

# Installing Locally

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When installing packages locally, you might have to set up some paths. It's easiest to just add them to your `~/.profile` file.

## `.profile`

```
1 # set PATH so it includes user's private bin if it exists
2 if [ -d "$HOME/bin" ] ; then
3     PATH="$HOME/bin:$PATH"
4 fi
5 if [ -d "$HOME/.local/bin" ] ; then
6     PATH="$HOME/.local/bin:$PATH"
7 fi
8 export PATH
9
10 # set MANPATH so it includes user's private man if it exists
11 if [ -d "$HOME/.local/man" ] ; then
12     MANPATH="$HOME/.local/man:"
13 fi
14 if [ -d "$HOME/.local/share/man" ] ; then
15     MANPATH="$HOME/.local/share/man:$MANPATH"
16 fi
17 export MANPATH
18
19 # set PKG_CONFIG_PATH so it includes user's private pkgconfig if it exists
20 if [ -d "$HOME/.local/lib/pkgconfig" ] ; then
21     PKG_CONFIG_PATH="$HOME/.local/lib/pkgconfig:$PKG_CONFIG_PATH"
22 fi
23 if [ -d "$HOME/.local/share/pkgconfig" ] ; then
24     PKG_CONFIG_PATH="$HOME/.local/share/pkgconfig:$PKG_CONFIG_PATH"
25 fi
26 export PKG_CONFIG_PATH
27
28 # set CMAKE_PREFIX_PATH so it includes user's private prefix if it exists
29 if [ -d "$HOME/.local" ] ; then
30     CMAKE_PREFIX_PATH="$HOME/.local:$CMAKE_PREFIX_PATH"
31 fi
32 export CMAKE_PREFIX_PATH
```

The `PATH` variable specifies the search path where your system looks for executables and binaries.

<https://help.ubuntu.com/community/EnvironmentVariables>

The `MANPATH` variables specifies the directories that contain documentation for the `man` command.

<http://manpages.ubuntu.com/manpages/focal/en/man1/manpath.1.html>

The `PKG_CONFIG_PATH` variable allows the `pkg-config` tool to find locally installed libraries.

<http://manpages.ubuntu.com/manpages/focal/en/man1/pkg-config.1.html>

The `CMAKE_PREFIX_PATH` variable allows CMake to find locally installed libraries and tools.

[https://cmake.org/cmake/help/latest/variable/CMAKE\\_PREFIX\\_PATH.html](https://cmake.org/cmake/help/latest/variable/CMAKE_PREFIX_PATH.html)