

MinGW Installation

Last updated 11/2/22

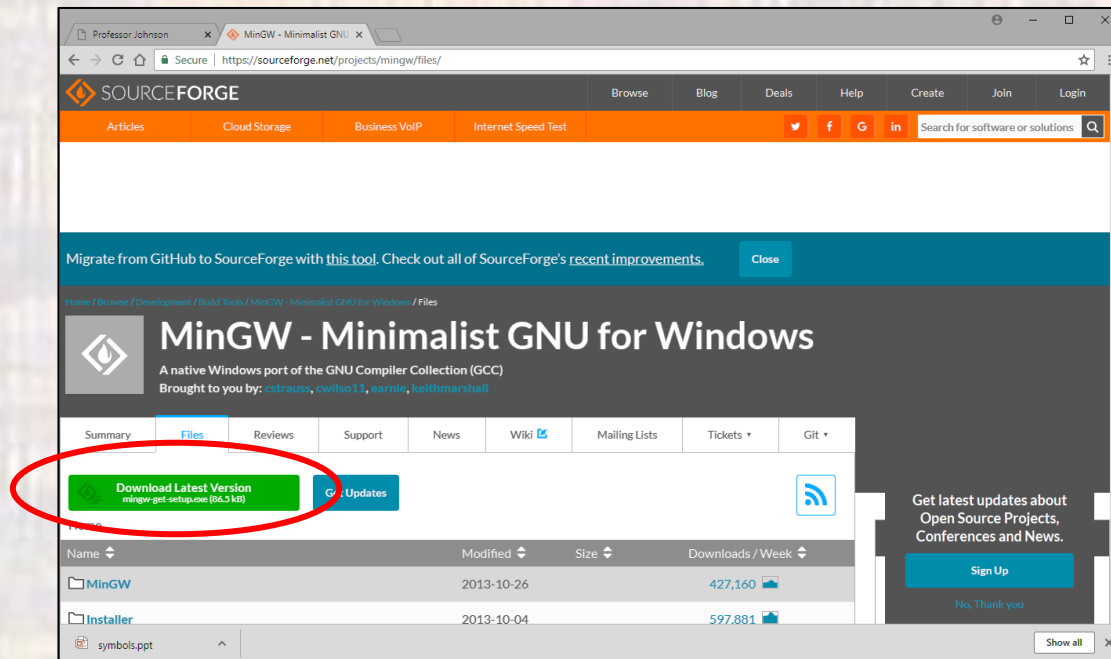
These slides walk through the installation of the MinGW tools

MinGW Installation

- MinGW
 - Open-source port of the GCC (Unix) compiler for Windows
 - Open-Source – free for anyone to use
 - GCC – Gnu Compiler Collection
 - Support for C, C++, Fortran
 - Compilers + libraries
 - The Eclipse software is an IDE
 - Integrated Development Environment
 - Ties tools together
 - Does not have a C/C++ compiler built in
 - We will tell Eclipse to use the MinGW tools
 - Part of the project setup

