BigExcelCreator.ClassAttributes](#)

Assembly: BigExcelCreator.dll

















Specifies the Excel cell type for a property when exporting to Excel.

```
[AttributeUsage(AttributeTargets.Property, AllowMultiple = false)]  
public sealed class ExcelColumnTypeAttribute : Attribute
```

## Inheritance

[object](#)  ← [Attribute](#)  ← ExcelColumnTypeAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  , [Attribute.GetCustomAttribute\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  ,  
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[Attribute.GetCustomAttributes\(Module\)](#)  , [Attribute.GetCustomAttributes\(Module, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  , [Attribute.GetHashCode\(\)](#)  ,  
[Attribute.IsDefaultAttribute\(\)](#)  , [Attribute.IsDefined\(Assembly, Type\)](#)  ,  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  , [Attribute.IsDefined\(MemberInfo, Type\)](#)  ,

[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)<sup>↗</sup> , [Attribute.IsDefined\(Module, Type\)](#)<sup>↗</sup> , [Attribute.IsDefined\(Module, Type, bool\)](#)<sup>↗</sup> , [Attribute.IsDefined\(ParameterInfo, Type\)](#)<sup>↗</sup> , [Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)<sup>↗</sup> , [Attribute.Match\(object\)](#)<sup>↗</sup> , [Attribute.TypeId](#)<sup>↗</sup> , [object.Equals\(object, object\)](#)<sup>↗</sup> , [object.GetType\(\)](#)<sup>↗</sup> , [object.ReferenceEquals\(object, object\)](#)<sup>↗</sup> , [object.ToString\(\)](#)<sup>↗</sup>

## Constructors

### ExcelColumnTypeAttribute(CellDataType)

Specifies the Excel cell type for a property when exporting to Excel.

```
public ExcelColumnTypeAttribute(CellDataType type)
```

#### Parameters

type [CellDataType](#)

## Properties

### Type

Gets the Excel cell type for the attributed property.

```
public CellDataType Type { get; }
```

#### Property Value

[CellDataType](#)

# Class ExcelColumnWidthAttribute

Namespace: [BigExcelCreator.ClassAttributes](#)

Assembly: BigExcelCreator.dll




















Specifies the width of an Excel column for a property.

```
[AttributeUsage(AttributeTargets.Property, AllowMultiple = false)]  
public sealed class ExcelColumnWidthAttribute : Attribute
```

## Inheritance

[object](#)  ← [Attribute](#)  ← ExcelColumnWidthAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  , [Attribute.GetCustomAttribute\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module\)](#)  , [Attribute.GetCustomAttributes\(Module, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  , [Attribute.GetHashCode\(\)](#)  ,  
[Attribute.IsDefaultAttribute\(\)](#)  , [Attribute.IsDefined\(Assembly, Type\)](#)  ,  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  , [Attribute.IsDefined\(MemberInfo, Type\)](#)  ,

[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)<sup>↗</sup> , [Attribute.IsDefined\(Module, Type\)](#)<sup>↗</sup> , [Attribute.IsDefined\(Module, Type, bool\)](#)<sup>↗</sup> , [Attribute.IsDefined\(ParameterInfo, Type\)](#)<sup>↗</sup> , [Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)<sup>↗</sup> , [Attribute.Match\(object\)](#)<sup>↗</sup> , [Attribute.TypeId](#)<sup>↗</sup> , [object.Equals\(object, object\)](#)<sup>↗</sup> , [object.GetType\(\)](#)<sup>↗</sup> , [object.ReferenceEquals\(object, object\)](#)<sup>↗</sup> , [object.ToString\(\)](#)<sup>↗</sup>

## Remarks

This attribute is used to define the column width when exporting data to Excel. The width value must be a non-negative integer.

## Constructors

### ExcelColumnWidthAttribute(int)

Initializes a new instance of the [ExcelColumnWidthAttribute](#) class.

```
public ExcelColumnWidthAttribute(int width)
```

### Parameters

**width** [int](#)<sup>↗</sup>

The width of the Excel column. Must be non-negative.

