Microsoft Excel

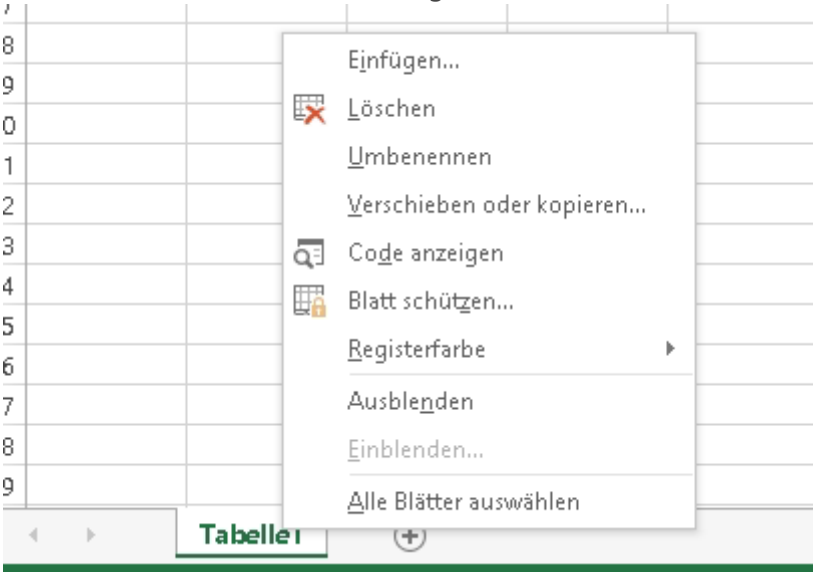
- VBA - Macros
  - VBA - Makro- Zahlen in Textumwandeln mit Komma und Rundungen
- Fehler
  - Direkt nach start Excel Funktioniert nicht mehr

