```
> library(usethis)
> library(devtools)
> install("COVIDreportwriter", dependencies = TRUE)
These packages have more recent versions available.
It is recommended to update all of them.
Which would you like to update?

1: All
2: CRAN packages only
3: None
4: rlang  (0.4.5 -> 0.4.6) [CRAN]
5: zoo    (1.8-7 -> 1.8-8) [CRAN]
6: mnormt (1.5-6 -> 1.5-7) [CRAN]
7: modelr (0.1.6 -> 0.1.7) [CRAN]

Enter one or more numbers, or an empty line to skip updates:
library(COVIDreportwriter)
Enter one or more numbers, or an empty line to skip updates:
imported.data <- import.and.process.data("data.csv", "data_dict.csv")
Enter one or more numbers, or an empty line to skip updates:
generate.report(imported.data, "report.pdf", "My site")
Enter one or more numbers, or an empty line to skip updates:
1
rlang  (0.4.5 -> 0.4.6) [CRAN]
zoo    (1.8-7 -> 1.8-8) [CRAN]
mnormt (1.5-6 -> 1.5-7) [CRAN]
modelr (0.1.6 -> 0.1.7) [CRAN]
Installing 4 packages: rlang, zoo, mnormt, modelr

  There are binary versions available but the source versions are later:
     binary source needs_compilation
rlang   0.4.5  0.4.6          TRUE
zoo     1.8-7  1.8-8          TRUE
mnormt  1.5-6  1.5-7           TRUE
modelr  0.1.6  0.1.7          FALSE

Do you want to install from sources the packages which need compilation? (Yes/no/
cancel) Yes
installing the source packages 'rlang', 'zoo', 'mnormt', 'modelr'

trying URL 'https://lib.ugent.be/CRAN/src/contrib/rlang_0.4.6.tar.gz'
Content type 'application/x-gzip' length 835198 bytes (815 KB)
==================================================
downloaded 815 KB

trying URL 'https://lib.ugent.be/CRAN/src/contrib/zoo_1.8-8.tar.gz'
Content type 'application/x-gzip' length 849487 bytes (829 KB)
```

```
==================================================
downloaded 829 KB

trying URL 'https://lib.ugent.be/CRAN/src/contrib/mnormt_1.5-7.tar.gz'
Content type 'application/x-gzip' length 39718 bytes (38 KB)
==================================================
downloaded 38 KB

trying URL 'https://lib.ugent.be/CRAN/src/contrib/modelr_0.1.7.tar.gz'
Content type 'application/x-gzip' length 121218 bytes (118 KB)
==================================================
downloaded 118 KB

* installing *source* package 'rlang' ...
** package 'rlang' successfully unpacked and MD5 sums checked
** using staged installation
** libs
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I./lib/  -I/usr/local/include   -fPIC  -Wall -g -O2  -c capture.c -o
capture.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I./lib/  -I/usr/local/include   -fPIC  -Wall -g -O2  -c export.c -o
export.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I./lib/  -I/usr/local/include   -fPIC  -Wall -g -O2  -c internal.c -o
internal.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
```

SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I./lib/ -I/usr/local/include   -fPIC -Wall -g -O2 -c lib.c -o lib.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I./lib/ -I/usr/local/include   -fPIC -Wall -g -O2 -c version.c -o
version.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -dynamiclib -Wl,-headerpad_max_install_names -
undefined dynamic_lookup -single_module -multiply_defined suppress -L/Library/
Frameworks/R.framework/Resources/lib -L/usr/local/lib -o rlang.so capture.o export.o
internal.o lib.o version.o -F/Library/Frameworks/R.framework/.. -framework R -Wl,-
framework -Wl,CoreFoundation
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
installing to /Library/Frameworks/R.framework/Versions/4.0/Resources/library/00LOCK-
rlang/00new/rlang/libs
** R
** inst
** tests
** byte-compile and prepare package for lazy loading
** help
*** installing help indices
*** copying figures
** building package indices

** testing if installed package can be loaded from temporary location
** checking absolute paths in shared objects and dynamic libraries
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
** testing if installed package can be loaded from final location
** testing if installed package keeps a record of temporary installation path
* DONE (rlang)
* installing *source* package 'zoo' ...
** package 'zoo' successfully unpacked and MD5 sums checked

