



CodePrinter.xlsm
www.github.com/alexofrhodes

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--- Home ---

```
Sub Main()
```

```
    uCodePrinter.Show
```

```
End Sub
```

```
Sub CodePrinterButtonClicked(control As IRibbonControl)
```

```
    Main
```

```
End Sub
```

--- uCodePrinter ---

```
' Author    Anastasiou Alex
' Project    CodePrinter
' Purpose    Export active project's code as PDF. Code bl
' ocks linked by shape. Keywords colored. Oddlines colored.
' Website    https://github.com/alexofrhodes
' Copyright  MIT License 2021 Anastasiou Alex
'
' Revision History:
' #  yyyy-mm-dd  COMMENTS
' 1  2021-08-05  Initial Release
'
' .....

Private SaveLocation As String
Public PrintFileName As String
Public Found1 As String
Public Found2 As String
Dim rng As Range
Public cell As Range
Public s As Shape
Public counter As Long
Dim mafChrWid(32 To 127) As Double
Dim msFontName As String

Public Function PrintProject(wb As Workbook)
    If ProtectedVbProject(wb) = True Or HasProject(wb) = False Then
        MsgBox "Project Empty or Protected"
        Exit Function
    End If
    'ThisWorkbook.Application.Visible = False
    'ThisWorkbook.IsAddin = False
    Dim vbComp As VbComponent
    ResetPrinter
    Dim tmpString As Variant
    Dim i As Long
    Dim Procedures As Collection
    Set Procedures = New Collection
    Dim ws As Worksheet
    Dim wsName As String
    'Table of contents
    Procedures.Add "--- Table Of Contents ---" & vbNewLine & vbNewLine
    'document
    For Each vbComp In wb.VbProject.VbComponents
        If vbComp.Type = vbext_ct_Document Then
            For Each ws In wb.Worksheets
                If ws.CodeName = vbComp.Name Then wsName = ws.Name
            Next ws
            If vbComp.Name <> "ThisWorkbook" Then
                Procedures.Add "(" & ComponentTypeToString(vbComp.Type) & _
                    ")" & " " & wsName & " - " & vbComp.Name
            Else
```



```

        Procedures.Add "(" & ComponentTypeToString(vbComp.Type) & " _
        )" & " " & vbComp.Name
    End If
    wsName = ""
End If
Next vbComp
'class
For Each vbComp In wb.VBProject.VBComponents
    If vbComp.Type = vbext_ct_ClassModule Then
        Procedures.Add "(" & ComponentTypeToString(vbComp.Type) & ")" _
        & " " & vbComp.Name
    End If
Next vbComp
'module
For Each vbComp In wb.VBProject.VBComponents
    If vbComp.Type = vbext_ct_StdModule Then
        Procedures.Add "(" & ComponentTypeToString(vbComp.Type) & ")" _
        & " " & vbComp.Name
    End If
Next vbComp
'userform
For Each vbComp In wb.VBProject.VBComponents
    If vbComp.Type = vbext_ct_MSForm Then
        Procedures.Add "(" & ComponentTypeToString(vbComp.Type) & ")" _
        & " " & vbComp.Name
    End If
Next vbComp
'Code of components
'document
For Each vbComp In wb.VBProject.VBComponents
    If vbComp.Type = vbext_ct_Document Then
        'get sheet name
        For Each ws In wb.Worksheets
            If ws.CodeName = vbComp.Name Then wsName = ws.Name
        Next ws
        If vbComp.Name <> "ThisWorkbook" Then
            Procedures.Add "--- " & wsName & " - " & vbComp.Name & " - _
            --"
        Else
            Procedures.Add "--- " & vbComp.Name & " ---"
        End If
        wsName = ""
        If vbComp.CodeModule.CountOfLines > 0 Then
            tmpString = Split(GetCompText(vbComp), vbNewLine)
            For i = LBound(tmpString) To UBound(tmpString)
                Procedures.Add " " & tmpString(i)
            Next i
        End If
    End If
Next vbComp
'class
For Each vbComp In wb.VBProject.VBComponents

```

```

    If vbComp.Type = vbext_ct_ClassModule Then
        Procedures.Add "--- " & vbComp.Name & " ---"
        If vbComp.CodeModule.CountOfLines > 0 Then
            tmpString = Split(GetCompText(vbComp), vbNewLine)
            For i = LBound(tmpString) To UBound(tmpString)
                Procedures.Add " " & tmpString(i)
            Next i
        End If
    End If
Next vbComp

'module
For Each vbComp In wb.VBProject.VBComponents
    If vbComp.Type = vbext_ct_StdModule Then
        Procedures.Add "--- " & vbComp.Name & " ---"
        If vbComp.CodeModule.CountOfLines > 0 Then
            tmpString = Split(GetCompText(vbComp), vbNewLine)
            For i = LBound(tmpString) To UBound(tmpString)
                Procedures.Add " " & tmpString(i)
            Next i
        End If
    End If
Next vbComp

'userform
For Each vbComp In wb.VBProject.VBComponents
    If vbComp.Type = vbext_ct_MSForm Then
        Procedures.Add "--- " & vbComp.Name & " ---"
        If vbComp.CodeModule.CountOfLines > 0 Then
            tmpString = Split(GetCompText(vbComp), vbNewLine)
            For i = LBound(tmpString) To UBound(tmpString)
                Procedures.Add " " & tmpString(i)
            Next i
        End If
    End If
Next vbComp

tmpString = CollectionToArray(Procedures)
ThisWorkbook.Sheets("PrintPage").Range("B1:B" & UBound(tmpString) + 1) _
.Value = WorksheetFunction.Transpose(tmpString)
If CodePrinter Then PrintPDF
ErrorHandler:
End Function

