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`

```
# set PATH so it includes user's private bin if it exists
if [ -d "$HOME/bin" ] ; then
    PATH="$HOME/bin:$PATH"
fi
if [ -d "$HOME/.local/bin" ] ; then
    PATH="$HOME/.local/bin:$PATH"
fi
export PATH

# set MANPATH so it includes user's private man if it exists
if [ -d "$HOME/.local/man" ] ; then
    MANPATH="$HOME/.local/man:"
fi
if [ -d "$HOME/.local/share/man" ] ; then
    MANPATH="$HOME/.local/share/man:$MANPATH"
fi
export MANPATH

# set PKG_CONFIG_PATH so it includes user's private pkgconfig if it exists
if [ -d "$HOME/.local/lib/pkgconfig" ] ; then
    PKG_CONFIG_PATH="$HOME/.local/lib/pkgconfig:$PKG_CONFIG_PATH"
fi
if [ -d "$HOME/.local/share/pkgconfig" ] ; then
    PKG_CONFIG_PATH="$HOME/.local/share/pkgconfig:$PKG_CONFIG_PATH"
fi
export PKG_CONFIG_PATH

# set CMAKE_PREFIX_PATH so it includes user's private prefix if it exists
if [ -d "$HOME/.local" ] ; then
    CMAKE_PREFIX_PATH="$HOME/.local:$CMAKE_PREFIX_PATH"
fi
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