

How to Build Notepad++ from Source: A Beginner's Guide

OPTION A

Current Date: 6/4/2018

Revision: 1



Introduction

Participation in an open source project can be a rewarding and gratifying experience. This is particularly so when engaging software that one both admires and uses regularly, and that is held in the highest esteem by the software community at large (such as Notepad++). It can also be a very challenging experience, especially for those less experienced. This document is designed to provide a step-by-step guide for building a working Notepad++ executable from its source code, as available here: https://github.com/notepad-plus-plus/notepad-plus-plus/. (As such, it chronicles one particular methodology for completing this end, and does not represent an exclusive path for successful compilation. An alternate "OPTION B" is provided in this same repository from which you accessed the current document.)

Requirements

- **Visual Studio 2017 (or 2015)**
 - Visual Studio 2015 should work in place of 2017.
 - "Should" because the author did not verify this directly, but is confident it will work.
 - Visual Studio Community 2015 can be downloaded directly from Microsoft and does not require a product key: https://www.visualstudio.com/vs/older-downloads/
 - See here for VS2017 system requirements See here for VS2015 system requirements
- Git Bash
 - Or a similar means of downloading the Notepad++ repository from github.
 - Git (which includes Git Bash) can be downloaded here: https://git-scm.com/downloads.
 - If you have a github account, downloading the Notepad++ repository can also be accomplished using github desktop, found here: https://desktop.github.com/.
 - If you don't have a github account, you should probably get one, here: https://github.com/.
- Notepad++
 - Install and run the latest version of Notepad++ before attempting these steps. available here: https://notepad-plus-plus.org/download/.

Time Commitment

a) Approximately 30-60 minutes, depending on proficiency and hardware.

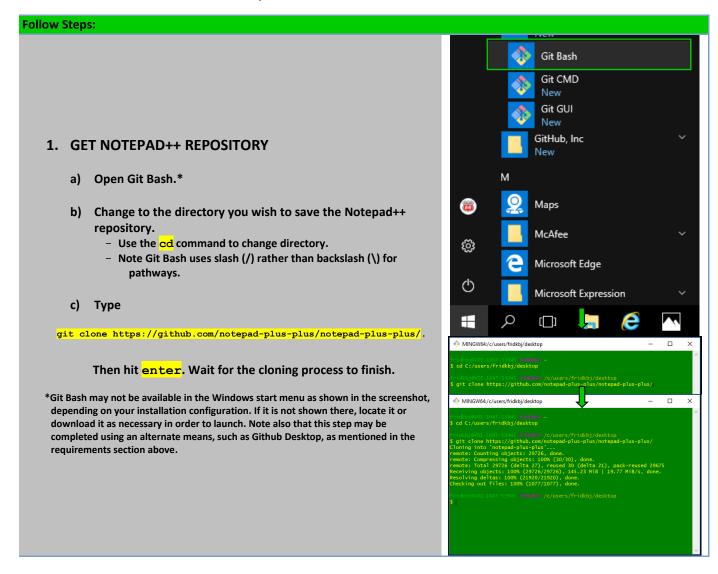
Assumptions

This document assumes that the target audience is at least marginally proficient in the use of Windows, and has at least minimal exposure to basic computer programming fundamentals, C++, and (of course) Notepad++.





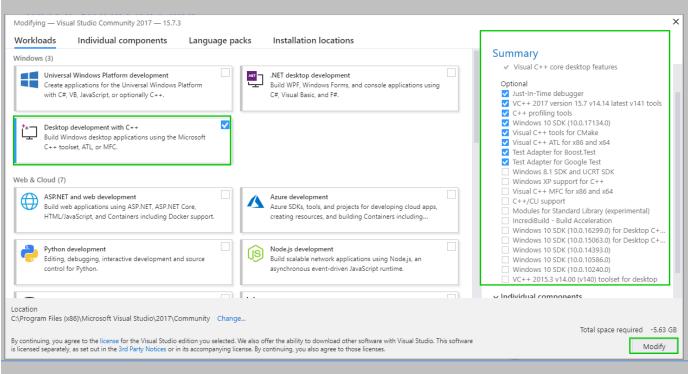
Tip: If screenshots appear too small for viewing, using a "zoom" feature such as that offered by Windows or Adobe Acrobat can be helpful!