```

```

Function CodePrinter() As Boolean
    ThisWorkbook.Sheets("PrintPage").Cells.Font.Name = "Consolas"
    RemoveBreaks
    BreakText
    NumberLinesPrinter
    ChgTxtColor
    GreenifyComments
    BoldPrinterComponents
    If findPairs = False Then
        CodePrinter = False
        Exit Function
    End If
End Function

```

End If

PrinterPageSetup

ThisWorkbook.Sheets("PrintPage").rows(1).EntireRow.Insert

copyLOGOPrinter

ShapesCompareLeft

PageBreaksInPrinter

CodePrinter = True

End Function

Function findPairs() As Boolean

Dim ShapeTypeNumber As Long

ShapeTypeNumber = 29

Dim CloseTXT As String

Dim X As Variant

Dim ws As Worksheet

Set ws = ThisWorkbook.Sheets("PrintPage")

Dim trimCell As String

Dim counter As Long

For Each cell In ThisWorkbook.Sheets("PrintPage").Range("B:B"). _
SpecialCells(xlCellTypeConstants)

trimCell = Trim(cell.Text)

If IsBlockStart(trimCell) Then

Select Case openPair(trimCell)

Case Is = "Case", "Else"

GoTo Skip

Case Is = "If", "#If"

If Right(trimCell, 4) = "Then" Then 'Or _

Right(trimCell, 1) = "_" Then

'ok

Else

GoTo Skip

End If

Case Is = "skip"

GoTo Skip

Case Else

'

End Select

CloseTXT = closePair(trimCell)

counter = Len(cell) - Len(trimCell)

Found1 = cell.Address

If FOUND2FOUND(ws, WorksheetFunction.Rept(" ", counter) & _
CloseTXT) = False Then

GoTo Skip

MsgBox "Cod

'e not properly indented." & vbNewLine & _

' "Error w

'ith closing pair of " & vbNewLine & cell.Text

' findPairs = False

' Exit Function

End If

Found2 = ws.Range("B1:B" & ws.Cells(rows.Count, 2).End(xlUp).Row) _

_

```

        .Find(WorksheetFunction.Rept(" ", counter) & CloseTXT & "*", _
        After:=cell, LookAt:=xlWhole).Address
    X = StrWidth(Application.WorksheetFunction.Rept("A", counter), _
    "Consolas", 11)
    ws.Shapes.AddShape ShapeTypeNumber, ws.Range(Found1).Left + X - _
    10, ws.Range(Found1).Top + (cell.Height / 2), 5, Range(Found1, _
    Found2).Height - cell.Height

```

End If

Skip:

Next cell

findPairs = **True**

End Function

Function FOUND2FOUND(ws **As** Worksheet, str **As** String) **As** Boolean

FOUND2FOUND = **True**

Dim tmp **As** Range

Set tmp = ws.Range("B1:B" & ws.Cells(rows.Count, 2).End(xlUp).Row) _

.Find(str & "*", After:=cell, LookAt:=xlWhole)

If tmp **Is Nothing** **Then** FOUND2FOUND = **False**

End Function

Function openPair(strLine **As** String) **As** String

Dim nPos **As** Integer

Dim strTemp **As** String

strTemp = Trim(strLine)

nPos = InStr(1, strTemp, " ") - 1

If nPos < 0 **Then** nPos = Len(strLine)

strTemp = Left\$(strLine, nPos)

Select Case strTemp

Case Is = "Private", "Public"

strTemp = Trim(strLine)

strTemp = Replace(strTemp, "Private ", "")

strTemp = Replace(strTemp, "Public ", "")

nPos = InStr(1, strTemp, " ") - 1

If nPos < 0 **Then** nPos = Len(strTemp)

strTemp = Left\$(strTemp, nPos)

If strTemp = "Function" **Then**

openPair = "Function"

ElseIf strTemp = "Sub" **Then**

openPair = "Sub"

Else

GoTo Skip

End If

Case Is = "With"

openPair = "With"

Case Is = "For"

openPair = "For"

Case Is = "Do"

openPair = "Do"

Case Is = "While"

openPair = "While"

Case Is = "Select"

```

        openPair = "Select"
    Case Is = "Case"
        openPair = "Case"
    Case Is = "Sub"
        openPair = "Sub"
    Case Is = "Function"
        openPair = "Function"
    Case Is = "Property"
        openPair = "Property"
    Case Is = "Enum"
        openPair = "Enum"
    Case Is = "Type"
        openPair = "Type"
    Case "If", "#If"
        openPair = "If"
    Case "ElseIf", "#ElseIf", "Else", "Else:", "#Else", "#Else:"
        openPair = "Else"
    Case Else
        Skip:
        openPair = "skip"
    - End Select
End Function

```

```

Function closePair(strLine As String) As String
    Dim nPos As Integer
    Dim strTemp As String
    nPos = InStr(1, strLine, " ") - 1
    If nPos < 0 Then nPos = Len(strLine)
    strTemp = Left$(strLine, nPos)
    - Select Case strTemp
        Case Is = "Private", "Public"
            strTemp = Trim(strLine)
            strTemp = Replace(strTemp, "Private ", "")
            strTemp = Replace(strTemp, "Public ", "")
            nPos = InStr(1, strTemp, " ") - 1
            If nPos < 0 Then nPos = Len(strTemp)
            strTemp = Left$(strTemp, nPos)
            If strTemp = "Function" Then
                closePair = "End Function"
            ElseIf strTemp = "Sub" Then
                closePair = "End Sub"
            Else
                '
            End If
        Case Is = "With"
            closePair = "End With"
        Case Is = "For"
            closePair = "Next"
        Case Is = "Do", "While"
            closePair = "Loop"
        Case Is = "Select" , "Case"
            closePair = "End Select"
    End Select
End Function