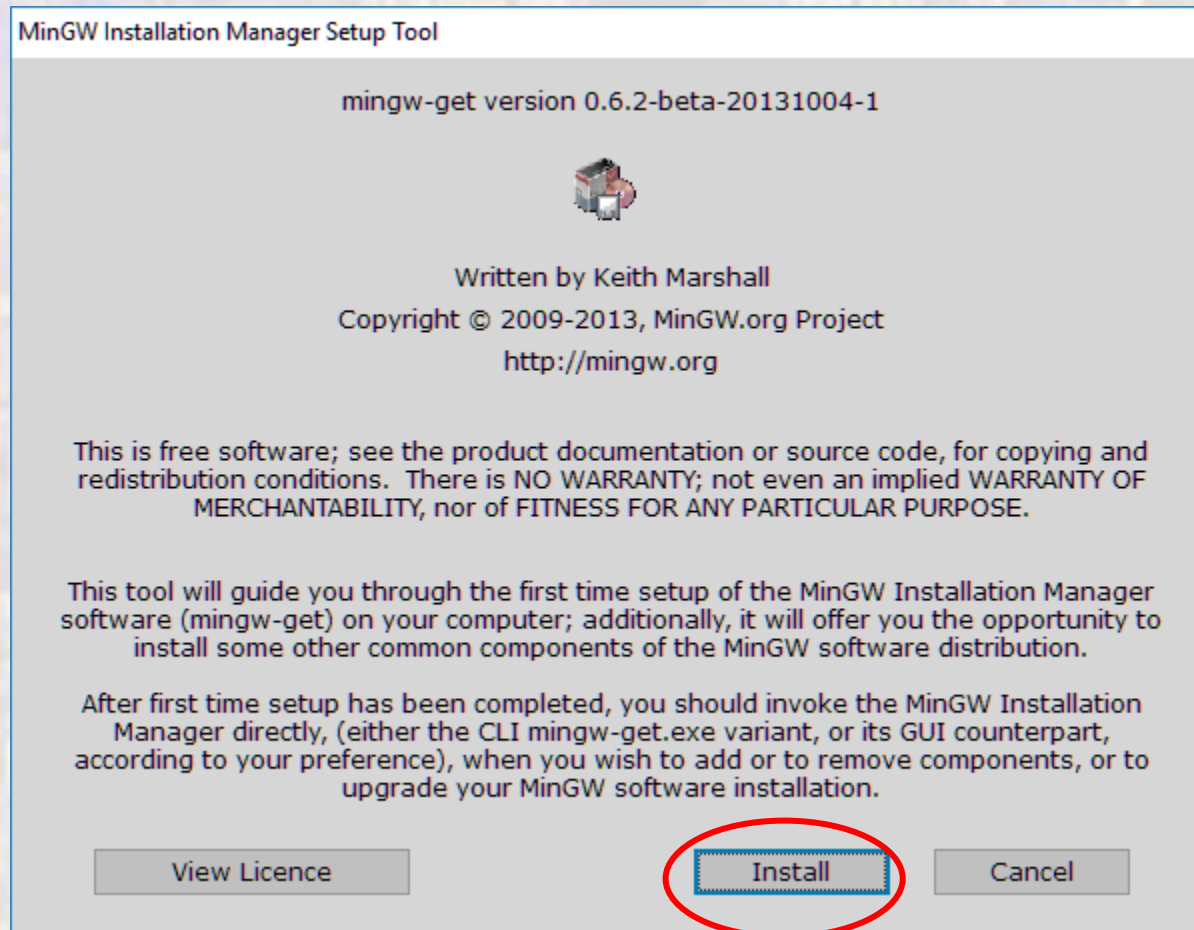
MinGW Installation

- In your browser go to <https://sourceforge.net/projects/mingw/files/>
- **Download** the latest version of the installer
- **Go to** your downloads folder and **Run** the mingw-get-setup.exe file



MinGW Installation

- Select Install
 - Your version will probably be different



MinGW Installation

- Leave the default directory C:\MinGW
- Leave all the boxes as default
- Select Continue

Step 1: Specify Installation Preferences

Installation Directory

C:\MinGW Change

If you elect to change this, you are advised to avoid any choice of directory which includes white space within the absolute representation of its path name.

User Interface Options

Both command line and graphical options are available. The command line interface is always supported; the alternative only if you choose the following option to ...

... also install support for the graphical user interface.

Program shortcuts for launching the graphical user interface should be installed ...

... just for me (the current user), or for all users * ...

