

# FunctionValue

Introduced in build 9.1

## Description

The FunctionValue class is used to pass arguments in and get results from custom functions.

### C#

```
public class FunctionValue
```

### vb.net

```
Public Class FunctionValue
```

## Examples

### C#

```
public FunctionValue CustomFunction(IList<FunctionValue> args, Cell currentCell)
{
    StringBuilder result = new StringBuilder("");

    // Iterate over the list of FunctionValues passed in
    foreach (FunctionValue arg in args)
        if (arg.Type != FunctionValueType.RANGE)
            result.Append(arg.Value);

    // Create a new FunctionValue to return as the result
    return new FunctionValue(result.ToString());
}
```

## vb.net

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

    ' Iterate over the list of FunctionValues passed in
    For Each arg As FunctionValue In args
        If arg.Type <> FunctionValueType.RANGE Then
            result.Append(arg.Value)
        End If
    Next

    ' Create a new FunctionValue to return as the result
    Return New FunctionValue(result.ToString())
End Function
```

## Properties

Name	Description
Value	The page FunctionValue.Value does not exist.
Type	The page FunctionValue.Type does not exist.

## Constructors

Name	Description
FunctionValue(String)	Creates a new <a href="#">FunctionValue</a> object setting the <a href="#">Value</a> property to the String passed in to the constructor and setting the <a href="#">Type</a> property to <a href="#">FunctionValueType.STRING</a> .
FunctionValue(Boolean)	Creates a new <a href="#">FunctionValue</a> object setting the <a href="#">Value</a> property to the Boolean passed in to the constructor and setting the <a href="#">Type</a> property to <a href="#">FunctionValueType.BOOLEAN</a> .
FunctionValue(Double)	Creates a new <a href="#">FunctionValue</a> object setting the <a href="#">Value</a> property to the Double passed in to the constructor and setting the <a href="#">Type</a> property to <a href="#">FunctionValueType.NUMBER</a> .
FunctionValue(Range)	Creates a new <a href="#">FunctionValue</a> object setting the <a href="#">Value</a> property to the <a href="#">Range</a> passed in to the constructor and setting the <a href="#">Type</a> property to <a href="#">FunctionValueType.RANGE</a> .

## Values

Name	Description
FunctionValue.Null	A static FunctionValue representing null.
FunctionValue.True	A static FunctionValue representing true.
FunctionValue.False	A static FunctionValue representing false.
FunctionValue.Div0Error	Occurs when a number is divided either by zero (0) or by a cell that contains no value.
FunctionValue.ValueError	Occurs when incorrect value type was passed into a function.

FunctionValue.NameError	Occurs when text in a formula is not recognized.
FunctionValue.NumError	Occurs with invalid numeric values in a formula or function.
FunctionValue.NullError	Occurs when you specify an intersection of two areas that do not intersect.
FunctionValue.RefError	Occurs when a cell reference is not valid.
FunctionValue.NAError	Occurs when a value is not available to a function or formula.