```

```

Case Is = "Sub"
    closePair = "End Sub"
Case Is = "Function"
    closePair = "End Function"
Case Is = "Property"
    closePair = "End Property"
Case Is = "Enum"
    closePair = "End Enum"
Case Is = "Type"
    closePair = "End Type"
Case "If", "#If", "ElseIf", "#ElseIf", "Else", "Else:", "#Else", _
"#Else:"
    closePair = "End If"
Case Else
    '
- End Select
End Function

```

```

Sub PageBreaksInPrinter()
    ThisWorkbook.Sheets("PrintPage").ResetAllPageBreaks
    Dim rng As Range
    Set rng = Nothing
    Dim cell As Range
    - With ThisWorkbook.Sheets("PrintPage")
        For Each cell In .Range("B1:B" & .Range("B" & .rows.Count). _
            End(xlUp).Row)
            - If Left(Trim(cell.Value), 3) = "---" Then
                If rng Is Nothing Then
                    Set rng = cell
                Else
                    Set rng = Union(rng, cell)
                End If
            - End If
        Next
        For Each cell In rng
            .HPageBreaks.Add Before:=.rows(cell.Row)
            .rows(cell.Row).PageBreak = xlPageBreakManual
        Next
    - End With
End Sub

```

```

Sub FormatColourFormatters()
    Dim ws As Worksheet
    Set ws = ThisWorkbook.Sheets("PrintSettings")
    LBLcolourCode.ForeColor = ws.Range("J1").Value
    LBLcolourKey.ForeColor = ws.Range("J3").Value
    LBLcolourOdd.BackColor = ws.Range("J2").Value
    LBLcolourComment.ForeColor = ws.Range("J4").Value
End Sub

```

```

Sub ColorPaletteDialog(rng As Range, Lbl As MSForms.Label)
    If Application.Dialogs(xlDialogEditColor).Show(10, 0, 125, 125) = _

```

True Then

'user pressed OK

lcolor = ActiveWorkbook.Colors(10)

rng.Value = lcolor

rng.Offset(0, 1).Interior.Color = lcolor

Lbl.ForeColor = lcolor

End If

ActiveWorkbook.ResetColors

End Sub

Sub RemoveBreaks()

'remove line break loop

Dim cell **As** Range

Dim rng **As** Range

With ThisWorkbook.Sheets("PrintPage")

Set rng = .Range("B1:B" & .Range("B" & rows.Count).End(xlUp).Row)

End With

Dim coll **As** Collection

Set coll = **New** Collection

For Each cell **In** rng

coll.Add CleanTrim(cell.Value)

Next cell

Dim arr **As** Variant

arr = CollectionToArray(coll)

rng.Value = WorksheetFunction.Transpose(arr)

End Sub

Function CleanTrim(ByVal s **As** String, **Optional** ConvertNonBreakingSpace **As**
Boolean = True) **As** String

'remove line break function

Dim X **As** Long, CodesToClean **As** Variant

CodesToClean = Array(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
15, 16, 17, 18, 19, 20,
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 127, 129, 141, 143, 144,
157)

If ConvertNonBreakingSpace **Then** s = Replace(s, Chr(160), " ")

For X = LBound(CodesToClean) **To** UBound(CodesToClean)

If InStr(s, Chr(CodesToClean(X))) **Then**

s = Replace(s, Chr(CodesToClean(X)), vbNullString)

End If

Next

CleanTrim = s

' CleanTrim = WorksheetFunction.Trim(S)

End Function

Sub GreenifyComments()

Dim cell **As** Range

Dim sh **As** Worksheet

Set ws = ThisWorkbook.Sheets("PrintPage")

Set rng = **Nothing**

For Each cell **In** ws.Range("B1:B" & ws.Range("B" & rows.Count).
End(xlUp).Row)

```

    If Left(Trim(cell.Value), 1) = "" Or Left(Trim(cell.Value), 3) = _
    "Rem" Then
        cell.Font.Color = ThisWorkbook.Sheets("PrintSettings"). _
        Range("J4").Value
    End If
Next
End Sub

```

```

Sub SpaceProcsInPrinter()
    'add empty line between end of sub/fun and start of next
    Dim cell As Range
    Dim rng As Range
    With ThisWorkbook.Sheets("PrintPage")
        Set rng = .Range("B2:B" & .Range("B" & rows.Count).End(xlUp).Row)
    End With
    With rng
        Set cell = .Find("*End Sub", LookIn:=xlValues)
        If Not cell Is Nothing Then
            firstAddress = cell.Address
            Do
                With cell.Borders(xlEdgeBottom)
                    .LineStyle = xlContinuous
                    .Weight = xlThin
                    .Color = vbBlack
                End With
                Set cell = .FindNext(cell)
            Loop While Not cell Is Nothing And cell.Address <> _
            firstAddress
        End If
    End With
    With rng
        Set cell = .Find("*End Function", LookIn:=xlValues)
        If Not cell Is Nothing Then
            firstAddress = cell.Address
            Do
                With cell.Borders(xlEdgeBottom)
                    .LineStyle = xlContinuous
                    .Weight = xlThin
                End With
                Set cell = .FindNext(cell)
            Loop While Not cell Is Nothing And cell.Address <> _
            firstAddress
        End If
    End With
End Sub

```

```

Sub NumberLinesPrinter()
    Dim lRow
    Dim cell As Range
    With ThisWorkbook.Sheets("PrintPage")
        lRow = .Range("B" & .rows.Count).End(xlUp).Row
        For Each cell In .Range("B1:B" & lRow)

```



```

- If cell.Row Mod 2 = 0 Then
    Range(cell.Offset(0, -1), cell.Offset(0, 1)).Interior. _
    Color = _
    ThisWorkbook.Sheets("PrintSettings").Range("J2").Value
- End If
Next cell
'.Columns(1).HorizontalAlignment = xlLeft
End With
End Sub

