

How to: Programmatically Define and Select Ranges in Documents

You can define a range in a Microsoft Office Word document by using a [Range](#) object. You can select the entire document in a number of ways, for example, by using the [M:Microsoft.Office.Interop.Word.Range.Select](#) method of the [Range](#) object, or by using the Content property of the [Microsoft.Office.Tools.Word.Document](#) class (in a document-level customization) or the [Microsoft.Office.Interop.Word.Document](#) class (in a VSTO Add-in).

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](#).

Defining a Range

The following example shows how to create a new [Range](#) object that includes the first seven characters in the active document, including non-printing characters. It then selects the text within the range.

To define a range in a document-level customization

1. Add the range to the document by passing a start and end character to the [Range](#) method of the [Microsoft.Office.Tools.Word.Document](#) class. To use this code example, run it from the `ThisDocument` class in your project.

C#

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

rng.Select();
```

To define a range by using a VSTO Add-in

1. Add the range to the document by passing a start and end character to the [M:Microsoft.Office.Interop.Word._Document.Range\(System.Object@,System.Object@\)](#) method of the [Microsoft.Office.Interop.Word.Document](#) class. The following code example adds a range to the active document. To use this code example, run it from the `ThisAddIn` class in your project.

C#

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

rng.Select();
```

Selecting a Range in a Document-Level Customization

The following examples show how to select the entire document by using the [M:Microsoft.Office.Interop.Word.Range.Select](#) method of a [Range](#) object, or by using the [Content](#) property of the [Microsoft.Office.Tools.Word.Document](#) class.

To select the entire document as a range by using the Select method

1. Use the [M:Microsoft.Office.Interop.Word.Range.Select](#) method of a [Range](#) that contains the entire document. To use the following code example, run it from the `ThisDocument` class in your project.

C#

```
object start = this.Content.Start;  
object end = this.Content.End;  
  
this.Range(ref start, ref end).Select();
```

To select the entire document as a range by using the Content property

1. Use the [Content](#) property to define a range that encompasses the entire document.

C#

```
this.Content.Select();
```

You can also use the methods and properties of other objects to define a range.

To select a sentence in the active document

1. Set the range by using the [Sentences](#) collection. Use the index of the sentence you want to select.

C#

```
Word.Range s2 = this.Sentences[2];  
s2.Select();
```

Another way to select a sentence is to manually set the start and end values for the range.

To select a sentence by manually setting the start and end values

1. Create a range variable.

C#

```
Word.Range rng;
```

2. Check to see if there are at least two sentences in the document, set the *Start* and *End* arguments of the range, and then select the range.

C#

```
if (this.Sentences.Count >= 2)
{
    object startLocation = this.Sentences[2].Start;
    object endLocation = this.Sentences[2].End;

    // Supply a Start and End value for the Range.
    rng = this.Range(ref startLocation, ref endLocation);

    // Select the Range.
    rng.Select();
}
```

Selecting a Range by Using a VSTO Add-in

The following examples show how to select the entire document by using the [M:Microsoft.Office.Interop.Word.Range.Select](#) method of a [Range](#) object, or by using the [P:Microsoft.Office.Interop.Word._Document.Content](#) property of the [Microsoft.Office.Interop.Word.Document](#) class.

To select the entire document as a range by using the Select method

1. Use the [M:Microsoft.Office.Interop.Word.Range.Select](#) method of a [Range](#) that contains the entire document. The following code example selects the contents of the active document. To use this code example, run it from the `ThisAddIn` class in your project.

C#

```
this.Application.ActiveDocument.Range(
    this.Application.ActiveDocument.Content.Start,
    this.Application.ActiveDocument.Content.End).Select();
```

To select the entire document as a range by using the Content property

1. Use the [P:Microsoft.Office.Interop.Word._Document.Content](#) property to define a range that encompasses the entire document.

C#

```
this.Application.ActiveDocument.Content.Select();
```

You can also use the methods and properties of other objects to define a range.

To select a sentence in the active document

1. Set the range by using the [Sentences](#) collection. Use the index of the sentence you want to select.

C#

```
Word.Range s2 = this.Application.ActiveDocument.Sentences[2];  
s2.Select();
```

Another way to select a sentence is to manually set the start and end values for the range.

To select a sentence by manually setting the start and end values

1. Create a range variable.

C#

```
Word.Range rng;
```

2. Check to see if there are at least two sentences in the document, set the *Start* and *End* arguments of the range, and then select the range.

C#

```
Word.Document document = this.Application.ActiveDocument;  
  
if (document.Sentences.Count >= 2)  
{  
    object startLocation = document.Sentences[2].Start;  
    object endLocation = document.Sentences[2].End;  
  
    // Supply a Start and End value for the Range.  
    rng = document.Range(ref startLocation, ref endLocation);  
  
    // Select the Range.  
    rng.Select();  
}
```

See Also

[Word Object Model Overview](#)

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

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

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

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

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

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

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