VBA - Macros

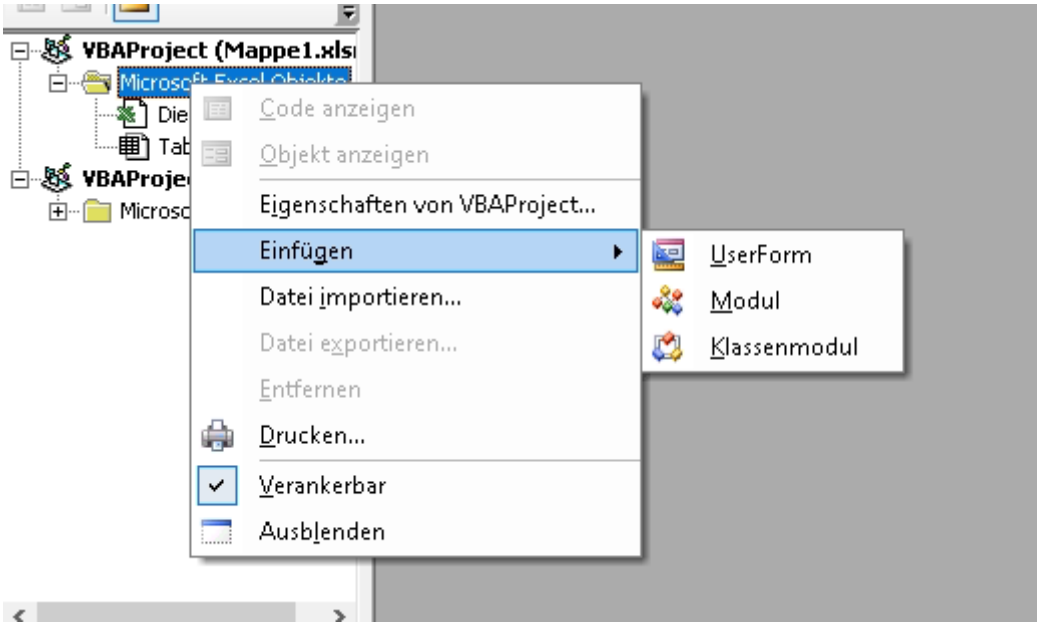
Hier einige Macros und Code Beispiele

VBA - Makro- Zahlen in Textumwandeln mit Komma und Rundungen

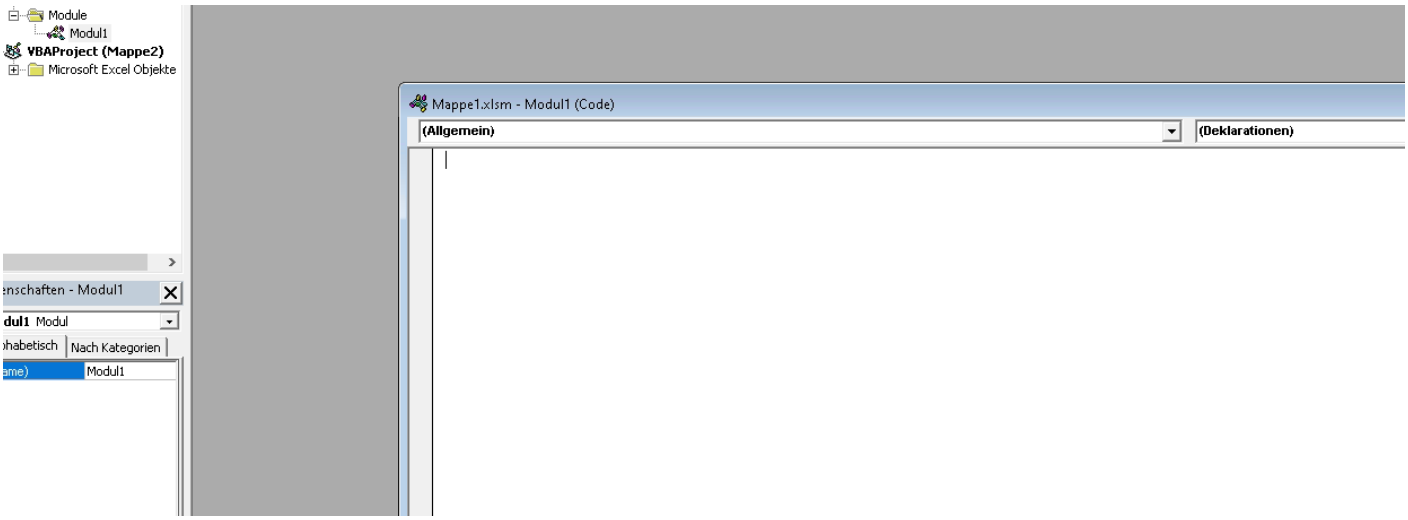
In Excel Rechtklick auf den Registerreiter des Tabellensheets und ann Code anzeigen auswählen



Nun Rechtsklick auf Microsoft Excel Objekte -> Einfügen -> Modul



Nun doppelklick auf das neue Modul. Nun öffnet sich ein neues Fenster.



