

Re: Compare text string of a cell in Column A VS another cell in Column

Source:

<http://www.tech-archive.net/Archive/Excel/microsoft.public.excel.newusers/2007-08/msg00002.html>

- From: Max <demechanik@xxxxxxxxxx>
 - Date: Wed, 1 Aug 2007 00:48:01 -0700
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Presuming that what you're after is a way to apply CF with a measure of fuzzy matching, here's something which might work (it uses Ron Rosenfeld's FrstLtrs UDF) ..

Illustrated in this sample:

<http://www.flypicture.com/download/ODk3OQ==>

Fuzzy Match n Conditional Formatting.xls

Assume source data within A2:A200 (eg M O E, 3M, M O M, etc), with data to be conditionally formatted in B2 down (eg Ministry of Education, 3M Korea, Ministry of Manpower, etc) based on fuzzy matching with source data in col A

Select col B, then apply conditional format using Formula is:

Condition 1:

=SUMPRODUCT(ISNUMBER(SEARCH(A\$2:A\$200,B1))*(A\$2:A\$200<>""))>0

Format: Red fill/white font,bolded

Condition 2:

=AND(B1<>"",SUMPRODUCT((ISNUMBER(SEARCH(FrstLtrs(B1),SUBSTITUTE(A\$2:A\$200,"", ""))))*(A\$2:A\$200<>""))>0)

Format: Dark Blue fill/white font,bolded

The above requires Ron Rosenfeld's FrstLtrs UDF (below) to be pre-installed:

'=====

Function FrstLtrs(str As String) As String

' Ron Rosenfeld

Dim temp

Dim i As Long

temp = Split(Trim(str))

For i = 0 To UBound(temp)

FrstLtrs = FrstLtrs & Left(temp(i), 1)

Next i

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<http://savefile.com/projects/236895>

xdemechanik

"Tan" wrote:

Hi All,

I would appreciate greatly if any vba expert could help me with this solution urgently as my deadline is drawing near (today) and i could not resolve this solution for cell comparison.

I have a vba function code below written in such a way that it compares a cell in Column A versus another cell in Column B. But both cells must be the same row in order to compare. Say cell A2 contains "M O E" and cell B2 contains "Ministry of Education" and my function in cell C2 which is = Fuzzy(A2,B2), will give me 100% correct percentages. The other example is where A2 contains "3M" and cell B2 contains "3M Korea" and also returns 100%.

I need someone to advise me how there is any way i could re-code my solution such that if "3M" is in any cell in Column A say A150 and "3M Korea" is in say cell B55 under column B. End result is both cell A150 and B55 matches by means of colored cell as it is 100% correct. Also it must not be case sensitive during matching.

Thanks in advance...

Below is my old code:

```
Dim TopMatch As Integer
Dim strCompare As String
Function Fuzzy(strIn1 As String, strIn2 As String) As Single
Dim L1 As Integer
Dim In1Mask(1 To 24) As Long 'strIn1 is 24 characters max
Dim iCh As Integer
Dim N As Long
Dim strTry As String
Dim strTest As String
```

```
TopMatch = 0
L1 = Len(strIn1)
strTest = UCase(strIn1)
strCompare = UCase(strIn2)
```

```
For iCh = 1 To L1
In1Mask(iCh) = 2 ^ iCh
Next iCh
```

```
'Loop thru all ordered combinations of characters in strIn1
For N = 2 ^ (L1 + 1) - 1 To 1 Step -1
```

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```
strTry = ""
For iCh = 1 To L1
If In1Mask(iCh) And N Then
strTry = strTry & Mid(strTest, iCh, 1)
End If
Next iCh
If Len(strTry) > TopMatch Then TestString strTry
Next N
```

```
Fuzzy = TopMatch / CSng(L1)
```

```
End Function
Sub TestString(strIn As String)
Dim L As Integer
Dim strTry As String
Dim iCh As Integer
```

```
L = Len(strIn)
If L <= TopMatch Then Exit Sub
```

```
strTry = ""
```

```
For iCh = 1 To L
strTry = strTry & Mid(strIn, iCh, 1) & ""
Next iCh
```

```
If strCompare Like strTry Then
If L > TopMatch Then TopMatch = L
End If
```

```
End Sub
```