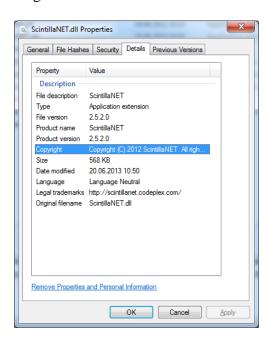
Scintilla.NET can't be loaded in Terminals

Introduction

Bug in Scintilla.NET version 2.5.2 Scintilla.cs line 669:



```
private static void LoadModule()
   if (_moduleHandle == IntPtr.Zero)
       // Load the Scintilla module into memory
       if ((_moduleHandle = NativeMethods.LoadLibrary(_moduleName)) == IntPtr.Zero)
            string message = string.Format(Resources.Culture, Resources.Exception_CannotLoadModule, _moduleName);
            throw new Win32Exception(message, new Win32Exception(Marshal.GetLastWin32Error()));
       }
       // Get the direct function. We use GetProcAddress instead of DllImport
        // because we don't know the name of the module ahead of time.
       _directFunction = Marshal.GetDelegateForFunctionPointer(
            NativeMethods.GetProcAddress(_moduleHandle, "Scintilla_DirectFunction"),
            typeof(NativeMethods.Scintilla_DirectFunction)) as NativeMethods.Scintilla_DirectFunction;
       if (_directFunction == null)
            string message = string.Format(Resources.Culture, Resources.Exception_InvalidModule, _moduleName);
            throw new Win32Exception(message, new Win32Exception(Marshal.GetLastWin32Error()));
   }
}
```

Symptoms

Terminals plugin is unable to load the scintilla native component and produces an error in the Terminals log like:

```
ERROR 2013-06-20 15:32:50,561 51427ms Terminals
                                                              Error
- System.ComponentModel.Win32Exception: Cannot load the 'SciLexer.dll'
module into memory. ---> System.ComponentModel.Win32Exception: The
specified module could not be found
   --- End of inner exception stack trace ---
   at ScintillaNET.Scintilla.LoadModule() in
C:\Users\jslusser\Projects\ScintillaNET\Releases\2.5\ScintillaNET\Scintilla
.cs:line 669
   at ScintillaNET.Scintilla.get CreateParams() in
C:\Users\jslusser\Projects\ScintillaNET\Releases\2.5\ScintillaNET\Scintilla
.cs:line 2508
   at System.Windows.Forms.Control..ctor(Boolean autoInstallSyncContext)
   at System.Windows.Forms.Control..ctor()
   at ScintillaNET.Scintilla..ctor() in
C:\Users\jslusser\Projects\ScintillaNET\Releases\2.5\ScintillaNET\Scintilla
.cs:line 3688
   at CodeEditor.Edit.InitializeComponent() in
d:\Kohl\Projects\Code\Terminals\CodeEditor\Edit.Designer.cs:line 123
   at CodeEditor.Edit..ctor() in
d:\Kohl\Projects\Code\Terminals\CodeEditor\Edit.cs:line 696
ERROR 2013-06-20 15:32:50,570 51436ms Terminals
- System. NullReference Exception: Object reference not set to an instance of
an object.
   at CodeEditor.Edit.SetScintillaToCurrentOptions(Scintilla scintilla) in
d:\Kohl\Projects\Code\Terminals\CodeEditor\Edit.cs:line 563
   at CodeEditor.Edit.NewDocument() in
d:\Kohl\Projects\Code\Terminals\CodeEditor\Edit.cs:line 324
   at CodeEditor.Edit..ctor() in
d:\Kohl\Projects\Code\Terminals\CodeEditor\Edit.cs:line 705
ERROR 2013-06-20 15:32:52,437 53303ms Terminals
                                                              Error
- System. NullReference Exception: Object reference not set to an instance of
an object.
   at CodeEditor.Edit.SetLanguage(String extension) in
d:\Kohl\Projects\Code\Terminals\CodeEditor\Edit.cs:line 77
```

Solution

If the build in solution Terminals uses doesn't work please be so kind to report the error and use one of the below mentioned solutions (solution one to three) - every solution except solution number four.