Dort diesen Inhalt einfügen. Sollten umlaute durchs kopieren nicht richtig dargestellt werden. Diese eben korrigieren.
Und das Fenster schließen. Das fertige Modul gibts auch im Anhang, mit den korrigierten Umlauten hier zum Downlod ZahlenInText.bas

```
Private sNWord(0 To 28) As String
Private sHWord(1 To 4) As String

Function sbInWorten(ByVal sNumber As String) As String
  sbInWorten = sbSpellNumber(sNumber, "German", "EUR")
End Function

Function sbSpellNumber(ByVal sNumber As String, _
        Optional sLang As String = "English", _
        Optional sCcy As String = "USD") As String
'Template was Microsoft's limited version:
'https://support.microsoft.com/de-de/help/213360/
'how-to-convert-a-numeric-value-into-english-words-in-excel
'This version informs the user about its limits.
'Source (EN): http://www.sulprobil.com/sbspellnumber_en/
'Source (DE): http://www.bplumhoff.de/sbinworten_de/
'(C) (P) by Bernd Plumhoff  02-Mar-2018 PB V1.0

Dim Euros As String, cents As String
Dim Result As String, Temp As String
Dim DecimalPlace As Integer, Count As Integer
Dim Place(1 To 6) As String
Dim dNumber As Double
Dim prefix As String, suffix As String
```

```
Select Case sLang
Case "English"
   Place(1) = ""
   Place(2) = " Thousand "
   Place(3) = " Million "
   Place(4) = " Billion "
   Place(5) = " Trillion "
   Place(6) = " Mantissa not wide enough for this number "
   sHWord(1) = ">>>>> Error (Absolute amount > 999999999999999)! <<<<<"
   sHWord(2) = " (rounded)"
   sHWord(3) = "Minus "
   sHWord(4) = "and"
   sNWord(0) = "zero"
   sNWord(1) = "one"
   sNWord(2) = "two"
   sNWord(3) = "three"
   sNWord(4) = "four"
   sNWord(5) = "five"
   sNWord(6) = "six"
   sNWord(7) = "seven"
   sNWord(8) = "eight"
   sNWord(9) = "nine"
   sNWord(10) = "ten"
   sNWord(11) = "eleven"
   sNWord(12) = "twelve"
   sNWord(13) = "thirteen"
   sNWord(14) = "fourteen"
   sNWord(15) = "fifteen"
   sNWord(16) = "sixteen"
   sNWord(17) = "seventeen"
   sNWord(18) = "eighteen"
   sNWord(19) = "nineteen"
   sNWord(20) = "twenty"
   sNWord(21) = "thirty"
   sNWord(22) = "fourty"
   sNWord(23) = "fifty"
   sNWord(24) = "sixty"
   sNWord(25) = "seventy"
   sNWord(26) = "eighty"
```

```
    sNWord(27) = "ninety"
    sNWord(28) = "hundred"
  Case "German"
    Place(1) = ""
    Place(2) = " Tausend "
    Place(3) = " Millionen "
    Place(4) = " Milliarden "
    Place(5) = " Billionen "
    Place(6) = " Die Mantisse ist nicht groß genug für diese Zahl "
    sHWord(1) = ">>>>> Fehler (Absolutbetrag > 999999999999999)! <<<<<"
    sHWord(2) = " (gerundet)"
    sHWord(3) = "Minus "
    sHWord(4) = "und"
    sNWord(0) = "null"
    sNWord(1) = "ein"
    sNWord(2) = "zwei"
    sNWord(3) = "drei"
    sNWord(4) = "vier"
    sNWord(5) = "fünf"
    sNWord(6) = "sechs"
    sNWord(7) = "sieben"
    sNWord(8) = "acht"
    sNWord(9) = "neun"
    sNWord(10) = "zehn"
    sNWord(11) = "elf"
    sNWord(12) = "zwölf"
    sNWord(13) = "dreizehn"
    sNWord(14) = "vierzehn"
    sNWord(15) = "fünfzehn"
    sNWord(16) = "sechzehn"
    sNWord(17) = "siebzehn"
    sNWord(18) = "achtzehn"
    sNWord(19) = "neunzehn"
    sNWord(20) = "zwanzig"
    sNWord(21) = "dreißig"
    sNWord(22) = "vierzig"