```

```

Sub BoldPrinterComponents()
    'format printer lines with component names
    Dim rng As Range
    Set rng = Nothing
    Dim cell As Range
    With ThisWorkbook.Sheets("PrintPage")
        For Each cell In .Range("B1:B" & .Range("B" & .rows.Count). _
            End(xlUp).Row)
            - If Left(Trim(cell.Value), 3) = "---" Then
                If rng Is Nothing Then
                    Set rng = cell
                Else
                    Set rng = Union(rng, cell)
                End If
            - End If
        Next
    End With
    If rng Is Nothing Then Exit Sub
    rng.Font.size = 18
    rng.Font.Bold = True
    rng.Font.Color = vbBlack
End Sub

```

```

Sub copyLOGOPrinter()
    ThisWorkbook.Sheets("PrintSettings").Shapes("LOGO").Copy
    ThisWorkbook.Sheets("PrintPage").Paste ThisWorkbook. _
    Sheets("PrintPage").Range("B1")
    Dim shp As Shape
    Set shp = ThisWorkbook.Sheets("PrintPage").Shapes("LOGO")
    With ThisWorkbook.Sheets("PrintPage")
        shp.Left = .Range("B1").Left + ((.Range("B1").Width - shp.Width) / _
            2)
        shp.Top = .Range("B1").Top
        .rows(1).RowHeight = shp.Height + 50
        .Range("A2:C2").Interior.ColorIndex = 0
        With .Range("B1")
            .HorizontalAlignment = xlCenter
            .VerticalAlignment = xlVAlignBottom
            .Value = vbNewLine & vbNewLine & PrintFileName & vbNewLine & _
                "www.github.com/alexofrhodes"
            .Characters.Font.size = 18
            .Characters.Font.Bold = True
        End With
    End With
End Sub

```

```

        .Characters.Font.Underline = False
        .Characters.Font.ColorIndex = 10
        .Characters.Font.Name = "Comic Sans MS"
    End With
End With
End Sub

```

```

Sub PrinterPageSetup()
    With ThisWorkbook.Sheets("PrintPage").PageSetup
        'narrow margins
        .LeftMargin = Application.InchesToPoints(0.25)
        .RightMargin = Application.InchesToPoints(0.25)
        .TopMargin = Application.InchesToPoints(0.25)
        .BottomMargin = Application.InchesToPoints(0.75)
        'left footer filename
        Dim FileName As String
        FileName = PrintFileName
        .LeftFooter = FileName
        '.LeftFooter = "&F"    'Filename?
        'center footer page of pages
        .CenterFooter = "Page &P of &N"
        'right footer date
        .RightFooter = "&D"
        'fit all columns in one page width
        .FitToPagesWide = 1
        .FitToPagesTall = False
    End With
End Sub

```

```

Sub ShapesCompareLeft()
    'if code block connector lines spill to the next page,
    'we can easily follow the one we want if each line has it's own colour
    Dim rnd As Long
    Dim n As Variant
    Dim i As Long
    Dim s As Shape
    Dim sNames
    Set sNames = CreateObject("System.Collections.ArrayList")
    'rename lines to their .left position
    For Each s In ThisWorkbook.Sheets("PrintPage").Shapes
        If Not s.Name Like "LOGO" Then
            s.Name = s.Left
            'create a unique array of names
            If Not sNames.Contains(s.Name) Then
                sNames.Add s.Name
            End If
        End If
    Next s
    'assign unique colour to lines by level (left)
    For Each n In sNames
        rnd = RandomRGB
        For Each s In ThisWorkbook.Sheets("PrintPage").Shapes

```

```

- If Not s.Name Like "LOGO" Then
    If s.Name = n Then
        With s.line
            .ForeColor.RGB = rnd
            .Weight = 1.5
        End With
    End If
- End If
Next s
Next n
Set sNames = Nothing
End Sub

```

```

Function RandomRGB()
    RandomRGB = RGB(Int(rnd() * 255), Int(rnd() * 255), Int(rnd() * 255))
End Function

```

```

Function StrWidth(s As String, sFontName As String, fFontSize As Double) _
    As Double
    ' Returns the approximate width in points of a text string
    ' in a specified font name and font size
    ' Does not account for kerning
    Dim i As Long
    Dim j As Long
    If Len(sFontName) = 0 Then
        Exit Function
    End If
    If sFontName <> msFontName Then
        If Not InitChrWidths(sFontName) Then
            Exit Function
        End If
    End If
    For i = 1 To Len(s)
        j = Asc(Mid(s, i, 1))
        If j >= 32 Then
            StrWidth = StrWidth + fFontSize * mafChrWid(j)
        End If
    Next i
End Function

```

```

Function InitChrWidths(sFontName As String) As Boolean
    Dim i As Long
    Select Case sFontName
    Case "Consolas"
        For i = 32 To 127
            Select Case i
            Case 32 To 127
                mafChrWid(i) = 0.5634
            End Select
        Next i
        ' Case "Arial"
        ' For i = 32 To 127

