1. Installing GNU R on Debian:

Step 1: *Installing R for Mac*

Please follow the instructions provided here to install the R software on Debian.

If GNU R is installed, the following command in the Terminal App should display the R version that had been installed:

```
R --version
R version 4.1.0 (2021-05-18) -- "Camp Pontanezen"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin17.0 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under the terms of the
GNU General Public License versions 2 or 3.
For more information about these matters see
https://www.gnu.org/licenses/.
```

2. Installing the source package version of sybilSBML on Debian 10:

The procedure of installing sybilSBML from source code involves the installation of the libSBML package and the installation of the sybilSBML R source package. Please make sure, that you adjust individually presented paths according to the situation on your system.

In order to be able to build or install source packages, you might need to install some prerequisite packages on your specific installation like liblzma-dev, libblas-dev, gfortran, libbz2-dev, libreadline-dev or texlive. Please check out the CRAN information about installing packages from source code and any respective error messages during the configuration procedure.

Step 1: *Install libSBML from the source distribution of libSBML*

The following description is based on the information found here in section 3. The libSBML software is installed via the available Debian package here. In this documentation, `libSBML-5.219.0-Linux-x64.deb` was used.

Download the package from the libSBML download page. Then install it with the following command (Adjust the path according to the situation on your system):

```
sudo dpkg -i /home/mayo/libSBML-5.19.0-Linux-x64.deb
```

Step 2: *Add installation directory to the shared library directories*

On our system, the package was default installed into /usr/lib64. The dollowing steps are necessary for the shared library loader to be able to find the libSBML shared libraries at runtime.

Create a file in `/etc/ld.so.conf.d` with the name `sbml.conf` and open it in an editor. In this description, the editor nano was used.

```
sudo nano /etc/ld.so.conf.d/sbml.conf
```

Add the following first line to the file and save it:

/usr/lib64

Now call the command to apply changes:

```
sudo ldconfig
```

Step 3: *Installing sybil package*

Start the R environment and type the following command:
```
install.packages("sybil")
```

Step 4: *Installing sybilSBML*

Download the source code package version [here](). In the Terminal App, type the following command (adjust example file path given here to the correct location of the `.tar.gz` file on your system):

```
R CMD install /home/mayo/sybilSBML_3.1.3.tar.gz
```

Step 5: *Loading libraries*

You should now be able to load the libraries by starting R and typing the following commands:

```
library(sybil)
library(sybilSBML)
```