# **Visual Basic .NET Cheat Sheet**

A concise reference for Visual Basic .NET (VB.NET) syntax, concepts, and common tasks.

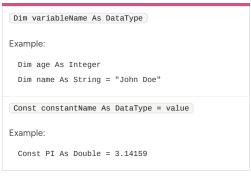


## **Language Basics**

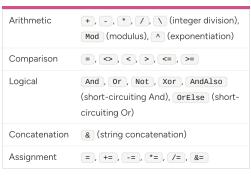
# Data Types

### True or False value. Boo lea n Byt 8-bit unsigned integer (0 to 255). е Sho 16-bit signed integer (-32,768 to 32,767). rt 32-bit signed integer (-2,147,483,648 to Int 2,147,483,647). ege Lon 64-bit signed integer (-9,223,372,036,854,775,808 to g 9,223,372,036,854,775,807). Sin 32-bit floating-point number. gle Dou 64-bit floating-point number. ble 128-bit data type suitable for financial and Dec monetary calculations. ima 1 Sequence of Unicode characters. Str ing

### Variable Declaration



### Operators

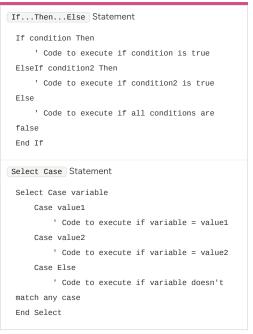


### **Control Flow**

Dat

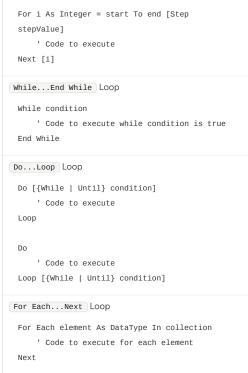
## Conditional Statements

Represents a date and time value.



### **Looping Structures**

For...Next Loop



# **Exception Handling**



# **Procedures and Functions**

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### Sub Procedures (Void)

```
Sub ProcedureName([parameterList]) ' Code to
execute End Sub

Example:

Sub Greet(name As String)

Console.WriteLine("Hello, " & name & "!")
End Sub
```

## Function Procedures (Return Value)

```
Function FunctionName([parameterList]) As

ReturnType ' Code to execute Return returnValue

End Function

Example:

Function Add(x As Integer, y As Integer) As

Integer

Return x + y

End Function
```

### **Parameters**

```
ByVa
          Passes a variable by value (a copy is passed).
1
          Passes a variable by reference (the original
ByRe
          variable is passed, allowing modification).
Optio
          Specifies that a parameter is optional. Must
          have a default value.
nal
          Optional param As DataType =
          defaultValue
Param
          Allows a procedure to accept an arbitrary
          number of arguments of a specified type.
Array
          ParamArray paramName() As DataType
```

# **Object-Oriented Programming**

### Classes

```
Class ClassName ' Class members (fields,
properties, methods) End Class

Example:
Class Dog
Public Name As String
Public Sub Bark()
Console.WriteLine("Woof!")
End Sub
End Class
```

## **Properties**

```
Property PropertyName As DataType Get ' Code to
return the property value End Get Set(value As
DataType) ' Code to set the property value End Set
End Property

Example:

Private _age As Integer
Public Property Age As Integer
Get
Return _age
End Get
Set(value As Integer)
If value >= 0 Then
_age = value
End If
End Set
End Property
```

### Inheritance

```
Class DerivedClass Inherits BaseClass ' Derived class members End Class

Example:

Class Animal
    Public Name As String
End Class

Class Dog
    Inherits Animal
    Public Sub Bark()
        Console.WriteLine("Woof!")
    End Sub
End Class
```

### Interfaces

```
Interface InterfaceName ' Interface members
(method signatures, property signatures) End
Interface

Implements InterfaceName

Example:

Interface IAnimal
Sub MakeSound()
End Interface

Class Dog
Implements IAnimal
Public Sub MakeSound()
Console.WriteLine("Woof!")
End Sub
End Class
```