

Graphite-enabled Edit Control Version 0.9

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2003-06-26*

Overview	1
Download	1
Executable files	1
Source code and libraries	2
Test application	2
Installation	2
Interface	2
Event handling	3
Known issues.....	3

Overview

SilGraphiteControl is an ActiveX control that provides rendering using SIL's Graphite engine. It is intended for use on the Window 2000 and Windows XP operating systems.

The functionality of version 0.9 is fairly close to what is described as "phase 3" in the [specification document](#)¹. See the [Known issues](#) section below for more details about the status of specific features.

Download

Executable files

**Graphite Edit Control Executable Files - Release**

Sharon Correll, 2003-06-30
[Download ZIP archive](#) 166KB

**Graphite Edit Control Executable Files - Debug**

Sharon Correll, 2003-06-30
[Download ZIP archive](#) 352KB

**MFC-related DLLs required for the Graphite Edit Control**

Sharon Correll, 2003-07-02
[Download ZIP archive](#) 858KB

¹ http://scripts.sil.org/cms/scripts/page.php?site_id=nrsi&item_id=GraphiteEditControlSpecs

Graphite-enabled Edit Control Version 0.9

2003-06-26

Page 2 of 4

Source code and libraries

**Graphite Edit Control Source Code**Sharon Correll, 2003-06-30
[Download ZIP archive](#) 533KB**Graphite Edit Control Include Files**Sharon Correll, 2003-06-30
[Download ZIP archive](#) 66KB**Graphite Library Files for Edit Control**Sharon Correll, 2003-06-30
[Download ZIP archive](#) 2MB

Test application

The test application is provided solely to demonstrate how to interface with the edit control. It is known to be buggy!

**Graphite Edit Control Test Application**Sharon Correll, 2003-06-30
[Download ZIP archive](#) 189KB

In order to run the test application, you will need to have the [MS .NET framework](#)² installed.

Installation

To use the edit control within your application, you will need to download one of the executable packages above. The SILGraphiteControl.ocx file must be registered using regsvr32.

You may also need to install and register the three MFC DLLs in the package above if they are not already present on your system.

Interface

Below are listed the methods that are part of the SilGraphiteControl interface.

Methods for initializing the parameters of the control

```
void SetDefaultFont([in] BSTR fontName);  
void SetDefaultFontSize([in] int fontSize);  
void SetAllowFormatDlg([in] VARIANT_BOOL newVal);  
void SetVerticalScroll([in] VARIANT_BOOL scrollFlag);  
void SetMultiline([in] VARIANT_BOOL);
```

Methods for editing text

```
void SetText([in] LPCTSTR newVal);  
BSTR GetText();  
void Cut(void);  
void Copy(void);  
void Paste(void);
```

² <http://microsoft.com/downloads/details.aspx?FamilyId=262D25E3-F589-4842-8157-034D1E7CF3A3&displaylang=en>

```
void Undo(void);
```

```
void Redo(void);
```

Methods for formatting text

```
void SetSelectionFont([in] BSTR fontName);
```

```
void GetSelectionFont([out] BSTR* fontName);
```

```
void SetSelectionFontSize([in] int fontSize);
```

```
int GetSelectionFontSize(void);
```

Methods for working with files

```
void Open([in] BSTR pVar, [in] LONG flags, [in] LONG CodePage);
```

```
void Save([in] BSTR pVar, [in] LONG flags, [in] LONG CodePage);
```

```
void PutHtmlText([in] BSTR text);
```

```
void GetHtmlText([out] BSTR* text);
```

Other methods

The following methods exist but have not been tested adequately or are known to be buggy:

```
void New(void);
```

```
void ResizeWindow([in] LONG x, [in] LONG y);
```

```
LONG GetSizeX(void);
```

```
LONG GetSizeY(void);
```

```
void MoveRight([in] VARIANT_BOOL shiftFlag);
```

```
void MoveLeft([in] VARIANT_BOOL shiftFlag);
```

```
void MoveUp([in] VARIANT_BOOL shiftFlag);
```

```
void MoveDown([in] VARIANT_BOOL shiftFlag);
```

Event handling

The control supports the following stock events:

- Click
- KeyDown

Known issues

Mouse bug: It is possible to get into a state where the mouse hangs. Workaround: do an extra right click to return the mouse to its normal state.

Printing is unsupported in this version.

Zooming is unsupported in this version.

Menu options are not appropriately disabled (e.g., Copy and Paste).

Horizontal scrolling in the multi-line control is not available in this version.

Graphite-enabled Edit Control Version 0.9

2003-06-26

Page 4 of 4

Graphite and Uniscribe: The Graphite engine is used for all fonts, even those with no Graphite tables. This is a hindrance to performance, and also means that Uniscribe support built into the operating system is not available.

Vertical scroll bar: Turning on the vertical scroll bar after the control has been filled with text will not work correctly.

HTML import: The HTML import routines will only handle files that have been generated by the control's HTML export function. Arbitrary HTML or XHTML will not be successfully loaded, and error recovery is minimal.

Keyman: Keyman behavior seems to be inconsistent within the test application. Starting and stopping either the application or Keyman may help.

This document was generated from
http://scripts.sil.org/cms/scripts/page.php?site_id=nrsi&item_id=GrEditCtrlDoc
on Fri, 29 Aug 2003 08:39:46 -0500.

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