

How to: Programmatically Extend Ranges in Documents

After you define a [Range](#) object in a Microsoft Office Word document, you change its start and end points by using the [M:Microsoft.Office.Interop.Word.Range.MoveStart\(System.Object@,System.Object@\)](#) and [M:Microsoft.Office.Interop.Word.Range.MoveEnd\(System.Object@,System.Object@\)](#) methods. The [M:Microsoft.Office.Interop.Word.Range.MoveStart\(System.Object@,System.Object@\)](#) and [M:Microsoft.Office.Interop.Word.Range.MoveEnd\(System.Object@,System.Object@\)](#) methods take the same two arguments, *Unit* and *Count*. The *Count* argument is the number of units to move, and the *Unit* argument can be one of the following [T:Microsoft.Office.Interop.Word.WdUnits](#) values:

- [F:Microsoft.Office.Interop.Word.WdUnits.wdCharacter](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdWord](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdSentence](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdParagraph](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdSection](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdStory](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdCell](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdColumn](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdRow](#)
- [F:Microsoft.Office.Interop.Word.WdUnits.wdTable](#)

Applies to: The information in this topic applies to document-level projects and VSTO add-in projects for Word. For more information, see [Features Available by Office Application and Project Type](#).

The following example defines a seven-character range. It then moves the start position of the range seven characters after the original start position. Because the end position of the range was also seven characters after the start position, the result is a range that consists of zero characters. The code then moves the end position seven characters after the current end position.

To extend a range

1. Define a range of characters. For more information, see [How to: Programmatically Define and Select Ranges in Documents](#).

The following code example can be used in a document-level customization.

C#

```
object start = 0;  
object end = 7;  
Word.Range rng = this.Range(ref start, ref end);
```

The following code example can be used in an VSTO Add-in. This example uses the active document.

C#

```
Word.Range rng = this.Application.ActiveDocument.Range(0, 7);
```

2. Use the [M:Microsoft.Office.Interop.Word.Range.MoveStart\(System.Object@,System.Object@\)](#) method of the [Range](#) object to move the start position of the range.

C#

```
rng.MoveStart(Word.WdUnits.wdCharacter, 7);
```

3. Use the [M:Microsoft.Office.Interop.Word.Range.MoveEnd\(System.Object@,System.Object@\)](#) method of the [Range](#) object to move the end position of the range.

C#

```
rng.MoveEnd(Word.WdUnits.wdCharacter, 7);
```

Document-Level Customization Code

To extend a range in a document-level customization

1. The following example shows the complete code for a document-level customization. To use this code, run it from the `ThisDocument` class in your project.

C#

```
// Define a range of 7 characters.  
object start = 0;  
object end = 7;  
Word.Range rng = this.Range(ref start, ref end);  
  
// Move the start position 7 characters.  
rng.MoveStart(Word.WdUnits.wdCharacter, 7);
```

```
// Move the end position 7 characters.  
rng.MoveEnd(Word.WdUnits.wdCharacter, 7);
```

VSTO Add-in Code

To extend a range in an application-level VSTO Add-in

1. The following example shows the complete code for an VSTO Add-in. To use this code, run it from the `ThisAddIn` class in your project.

C#

```
// Define a range of 7 characters.  
Word.Range rng = this.Application.ActiveDocument.Range(0, 7);  
  
// Move the start position 7 characters.  
rng.MoveStart(Word.WdUnits.wdCharacter, 7);  
  
// Move the end position 7 characters.  
rng.MoveEnd(Word.WdUnits.wdCharacter, 7);
```

See Also

[How to: Programmatically Reset Ranges in Word Documents](#)

[How to: Programmatically Collapse Ranges or Selections in Documents](#)

[How to: Programmatically Define and Select Ranges in Documents](#)

[How to: Programmatically Retrieve Start and End Characters in Ranges](#)

[How to: Programmatically Exclude Paragraph Marks When Creating Ranges](#)