1 Short installation instructions for Emacs + ESS + R + MinGW

1.1 Install R

- [ ] Download Installer from here: https://cran.r-project.org/bin/windows/base/R-4.1.2-win.exe
- [ ] Run installer (double-click)
- [ ] Accept all standard settings
- [ ] Add shortcut to desktop and quick launch
- [ ] When finished, open Windows search bar and type PATH
- [ ] In the window, click on Environment Variables
- [ ] In the new window, select the row for Path and click Edit
- [ ] In the new window, select New
- [ ] Enter this string in the empty row: C:\Program Files\R\R-4.1.2\bin\x64
- [ ] Open Windows search bar and type CMD
- [ ] Select Pin to taskbar
- [ ] Open Command prompt (Terminal)
- [ ] At the prompt, type R
- [ ] To get out of R, type q() + n
- [ ] To test the R GUI, open the desktop shortcut
- [ ] You can now shut down all open windows

1.2 Install Emacs

- [ ] Download Installer from here: https://vigou3.gitlab.io/emacs-modified-windows/
- [ ] Run installer (double-click)
- [ ] Accept all standard settings
- [ ] Add shortcut to desktop and quick launch
- [ ] When finished, open Windows search bar and type PATH
- [ ] In the window, click on Environment Variables
- [ ] In the new window, select the row for Path and click Edit
- [ ] In the new window, select New
- [ ] Enter this string in the empty row: C:\Program Files\Emacs\x86_64\bin
- [ ] Open Command prompt (Terminal)
- [ ] At the prompt, type emacs -nw
- [ ] In Emacs, type M-x R RET
- [ ] R should open inside Emacs. You can shut Emacs now.
- [ ] To open Emacs from the desktop, double-click on the shortcut
- [ ] In Emacs, type M-x R RET
- [ ] R should open inside Emacs. You can shut Emacs now.

1.3 Install gcc

- [ ] Download the installer[1] from https://sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win32/Personal%20Builds/mingw-builds/installer/mingw-w64-install.exe
- [ ] Run the installer - accept all standard settings
- [ ] When finished, open Windows search bar and type PATH
- [ ] In the window, click on Environment Variables
- [ ] In the new window, select the row for Path and click Edit
- [ ] In the new window, select New

- [ ] Enter this string in the empty row: `c:/Program Files (x86)/mingw-w64/i686-8.1.0-posix-dwarf-rt_v6-rev0/mingw32/bin/gcc.exe`
- [ ] Open `Command prompt`
- [ ] At the prompt, type `gcc --version`
- [ ] Open Emacs and type `M-x eshell`
- [ ] At the prompt, type `gcc --version`
- [ ] You can shut Emacs now.

1.4 Install sqlite

- [ ] Download ZIP file from here: https://www.sqlite.org/2022/sqlite-tools-win32-x86-3370200.zip
- [ ] Extract ZIP file to `Program Files (x86)`
- [ ] When finished, open Windows search bar and type `PATH`
- [ ] In the window, click on `Environment Variables`
- [ ] In the new window, select the row for `Path` and click `Edit`
- [ ] In the new window, select `New`
- [ ] Enter this string in the empty row: `C:\Program Files (x86)\sqlite-tools-win32-x86-3360000`
- [ ] Open `Command prompt` (Terminal)
- [ ] At the prompt, type `sqlite3`
- [ ] To get out of sqlite, type `.q RET`

Footnotes:

[1] A more complicated setup uses this setup program - you end up in an installer manager where you have to select gcc and g++, but then everything works like in the rest of the description.

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