

How can I split a string into an array using VBA? Can you provide an example?

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To split a string into an array using VBA, you can use the built-in function "Split". This function takes two arguments - the string to be split and the delimiter that will determine where the string will be split. The output of this function is an array with the individual elements of the string. For example, if we have a string "Hello World" and use a space (" ") as the delimiter, the resulting array will have two elements - "Hello" and "World". This function can be useful for manipulating strings and extracting specific information. An example of using the "Split" function in VBA is shown below:

```
Dim myString As String
myString = "I love programming"
Dim myArray() As String
myArray() = Split(myString, " ")
' myArray now contains {"I", "love", "programming"}
```

VBA: Split String into Array (With Example)

You can use the following basic syntax to split a string into an array using VBA:

Sub SplitString()

Dim SingleValue() As String

Dim i As Integer

Dim j As Integer

For i = 2 To 7

SingleValue = Split(Range("A" & i), " ")

For j = 1 To 2

Cells(i, j + 1).Value = SingleValue(j - 1)

Next j

Next i

End Sub

This particular example splits each string in the range A2:A7 based on spaces in each string and then assigns the resulting elements of each string into cell ranges B2:B7 and C2:C7.

The following example shows how to use this syntax in practice.

Example: Using VBA to Split String into Array

Suppose we have the following list of strings in Excel:

	A	B	C	D	E
1	Name				
2	Andy Smith				
3	Bob Wilson				
4	Chad James				
5	Dan Turman				
6	Eric Davis				
7	Frank Douglas				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Suppose we would like to split each string based on spaces and then assign the resulting elements of each string to new cells.

We can create the following macro to do so:

```
Sub SplitString()
```

```
Dim SplitValues() As String
```

```
Dim i As Integer
```

```
Dim j As Integer
```

```
For i = 2 To 7
```

```
SplitValues = Split(Range("A" & i), " ")
```

```
For j = 1 To 2
```

```
Cells(i, j + 1).Value = SplitValues(j - 1)
```

```
Next j
```

```
Next i
```

```
End Sub
```

When we run this macro, we receive the following output:

	A	B	C	D	E
1	Name				
2	Andy Smith	Andy	Smith		
3	Bob Wilson	Bob	Wilson		
4	Chad James	Chad	James		
5	Dan Turman	Dan	Turman		
6	Eric Davis	Eric	Davis		
7	Frank Douglas	Frank	Douglas		
8					
9					
10					
11					
12					
13					
14					
15					
16					

Notice that columns B and C contain the first and last names of each full name in column A.

Also note that you can use the VBA Split function to split an array based on a different delimiter.

For example, suppose we have the following list of emails:

	A	B	C	D	E	F
1	Email					
2	andy@gmail.com					
3	bob@yahoo.com					
4	chad@gmail.com					
5	dan@aol.com					
6	eric@gmail.com					
7	frank@yahoo.com					
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

Suppose we would like to split each email into an array based on where the @ symbol occurs.

Sub SplitString()

Dim SplitValues() As String

Dim i As Integer

Dim j As Integer

For i = 2 To 7

SplitValues = Split(Range("A" & i), "@")

```
For j = 1 To 2
```

```
Cells(i, j + 1).Value = SplitValues(j - 1)
```

```
Next j
```

```
Next i
```

```
End Sub
```

When we run this macro, we receive the following output:

	A	B	C	D	E	F
1	Email					
2	andy@gmail.com	andy	gmail.com			
3	bob@yahoo.com	bob	yahoo.com			
4	chad@gmail.com	chad	gmail.com			
5	dan@aol.com	dan	aol.com			
6	eric@gmail.com	eric	gmail.com			
7	frank@yahoo.com	frank	yahoo.com			
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						

The Split function split each email in column A based on the @ symbol and outputted the resulting elements in columns B and C.

Note: You can find the complete documentation for the VBA Split function .

The following tutorials explain how to perform other common tasks using VBA:

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