Settings Skype for Business 2016 Visual Studio 2013 New Visual Studio 2015 Visual Studio 2017 Visual Studio 2017 Visual Studio Installer New VMware 2. ESTABLISH VISUAL STUDIO C++ DEPENDENCIES Voice Recorder a) Visual Studio 2017 must be installed with C++ compiling tools. Open the installer (available here) to check if these **6** tools are already installed. Weather b) Once opened, click "Modify" to check the status of installed €\$ Windows Accessories toolsets. Make sure "Desktop development with C++" is selected, with all default options checked. Windows Administrative Tools Ф c) If changes are required, click "Modify" again, and wait for installation to complete. *Steps should be similar for VS2015. Screenshots not shown. Visual Studio Installer Products Installed Visual Studio Enterprise 2017 15.7.1 Microsoft DevOps solution for productivity and coordination across teams of any size Release notes Launch Modify







3. INITIAL BUILD PREPARATION

a) Launch Visual Studio 2017. Open "notepadPlus.vcxproj", located at PowerEditor\visual.net (within the Notepad++ repository cloned in step 1).

Click "OK" on VS "Source Control-Git" and/or "Security Warning for notepadPlus" popups as needed.

b) (OPTIONAL)

If desired, make a test change so that once the working executable is created, you can ensure it is from your build. For instance, you can change the text in the popup that results from attempting to close an unsaved file (or close the program with an unsaved file open) by modifying line 1850* of Notepad_plus.cpp.

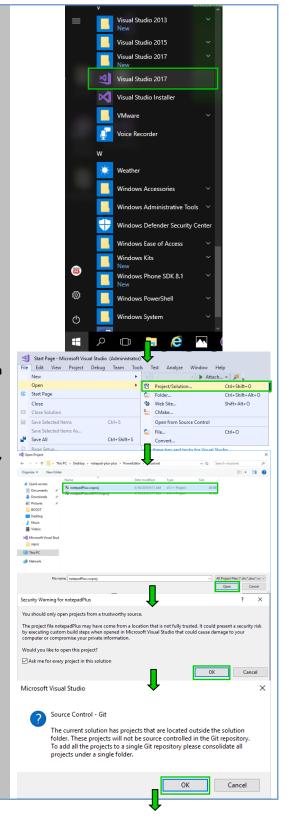
*Line number is subject to change as new versions of Notepad++ are released.

- c) Right-click on "Notepad++ (Visual Studio 2015 Windows XP)" in the Solution Explorer* and select "Properties". Under "Configuration Properties->General":
 - Change the "Windows SDK Version" to the latest available.
 - Change the "Platform Toolset" to:

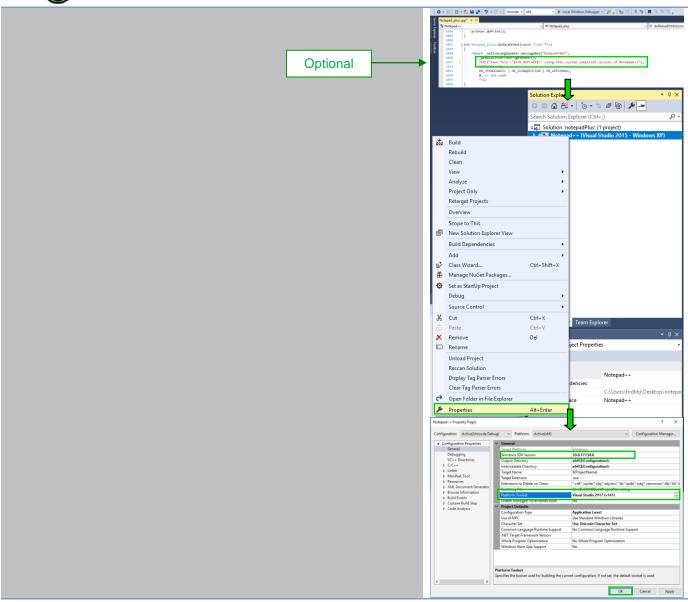
"Visual Studio 2017 (v141)"

Click "OK" when done.

