Table of content

[**Module : JSON.Utils** 2](#_Toc91714697)

[**Public functions** 2](#_Toc91714698)

[**Public functions details** 2](#_Toc91714699)

[JSON.Utils. GetValueAs 2](#_Toc91714700)

[**Parameters** 2](#_Toc91714701)

[**Return Value** 2](#_Toc91714702)

[**Example** 2](#_Toc91714703)

[**Class : JSON.Factory** 3](#_Toc91714704)

[**Public Member functions** 3](#_Toc91714705)

[**Public Member functions details** 3](#_Toc91714706)

[JSON.Factory.CreateArray 3](#_Toc91714707)

[**Parameters** 3](#_Toc91714708)

[**Return Value** 3](#_Toc91714709)

[**Example** 3](#_Toc91714710)

[JSON.Factory.CreateBoolean 4](#_Toc91714711)

[**Parameters** 4](#_Toc91714712)

[**Return Value** 4](#_Toc91714713)

[**Example** 4](#_Toc91714714)

[JSON.Factory.CreateDocument 4](#_Toc91714715)

[**Parameters** 4](#_Toc91714716)

[**Return Value** 4](#_Toc91714717)

[**Example** 4](#_Toc91714718)

[JSON.Factory.CreateFileReader 4](#_Toc91714719)

[**Parameters** 4](#_Toc91714720)

[**Return Value** 5](#_Toc91714721)

[**Example** 5](#_Toc91714722)

[JSON.Factory.CreateFileWriter 5](#_Toc91714723)

[**Parameters** 5](#_Toc91714724)

[**Return Value** 5](#_Toc91714725)

[**Example** 5](#_Toc91714726)

[JSON.Factory.CreateNull 5](#_Toc91714727)

[**Parameters** 5](#_Toc91714728)

[**Return Value** 5](#_Toc91714729)

[**Example** 5](#_Toc91714730)

[JSON.Factory.CreateNumber 6](#_Toc91714731)

[**Parameters** 6](#_Toc91714732)

[**Return Value** 6](#_Toc91714733)

[**Example** 6](#_Toc91714734)

[JSON.Factory.CreateObject 6](#_Toc91714735)

[**Parameters** 6](#_Toc91714736)

[**Return Value** 6](#_Toc91714737)

[**Example** 6](#_Toc91714738)

[JSON.Factory.CreatePair 6](#_Toc91714739)

[**Parameters** 6](#_Toc91714740)

[**Return Value** 7](#_Toc91714741)

[**Example** 7](#_Toc91714742)

[JSON.Factory.CreateString 7](#_Toc91714743)

[**Parameters** 7](#_Toc91714744)

[**Return Value** 7](#_Toc91714745)

[**Example** 7](#_Toc91714746)

[**Interface : JSON.IReader** 8](#_Toc91714747)

[**Public Member functions** 8](#_Toc91714748)

[**Parameters** 8](#_Toc91714749)

[**Return Value** 8](#_Toc91714750)

[**Interface : JSON.IWriter** 8](#_Toc91714751)

[**Public Member functions** 8](#_Toc91714752)

[**Parameters** 8](#_Toc91714753)

[**Return Value** 8](#_Toc91714754)

[**Class : JSON.FileReader** 9](#_Toc91714755)

[**Public Member functions, inherited from IReader** 9](#_Toc91714756)

[**Public Member functions details** 9](#_Toc91714757)

[JSON.IReader.Execute 9](#_Toc91714758)

[**Parameters** 9](#_Toc91714759)

[**Return Value** 9](#_Toc91714760)

[**Example** 9](#_Toc91714761)

[**Class : JSON.FileWriter** 10](#_Toc91714762)

[**Public Member functions, inherited from IReader** 10](#_Toc91714763)

[**Public Member functions details** 10](#_Toc91714764)

[JSON.IReader.Execute 10](#_Toc91714765)

[**Parameters** 10](#_Toc91714766)

[**Return Value** 10](#_Toc91714767)

[**Example** 10](#_Toc91714768)

**Module : JSON.Utils**

**Utils public module**

A standard module defining utility functionalities.

