

How to setup and run the Boxmodel R-shiny app on your local computer

1. Download the Boxmodel to your computer:
<https://1drv.ms/u/s!AnZSDMNwdkDMgbZwWQCrogJoSqmiyA?e=i9bhSK>
password: DynamicsII2020
2. Install R if necessary
3. Start R in the folder that contains the Boxmodel folder (not within the boxmodel folder where the various .r and .R files are located!)
4. Install the shiny package if necessary by executing within R the following command (and install to a personal library if asked by answering “y”):

```
install.packages("shiny")
```

The following output will appear (paths will differ on your computer):

```
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

```
> library(shiny)  
Error in library(shiny) : there is no package called 'shiny'  
> install.packages("shiny")  
Installing package into '/usr/local/lib/R/site-library'  
(as 'lib' is unspecified)  
Warning in install.packages("shiny") :  
  'lib = "/usr/local/lib/R/site-library"' is not writable  
Would you like to use a personal library instead? (y/n) y  
..... (wait some time)  
installing to  
/scratch/users/stepanek/R/x86_64-pc-linux-gnu-library/3.4/httpuv/libs  
** R  
** demo  
** preparing package for lazy loading  
** help  
*** installing help indices  
** building package indices  
** testing if installed package can be loaded  
* DONE (httpuv)  
* installing *source* package 'shiny' ...  
** package 'shiny' successfully unpacked and MD5 sums checked  
** R  
** inst  
** preparing package for lazy loading  
** help  
*** installing help indices  
** building package indices  
** testing if installed package can be loaded  
* DONE (shiny)
```

```
The downloaded source packages are in  
  '/tmp/RtmpLXtAjn/downloaded_packages'
```

5. load the R-library shiny:

```
library(shiny)
```
6. start the boxmodel shiny app from within R by employing the following command:

```
runApp("Boxmodel")
```

7. A browser window will open where you can run the boxmodel interactively. The R-Shell will be blocked during this time. If you want to quit the application, close the browser tab / browser window; hit Ctrl+C from within the R command line to get back to the R command prompt.