[ref] <https://msdn.microsoft.com/en-us/library/669zx6zc.aspx>

## [Creating a user-defined macro](javascript:void(0))

You can create *user-defined macros* to use as variables in project builds. For example, you could create a user-defined macro that provides a value to a custom build step or a custom build tool. A user-defined macro is a name/value pair. In a project file, use the **$(***name***)** notation to access the value.

A user-defined macro is stored in a property sheet. If your project does not already contain a property sheet, you can create one by following the [steps earlier in this article](https://msdn.microsoft.com/en-us/library/669zx6zc.aspx#bkmkToCreatePropertySheet).

### To create a user-defined macro

1. In the **Property Manager** window (on the menu bar, choose **View**, **Property Manager**), open the shortcut menu for a property sheet (its name ends in .user) and then choose Properties. The **Property Pages** dialog box for that property sheet opens.
2. In the left pane of the dialog box, select **User Macros**. In the right pane, choose the **Add Macro** button to open the **Add User Macro** dialog box.
3. In the dialog box, specify a name and value for the macro. Optionally, select the **Set this macro as an environment variable in the build environment**check box.

**Add user-defined macros below**

MY\_USR\_LOCAL\_BIN 🡺 d:/usr/local/bin

MY\_USR\_LOCAL\_INCLUDE 🡺 d:/usr/local/include

MY\_USR\_LOCAL\_LIB 🡺 d:/usr/local/include

MY\_USR\_BIN 🡺 d:/usr/bin

MY\_USR\_INCLUDE 🡺 d:/usr/include

MY\_USR\_LIB 🡺 d:/usr/lib

MATLAB32\_INCLUDE 🡺 C:/Program Files /MATLAB/R2014b/extern/include

MATLAB32\_LIB 🡺 C:/Program Files /MATLAB/R2014b/extern/lib/win32/microsoft

MATLAB64\_INCLUDE 🡺 C:/Program Files/MATLAB/R2014b/extern/include

MATLAB64\_LIB 🡺 C:/Program Files/MATLAB/R2014b/extern/lib/win64/microsoft

CUDA\_INCLUDE 🡺 C:/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v6.5/include

CUDA\_LIB 🡺 C:/Program Files/NVIDIA GPU Computing Toolkit/CUDA/v6.5/lib/Win32

**Usage**

Add $(MY\_USR\_LOCAL\_INCLUDE) to “Additional Include Directories”

Project Property Pages 🡺 Configuration Properties 🡺 C/C++ 🡺 General 🡺 Additional Include Directories

Add $(MY\_USR\_LOCAL\_LIB) to “Additional Library Directories”

Project Property Pages 🡺 Configuration Properties 🡺 Linker 🡺 General 🡺 Additional Library Directories

Caution) Parenthesis $(…), but not brace ${…}, has to be used.