

How to: Programmatically Insert Text into Word Documents

[Other Versions](#) ▾

There are three primary ways to insert text into Microsoft Office Word documents:

- Insert text in a range.
- Replace text in a range with new text.
- Use the [M:Microsoft.Office.Interop.Word.Selection.TypeText\(System.String\)](#) method of a [Selection](#) object to insert text at the cursor or selection.

Note

You can also insert text into content controls and bookmarks. For more information, see [Content Controls](#) and [Bookmark Control](#).

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](#).

Inserting Text in a Range

Use the [P:Microsoft.Office.Interop.Word.Range.Text](#) property of a [Range](#) object to insert text in a document.

To insert text in a range

1. Specify a range at the beginning of a document and insert the text **New Text**.

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

C#

VB

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

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

C#**VB**

```
Word.Range rng = this.Application.ActiveDocument.Range(0, 0);  
rng.Text = "New Text";
```

2. Select the **Range** object, which has expanded from one character to the length of the inserted text.

C#**VB**

```
rng.Select();
```

Replacing Text in a Range

If the specified range contains text, all text in the range is replaced with the inserted text.

To replace text in a range

1. Create a **Range** object that consists of the first 12 characters in the document.

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

C#**VB**

```
object start = 0;  
object end = 12;  
  
Word.Range rng = this.Range(ref start, ref end);
```

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

C#**VB**

```
Word.Range rng = this.Application.ActiveDocument.Range(0, 12);
```

2. Replace those characters with the string **New Text**.

C#**VB**

```
rng.Text = "New Text";
```

3. Select the range.

C#

VB

```
rng.Select();
```

Inserting Text Using TypeText

The [M:Microsoft.Office.Interop.Word.Selection.TypeText\(System.String\)](#) method inserts text at the selection. [M:Microsoft.Office.Interop.Word.Selection.TypeText\(System.String\)](#) behaves differently depending on the options set on the user's computer. The code in the following procedure declares a [Selection](#) object variable, and turns off the **Overtyp** option if it is turned on. If the **Overtyp** option is activated, then any text next to the cursor is overwritten.

To insert text using the TypeText method

1. Declare a [Selection](#) object variable.

C#

VB

```
Word.Selection currentSelection = Application.Selection;
```

2. Turn off the **Overtyp** option if it is turned on.

C#

VB

```
if (Application.Options.Overtyp)  
{  
    Application.Options.Overtyp = false;  
}
```

3. Test to see whether the current selection is an insertion point.

If it is, the code inserts a sentence using [M:Microsoft.Office.Interop.Word.Selection.TypeText\(System.String\)](#), and then a paragraph mark using the [M:Microsoft.Office.Interop.Word.Selection.TypeParagraph](#) method.

C#

VB

```
// Test to see if selection is an insertion point.  
if (currentSelection.Type == Word.WdSelectionType.wdSelectionIP)  
{  
    currentSelection.TypeText("Inserting at insertion point. ");  
    currentSelection.TypeParagraph();  
}
```

4. The code in the **ElseIf** block tests to see whether the selection is a normal selection. If it is, then another **If** block tests to see whether the **ReplaceSelection** option is turned on. If it is, the code uses

the [M:Microsoft.Office.Interop.Word.Selection.Collapse\(System.Object@\)](#) method of the selection to collapse the selection to an insertion point at the start of the selected block of text. Insert the text and a paragraph mark.

C#**VB**

```
else
    if (currentSelection.Type == Word.WdSelectionType.wdSelectionNormal)
    {
        // Move to start of selection.
        if (Application.Options.ReplaceSelection)
        {
            object direction = Word.WdCollapseDirection.wdCollapseStart;
            currentSelection.Collapse(ref direction);
        }
        currentSelection.TypeText("Inserting before a text block. ");
        currentSelection.TypeParagraph();
    }
```

5. If the selection is not an insertion point or a block of selected text, then the code in the **Else** block does nothing.

C#**VB**

```
else
{
    // Do nothing.
}
```

You can also use the [M:Microsoft.Office.Interop.Word.Selection.TypeBackspace](#) method of the [Selection](#) object, which mimics the functionality of the BACKSPACE key on your keyboard. However, when it comes to inserting and manipulating text, the [Range](#) object offers you more control.

The following example shows the complete code. To use this example, run the code from the `ThisDocument` or `ThisAddIn` class in your project.

C#**VB**

```
private void SelectionInsertText()
{
    Word.Selection currentSelection = Application.Selection;

    // Store the user's current Overtyping selection
    bool userOvertyping = Application.Options.Overtyping;

    // Make sure Overtyping is turned off.
    if (Application.Options.Overtyping)
    {
        Application.Options.Overtyping = false;
    }

    // Test to see if selection is an insertion point.
    if (currentSelection.Type == Word.WdSelectionType.wdSelectionIP)
    {
        currentSelection.TypeText("Inserting at insertion point. ");
    }
```

```
currentSelection.TypeParagraph();
}
else
    if (currentSelection.Type == Word.WdSelectionType.wdSelectionNormal)
    {
        // Move to start of selection.
        if (Application.Options.ReplaceSelection)
        {
            object direction = Word.WdCollapseDirection.wdCollapseStart;
            currentSelection.Collapse(ref direction);
        }
        currentSelection.TypeText("Inserting before a text block. ");
        currentSelection.TypeParagraph();
    }
    else
    {
        // Do nothing.
    }

    // Restore the user's Overtyping selection
    Application.Options.Overtyping = userOvertyping;
}
```