    sNWord(23) = "fünfzig"
    sNWord(24) = "sechzig"
    sNWord(25) = "siebzig"
    sNWord(26) = "achtzig"
```

```
    sNWord(27) = "neunzig"
    sNWord(28) = "hundert"
End Select

'Empty string = 0
If "" = sNumber Then
    sNumber = "0"
End If

dNumber = sNumber + 0#

'If we cannot cope with it, tell the user!
If Abs(dNumber) > 999999999999999# Then
    sbSpellNumber = sHWord(1)
    Exit Function
End If

'If we have to round we present a suffix "(rounded)"
If Abs(dNumber - Round(dNumber, 2)) > 1E-16 Then
    dNumber = Round(dNumber, 2)
    suffix = sHWord(2)
End If

'Negative numbers get a prefix "Minus"
If dNumber < 0# Then
    prefix = sHWord(3)
    dNumber = -dNumber
    sNumber = Right(sNumber, Len(sNumber) - 1)
End If

sNumber = Trim(Str(sNumber))
If Left(sNumber, 1) = "." Then
    sNumber = "0" & sNumber
End If

DecimalPlace = InStr(sNumber, ".")

If DecimalPlace > 0 Then
    cents = GetTens(Left(Mid(sNumber, DecimalPlace + 1) & "00", 2), _
              sLang, sCcy)
```

```
    sNumber = Trim(Left(sNumber, DecimalPlace - 1))
End If

Count = 1
Do While sNumber <> ""
    Temp = GetHundreds(Right(sNumber, 3), sLang, sCcy)
    If Temp <> "" Then
        If Euros <> "" And sLang = "German" Then
            Euros = Temp & Place(Count) & " " & _
                    sHWord(4) & " " & Euros
        Else
            Euros = Temp & Place(Count) & Euros
        End If
    End If
    If Len(sNumber) > 3 Then
        sNumber = Left(sNumber, Len(sNumber) - 3)
    Else
        sNumber = ""
    End If
    Count = Count + 1
Loop

Select Case sCcy
Case "EUR"
    Select Case Euros
        Case ""
            Euros = sNWord(0) & " Euros"
        Case sNWord(1)
            Euros = sNWord(1) & " Euro"
        Case Else
            Euros = Euros & " Euros"
    End Select

    Select Case cents
        Case ""
            cents = " " & sHWord(4) & " " & sNWord(0) & " Cents"
        Case sNWord(1)
            cents = " " & sHWord(4) & " " & sNWord(1) & " Cent"
        Case Else
            cents = " " & sHWord(4) & " " & cents & " Cents"
```

```
    End Select
Case "GBP"
    Select Case Euros
        Case ""
            Euros = sNWord(0) & " Pounds"
        Case sNWord(1)
            Euros = sNWord(1) & " Pound"
        Case Else
            Euros = Euros & " Pounds"
    End Select

    Select Case cents
        Case ""
            cents = " " & sHWord(4) & " " & sNWord(0) & " Pence"
        Case sNWord(1)
            cents = " " & sHWord(4) & " " & sNWord(1) & " Penny"
        Case Else
            cents = " " & sHWord(4) & " " & cents & " Pence"
    End Select
Case "USD"
    Select Case Euros
        Case ""
            Euros = sNWord(0) & " Dollars"
        Case sNWord(1)
            Euros = sNWord(1) & " Dollar"
        Case Else
            Euros = Euros & " Dollars"
    End Select

    Select Case cents
        Case ""
            cents = " " & sHWord(4) & " " & sNWord(0) & " Cents"
        Case sNWord(1)
            cents = " " & sHWord(4) & " " & sNWord(1) & " Cent"
        Case Else
            cents = " " & sHWord(4) & " " & cents & " Cents"
    End Select
End Select

Temp = UCase(Replace(Euros & cents, "  ", " "))
```