```

```

'           Select Case i
'           Case 39, 106, 108
'               mafChrWid(i) = 0.1902
'           Case 105, 116
'               mafChrWid(i) = 0.2526
'           Case 32, 33, 44,
'46, 47, 58, 59, 73, 91 To 93, 102, 124
'               mafChrWid(i) = 0.3144
'           Case 34, 40, 41, 45, 96, 114, 123, 125
'               mafChrWid(i) = 0.3768
'           Case 42, 94, 118, 120
'               mafChrWid(i) = 0.4392
'           Case 107, 115, 122
'               mafChrWid(i) = 0.501
'           Case 35, 36, 48 To 57, 63, 74, 76
', 84, 90, 95, 97 To 101, 103, 104, 110 To 113, 117, 121
'               mafChrWid(i) = 0.5634
'           Case 43, 60 To 62, 70, 126
'               mafChrWid(i) = 0.6252
'           Case 38, 65, 66, 69,
'72, 75, 78, 80, 82, 83, 85, 86, 88, 89, 119
'               mafChrWid(i) = 0.6876
'           Case 67, 68, 71, 79, 81
'               mafChrWid(i) = 0.7494
'           Case 77, 109, 127
'               mafChrWid(i) = 0.8118
'           Case 37
'               mafChrWid(i) = 0.936
'           Case 64, 87
'               mafChrWid(i) = 1.0602
'           End Select
'       Next i
'
'       Case "Calibri"
'           For i = 32 To 127
'               Select Case i
'                   Case 32, 39, 44, 46, 73, 105, 106, 108
'                       mafChrWid(i) = 0.2526
'                   Case 40, 41, 45,
'58, 59, 74, 91, 93, 96, 102, 123, 125
'                       mafChrWid(i) = 0.3144
'                   Case 33, 114, 116
'                       mafChrWid(i) = 0.3768
'                   Case 34, 47, 76, 92, 99, 115, 120, 122
'                       mafChrWid(i) = 0.4392
'                   Case 35, 42, 43, 60 To 63, 69, 70, 83
', 84, 89, 90, 94, 95, 97, 101, 103, 107, 118, 121, 124, 126
'                       mafChrWid(i) = 0.501
'                   Case 36, 48 To 57, 66, 67, 7
'5, 80, 82, 88, 98, 100, 104, 110 To 113, 117, 127
'                       mafChrWid(i) = 0.5634
'                   Case 65, 68, 86

```

```

'         mafChrWid(i) = 0.6252
'         Case 71, 72, 78, 79, 81, 85
'             mafChrWid(i) = 0.6876
'         Case 37, 38, 119
'             mafChrWid(i) = 0.7494
'         Case 109
'             mafChrWid(i) = 0.8742
'         Case 64, 77, 87
'             mafChrWid(i) = 0.936
'         End Select
'     Next i
' Case "Tahoma"
'     For i = 32 To 127
'         Select Case i
'         Case 39, 105, 108
'             mafChrWid(i) = 0.2526
'         Case 32, 44, 46, 102, 106
'             mafChrWid(i) = 0.3144
'         Case 33, 45, 58, 59, 73, 114, 116
'             mafChrWid(i) = 0.3768
'         Case 34, 40, 41, 47, 74, 91 To 93, 124
'             mafChrWid(i) = 0.4392
'         Case 63, 76, 99, 107, 115, 118, 120 To 123, 125
'             mafChrWid(i) = 0.501
'         Case 36, 42, 48 To 57, 70, 80
'             , 83, 95 To 98, 100, 101, 103, 104, 110 To 113, 117
'             mafChrWid(i) = 0.5634
'         Case 66, 67, 69, 75, 84, 86, 88, 89, 90
'             mafChrWid(i) = 0.6252
'         Case 38, 65, 71, 72, 78, 82, 85
'             mafChrWid(i) = 0.6876
'         Case 35, 43, 60 To 62, 68, 79, 81, 94, 126
'             mafChrWid(i) = 0.7494
'         Case 77, 119
'             mafChrWid(i) = 0.8118
'         Case 109
'             mafChrWid(i) = 0.8742
'         Case 64, 87
'             mafChrWid(i) = 0.936
'         Case 37, 127
'             mafChrWid(i) = 1.0602
'         End Select
'     Next i
' Case "Lucida Console"
'     For i = 32 To 127
'         Select Case i
'         Case 32 To 127
'             mafChrWid(i) = 0.6252
'         End Select
'     Next i
' Case "Times New Roman"

```

```

        For i = 32 To 127
            Select Case i
                Case 39, 124
                    mafChrWid(i) = 0.1902
                Case 32, 44, 46, 59
                    mafChrWid(i) = 0.2526
                Case 33, 34, 47, 58, 73, 91 To 93, 105, 106, 108, 116
                    mafChrWid(i) = 0.3144
                Case 40, 41, 45, 96, 102, 114
                    mafChrWid(i) = 0.3768
                Case 63, 74, 97, 115, 118, 122
                    mafChrWid(i) = 0.4392
                Case 94, 98 To 101, 103, 1
                    '04, 107, 110, 112, 113, 117, 120, 121, 123, 125
                    mafChrWid(i) = 0.501
                Case 35, 36, 42, 48 To 57, 70, 83, 84, 95, 111, 126
                    mafChrWid(i) = 0.5634
                Case 43, 60 To 62, 69, 76, 80, 90
                    mafChrWid(i) = 0.6252
                Case 65 To 67, 82, 86, 89, 119
                    mafChrWid(i) = 0.6876
                Case 68, 71, 72, 75, 78, 79, 81, 85, 88
                    mafChrWid(i) = 0.7494
                Case 38, 109, 127
                    mafChrWid(i) = 0.8118
                Case 37
                    mafChrWid(i) = 0.8742
                Case 64, 77
                    mafChrWid(i) = 0.936
                Case 87
                    mafChrWid(i) = 0.9984
            End Select
        Next i

    Case Else
        MsgBox "Font name "" & sFontName & "" not available!", _
            vbCritical, "StrWidth"
        Exit Function
    End Select

    msFontName = sFontName
    InitChrWidths = True
End Function

```

```

Public Sub ChgTxtColor()
    With ThisWorkbook.Sheets("PrintPage").Cells.Font
        .Color = ThisWorkbook.Sheets("PrintSettings").Range("J1").Value
        .FontStyle = "Normal"
    End With

    Dim rng As Range
    Set rng = ThisWorkbook.Sheets("PrintPage").UsedRange
    Dim cell As Range
    Dim NumChars As Long
    Dim StartChar As Long