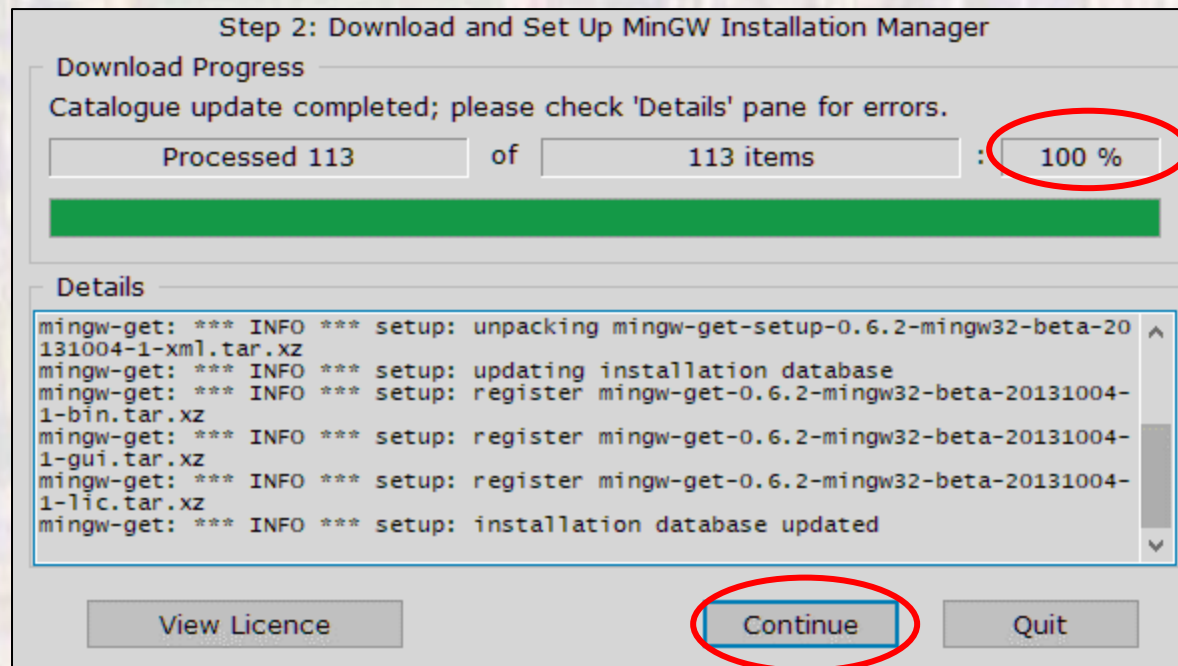
... in the start menu, and/or on the desktop.

* selection of this option requires administrative privilege.

