

New Page

I use this function to create fractions, it supports a "Precision" that defaults to 32 so you can use 16, 32, 64, etc... if you want.

You use it the same way as MV Fractions.

Examples:

With 32nd being default `Fraction(45.89763) = 45-29/32`

If i set the 2nd param to a 16th then `Fraction((45.89763, 16) = 45-7/8`

```
Public Function Fraction(ByVal DecimalNumber As Object, _  
  
    Optional ByVal Precision As Long = 32, _  
    Optional ShowDash As Boolean = True, _  
    Optional RoundDown As Boolean = False) As String  
  
    Dim GCD, TopNumber, Remainder, WholeNumber, Numerator, Denominator As Integer  
  
    If IsNumeric(DecimalNumber) Then  
        If RoundDown Then  
            DecimalNumber = Math.Floor(CDBL(DecimalNumber) * Precision) / Precision  
        Else  
            DecimalNumber = CDBL(DecimalNumber)  
        End If  
  
        WholeNumber = Fix(DecimalNumber)  
        Denominator = Precision  
        Numerator = Denominator * Math.Abs(DecimalNumber - WholeNumber)  
  
        If (Numerator <> Denominator) And (Numerator > 0) Then  
            GCD = Precision  
            TopNumber = Numerator  
            Do  
                Remainder = (GCD Mod TopNumber)
```

GCD = TopNumber

TopNumber = Remainder

Loop Until Remainder = 0

Numerator = Numerator \ GCD

Denominator = Denominator \ GCD

' Create and return the fraction

Fraction = If(DecimalNumber < 0 And WholeNumber = 0, "-", "") & _

 If(WholeNumber <> 0, CStr(WholeNumber), "") & _

 If(ShowDash And WholeNumber <> 0, "-", If(WholeNumber <> 0, " ", "")) & _

 CStr(Numerator) & "/" & CStr(Denominator) & ""

Else

 If Numerator = Precision Then WholeNumber += 1

 Fraction = CStr(WholeNumber) & ""

End If

Else

 Return ""

End If

End Function

Revision #1

Created 10 March 2025 14:40:44 by brad

Updated 10 March 2025 14:45:18 by brad