### Exceptions

[ArgumentOutOfRangeException](#)<sup>↗</sup>

Thrown when **width** is negative.

## Properties

### Width

Gets the width of the Excel column.

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

Property Value

[int](#)

# Class ExcelIgnoreAttribute

Namespace: [BigExcelCreator.ClassAttributes](#)

Assembly: BigExcelCreator.dll






























Marks a property to be ignored when generating Excel output.

```
[AttributeUsage(AttributeTargets.Property, AllowMultiple = false)]  
public sealed class ExcelIgnoreAttribute : Attribute
```

## Inheritance

[object](#)  ← [Attribute](#)  ← ExcelIgnoreAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  , [Attribute.GetCustomAttribute\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module\)](#)  , [Attribute.GetCustomAttributes\(Module, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  ,  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  , [Attribute.GetHashCode\(\)](#)  ,  
[Attribute.IsDefaultAttribute\(\)](#)  , [Attribute.IsDefined\(Assembly, Type\)](#)  ,  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  , [Attribute.IsDefined\(MemberInfo, Type\)](#)  ,

[Attribute.IsDefined\(MemberInfo, Type, bool\)](#) , [Attribute.IsDefined\(Module, Type\)](#) ,  
[Attribute.IsDefined\(Module, Type, bool\)](#) , [Attribute.IsDefined\(ParameterInfo, Type\)](#) ,  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#) , [Attribute.Match\(object\)](#) ,  
[Attribute.TypeId](#) , [object.Equals\(object, object\)](#) , [object.GetType\(\)](#) ,  
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Namespace BigExcelCreator.Enums

## Enums

### [CellDataType](#)

Specifies the Excel cell type for a spreadsheet cell.

# Enum CellDataType

Namespace: [BigExcelCreator.Enums](#)

Assembly: BigExcelCreator.dll

Specifies the Excel cell type for a spreadsheet cell.

```
public enum CellDataType
```

## Fields

**Formula** = 2

Formula cell type for Excel formulas.

**Number** = 1

Number cell type for numeric values.

**Text** = 0

Text cell type for string values.

# 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

### [SheetNameCannotBeEmptyException](#)

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

### [SheetWithSameNameAlreadyExistsException](#)

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

### [UnsupportedSpreadsheetDocumentTypeException](#)

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](#)↗

# Class

## SheetNameCannotBeEmptyException



Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

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

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



















### Inheritance

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

### 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

### SheetNameCannotBeEmptyException()

The constructor for SheetNameCannotBeNullException

```
public SheetNameCannotBeEmptyException()
```

# SheetNameCannotBeEmptyException(SerializationInfo, StreamingContext)

The constructor for SheetNameCannotBeEmptyException

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

## Parameters

serializationInfo [SerializationInfo](#)

streamingContext [StreamingContext](#)

# SheetNameCannotBeEmptyException(string)

The constructor for SheetNameCannotBeEmptyException

```
public SheetNameCannotBeEmptyException(string message)
```

## Parameters

message [string](#)

# SheetNameCannotBeEmptyException(string, Exception)

The constructor for SheetNameCannotBeEmptyException

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

## Parameters

message [string](#)

innerException [Exception](#)

# Class

## SheetWithSameNameAlreadyExistsException





Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

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

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



















### Inheritance

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

### 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

### SheetWithSameNameAlreadyExistsException()

The constructor for SheetWithSameNameAlreadyExistsException

```
public SheetWithSameNameAlreadyExistsException()
```

# SheetWithSameNameAlreadyExistsException(SerializationInfo, StreamingContext)

The constructor for SheetWithSameNameAlreadyExistsException

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

## Parameters

serializationInfo [SerializationInfo](#) 

streamingContext [StreamingContext](#) 

# SheetWithSameNameAlreadyExistsException(string)

The constructor for SheetWithSameNameAlreadyExistsException

```
public SheetWithSameNameAlreadyExistsException(string message)
```

## Parameters

message [string](#) 

# SheetWithSameNameAlreadyExistsException(string, Exception)

The constructor for SheetWithSameNameAlreadyExistsException

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

## Parameters

message [string](#) 

innerException [Exception](#) 