** using staged installation
** libs
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I../inst/include -I/usr/local/include -fPIC -Wall -g -O2 -c
coredata.c -o coredata.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I../inst/include -I/usr/local/include -fPIC -Wall -g -O2 -c init.c -o
init.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -I"/Library/Frameworks/R.framework/Resources/
include" -DNDEBUG -I../inst/include -I/usr/local/include -fPIC -Wall -g -O2 -c lag.c -o
lag.o
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang -mmacosx-version-min=10.13 -dynamiclib -Wl,-headerpad_max_install_names -
undefined dynamic_lookup -single_module -multiply_defined suppress -L/Library/
Frameworks/R.framework/Resources/lib -L/usr/local/lib -o zoo.so coredata.o init.o lag.o
-F/Library/Frameworks/R.framework/.. -framework R -Wl,-framework -
Wl,CoreFoundation
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
clang: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/

SDKs/MacOSX10.12.sdk'
installing to /Library/Frameworks/R.framework/Versions/4.0/Resources/library/00LOCK-zoo/00new/zoo/libs
** R
** demo
** inst
** tests
** byte-compile and prepare package for lazy loading
** help
*** installing help indices
** building package indices
** installing vignettes
** testing if installed package can be loaded from temporary location
** checking absolute paths in shared objects and dynamic libraries
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/

SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
otool: error: unable to read SDK settings for '/Library/Developer/CommandLineTools/
SDKs/MacOSX10.12.sdk'
** testing if installed package can be loaded from final location
** testing if installed package keeps a record of temporary installation path
* DONE (zoo)
* installing *source* package 'mnormt' ...
** package 'mnormt' successfully unpacked and MD5 sums checked
** using staged installation
** libs
gfortran -mmacosx-version-min=10.13 -fno-optimize-sibling-calls -fPIC -Wall -g -O2 -c
biv-nt.f -o biv-nt.o
make: gfortran: No such file or directory
make: *** [biv-nt.o] Error 1
ERROR: compilation failed for package 'mnormt'
* removing '/Library/Frameworks/R.framework/Versions/4.0/Resources/library/mnormt'
* restoring previous '/Library/Frameworks/R.framework/Versions/4.0/Resources/library/
mnormt'
Error in i.p(...) :
  (converted from warning) installation of package 'mnormt' had non-zero exit status
> library(COVIDreportwriter)
> imported.data <- import.and.process.data("data.csv", "data_dict.csv")
There were 27 warnings (use warnings() to see them)
> generate.report(imported.data, "report.pdf", "My site")

processing file: COV-report.Rmd
  |.. |
2%
  |..... |
4%
  |....... |
5%
  |......... |
7%
label: unnamed-chunk-1 (with options)
List of 1
 $ child: symbol summary.file

processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/summary.Rmd

```
|...............................................................................................................................|
100%
  inline R code fragments


|...........                                                                                  |
9%
|..............                                                                               |
11%
|.................                                                                            |
12%
|..................                                                                           |
14%
label: symptomcombos (with options)
List of 4
 $ echo      : logi FALSE
 $ out.width : chr "100%"
 $ fig.height: num 5
 $ message   : logi FALSE


|....................                                                                         |
16%
label: symptomcombos2 (with options)
List of 4
 $ echo      : logi FALSE
 $ out.width : chr "100%"
 $ fig.height: num 3
 $ message   : logi FALSE


|.......................                                                                      |
18%
label: symptomcombos3 (with options)
List of 4
 $ echo      : logi FALSE
 $ out.width : chr "100%"
 $ fig.height: num 5
 $ message   : logi FALSE


|.........................                                                                    |
19%
|...........................                                                                  |
21%
label: comorbcombos (with options)
List of 4
 $ echo      : logi FALSE
 $ out.width : chr "100%"
 $ fig.height: num 5
```

```
 $ message   : logi FALSE


  |..............................                                                    |
23%
label: comorbcombos2 (with options)
List of 4
 $ echo      : logi FALSE
 $ out.width : chr "100%"
 $ fig.height: num 3
 $ message   : logi FALSE


  |...............................                                                   |
25%
  |.................................                                                 |
26%
  |...................................                                               |
28%
  |......................................                                            |
30%
  |........................................                                          |
32%
  |..........................................                                        |
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39%
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40%
  |....................................................                              |
42%
  |......................................................                            |
44%
  |........................................................                          |
46%
  |..........................................................                        |
47%
label: timeline (with options)
List of 1
 $ out.width: chr "100%"


  |.............................................................                     |
49%
  |...............................................................                   |
51%
```

```
  |.........................................................             |
53%
  |...........................................................           |
54%
label: treatment1 (with options)
List of 1
 $ echo: logi FALSE


  |.............................................................         |
56%
  |...............................................................       |
58%
label: treatment2 (with options)
List of 1
 $ echo: logi FALSE


  |.................................................................     |
60%
  |..................................................................    |
61%
label: treatmenticu (with options)
List of 1
 $ echo: logi FALSE


  |...................................................................   |
63%
  |.....................................................................  |
65%
label: treatment2icu (with options)
List of 1
 $ echo: logi FALSE


  |.......................................................................|
67%
  |........................................................................|
68%
  |.........................................................................|
70%
  |..........................................................................|
72%
label: onsetadmission (with options)
List of 1
 $ out.width: chr "80%"


  |...........................................................................|
74%
  |............................................................................|
```

```
75%
label: admoutcome (with options)
List of 1
 $ out.width: chr "80%"


  |..........................................................................                    |
77%
  |...........................................................................                   |
79%
label: outcomelines
  |............................................................................                  |
81%
  |.............................................................................                 |
82%
label: unnamed-chunk-2 (with options)
List of 1
 $ child: symbol background.file



processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/background.Rmd
  |................................................................................................|
100%
  ordinary text without R code



  |.............................................................................                 |
84%
  |..............................................................................                |
86%
label: unnamed-chunk-3 (with options)
List of 1
 $ child: symbol methods.file



processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/methods.Rmd
  |................................................................................................|
100%
  inline R code fragments



  |...............................................................................               |
88%
  |................................................................................              |
```

89%
label: unnamed-chunk-4 (with options)
List of 1
 $ child: symbol caveats.file

processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/caveats.Rmd
  |...|
100%
  ordinary text without R code

  |... |
91%
  |... |
93%
label: unnamed-chunk-5 (with options)
List of 1
 $ child: symbol summtables.file

processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/summarytables.Rmd
  |...|
100%
  inline R code fragments

  |.. |
95%
  |... |
96%
label: unnamed-chunk-6 (with options)
List of 1
 $ child: symbol team.file

processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/teammembers.Rmd
  |...|
100%
  ordinary text without R code

```
  |.......................................................................................................  |
98%
  |.......................................................................................................|
100%
label: unnamed-chunk-7 (with options)
List of 1
 $ child: symbol references.file




processing file: /Library/Frameworks/R.framework/Versions/4.0/Resources/library/
COVIDreportwriter/rmd/references.Rmd
  |.......................................................................................................|
100%
  ordinary text without R code




output file: COV-report.knit.md

/usr/local/bin/pandoc +RTS -K512m -RTS COV-report.utf8.md --to latex --from
markdown+autolink_bare_uris+tex_math_single_backslash --output report.tex --self-
contained --highlight-style tango --pdf-engine pdflatex --variable graphics --lua-filter /
Library/Frameworks/R.framework/Versions/4.0/Resources/library/rmarkdown/rmd/lua/
pagebreak.lua --lua-filter /Library/Frameworks/R.framework/Versions/4.0/Resources/
library/rmarkdown/rmd/lua/latex-div.lua --variable 'geometry:margin=1in'
! /bin/sh: pdflatex: command not found

Error: LaTeX failed to compile report.tex. See https://yihui.org/tinytex/r/#debugging for
debugging tips. See report.log for more info.
In addition: Warning messages:
1: Removed 12 row(s) containing missing values (geom_path).
2: Removed 189 row(s) containing missing values (geom_path).
3: In system2(..., stdout = if (use_file_stdout()) f1 else FALSE, stderr = f2) :
  error in running command
>
```