View Licence Continue Cancel

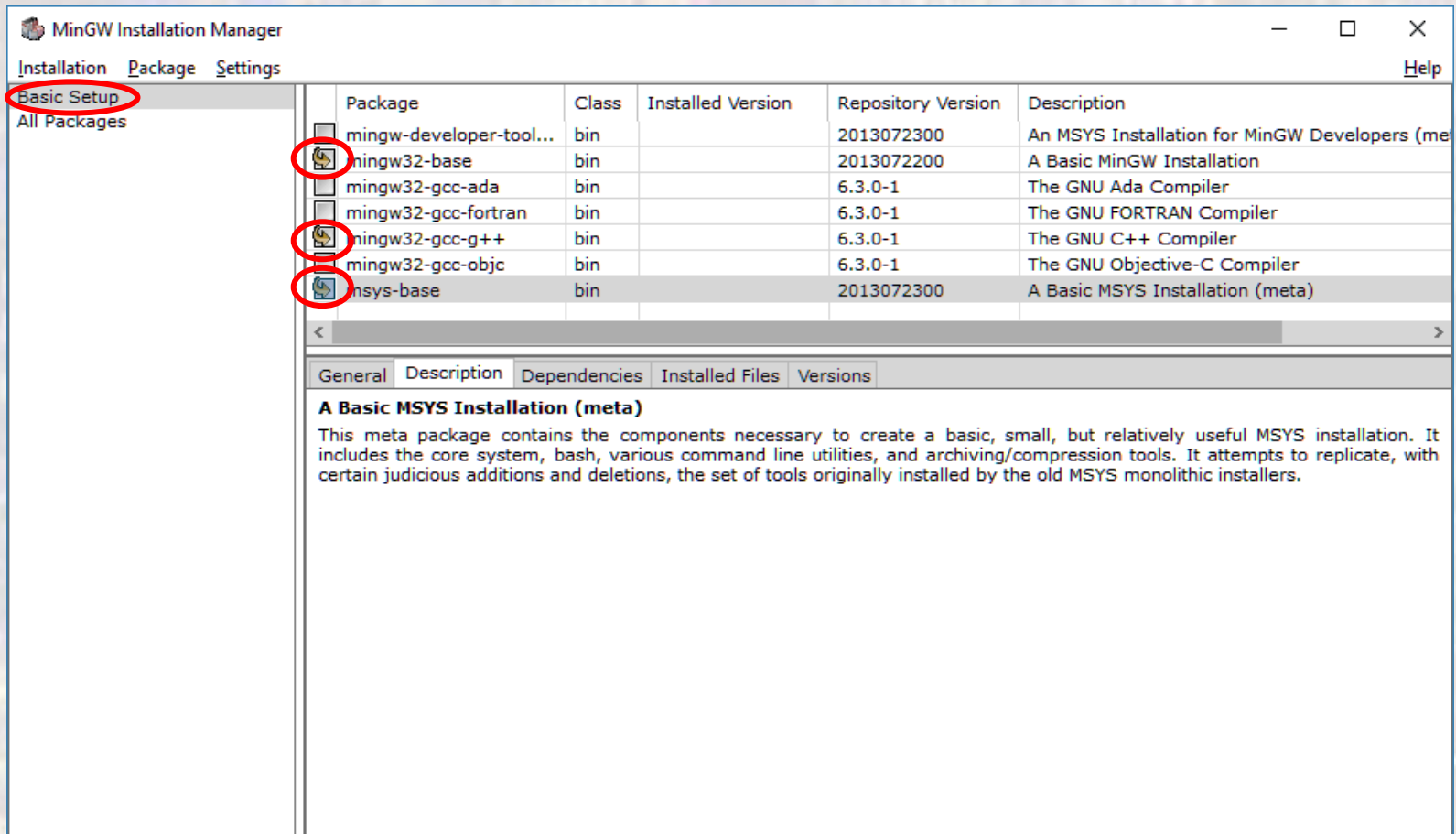
MinGW Installation

- Wait for all files to download
- Select Continue



MinGW Installation

- Click the box and select mark for installation for
 - mingw32-base, mingw32-gcc-g++, and msys-base



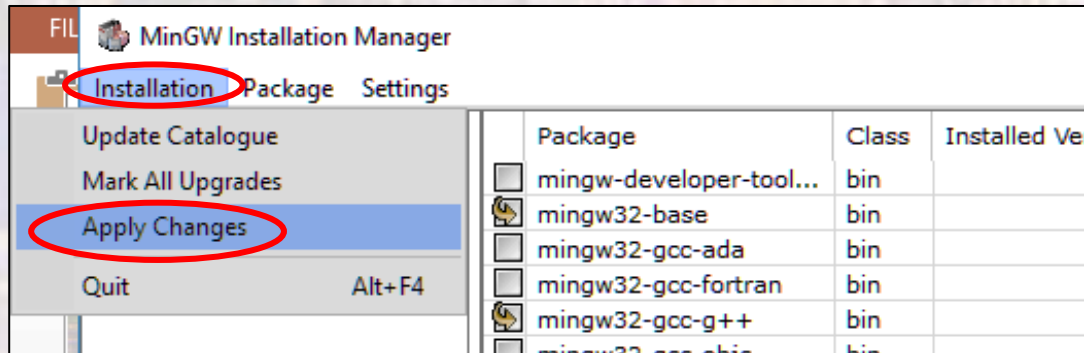
The screenshot shows the MinGW Installation Manager window. The 'Basic Setup' tab is selected in the left sidebar. The main area displays a table of packages with checkboxes in the 'Package' column. Three packages are highlighted with red circles: 'mingw32-base', 'mingw32-gcc-g++', and 'msys-base'. The 'msys-base' package is currently selected, and its details are shown in the bottom pane.