* Use shortcut Ctrl+Alt+L to make the Solution Explorer visible.









4. ADD SCINTILLA PROJECT

a) Right-click "Solution 'notepadPlus'" in the Solution Explorer*, then select the menu item "Add->Existing Project..."

Click "OK" on "Security Warning for SciLexer" pop-up if it appears.

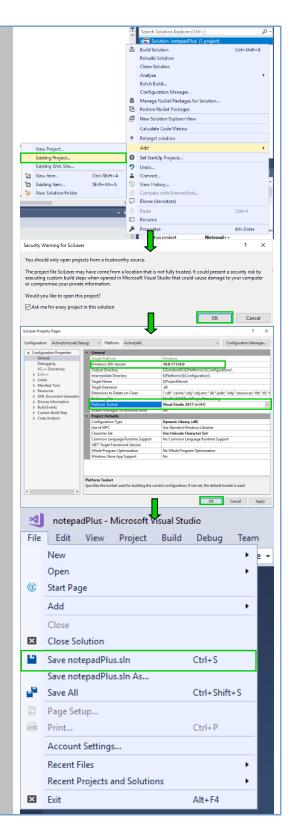
* Use shortcut Ctrl+Alt+L to make the Solution Explorer visible.

- b) Open "SciLexer.vcxproj", located at \scintilla\win32 (within the Notepad++ repository cloned in step 1).
- d) Right-click on "SciLexer (Visual Studio 2013 Windows XP)" in the Solution Explorer* and select "Properties". Under "Configuration Properties->General":
 - Change the "Windows SDK Version" to the latest available.
 - Change the "Platform Toolset" to:

"Visual Studio 2017 (v141)"

Click "OK" when done.

- * Use shortcut Ctrl+Alt+L to make the Solution Explorer visible.
- c) Click on "Solution 'notepadPlus" in the Solution Explorer and save the solution.



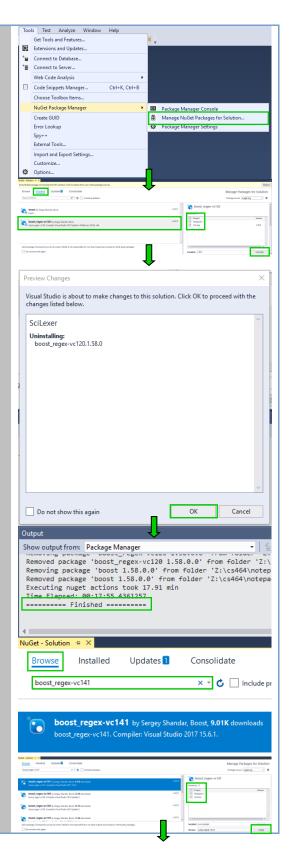


5. UPDATE BOOST NUGET PACKAGES a) Select "Manage NuGet Packages for Solution..." from the topmenu item "Tools->NuGet Package Manager". b) Under the "Installed" tab, click "boost regex-vc120". Check all three boxes in the right-hand list ("Project", Notepad++, SciLexer), and then click "Uninstall". c) Click "OK" on the "Preview Changes" pop-up if necessary. d) Allow sufficient time for the uninstall to complete. Wait until "======== Finished ========"" notification is displayed in the Output* window. *Use the shortcut Ctrl+Alt+O to make the Output window visible. e) Select the "Browse" tab and search "boost regex-vc141". Click the first available result, and with all checkboxes selected in the right-hand list ("Project", Notepad++, SciLexer), click "Install". Click "OK" on the "Preview Changes" pop-up if necessary. Allow sufficient time* for the install to complete. Wait until the notification is displayed in the Output** window.