**Public functions**

**GetValueAs()**

Convert a generic JSON to the request type.

**Public functions details**

# JSON.Utils. GetValueAs(ByRef Value As Object, ByVal DataType As JSON.JType)

**Convert a generic JSON to the requested JSON type.  
Throw a Type Mismatch error (13) if the Value parameter isn’t of the requested type.**

**Parameters**

Value

The JSON object to convert.

DataType

The requested data type.

**Return Value**

A JSON object corresponding to the requested type.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6  7  8  9  10  11  12  13  14 | ‘// Utils.GetValueAs  Public Sub Main()  ‘// Instanciate an empty array  Dim JArray As JSON.JArray  Set JArray = Factory.CreateArray  ‘// Insert an element  JArray.PushBack Factory.CreateNull  ‘// Retrieve the element  Dim JNull As JSON.JNull  Set JNull = GetValueAs(JArray(0))  End Sub |

**Class : JSON.Factory**

**Factory class**

Factory is an object performing the instanciation of the various objects composing the JSON-VBA library.  
It does not need to be instanciated as global instance already exist.

**Public Member functions**

**CreateArray()**

Return a new JArray object.

**CreateBoolean(ByVal Value As Boolean)**

Return a new JBoolean object.

**CreateDocument()**

Return a new JDocument object.

**CreateFileReader(ByVal Path As String)**

Return a new FileReader object

**CreateFileWriter(ByVal Path As String)**

Return a new FileWriter object.

**CreateNull()**

Return a new JNull object.

**CreateNumber(ByVal Value As Double)**

Return a new JNumber object.

**CreateObject()**

Return a new JObject object

**CreatePair(ByVal Name As String, ByVal Value As Object)**

Return a new Pair object

**CreateString(ByVal Value As String)**

Return a new JString object

**Public Member functions details**

# JSON.Factory.CreateArray()

**Return a new JArray object.**

**Parameters**

None.

**Return Value**

An empty JArray object.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateArray  Public Sub Main()  Dim JArray As JSON.JArray  Set JArray = Factory.CreateArray  End Sub |

# JSON.Factory.CreateBoolean(ByVal Value As Boolean)

**Return a new JBoolean object.**

**Parameters**

Value

A boolean value defining the object’s initial value.

**Return Value**

A JBoolean value who’s value match the input parameter.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateBoolean  Public Sub Main()  Dim JBoolean As JSON.JBoolean  Set JBoolean = Factory.CreateBoolean(True)  End Sub |

# JSON.Factory.CreateDocument()

**Return a new JDocument object.**

**Parameters**

None.

**Return Value**

An empty JDocument object

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateDocument  Public Sub Main()  Dim JDocument As JSON.JDocument  Set JDocument = Factory.Createdocument  End Sub |

# JSON.Factory.CreateFileReader(ByRef Path As String)

**Return a new FileReader object.**

**Parameters**

Path

Local or UNC Path to an existing file.

**Return Value**

A FileReader object implementing the IReader interface.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateFileReader  Public Sub Main()  Dim FileReader As JSON.FileReader  Set FileReader = Factory.CreateFileReader(“c:\Temp\myFile.txt”)  End Sub |

# JSON.Factory.CreateFileWriter(ByRef Path As String)

**Return a new FileWriter object.**

**Parameters**

Path

Local or UNC Path to an existing file.

**Return Value**

A FileWriter object implementing the IWriter interface.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateFileWriter  Public Sub Main()  Dim FileWriter As JSON.FileWriter  Set FileWriter = Factory.CreateFileWriter(“c:\Temp\myFile.txt”)  End Sub |

# JSON.Factory.CreateNull()

**Return a new JNull object.**

**Parameters**

None.

