

Workbook.RegisterCustomFunction

Introduced in build 9.1

Description

The RegisterCustomFunction method registers an [IFunction](#) object with the workbook to be used when calculating a specific custom Excel formula.

C#

```
public void RegisterCustomFunction(string customFunctionName, IFunction customFunction)
```

vb.net

```
Public Sub RegisterCustomFunction(customFunctionName As String, customFunction As IFunction)
```



Disabling Excel Calculation

Registering a formula allows ExcelWriter to calculate a function a certain way. However, once the workbook opens inside of Microsoft Excel, Excel will calculate the formula again with its own calculation engine. This means that if you registered a function name that does not exist in Excel, your formula will evaluate to #NAME? once Excel recalculates it. If you overwrote a formula with your own implementation, the formula will be recalculated using the implementation that is built into Excel. To keep Excel from re-calculating the formulas upon opening the workbook or upon changing values in the workbook, go to File -> Options -> Formulas. Under the "Calculation Options" header, there is an option called "Workbook Calculation". Please select the "Manual" option and uncheck the "Recalculate workbook before saving" checkbox. Now Excel will not re-calculate formulas. These settings will allow you to preserve the values that ExcelWriter calculated.

Parameters

customFunctionName

The name of the Excel Function you want to bind your custom IFunction logic to.

customFunction

The custom logic you want to use for a specific Excel formula. You implement this logic by using the [IFunction](#) interface

Examples

C#

```
//Create an ExcelApplication object
ExcelApplication xla = new ExcelApplication();

//Open a workbook containing formulas
Workbook wb = xla.Open("FormulasWorkbook.xlsx");

// Create an instance of the custom function implementation
IFunction myCustomFunction = new MyCustomFunction();
//Register the custom function
wb.RegisterCustomFunction("MyCustomFunction", myCustomFunction);
```

VB

```
'Create an ExcelApplication object
Dim xla As New ExcelApplication

'Open a workbook containing formulas
Dim wb As Workbook = xla.Open("formulasWorkbook.xlsx")

'Create an instance of the custom function implementation
Dim myCustomFunction As IFunction = new MyCustomFunction()

'Register the custom function
wb.RegisterCustomFunction("MyCustomFunction", myCustomFunction)
```

Exceptions

SAException

If the custom function has already been registered with the workbook.