

SML/NJ Installation

Directions first depend on your operating system, but then see “All Systems: Check your SML Installation” below.

Windows:

Download and run the smlnj.msi installer available at <http://www.smlnj.org/dist/working/110.81/>. This will add an item for SML of New Jersey to your Start menu and add a command sml that you can use at the command line.

Mac OS:

Download the installer available at <http://www.smlnj.org/dist/working/110.81/>. Notice there are two different .dmg files, so be sure to get the correct one for your operating-system version. Open the disk image file .dmg and run the installer.

Once the installation is complete, use a text editor to edit the file .bash_profile in your home folder. If the file does not already exist, create it. Add the following line to make sure SML is visible on the command line (if you chose a custom install location, change /usr/local/smlnj-110.81 to whatever that location is):

```
export PATH="$PATH:/usr/local/smlnj-110.81/bin"
```

This tells your shell to add the SML/NJ directory to the paths it searches to find programs. (If you are not using the bash shell, which Mac OS X has used by default since 10.3, the syntax will be different.)

Finally, you will need to run your .bash_profile to deploy the changes you have made into your environment for the present session. To do this, run:

```
source .bash_profile
```

You need to do this only once — afterwards, each new terminal that you open will automatically run the .bash_profile for you.

Linux:

If your package manager has a package for SML/NJ, install it. Otherwise, follow the “Unix” instructions at <http://www.smlnj.org/dist/working/110.81/>.

All Systems: Check your SML Installation

1. Open a terminal window and type sml followed by Enter/Return. To open a terminal window:
 - Windows: Start → All Programs → Accessories → Command Prompt, or Windows 7 just use the Start Menu to search for the cmd.exe program and run it.
 - Mac OS: Open Applications/Utilities/Terminal.app.
 - Linux: Various ways: any shell should be fine

2. You should see a prompt that looks like this:

```
Standard ML of New Jersey v110.81 [built: ...]
```

3. Make sure everything is working by typing a very simple SML program at the prompt:

```
1+1;
```

4. Hit Enter/Return. In response, the SML interpreter should print something like this:

```
val it = 2 : int
```

5. To exit the interpreter, type Control-Z and then Return on Windows and Control-D on Mac or Linux.