

How can I split a string in VBA based on multiple delimiters?

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Splitting a string in VBA based on multiple delimiters refers to the process of dividing a given string into smaller substrings using more than one designated character or sequence as a separator. This allows for more precise and flexible manipulation of text data in VBA programming. By utilizing the built-in "Split" function and specifying the desired delimiters, one can easily extract and organize different portions of a string to perform various tasks and operations. This feature is especially useful when dealing with complex data structures or when needing to extract specific information from a large string.

VBA: Split String Based on Multiple Delimiters

You can use the following basic syntax to split a string based on multiple delimiters in VBA:

```
Sub SplitString()
```

```
Dim SingleValue() As String
```

```
Dim i As Integer
```

```
Dim j As Integer
```

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

```
newString = Replace(Range("A" & i), "-", " ")
```

```
SingleValue = Split(newString , " ")
```

```
For j = 1 To 3
```

```
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 either dashes or spaces in each string and then assigns the resulting elements of each string into the adjacent cells in columns B, C and D.

Note: This macro first replaces each dash with a space, then splits each string based on where the spaces occur.

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

Example: Split String Based on Multiple Delimiters in VBA

Suppose we have the following list of names in Excel:

	A	B	C	D	E
1	Name				
2	Andy Douglas-Johnson				
3	Mike Williams-Senior				
4	Chad Michael Lewis				
5	Arnold Jake Smith				
6	Eric-Wear Menson				
7	Frank Collins-Junior				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

Suppose we would like to split each name based on either dashes or 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 SingleValue() As String
```

```
Dim i As Integer
```

```
Dim j As Integer
```

```
For i = 2 To 7  
newString = Replace(Range("A" & i), "-", " ")  
SingleValue = Split(newString , " ")
```

```
For j = 1 To 3  
Cells(i, j + 1).Value = SingleValue(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 Douglas-Johnson	Andy	Douglas	Johnson	
3	Mike Williams-Senior	Mike	Williams	Senior	
4	Chad Michael Lewis	Chad	Michael	Lewis	
5	Arnold Jake Smith	Arnold	Jake	Smith	
6	Eric-Wear Menson	Eric	Wear	Menson	
7	Frank Collins-Junior	Frank	Collins	Junior	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

Notice that this macro splits each string in column A based on spaces and dashes and outputs the individual text elements of each string into columns B, C and D.

Note #1: We split strings based on dashes and spaces in this example, but you can split strings based on any delimiters you'd like by specifying them in the Replace and Split functions.

Note #2: You can find the complete documentation for the VBA Split function .