**Return Value**

A JNull object.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateNull  Public Sub Main()  Dim JNull As JSON.JNull  Set JNull = Factory.CreateNull  End Sub |

# JSON.Factory.CreateNumber(ByVal Value as Double)

**Return a new JNumber object.**

**Parameters**

Value

Any numeric value.

**Return Value**

A JNumber object.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateNumber  Public Sub Main()  Dim JNumber As JSON.JNumber  Set JNumber = Factory.CreateNumber(38.456)  End Sub |

# JSON.Factory.CreateObject()

**Return a new JObject object.**

**Parameters**

None.

**Return Value**

An empty JObject object.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreateObject  Public Sub Main()  Dim JObject As JSON.JObject  Set JObject = Factory.CreateObject  End Sub |

# JSON.Factory.CreatePair(ByVal Name as string, ByVal Value As Object)

**Return a new Pair object.  
Throw a Type Mismatch error (13) if the Value parameter isn’t one of the expected type.**

**Parameters**

Name

String, the object’s name.

Value

Any object among JArray, JBoolean, JNull, JNumber, JObject or JString.

**Return Value**

A Pair object whos name and value match the input parameters.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreatePair  Public Sub Main()  Dim Pair As JSON.Pair  Set Pair = Factory.CreatePair(“Object name”, Factory.CreateNull)  End Sub |

# JSON.Factory.CreateString(ByVal Value As String)

**Return a new JString object.**

**Parameters**

Value

String, the object’s name.  
This parameter does not need to be escaped.

**Return Value**

A JString object.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6 | ‘// Factory.CreatePair  Public Sub Main()  Dim JString As JSON.JString  Set JString = Factory.CreateString(“a string value”)  End Sub |

**Interface : JSON.IReader**

**IReader Interface**

IReader is an interface defining a single operation whos goal is to read data from a data source (file, database, web service ect …), and return them as a string.  
The interface isn’t instanciable by itself, classes must implement it and conform to the operation it define.

**Public Member functions**

**Execute()**

Abstract member, execute the data reading operation.

**Parameters**

None

**Return Value**

A string representing the data readen from the data source.

**Interface : JSON.IWriter**

**IWriter Interface**

IWriter is an interface defining a single operation who’s goal is to write data to a data source (file, database, web service ect …).  
The interface isn’t instanciable by itself, classes must implement it and conform to the operation it define.

**Public Member functions**

**Execute(ByVal Data As String)**

Abstract member, execute the data writing operation.

**Parameters**

Data

String, the data to write.

**Return Value**

None

**Class : JSON.FileReader**

**FileReader class**

FileReader is a class implementing the IReader interface, and performing data reading from a file.

**Public Member functions, inherited from IReader**

**Execute()**

Read data from a file.

**Public Member functions details**

# JSON.IReader.Execute()

**Read data from a file and return them as string.**

**Parameters**

None.

**Return Value**

A string representing the readen data.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6  7  8  9 | ‘// IReader.Execute  Public Sub Main()  Dim Reader As JSON.IReader  Set Reader = Factory.CreateFileReader(« c:\temp\myFile.txt »)  Dim Data As String  Data = Reader.Execute  End Sub |

**Class : JSON.FileWriter**

**FileWriter class**

FileWriter is a class implementing the IWriter interface and performing .

**Public Member functions, inherited from IReader**

**Execute()**

Read data from a file.

**Public Member functions details**

# JSON.IReader.Execute(ByVal Data as String)

**Write data given as parameter to a string.**

**Parameters**

A string representing the data to write.

**Return Value**

None.

**Example**

|  |  |
| --- | --- |
| 1 2 3 4 5 6  7  8  9 | ‘// IWriter.Execute  Public Sub Main()  Dim Writer As JSON.IWriter  Set Writer = Factory.CreateFileWriter(“c:\temp\myFile.txt”)  Const Data As String = “Some data”  Writer.Execute Data  End Sub |