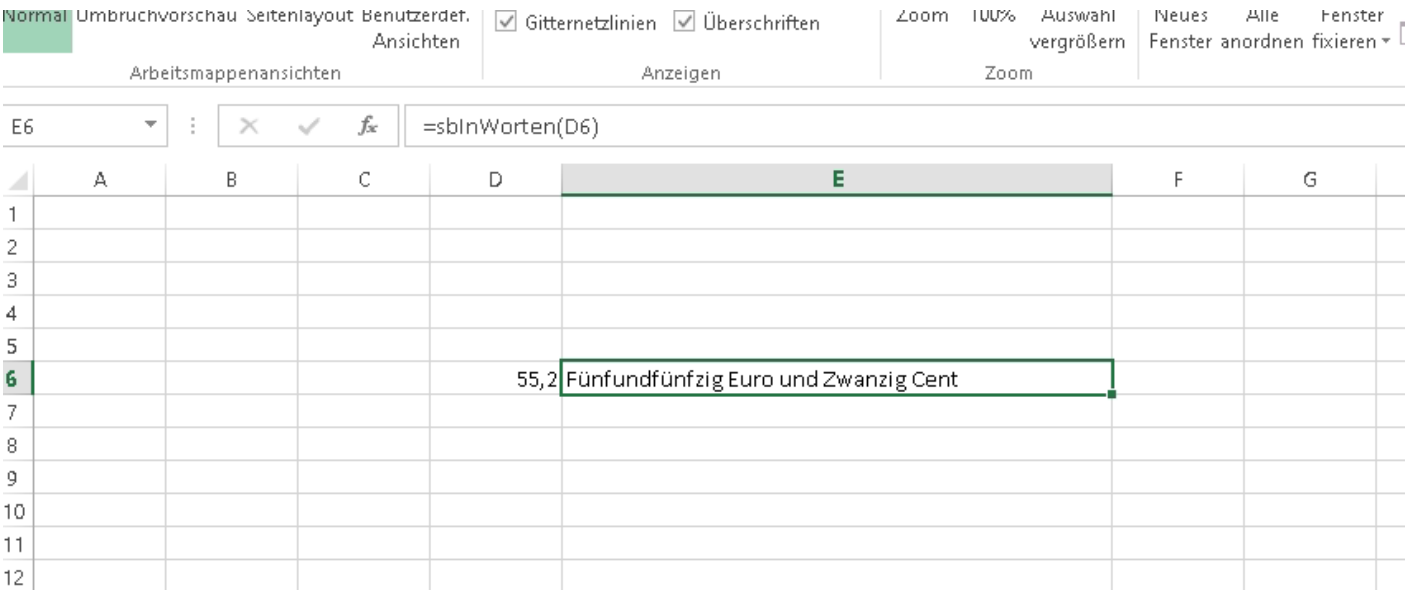
```
Select Case sLang
Case "English"
   Temp = Application.WorksheetFunction.Proper(Temp)
   Temp = Replace(Temp, " And ", " and ")
Case "German"
   Temp = Application.WorksheetFunction.Proper(Temp)
   Temp = Replace(Temp, "Ein Millionen", "Eine Million")
   Temp = Replace(Temp, "Ein Milliarden", "Eine Milliarde")
   Temp = Replace(Temp, "Ein Billionen", "Eine Billion")
   Temp = Replace(Temp, "Dollars", "Dollar")
   Temp = Replace(Temp, "Cents", "Cent")
   Temp = Replace(Temp, "Pounds", "Pfund")
   Temp = Replace(Temp, "Pound", "Pfund")
   Temp = Replace(Temp, "Euros", "Euro")
   Temp = Replace(Temp, "Pence", "Pennies")
   Temp = Replace(Temp, " Und ", " und ")
End Select

sbSpellNumber = prefix & Temp & suffix

End Function

Private Function GetHundreds(ByVal sNumber, _
         Optional sLang As String = "English", _
         Optional sCcy As String = "USD") As String
Dim Result As String

If Val(sNumber) = 0 Then Exit Function
   sNumber = Right("000" & sNumber, 3)

   If Mid(sNumber, 1, 1) <> "0" Then
      Result = GetDigit(Mid(sNumber, 1, 1)) _
            & sNWord(28)
      If Mid(sNumber, 2, 2) <> "00" Then
         Result = Result & sHWord(4)
      End If
   End If

   If Mid(sNumber, 2, 1) <> "0" Then
      Result = Result & GetTens(Mid(sNumber, 2), sLang, sCcy)
```

```
  ElseIf Mid(sNumber, 3, 1) <> "0" Then
    Result = Result & GetDigit(Mid(sNumber, 3))
  End If

  GetHundreds = Result
End Function

Private Function GetTens(TensText As String, _
        Optional sLang As String = "English", _
        Optional sCcy As String = "USD")
Dim Result As String

Result = ""
If Val(Left(TensText, 1)) = 1 Then   '10-19...
  If Val(TensText) > 9 And Val(TensText) < 20 Then
    GetTens = sNWord(Val(TensText))
  End If
  Exit Function
Else                            '20-99...
  If Val(Left(TensText, 1)) > 1 And _
    Val(Left(TensText, 1)) < 10 Then
    Result = sNWord(18 + Val(Left(TensText, 1)))
  Else
    Result = GetDigit(Right(TensText, 1))
  End If
  If Right(TensText, 1) <> "0" And Left(TensText, 1) <> "0" Then
    Select Case sLang
    Case "German"
      Result = GetDigit(Right(TensText, 1)) & _
            sHWord(4) & Result
    Case "English"
      Result = Result & GetDigit(Right(TensText, 1))
    End Select
  End If
End If
GetTens = Result
End Function

Private Function GetDigit(Digit As String) As String
If Val(Digit) < 10 Then
```