```

```

Dim cellChar As Long
Dim EndWords As Long
Dim keywords As Range
On Error Resume Next
For Each cell In rng
    cellChar = Len(cell)
    For Each keywords In ThisWorkbook.Sheets("PrintSettings"). _
Range("A1").CurrentRegion.Offset(1).Resize(, 1). _
SpecialCells(xlCellTypeConstants)
        StartChar = InStrExact(1, cell.Text, keywords.Text)
        Do Until StartChar >= cellChar Or StartChar = 0
            NumChars = Len(keywords.Text)
            EndWords = StartChar + NumChars
            If Mid(cell.Text, StartChar - 1, 1) = " " Or StartChar = _
1 Then
                If Mid(cell.Text, EndWords, 1) = " " Or EndWords >= _
cellChar Then
                    With cell.Characters(Start:=StartChar, _
Length:=NumChars).Font
                        'format matches
                        .FontStyle = "Bold"
                        .Color = ThisWorkbook.Sheets("PrintSettings"). _
Range("J3").Value
                    End With
                End If
            End If
            StartChar = InStr(EndWords, cell.Text, keywords.Text)
        Loop
    Next
Next
End Sub

```

```

Sub ResetPrinter(Optional keepText As Boolean = False)
    ' OptOn
    With ThisWorkbook.Sheets("PrintPage")
        .ResetAllPageBreaks
        If keepText = False Then
            .[A:C].Clear
        Else
            .[A:C].ClearFormats
            .Cells.Font.ColorIndex = vbBlack
            .Cells.Font.Bold = False
        End If
        .Columns("A:A").ColumnWidth = 3 '3
        .Columns("C:C").ColumnWidth = 1
        For Each s In ThisWorkbook.Sheets("PrintPage").Shapes
            'If Left(s.name, 2) <> "cp" Then
            s.Delete
            'End If
        Next
        .Cells.Font.Name = "Consolas"
        If .PageSetup.Orientation = xlPortrait Then

```

```

        .Columns("B:B").ColumnWidth = 90
    Else
        .Columns("B:B").ColumnWidth = 120
    End If
    .Cells.WrapText = False
    .Cells.UseStandardHeight = True
    '        .Cells.UseStandardWidth = True
End With
'    Application.ScreenUpdating = True
End Sub

```

```

Sub BreakText()
    'Coded by Anastasiou Alex
    'Version 1
    '20/1/2021
    '    Dim l As Long
    '    l = Timer()
    'to get things right, use a monospace font like Consolas
    Dim cell As Range
    Dim TmpStr As String
    Dim Splitter As Integer
    Dim counter As Integer
    Dim Limit As Integer
    'how many characters fit your cell width (find manually)
    If ThisWorkbook.Sheets("PrintPage").PageSetup.Orientation = _
xlPortrait Then
        Limit = 75
    Else
        Limit = 100        '80
    End If
    'For which range to run
    Dim rng As Range
    With ThisWorkbook.Sheets("PrintPage")
        Set rng = .Range("B1:B" & .Range("B" & .rows.Count).End(xlUp).Row)
    End With
    Dim coll As Collection
    Set coll = New Collection
    On Error Resume Next
    For Each cell In rng
        TmpStr = cell.Text
        'remove unnecessary spaces (not trimming)
        If Right(cell.Offset(-1, 0), 1) = "_" Then
            counter = Len(cell.Offset(-1, 0)) - Len(Trim(cell.Offset(-1, _
0)))
            TmpStr = Application.WorksheetFunction.Rept(" ", counter) & _
Trim(cell.Text)
            cell.Value = TmpStr
        End If
        'create collection
        'if len of cell text <= limit then take as is
REPEATME:
        If Len(TmpStr) > Limit Then

```



```

        counter = Len(TmpStr) - Len(Trim(TmpStr))
        'if comment
        'BreakText and add first part to collection. Repeat
        If Left(Trim(TmpStr), 1) = "'" Or Left(Trim(TmpStr), 3) = _
            "Rem" Then
            Splitter = Len(cell) / 2
            coll.Add Left(TmpStr, Splitter) & " _"
            TmpStr = Application.WorksheetFunction.Rept(" ", counter) _
                & _
                "'" & Trim(Mid(TmpStr, Splitter + 1))
            GoTo REPEATME
        'if not comment
        Else
            'find which symbol is closest to the limit and before it
            Splitter = InStrRev(TmpStr, WhichFirst(TmpStr, ".`,`/-` _
                `)", "`", Limit), Limit)
            coll.Add Left(TmpStr, Splitter) & " _"
            TmpStr = Application.WorksheetFunction.Rept(" ", counter) _
                & _
                Trim(Mid(TmpStr, Splitter + 1))
            GoTo REPEATME
        End If
    Else
        coll.Add (TmpStr)
    End If
Next cell
'replace sheet printer cells with broken text from collection
Dim arr
arr = CollectionToArray(coll)
With ThisWorkbook.Sheets("PrintPage")
    .Cells.Clear
    .Range("B1:B" & UBound(arr) + 1).Value = WorksheetFunction. _
        Transpose(arr)
    .Cells.Font.Name = "Consolas"
End With
'    Debug.Print Timer() - 1
End Sub

```

```

Sub testWhichFirst()
    If ActiveCell = vbNullString Then
        Exit Sub
    End If
    WhichFirst ActiveCell, ".`,`/-` _ `)", "`", Len(ActiveCell)
End Sub

```

```

Function WhichFirst(st As String, items As String, delim As String, _
    AfterPosition As Integer)
    'Coded by Anastasiou Alex
    'Version 1
    '20/1/2021
    '
    'PARAMETERS

```

```

'st : which string to parse
'items : which characters are we looking for
'delim : delimiter to split passed items
'AfterPosition :
Dim i As Long
Dim varr As Variant
varr = Split(items, delim)

lp:
On Error Resume Next
'WhichFirst set to last varr item so it will be looped again?
WhichFirst = varr(UBound(varr))
For i = LBound(varr) To UBound(varr)
    'Debug.Print varr(i) & InStrRev(st, varr(i), AfterPosition)
    'find the item closest to the limit
    If InStrRev(st, varr(i), AfterPosition) > InStrRev(st, WhichFirst, _
        AfterPosition) Then
        WhichFirst = varr(i)
    End If
Next i
'    Debug.Print "Limit", AfterPosition & vbNewLine & _
"Closest Item", WhichFirst & vbNewLine & _
"Found At", InStrRev(st, WhichFirst, AfterPosition)
End Function