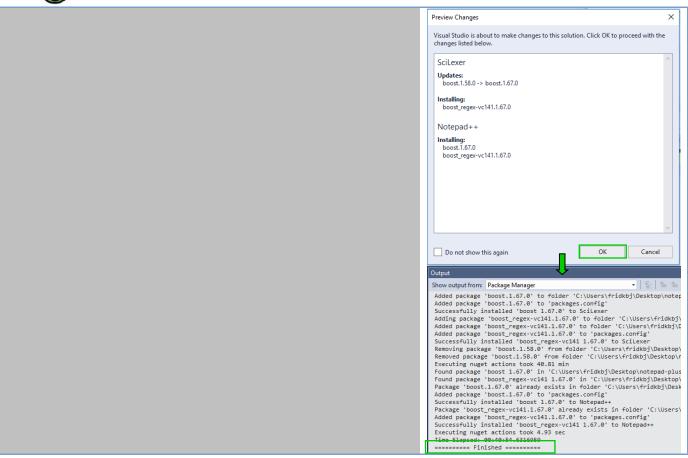
**Use the shortcut Ctrl+Alt+O to make the Output window

*May require 30-45+ minutes.

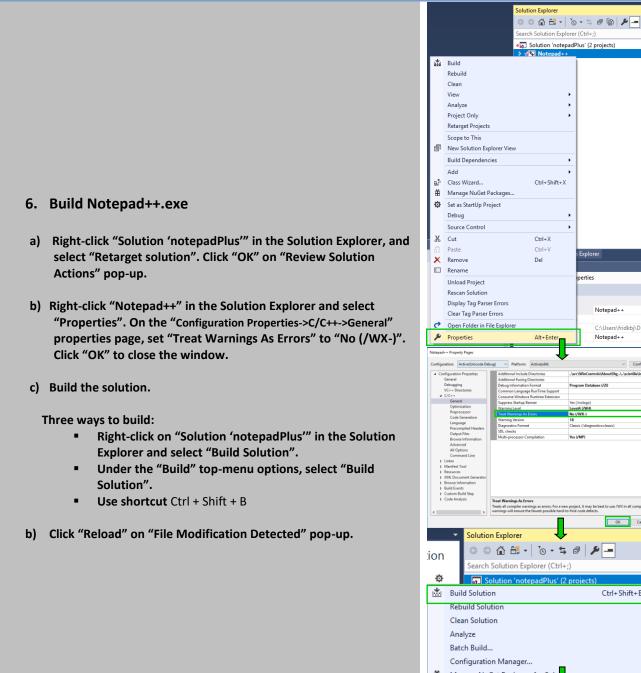
visible.











Ctrl+Shift+X Ctrl+V C:\Users\fridkbj\Desktop\ Notepad++ + Д X ○ ○ ☆ ☆ · ○ · ≒ a | ≯ -Search Solution Explorer (Ctrl+;) Ω Ctrl+Shift+B Manage NuGet Dackages for Solu The solution 'notepadPlus' has been modified outside the environment <u>R</u>eload



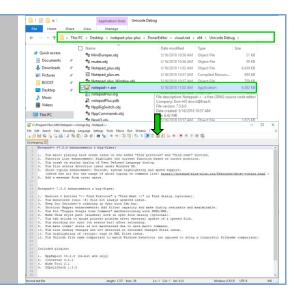
7. LAUNCH

Once completed, launch your own build of notepad++.exe!

■ The VS build of notepad++.exe is also found in:

\PowerEditor\visual.net\x64\Unicode Debug

If you move notepad++.exe to a different directory, you must move SciLexer.dll with it.



^{**}Special thanks to ClaudiaFrank (github), without whose guidance this document would not have been possible.**