Solution 1:

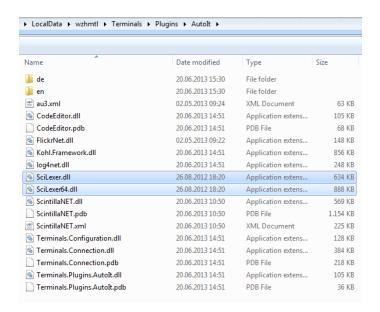
Change the line 669 in Scintilla.cs:

from

```
private static void LoadModule()
      if (_moduleHandle == IntPtr.Zero)
           // Load the Scintilla module into memory
           if ((_moduleHandle = NativeMethods.LoadLibrary(_moduleName)) == IntPtr.Zero)
                string message = string.Format(Resources.Culture, Resources.Exception CannotLoadModule, moduleName);
                throw new Win32Exception(message, new Win32Exception(Marshal.GetLastWin32Error()));
           }
           // Get the direct function. We use GetProcAddress instead of DllImport
           // because we don't know the name of the module ahead of time.
           _directFunction = Marshal.GetDelegateForFunctionPointer(
                NativeMethods.GetProcAddress(_moduleHandle, "Scintilla_DirectFunction"),
                typeof(NativeMethods.Scintilla_DirectFunction)) as NativeMethods.Scintilla_DirectFunction;
           if (_directFunction == null)
                string message = string.Format(Resources.Culture, Resources.Exception_InvalidModule, _moduleName);
                throw new Win32Exception(message, new Win32Exception(Marshal.GetLastWin32Error()));
      }
 }
to
private static void LoadModule()
      // Load the Scintilla module into memory
if ((_moduleHandle = NativeMethods.LoadLibrary(System.IO.Path.Combine(Path.GetDirectoryName(System.Reflection.Assembly.GetExecutingAssembly().Location), _moduleName())) == IntPtr.Zero)
...
         string message = string.Format(Resources.Culture, Resources.Exception_CannotLoadModule, _moduleName);
throw new Win32Exception(message, new Win32Exception(Marshal.GetLastWin32Error()));
      string message = string.Format(Resources.Culture, Resources.Exception_InvalidModule, _moduleName);
throw new Win32Exception(message, new Win32Exception(Marshal.GetLastWIn32Error()));
```

Solution 2:

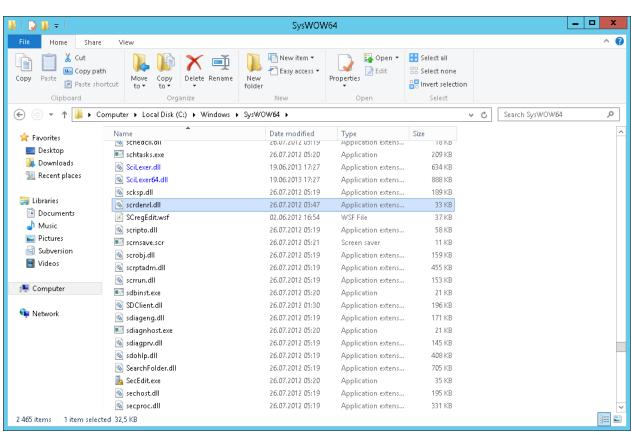
Move or copy the Scintilla.NET dependent libraries to the Terminals root directory:



Solution 3:

Move or copy the Scintilla.NET dependent libraries to the System32 and SysWow64 directories.





Solution 4 (default, built-in)

Terminals try to work around this problem by using the following code in the "Terminals code editor"

→ Workaround: Load SciLexer or SciLexer64 before the Scintilla.NET library does.

```
[DllImport("kernel32.dll")]
private static extern IntPtr LoadLibrary(string dllToLoad);

static Edit()
{
    string nativeDllName = IntPtr.Size == 4 ? "SciLexer.dll" : "SciLexer64.dll";
    string path = Path.GetDirectoryName(System.Reflection.Assembly.GetExecutingAssembly().Location);
    string name = System.IO.Path.Combine(path, nativeDllName);

Log.Debug("Loading native dll '" + name + "' dynamically.");

if (LoadLibrary(name) == IntPtr.Zero)
    {
        Log.Fatal("Error loading native dll " + nativeDllName + " at '" + path + "'.");
    }
}
```

Notifying the developer

Either navigate to the website

http://www.kohl.bz

or

write an e-mail to

oliver@kohl.bz

and report the issue, possible root causes and symptoms.