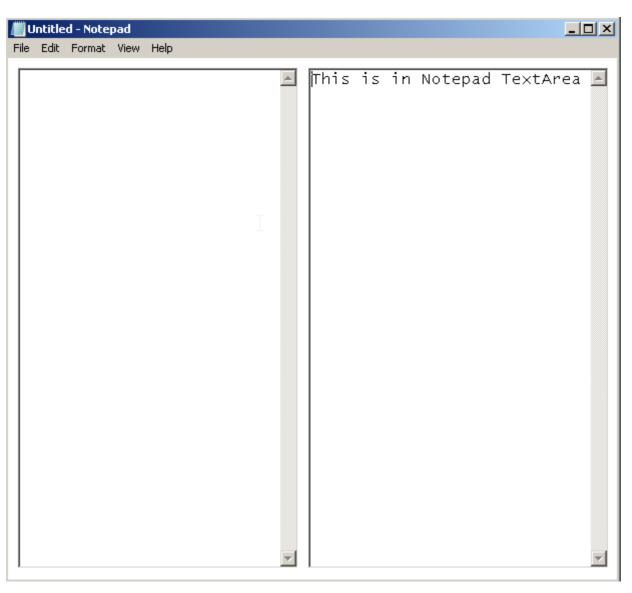
## Injecting a .NET REPL into an Unmanaged app (Notepad)

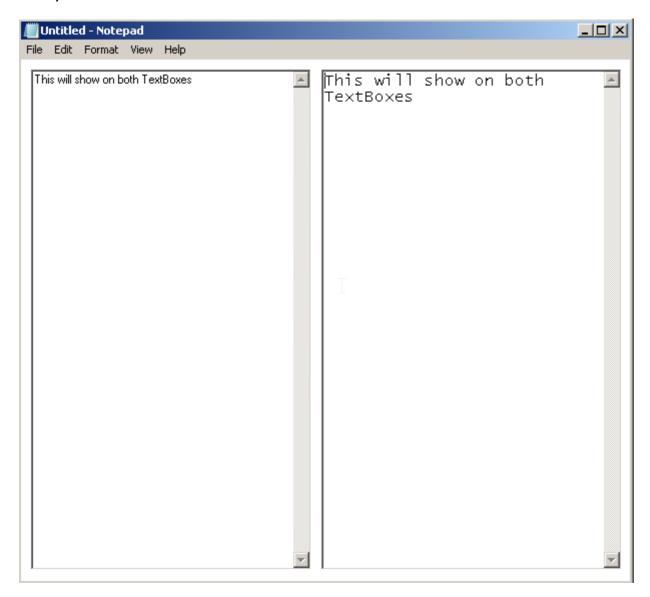
## Adding a .Net TextBox to a Notepad process

```
var notepad = "notepad.exe".startProcess();
notepad.WaitForInputIdle();
var mainWindowHandle = notepad.MainWindowHandle;
var childWindows = WinAPI.GetChildWindows(mainWindowHandle);
var nodepad_Text = childWindows.first();
WinAPI.MoveWindow(nodepad_Text, 300,10,300,500,true);
WinAPI.SetControlText(nodepad_Text, "This is in Notepad TextArea");
O2Thread.staThread(
      ( ) => {
                    var notepadPanel = new Panel()
                                  Top = 10,
                                 Left = 10,
                                  Width = 280,
                                  Height = 500
                    WinAPI.SetParent(notepadPanel.Handle, mainWindowHandle);
                    notepadPanel.add_TextArea()
                                         .onTextChange((text)=> WinAPI.SetControlText(nodepad_Text,
text))
                                         .focus();
                    Application.Run();
             });
```

//O2File:API\_WinAPI.cs

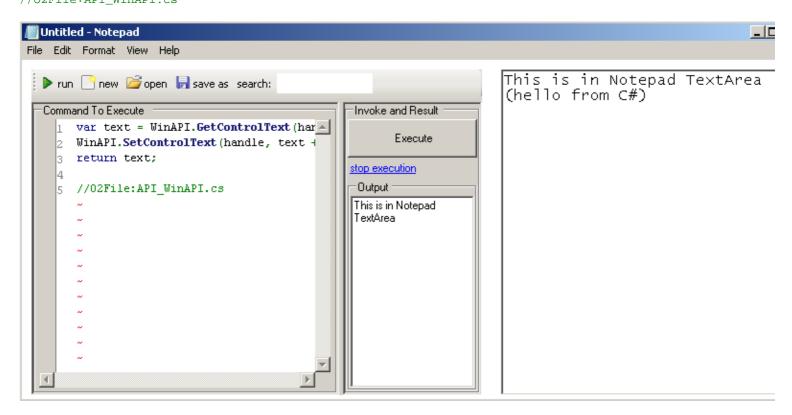


Note how the left TextArea is a .Net/CLR one, that when modified ,wil apply the changes to the one on the right (C++ based)



## Injecting an C# REPL editor into Notepad

```
var notepad = "notepad.exe".startProcess();
notepad.WaitForInputIdle();
var mainWindowHandle = notepad.MainWindowHandle;
var childWindows = WinAPI.GetChildWindows(mainWindowHandle);
var nodepad_Text = childWindows.first();
WinAPI.MoveWindow(mainWindowHandle, 600,10,820,400,true);
WinAPI.MoveWindow(nodepad_Text, 500,10,305,340,true);
WinAPI.SetControlText(nodepad_Text, "This is in Notepad TextArea");
                    var defaultCode=
@"var text = WinAPI.GetControlText(handle);
WinAPI.SetControlText(handle, text + "" (hello from C#)"" );
return text;
//O2File:API_WinAPI.cs";
O2Thread.staThread(
      ( ) => {
                    var notepadPanel = new Panel()
                                  Top = 10,
                                  Left = 10,
                                  Width = 470,
```



Typing a text on the right, followed by 'Execute'

