

IFunction.Calculate

Description

Calculates a custom function returning a [FunctionValue](#) given a list of [FunctionValue](#) arguments and the function's current [Cell](#) for context.

C#

```
FunctionValue Calculate(IList<FunctionValue> args, Cell currentCell)
```

vb.net

```
Function Calculate(args As IList(Of FunctionValue), currentCell As Cell) As  
FunctionValue
```

Parameters

args

An ordered list of [FunctionValue](#) arguments that have already been fully evaluated.

currentCell

The [Cell](#) that the current function resides in to use for context sensitive operations

Returns

A [FunctionValue](#) that contains the resulting value of the function.

Examples

C#

```
public FunctionValue Calculate(IList<FunctionValue> args, Cell currentCell)
{
    StringBuilder result = new StringBuilder("");
    foreach (FunctionValue arg in args)
    {
        result.Append(',');
        switch (arg.Type)
        {
            case FunctionValueType.BOOLEAN:
                result.Append((bool)arg.Value ? "True" : "False");
                break;
            case FunctionValueType.STRING:
                result.Append(arg.Value);
                break;
            case FunctionValueType.NUMBER:
                result.Append(((double)arg.Value).ToString("0.#####"));
                break;
            case FunctionValueType.NULL:
                result.Append(' ');
                break;
            case FunctionValueType.RANGE:
                result.Append(arg.Value.ToString());
                break;
        }
    }
    return new FunctionValue(result.ToString());
}
```

vb.net

```
Public Function Calculate(args As IList(Of FunctionValue), currentCell As Cell) As
FunctionValue
    Dim result As New StringBuilder("")

    For Each arg As FunctionValue In args
        result.Append(",")

        Select Case arg.Type
            Case FunctionValueType.[BOOLEAN]
                result.Append(If(CBool(arg.Value), "True", "False"))
                Exit Select
            Case FunctionValueType.[STRING]
                result.Append(arg.Value)
                Exit Select
            Case FunctionValueType.NUMBER
                result.Append(CDbl(arg.Value).ToString("0.#####"))
                Exit Select
            Case FunctionValueType.NULL
                result.Append(" ")
                Exit Select
            Case FunctionValueType.RANGE
                result.Append(arg.Value.ToString())
                Exit Select
        End Select
    Next
    Return New FunctionValue(result.ToString())
End Function
```