```

```

Function HasProject(wb As Workbook) As Boolean
Dim WbProjComp As Object
On Error Resume Next
Set WbProjComp = wb.VBProject.VBComponents
If Not WbProjComp Is Nothing Then HasProject = True
End Function

```

```

Sub OptOn()
Application.ScreenUpdating = False
Application.DisplayStatusBar = False
Application.Calculation = xlCalculationManual
Application.EnableEvents = False
' Note: this is a sheet-level setting.
ActiveSheet.DisplayPageBreaks = False
End Sub

```

```

Sub OptOff()
Application.ScreenUpdating = True
Application.DisplayStatusBar = True
Application.Calculation = xlCalculationAutomatic
Application.EnableEvents = True
' Note: this is a sheet-level setting.
ActiveSheet.DisplayPageBreaks = False
End Sub

```

```

Public Function ActiveProjName() As String
' name of active project in vbeditor
ActiveProjName = Mid(Application.VBE.ActiveVBProject.FileName, _

```

```
InStrRev(Application.VBE.ActiveVBProject.FileName, "\") + 1)
```

```
End Function
```

```
Sub PrintPDF()
```

```
ThisWorkbook.Sheets("PrintPage").ExportAsFixedFormat _
```

```
Type:=xlTypePDF, _
```

```
FileName:=SaveLocation & Left(PrintFileName, InStr(1, PrintFileName, _
```

```
".") - 1)
```

```
End Sub
```

```
Sub FoldersCreate(FolderPath As String)
```

```
Dim individualFolders() As String
```

```
Dim tempFolderPath As String
```

```
Dim arrayElement As Variant
```

```
individualFolders = Split(FolderPath, "\")
```

```
For Each arrayElement In individualFolders
```

```
tempFolderPath = tempFolderPath & arrayElement & "\"
```

```
If FolderExists(tempFolderPath) = False Then
```

```
MkDir tempFolderPath
```

```
End If
```

```
Next arrayElement
```

```
End Sub
```

```
Function ProtectedVBProject(ByVal wb As Workbook) As Boolean
```

```
If wb.VBProject.Protection = 1 Then
```

```
ProtectedVBProject = True
```

```
Else
```

```
ProtectedVBProject = False
```

```
End If
```

```
End Function
```

```
Sub FollowLink(FolderPath As String)
```

```
Dim oShell As Object
```

```
Dim Wnd As Object
```

```
Set oShell = CreateObject("Shell.Application")
```

```
For Each Wnd In oShell.Windows
```

```
If Wnd.Name = "File Explorer" Then
```

```
If Wnd.Document.Folder.Self.Path = FolderPath Then Exit Sub
```

```
End If
```

```
Next Wnd
```

```
Application.ThisWorkbook.FollowHyperlink Address:=FolderPath, _
```

```
NewWindow:=True
```

```
End Sub
```

```
Function FolderExists(ByVal strPath As String) As Boolean
```

```
On Error Resume Next
```

```
FolderExists = ((GetAttr(strPath) And vbDirectory) = vbDirectory)
```

```
On Error GoTo 0
```

```
End Function
```

```
Function ComponentTypeToString(componentType As VBIDE.vbext_ComponentType) _
```

As String

```
Select Case componentType
Case vbext_ct_ActiveXDesigner
    ComponentTypeToString = "ActiveX Designer"
Case vbext_ct_ClassModule
    ComponentTypeToString = "Class Module"
Case vbext_ct_Document
    ComponentTypeToString = "Document Module"
Case vbext_ct_MSForm
    ComponentTypeToString = "UserForm"
Case vbext_ct_StdModule
    ComponentTypeToString = "Code Module"
Case Else
    ComponentTypeToString = "Unknown Type: " & CStr(componentType)
End Select
```

End Function

```
Private Sub goToFolder_MouseDown(ByVal Button As Integer, ByVal Shift As _
Integer, ByVal X As Single, ByVal Y As Single)
    FollowLink SaveLocation
End Sub
```

```
Private Sub CommandButton1_Click()
    OptOff
    PrintProject ActiveWorkbook
    OptOn
    FollowLink SaveLocation
End Sub
```

```
Function GetCompText(vbComp As VBComponent) As String
    Dim codeMod As CodeModule
    Set codeMod = vbComp.CodeModule
    If codeMod.CountOfLines = 0 Then GetCompText = "": Exit Function
    GetCompText = codeMod.Lines(1, codeMod.CountOfLines)
End Function
```

```
Function CollectionToArray(c As Collection) As Variant
    Dim A() As Variant: ReDim A(0 To c.Count - 1)
    Dim i As Long
    For i = 1 To c.Count
        A(i - 1) = c.Item(i)
    Next
    CollectionToArray = A
End Function
```

```
Function InStrExact(Start As Long, SourceText As String, WordToFind As _
String, _
Optional CaseSensitive As Boolean = False, _
Optional AllowAccentedCharacters As Boolean = False) As Long
```

```

Dim X As Long, Str1 As String, Str2 As String, Pattern As String
Const UpperAccentsOnly As String = "HIP"
Const UpperAndLowerAccents As String = "HIPηιρ"
If CaseSensitive Then
    Str1 = SourceText
    Str2 = WordToFind
    Pattern = "[!A-Za-z0-9]"
    If AllowAccentedCharacters Then Pattern = Replace(Pattern, "!", _
        "!" & UpperAndLowerAccents)
Else
    Str1 = UCase(SourceText)
    Str2 = UCase(WordToFind)
    Pattern = "[!A-Z0-9]"
    If AllowAccentedCharacters Then Pattern = Replace(Pattern, "!", _
        "!" & UpperAccentsOnly)
End If
For X = Start To Len(Str1) - Len(Str2) + 1
    If Mid(" " & Str1 & " ", X, Len(Str2) + 2) Like Pattern & Str2 & _
        Pattern _
        And Not Mid(Str1, X) Like Str2 & "'[" & Mid(Pattern, 3) & "'" Then
        InStrExact = X
        Exit Function
    End If
Next
End Function