# Class

## UnsupportedSpreadsheetDocumentTypeException





Namespace: [BigExcelCreator.Exceptions](#)

Assembly: BigExcelCreator.dll

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

```
[Serializable]  
public class UnsupportedSpreadsheetDocumentTypeException :  
    NotSupportedException, ISerializable
```



















### Inheritance

[object](#)  ← [Exception](#)  ← [SystemException](#)  ← [NotSupportedException](#)  ←  
UnsupportedSpreadsheetDocumentTypeException

### 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

### UnsupportedSpreadsheetDocumentTypeException()

The constructor for UnsupportedSpreadsheetDocumentTypesException

```
public UnsupportedSpreadsheetDocumentTypeException()
```

# UnsupportedSpreadsheetDocumentTypeException(SerializationInfo, StreamingContext)

The constructor for UnsupportedSpreadsheetDocumentTypesException

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

## Parameters

serializationInfo [SerializationInfo](#)🔗

streamingContext [StreamingContext](#)🔗

# UnsupportedSpreadsheetDocumentTypeException(string)

The constructor for UnsupportedSpreadsheetDocumentTypesException

```
public UnsupportedSpreadsheetDocumentTypeException(string message)
```

## Parameters

message [string](#)🔗

# UnsupportedSpreadsheetDocumentTypeException(string, Exception)

The constructor for UnsupportedSpreadsheetDocumentTypesException

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

## Parameters

message [string](#)🔗

innerException [Exception](#)

# Namespace BigExcelCreator.Ranges

## Classes

### [CellRange](#)

Represents a range of cells in an Excel sheet.

