

# Revisiting MinGW (for sdcc build)

I want to build sdcc for NMK322 so that my students can use EXACTLY what I have. So, here we go again:

Installing MinGW:

- Get the 'package manager' from [here](#)
  - version 0.6.3 (beta) at the moment
  - I prefer the [standalone binary](#) (no setup)
- Pick a location and extract the zip file
  - I choose C:\Users\Public\Tool
  - change the folder name so that we have C:\Users\Public\Tool\mingw\bin\mingw-get.exe
- Prepare to use mingw-get binary
  - cd C:\Users\Public\Tool\mingw\var\lib\mingw-get\data\
  - copy defaults.xml profile.xml
- Open a command prompt and update catalogue
  - cd C:\Users\Public\Tool\mingw\bin\
  - mingw-get.exe update
- Get stuffs (compiler with Unix-like environment) without using GUI
  - mingw-get.exe install gcc g++ gmp mpfr mpc msys msys-wget-bin
- To get GUI interface install mingw-get (apparently, we are NOT running mingw-get! 😎)
  - mingw-get.exe install mingw-get
  - now, a window will come up when you run mingw-get

**Note20220808** Current software versions {gcc:9.2.0,binutils:2.32}

Some useful things to do:

- To have git in MinGW shell, install Git-for-Windows at C:\Users\Public\Tool\Git
  - edit C:\Users\Public\Tool\mingw\msys\1.0\etc\profile and insert

```
MY1GITPATH="/c/users/public/tool/git/bin"
[ -d "$MY1GITPATH" ] && PATH="$MY1GITPATH:$PATH"
```

before the block containing an export PATH line(s)

- Get [helper script\(s\)](#) - I wrote that for personal use
  - copy everything (except LICENSE, README.md and msys2.vbs) to C:\Users\Public\Tool\mingw
  - allows environment to be used on shared computer (no need for admin account)
- Running msys.vbs (\*Hint\*: double-click) will install (or remove if already installed) a pop-up context menu entry (MinGW Shell) whenever you right-click on a folder in Windows Explorer
  - edit C:\Users\Public\Tool\mingw\msys\1.0\etc\profile and comment (place '#' at the beginning of) the last line with cd \$HOME command
- If you want to use normal Windows command prompt to run stuff, these two scripts are your friend (you may ignore them otherwise)
  - Running mingw-setup.bat sets up normal command prompt for command-line

## compilation

- place `mingw-term.bat` script (from tools folder) in any folder - when executed, it will open a command prompt (with MinGW path properly configured) in that folder
- Running `mingw-clear.bat` cleans up settings created by `mingw-setup.bat`

## computing, tech

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