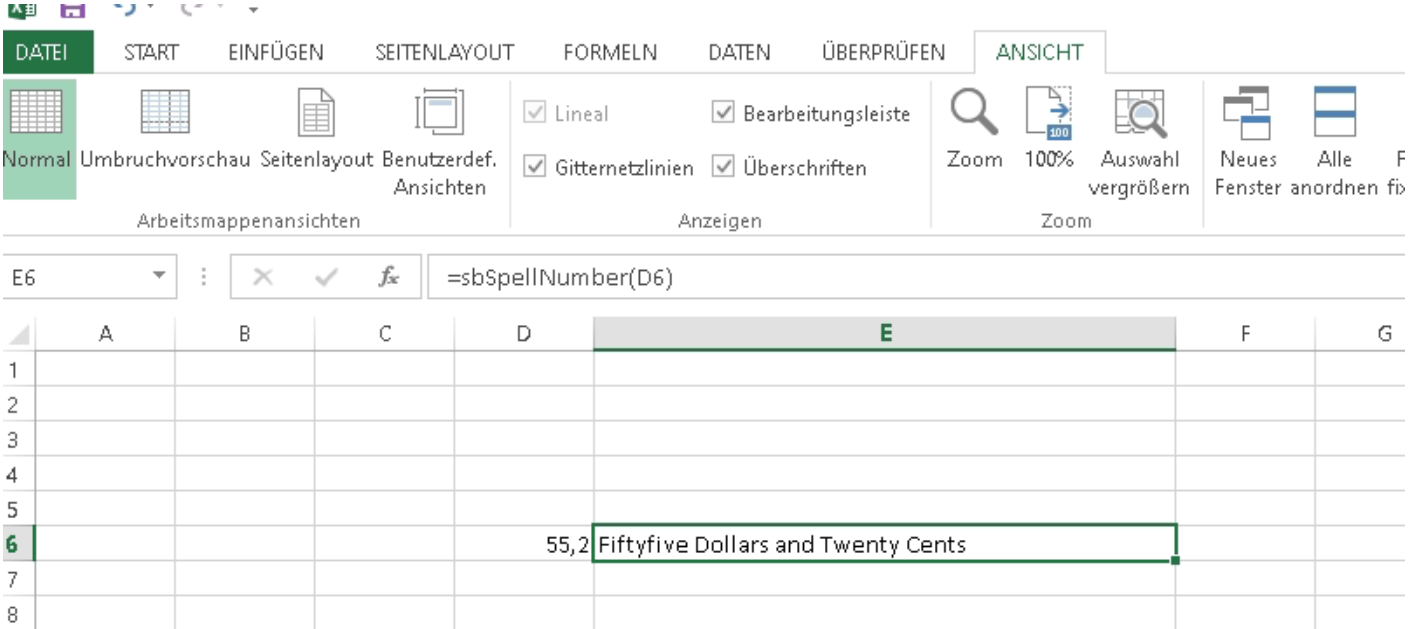
```
    GetDigit = sNWord(Val(Digit))
  Else
    GetDigit = ""
  End If
  End Function
```