### [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

Represents a range of cells in an Excel sheet.

```
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\(\)](#) 

## Remarks

This class provides properties and methods to handle cell ranges, including their dimensions, overlap checks, and string representations.

## Constructors

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

Initializes a new instance of the [CellRange](#) class 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](#) ?

The starting column of the cell range.

`fixedStartingColumn` [bool](#)

Indicates whether the starting column is fixed.

`startingRow` [int](#)?

The starting row of the cell range.

`fixedStartingRow` [bool](#)

Indicates whether the starting row is fixed.

`endingColumn` [int](#)?

The ending column of the cell range.

`fixedEndingColumn` [bool](#)

Indicates whether the ending column is fixed.

`endingRow` [int](#)?

The ending row of the cell range.

`fixedEndingRow` [bool](#)

Indicates whether the ending row is fixed.

`sheetname` [string](#)

The name of the sheet.

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when any of the column or row values are less than 1.

[InvalidRangeException](#)

Thrown when the range is invalid.

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

Initializes a new instance of the [CellRange](#) class using coordinates indexes. This creates a single cell range

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

## Parameters

column [int](#)?

The column of the cell range.

fixedColumn [bool](#)

Indicates whether the column is fixed.

row [int](#)?

The row of the cell range.

fixedRow [bool](#)

Indicates whether the row is fixed.

sheetname [string](#)

The name of the sheet.

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when any of the column or row values are less than 1.

[InvalidRangeException](#)

Thrown when the range is invalid.

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

Initializes a new instance of the [CellRange](#) class using coordinates indexes.

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

## Parameters

**startingColumn** [int](#)?

The starting column of the cell range.

**startingRow** [int](#)?

The starting row of the cell range.

**endingColumn** [int](#)?

The ending column of the cell range.

**endingRow** [int](#)?

The ending row of the cell range.

**sheetname** [string](#)

The name of the sheet.

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when any of the column or row values are less than 1.

[InvalidRangeException](#)

Thrown when the range is invalid.

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

Initializes a new instance of the [CellRange](#) class using coordinates indexes. This creates a single cell range

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

## Parameters

**column** [int](#)?

The column of the cell range.

**row** [int](#)?

The row of the cell range.

**sheetname** [string](#)

The name of the sheet.

## Exceptions

[ArgumentOutOfRangeException](#)

Thrown when any of the column or row values are less than 1.

[InvalidRangeException](#)

Thrown when the range is invalid.

## CellRange(string)

Initializes a new instance of the [CellRange](#) class from a string representation of a range.

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

## Parameters

**range** [string](#)

The range string to initialize the cell range.

## Exceptions

[ArgumentNullException](#)

If **range** is null

[ArgumentOutOfRangeException](#)

Thrown when any of the column or row values are less than 1.

### [InvalidRangeException](#)

Thrown when the **range** does not represent a valid range.

## Properties

### EndingColumn

Gets the ending column of the cell range.

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

#### Property Value

[int](#)?

The ending column of the cell range, or null if the ending column is not specified.

### EndingColumnIsFixed

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

Represented by '\$' in the string representation

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

#### Property Value

[bool](#)

### EndingRow

Gets the ending row of the cell range.

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

Property Value

[int](#)?

The ending row of the cell range, or null if the ending row is not specified.

## EndingRowIsFixed

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

Represented by '\$' in the string representation

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

Property Value

[bool](#)

## Height

Gets the height of the cell range.

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

Property Value

[int](#)

## IsInfiniteCellRange

Gets a value indicating whether the cell range is infinite.

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

Property Value

[bool](#)

True if the cell range is infinite; otherwise, false.

## IsInfiniteCellRangeCol

Gets a value indicating whether the cell range represents an entire column.

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

### Property Value

[bool](#)

True if the cell range represents an entire column; otherwise, false.

## IsInfiniteCellRangeRow

Gets a value indicating whether the cell range represents an entire row.

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

### Property Value

[bool](#)

True if the cell range represents an entire row; otherwise, false.

## IsSingleCellRange

Gets a value indicating whether the cell range represents a single cell.

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

### Property Value

[bool](#)

True if the cell range represents a single cell; otherwise, false.

# RangeString

Gets the range string representation of the cell range, including the sheet name if available.

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

## Property Value

[string](#)

The range string representation of the cell range, including the sheet name if available.

# RangeStringNoSheetName

Gets the range string representation of the cell range without the sheet name.

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

## Property Value

[string](#)

The range string representation of the cell range without the sheet name.

# Sheetname

Gets or sets the sheet name of the cell range.

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

## Property Value

[string](#)

The sheet name of the cell range.

## Exceptions

## [InvalidRangeException](#)

Thrown when the sheet name contains invalid characters.

## StartingColumn

Gets the starting column of the cell range.

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

Property Value

[int](#)<sup>↗</sup>?

The starting column of the cell range, or null if the starting column is not specified.

## StartingColumnIsFixed

[true](#)<sup>↗</sup> if the starting column is fixed

Represented by '\$' in the string representation

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

Property Value

[bool](#)<sup>↗</sup>

## StartingRow

Gets the starting row of the cell range.

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

Property Value