| Package | Class | Installed Version | Repository Version | Description |
|---|-------|-------------------|--------------------|---|
| <input type="checkbox"/> mingw-developer-tool... | bin | | 2013072300 | An MSYS Installation for MinGW Developers (me |
| <input checked="" type="checkbox"/> mingw32-base | bin | | 2013072200 | A Basic MinGW Installation |
| <input type="checkbox"/> mingw32-gcc-ada | bin | | 6.3.0-1 | The GNU Ada Compiler |
| <input type="checkbox"/> mingw32-gcc-fortran | bin | | 6.3.0-1 | The GNU FORTRAN Compiler |
| <input checked="" type="checkbox"/> mingw32-gcc-g++ | bin | | 6.3.0-1 | The GNU C++ Compiler |
| <input type="checkbox"/> mingw32-gcc-objc | bin | | 6.3.0-1 | The GNU Objective-C Compiler |
| <input checked="" type="checkbox"/> msys-base | bin | | 2013072300 | A Basic MSYS Installation (meta) |

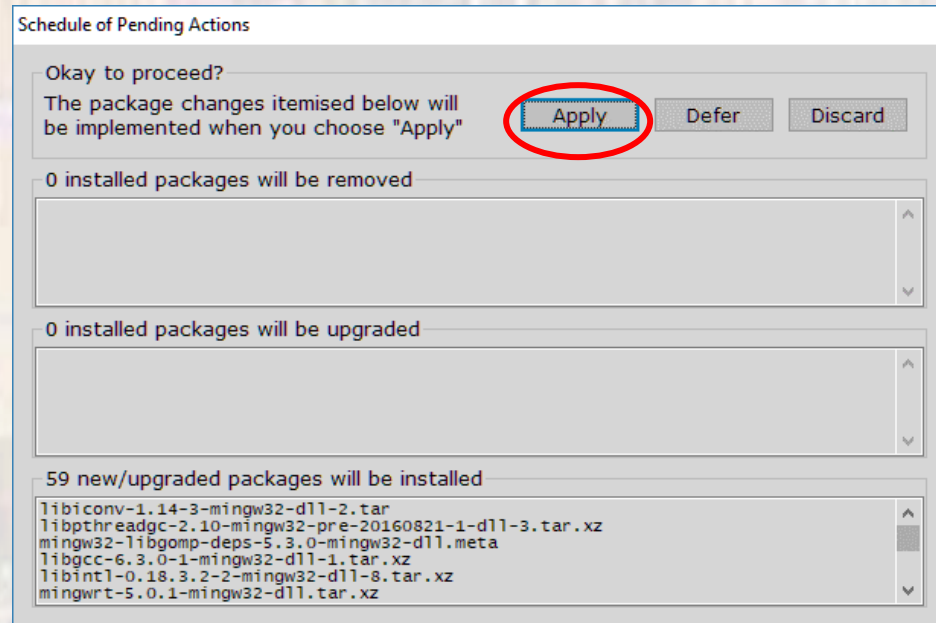
A Basic MSYS Installation (meta)
This meta package contains the components necessary to create a basic, small, but relatively useful MSYS installation. It includes the core system, bash, various command line utilities, and archiving/compression tools. It attempts to replicate, with certain judicious additions and deletions, the set of tools originally installed by the old MSYS monolithic installers.

MinGW Installation

- Select Installation -> Apply Changes



- Select Apply



MinGW Installation

- In Windows File Manager
 - Traverse to C: - verify MinGW is there
 - Push into MinGW – verify the following directories are there