```

```

Public Function IsBlockEnd(strLine As String) As Boolean
    Dim bOK As Boolean
    Dim nPos As Integer
    Dim strTemp As String
    nPos = InStr(1, strLine, " ") - 1
    If nPos < 0 Then nPos = Len(strLine)
    strTemp = Left$(strLine, nPos)
    Select Case strTemp
        Case "Next", "Loop", "Wend", "End Select", "Case", "Else", "#Else", _
            "Else:", "#Else:", "ElseIf", "#ElseIf", "End If", "#End If"
            bOK = True
        Case "End"
            bOK = (Len(strLine) > 3)
    End Select
    IsBlockEnd = bOK
End Function

```

```

Public Function IsBlockStart(strLine As String) As Boolean
    Dim bOK As Boolean
    Dim nPos As Integer
    Dim strTemp As String
    nPos = InStr(1, strLine, " ") - 1
    If nPos < 0 Then nPos = Len(strLine)
    strTemp = Left$(strLine, nPos)
    Select Case strTemp
        Case "With", "For", "Do", "While", "Select", "Case", "Else", "Else:", _

```

```

"#Else", "#Else:", "Sub", "Function", "Property", "Enum", "Type"
    bOK = True
Case "If", "#If", "ElseIf", "#ElseIf"
    bOK = (Len(strLine) = (InStr(1, strLine, " Then") + 4))
Case "public", "Public", "Friend"
    nPos = InStr(1, strLine, " Static ")
    If nPos Then
        nPos = InStr(nPos + 7, strLine, " ")
    Else
        nPos = InStr(Len(strTemp) + 1, strLine, " ")
    End If
    Select Case Mid$(strLine, nPos + 1, InStr(nPos + 1, strLine, " ") -
        nPos - 1)
        Case "Sub", "Function", "Property", "Enum", "Type"
            bOK = True
        End Select
    End Select
IsBlockStart = bOK
End Function

```

```

Private Sub UserForm_Initialize()
PrintFileName = ActiveWorkbook.Name
SaveLocation = Environ("USERprofile") & "\Documents\" & _
"vpArc\CodePrinter\"
FoldersCreate SaveLocation
FormatColourFormatters
End Sub

```

```

Private Sub cInfo_MouseDown(ByVal Button As Integer, ByVal Shift As _
Integer, ByVal X As Single, ByVal Y As Single)
uDEV.Show
End Sub

```

```

Private Sub LBLcolourCode_Click()
ColorPaletteDialog ThisWorkbook.Sheets("PrintSettings"). _
Range("GeneralFontBackground"), LBLcolourCode
End Sub

```

```

Private Sub LBLcolourComment_Click()
ColorPaletteDialog ThisWorkbook.Sheets("PrintSettings"). _
Range("ColourComments"), LBLcolourComment
End Sub

```

```

Private Sub LBLcolourKey_Click()
ColorPaletteDialog ThisWorkbook.Sheets("PrintSettings"). _
Range("ColourKeywords"), LBLcolourKey
End Sub

```

```

Private Sub LBLcolourOdd_Click()
ColorPaletteDialog ThisWorkbook.Sheets("PrintSettings").Range("OddLine"), _

```

LBLcolourOdd

End Sub

--- uDEV ---

```
Private Sub LFaceBook_Click()  
FollowLink ("https://www.facebook.com/VBA-Code-Archive-110295994460212")  
End Sub
```

```
Private Sub LGitHub_Click()  
FollowLink ("https://github.com/alexofrhodes")  
End Sub
```

```
Private Sub LYouTube_Click()  
FollowLink ("https://bit.ly/2QT4wFe")  
End Sub
```

```
Private Sub LBuyMeACoffee_Click()  
FollowLink ("http://paypal.me/alexofrhodes")  
End Sub
```

```
Private Sub LEmail_Click()  
If OutlookCheck = True Then  
    MailDev  
Else  
    Dim out As String  
    out = "anastasioualex@gmail.com"  
    CLIP out  
    MsgBox ("Outlook not found" & Chr(10) & _  
        "DEV's email address" & vbNewLine & out & vbNewLine & "copied to _  
        clipboard")  
End If  
End Sub
```

```
Sub MailDev()  
    'For Tips see: http://www.rondebruin.nl/win/winmail/Outlook/tips.htm  
    'Working in Office 2000-2016  
    Dim OutApp As Object  
    Dim OutMail As Object  
    Dim strBody As String  
    Set OutApp = CreateObject("Outlook.Application")  
    Set OutMail = OutApp.CreateItem(0)  
    '    strbody = "Hi there" & vbNewLine & vbNewLine & _  
    "This is line 1" & vbNewLine & _  
    "This is line 2" & vbNewLine & _  
    "This is line 3" & vbNewLine & _  
    "This is line 4"  
    On Error Resume Next  
    With OutMail  
        .To = "anastasioualex@gmail.com"  
        .CC = vbNullString  
        .BCC = vbNullString  
        .Subject = "DEV REQUEST OR FEEDBACK FOR -CODE ARCHIVE-"  
        .body = strBody
```



```
'You can add a file like this
'.Attachments.Add ("C:\test.txt")
'.Send
.Display
- End With
On Error GoTo 0
Set OutMail = Nothing
Set OutApp = Nothing
End Sub
```
