[int](#)<sup>↗</sup>?

The starting row of the cell range, or null if the starting row is not specified.

## StartingRowIsFixed

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

Represented by '\$' in the string representation

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

Property Value

[bool](#)

## Width

Gets the width of the cell range.

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

Property Value

[int](#)

## Methods

### CompareTo(CellRange)

Compares the current instance with another [CellRange](#) and returns an integer that indicates whether the current instance precedes, follows, or occurs in the same position in the sort order as the other [CellRange](#).

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

Parameters

other [CellRange](#)

The [CellRange](#) to compare with the current instance.

## Returns

[int](#)

A value that indicates the relative order of the objects being compared. The return value has these meanings:

- Less than zero: This instance precedes **other** in the sort order.
- Zero: This instance occurs in the same position in the sort order as **other**.
- Greater than zero: This instance follows **other** in the sort order.

## Equals(CellRange)

Determines whether the specified [CellRange](#) is equal to the current [CellRange](#) instance.

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

## Parameters

other [CellRange](#)

The [CellRange](#) to compare with the current instance.

## Returns

[bool](#)

True if the specified [CellRange](#) is equal to the current instance; otherwise, false.

## Equals(object)

Determines whether the specified object is equal to the current [CellRange](#) instance.

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

## Parameters

**obj** [object](#)

The object to compare with the current instance.

## Returns

[bool](#)

True if the specified object is a [CellRange](#) and is equal to the current instance; otherwise, false.

## GetHashCode()

Returns the hash code for this instance.

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

## Returns

[int](#)

A 32-bit signed integer hash code.

## RangeOverlaps(CellRange)

Determines whether the current [CellRange](#) overlaps with another specified [CellRange](#).

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

## Parameters

**other** [CellRange](#)

The [CellRange](#) to compare with the current [CellRange](#).

## Returns

[bool](#)

`true` if the current [CellRange](#) overlaps with the `other` [CellRange](#); otherwise, `false`.

## Exceptions

[ArgumentNullException](#)

`other` is `null`.

## Operators

### `operator ==(CellRange, CellRange)`

Determines whether two specified [CellRange](#) objects have the same value.

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

## Parameters

`left` [CellRange](#)

The first [CellRange](#) to compare.

`right` [CellRange](#)

The second [CellRange](#) to compare.

## Returns

[bool](#)

`true` if the value of `left` is the same as the value of `right`; otherwise, `false`.

### `operator >(CellRange, CellRange)`

Determines whether one specified [CellRange](#) is greater than another specified [CellRange](#).

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

## Parameters

**left** [CellRange](#)

The first [CellRange](#) to compare.

**right** [CellRange](#)

The second [CellRange](#) to compare.

## Returns

[bool](#)

**true** if the value of **left** is greater than the value of **right**; otherwise, **false**.

## operator >=(CellRange, CellRange)

Determines whether one specified [CellRange](#) is greater than or equal to another specified [CellRange](#).

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

## Parameters

**left** [CellRange](#)

The first [CellRange](#) to compare.

**right** [CellRange](#)

The second [CellRange](#) to compare.

## Returns

[bool](#)

**true** if the value of **left** is greater than or equal to the value of **right**; otherwise, **false**.

## operator !=(CellRange, CellRange)

Determines whether two specified [CellRange](#) objects have different values.

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

## Parameters

**left** [CellRange](#)

The first [CellRange](#) to compare.

**right** [CellRange](#)

The second [CellRange](#) to compare.

## Returns

[bool](#) 

**true** if the value of **left** is different from the value of **right**; otherwise, **false**.

## operator <(CellRange, CellRange)

Determines whether one specified [CellRange](#) is less than another specified [CellRange](#).

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

## Parameters

**left** [CellRange](#)

The first [CellRange](#) to compare.

**right** [CellRange](#)

The second [CellRange](#) to compare.

## Returns

[bool](#) 

**true** if the value of **left** is less than the value of **right**; otherwise, **false**.

## operator <=(CellRange, CellRange)

Determines whether one specified [CellRange](#) is less than or equal to another specified [CellRange](#).

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

### Parameters

**left** [CellRange](#)

The first [CellRange](#) to compare.

**right** [CellRange](#)

The second [CellRange](#) to compare.

### Returns

[bool](#)

**true** if the value of **left** is less than or equal to the value of **right**; otherwise, **false**.

# 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 : InvalidOperationException, ISerializable
```

## Inheritance

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

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](#)

The name of the style to look for.

Returns

[int](#)

The index of the named style, or -1 if not found.

### GetIndexByName(string, out StyleElement)

Gets the index of a named style.

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

## Parameters

name [string](#)

The name of the style to look for.

styleElement [StyleElement](#)

A copy of the found style.

## Returns

[int](#)

The index of the named style, or -1 if not found.

## GetIndexDifferentialByName(string)

Gets the index of a named differential style.

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

## Parameters

name [string](#)

The name of the differential style to look for.

## Returns

[int](#)

The index of the named differential style, or -1 if not found.

## GetIndexDifferentialByName(string, out DifferentialStyleElement)

Gets the index of a named differential style.

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

## Parameters

name [string](#)

The name of the differential style to look for.

differentialStyleElement [DifferentialStyleElement](#)

A copy of the found differential style.

## Returns

[int](#)

The index of the named differential style, or -1 if not found.

## 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.

```
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

Remarks

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

This method should be private, but it's kept public for backwards compatibility reasons.

Exceptions

[ArgumentOutOfRangeException](#)

Thrown when any of the provided indexes are less than 0