

VBA String Cheat Sheet

VBA String Data Types

String

Used to hold text

Variant

Can hold text, but it is better to declare your variable as a string.

Basic VBA String Operations

Assign Text to String Variable

```
Dim favFood As String
favFood = "Pizza"
'Strings must be contained within
'parenthesis
```

Concatenate String With String

```
Dim fullName as String
fullName = "Joe " & "Brown"
```

Concatenate String With Variable

```
Dim fullName as String, firstName as String
firstName = "Joe"
fullName = firstName & " Brown"
```

Concatenate Variable With Variable

```
Dim fullName as String, firstName as String, lastName as String
firstName = "Joe"
lastName = "Brown"
fullName = firstName & " " & lastName
```

Get Length Of String

```
Dim fullName as String, stringLength as Integer
fullName = "Joe Brown"
stringLength = Len(fullName)
'stringLength now contains the value 9
```

Trim String

```
Dim fullName As String, stringLength as Integer
fullName = " George Washington "
stringLength = Len(fullName)
'stringLength now contains the value 21
fullName= Trim(fullName)
stringLength = Len(fullName)
'stringLength now contains the value 17
```

Convert Value to String

```
Dim myInt as Integer, myStr as String
myInt = 100
myStr = CStr(myInt)
'myStr contains "100" and myInt contains 100
```

Reminder

Green Text

Used to hold comments
'This is a comment

Bold Code

The code in bold is the focus of the section. For example, in the string split section the **Split** keyword is in bold

Using Sub

You can copy/paste these examples into a VBA editor. Just make sure you put them into a Sub

VBA Operations to Change String Variables

Left Slice of String

```
Dim fullName as String, firstName as String
fullName = "George Washington"
firstName = Left(fullName, 6)
'firstName now contains "George"
```

Right Slice of String

```
Dim fullName as String, lastName as String
fullName = "George Washington"
lastName = Right(fullName, 10)
'lastName now contains "Washington"
```

Middle Slice of String

```
Dim fullName as String, lastName as String
fullName = "George Ed Washington"
lastName = Mid(fullName, 8,2)
'lastName now contains "Ed"
```

Replace Character in String

```
Dim myStr as String
myStr = "joy"
myStr = Replace(myStr, "j", "t")
'myStr now contains "toy"
```

Replace Word in String

```
Dim myStr as String
myStr = "I love pizza"
myStr = Replace(myStr, "pizza", "fruit")
'myStr now contains "I love fruit"
```

VBA String Case Operators

Convert String to Uppercase

```
Dim myStr as String
myStr = "i love pizza"
myStr = Ucase(myStr)
'myStr now contains "I LOVE PIZZA"
```

Convert String to Lowercase

```
Dim myStr as String
myStr = "I LOVE PIZZA"
myStr = Lcase(myStr)
'myStr now contains "i love pizza"
```

Finding Characters or Words in VBA Strings

Find Character Position In String

```
Dim myStr as String, strLocation as Integer
myStr = "I love pizza"
strLocation = InStr(myStr, "z")
'strLocation now contains the value 10
```

Find Word Position In String From the Left

```
Dim myStr as String, strLocation as Integer
myStr = "I love pizza"
strLocation = InStr(myStr, "pizza")
'strLocation now contains the value 8
```

Splitting Strings

Split sentence into array containing individual words

```
Dim myStr As String, strArray() As String
myStr = "I love pizza"
strArray = Split(myStr)
'strArray now contains a one dimensional
'array containing "I", "love" and
'"pizza"
```

Split comma delimited string into array of individual words

```
Dim myStr As String, strArray() As String
myStr = "john,smith,large,onion"
strArray = Split(myStr, ",")
'strArray now contains a one dimensional
'array containing "john", "smith" and
'"large" and "onion"
```

Joining Strings

Join an array of strings into a single string

```
Dim myStr As String, strArray(0 to 2) As String
strArray(0) = "I"
strArray(1) = "love"
strArray(2) = "pizza"
myStr = Join(strArray)
'myStr now contains "I love pizza"
```

VBA String Cheat Sheet

Join an Array of Strings with comma delimiter

```
Dim myStr As String, strArray(0 to 2) As String
strArray(0) = "I"
strArray(1) = "love"
strArray(2) = "pizza"
myStr = Join(strArray, ",")
' myStr now contains "I,love,pizza"
```