Nun den code Editor dicht machen. In eine Zeile eine Zahl schreiben und in ein anderes Feld die Formel

```
=sbInWorten(D6)


'D6 ist die Beispiel Zelle
```




```
sSpellNumbers wäre dann in englisch


=sbSpellNumber(D6)


D6 ist die Beispielzelle
```



Eigene Funktion für Sprache und Währung

```
Function MeineFunktion(ByVal sNumber As String) As String
   MeineFunktion = sbSpellNumber(sNumber, "German", "GBP")
End Function
```

sbSpellNumber(sNumber, dann Sprache, dann Währung)

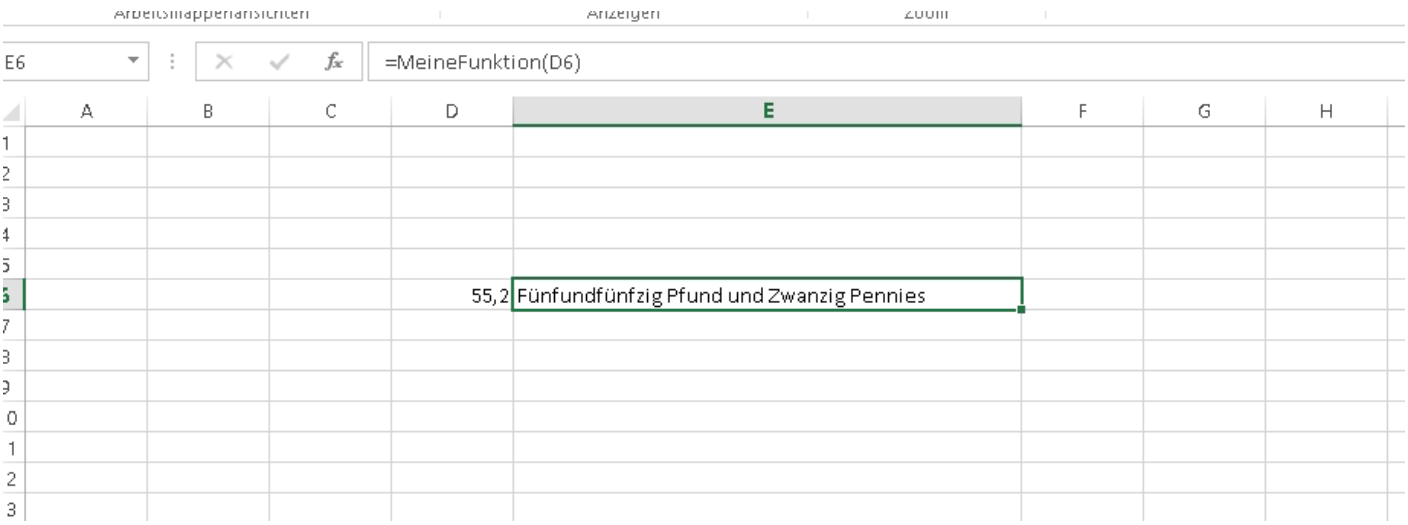
Diese Sprachen stehen zur Verfügung:

English
German

Diese Währungen stehen zur Verfügung

EUR = Euro und Cent
GBP = Pounds und Pennies
USD = Dollar und Cent

Beispiel von meinerFunktion Deutsch und Pfund



Es können natürlich da es eine Case Abfrage ist, auch noch Währungen und Sprachen im Makro hinzugefügt werden.

Aber in der Regel reicht uns das in Deutschland schon.

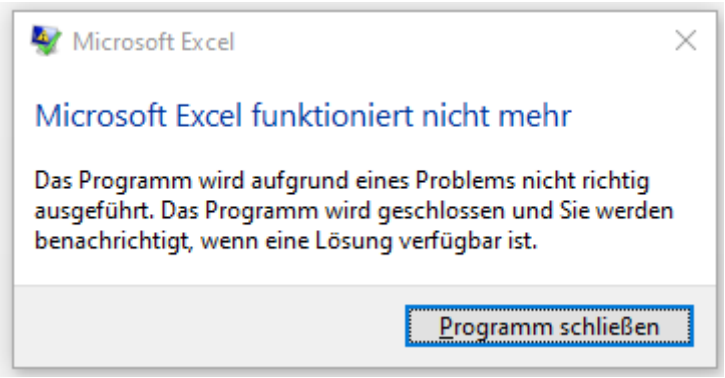
Fehler

Fehler

Direkt nach start Excel Funktioniert nicht mehr

Beschreibung:

Ab Office 2023 und höher.
Beim Start kommt von Excel direkt die Fehlermeldung:



Lösungen:

- Eventuell ist der Abby Transformer Schuld mit seinem Addin.
  Dieses deinstallieren und danach wieder installieren: