

Namespace

Imports Namespace

Data Types

Boolean, Byte, Char, DateTime, Decimal, Double, Int16, Int32, Int64, Integer, Long, Object, Short, Single, String, IntPtr, UInteger, UIntPtr

Variable Declaration

Dim | Public | Private <variable_name> As <type>

Type Declaration

Dim | Public <variable><suffix>

Suffixes

% - Integer, \$ - String, @ - Decimal, & - Long, # - Double, ! - Single

Arrays

Dim <arrayname>(<MaxIndexVal>) As <type>

Dim <arrayname>(<LowerBound> To <UpperBound>) As <type>

Initialize Array

Dim <arrayname>() As <type> = {<value1>, <value2>, ... , <valueN>}

Change Size of Array

ReDim <arrayname>(<MaxIndexVal>)

Comments

'Comment text

'No multi-line comments at this time

XML Comments

Press the ' (apostrophe) key thrice.

Line Continuation

strtext = "To break a long string across multiple lines, " & _
"end the string, add the line continuation character " & _
"and continue the string on the next line."

Arithmetic Operators

+ (Addition), - (Subtraction), * (Multiplication), / (Division), % (Modulus)

String Concatenation

+, &

Relational Operators

< (Less Than), <= (Less Than or Equal To), > (Greater Than), >= (Greater Than or Equal To), = (Equal To), <> (Not Equal To)

Logical Operators

OR, NOT, AND, AndAlso, OrElse, Xor

String Manipulation

.Substring(<start>,[<length>])
.Trim() <trims from beginning & end of string>
.TrimEnd([<char array>])
.TrimStart([<char array>])
.ToLower() <to lower case>
.ToUpper() <to upper case>
.Replace(<find>,<replace>)
.Equals(<expression>) <6 available overloads>
.Contains(<string>)
.Join(<separator>,<value>,[<count>])
.Compare(<string1>,<string2>,[<ignore case>]) <7 overloads available>
.Copy(<string>)

If Else

If(<expression>) Then
 <statement 1>

Else
 <statement 2>
End If

Inline If

variable = If(condition, value_if_false, value_if_true)

For Loop

For <initialize> (Relational Operator) <condition>
 <statement>
Next

For Each Loop

For Each <variable> In <object>
 [Exit For]
 <statements>
 [Continue For]
 <statements>
Next

While Loop

While <expression>
 <statement>
End While

Do-While Loop

Do
 <statement>
Loop While <expression>

Select Case Statement

Select Case <expression>
Case <expression1>:
 <statement sequence 1>
Case <expression2>
 <statement sequence 2>
Case <expressionN>
 <statement sequence N-1>
Case Else
 <statement sequence N>
End Select

Function Structure

<Private, Public> <Function_Name>([Parameters])
 body of the function
End Function

Class Structure

Public Class <Class_Name>
 body of class
End Class

Public

'method_prototypes
'data_attributes
Private
 'method_prototypes
 'data_attributes
Friend
 'method_prototypes
Shared
 'method_prototypes
 'data_attributes

Error Handling

Try
 <statements that may cause an error>
Catch
 <statements to use when an error occurs>
Finally
 <statements to use no matter what happens>
End Try