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Thread: [\[VB.NET\]A word wrap function](#)

codepoet - April 30, 2010, 8:39 am

I recently went looking for a good word wrap function that could handle words that were more than one line long, or even longer than multiple lines. I found none, so I wrote this. It's solid and the code is documented, easy to read and easy to implement in your own applications.

Declarations:

Code 'none

Code:

```
Code Public Function WrapText(ByVal Text As String, ByVal  
LineLength As Integer) As List(Of String)
```

```
Dim ReturnValue As New List(Of String)
```

```
' Remove leading and trailing spaces
```

```
Text = Trim(Text)
```

```
Dim Words As String() = Text.Split(" ")
```

```
If Words.Length = 1 And Words(0).Length > LineLength
```

```
Then
```

```
' Text is just one big word that is longer than one line
```

```
' Split it mercilessly
```

```
Dim lines As Integer = (Int(Text.Length / LineLength)  
+ 1)
```

```
Text = Text.PadRight(lines * LineLength)
```

```
For i = 0 To lines - 1
```

```
Dim SliceStart As Integer = i * LineLength
```

```
ReturnValue.Add(Text.Substring(SliceStart,  
LineLength))
```

```
Next
```

```
Else
```

```
Dim CurrentLine As New System.Text.StringBuilder
```

```
For Each Word As String In Words
```

```
' will this word fit on the current line?
```

```
If CurrentLine.Length + Word.Length <  
LineLength Then
```

```
CurrentLine.Append(Word & " ")
```

```
Else
```

```
' is the word too long for one line
```

```
If Word.Length > LineLength Then
```

```
' hack off the first piece, fill out the  
current line and start a new line
```

```
Dim Slice As String =
```

```
Word.Substring(0, LineLength - CurrentLine.Length)
```

```
CurrentLine.Append(Slice)
```

```
ReturnValue.Add(CurrentLine.ToString)
CurrentLine = New
System.Text.StringBuilder
```

```
' Remove the first slice from the word
Word = Word.Substring(Slice.Length,
Word.Length - Slice.Length)
```

```
' How many more lines do we need for
this word?
```

```
Dim RemainingSlices As Integer =
Int(Word.Length / LineLength) + 1
```

```
For LineNumber = 1 To
```

```
RemainingSlices
```

```
If LineNumber = RemainingSlices
```

```
Then
```

```
'this is the last slice
```

```
CurrentLine.Append(Word & "
```

```
")
```

```
Else
```

```
' this is not the last slice
```

```
' hack off a slice that is one
```

```
line long, add that slice
```

```
' to the output as a line and
```

```
start a new line
```

```
Slice = Word.Substring(0,
```

```
LineLength)
```

```
CurrentLine.Append(Slice)
```

```
ReturnValue.Add(CurrentLine.ToString)
```

```
CurrentLine = New
```

```
System.Text.StringBuilder
```

```
' Remove the slice from the
```

```
word
```

```
Word =
```

```
Word.Substring(Slice.Length, Word.Length - Slice.Length)
```

```
End If
```

```
Next
```

```
Else
```

```
' finish the current line and start a new
```

```
one with the wrapped word
```

```
ReturnValue.Add(CurrentLine.ToString)
```

```
CurrentLine = New
```

```
System.Text.StringBuilder(Word & " ")
```

```
End If
```

```
End If
```

```
Next
```

```
' Write the last line to the output
```

```
If CurrentLine.Length > 0 Then
```

```
ReturnValue.Add(CurrentLine.ToString)
```

```
End If
```

End If
Return ReturnValue
End Function
originaly written by: Duane Roelands

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TheBlackMarket - April 30, 2010, 4:19 pm

Thank for the Share Mate. Really Helpful and Useful.

codepoet - April 30, 2010, 4:21 pm

(Apr 30, 2010 04:19 PM)TheBlackMarket Wrote: [\[CITE\]](#) Thank for the Share Mate. Really Helpful and Useful.

you are very welcome