Data Exploration and Preparation

Florian J. Auer¹

¹IT-Infrastructure for Translational Medical Research, University of Augsburg

03/30/2022

Contents

1	ndexr	r	. 2
2	RCX		. 2
	2.1	From Bioconductor:	. 2
	2.2	From github using remotes:	. 2
	2.3	From github using devtools:	. 2
3	Sessi	ion info	. 3

1 ndexr

Installation via Bioconductor:

```
if (!requireNamespace("BiocManager", quietly = TRUE)) install.packages("BiocManager")
BiocManager::install("ndexr")
library(ndexr)
```

2 RCX

For installing packages from github the devtools package is the most common approach. However, it requires XML libraries installed on the system which can cause problems while installation due to unmet dependencies. The remotes package covers the functionality to download and install R packages stored in 'GitHub', 'GitLab', 'Bitbucket', 'Bioconductor', or plain 'subversion' or 'git' repositories without depending on XML libraries. If devtools is already installed, of course it can be used, otherwise it is recommended to use the lightweight remotes package.

2.1 From Bioconductor:

```
if (!"BiocManager" %in% installed.packages()) {
    install.packages("BiocManager")
}
if (!"RCX" %in% installed.packages()) {
    BiocManager::install("RCX")
}
library(RCX)
```

2.2 From github using remotes:

```
if (!"remotes" %in% installed.packages()) {
    install.packages("remotes")
}
if (!"RCX" %in% installed.packages()) {
    remotes::install_github("frankkramer-lab/RCX")
}
library(RCX)
```

2.3 From github using devtools:

```
if (!"devtools" %in% installed.packages()) {
    install.packages("devtools")
}
if (!"RCX" %in% installed.packages()) {
    devtools::install_github("frankkramer-lab/RCX")
```

Data Exploration and Preparation

```
}
library(RCX)
```

3 Session info

```
sessionInfo()
## R version 4.0.3 (2020-10-10)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Ubuntu 20.04.3 LTS
## Matrix products: default
## BLAS: /usr/lib/x86_64-linux-gnu/blas/libblas.so.3.9.0
## LAPACK: /usr/lib/x86_64-linux-gnu/lapack/liblapack.so.3.9.0
##
## locale:
## [1] LC_CTYPE=en_US.UTF-8
                                  LC_NUMERIC=C
                                                             LC_TIME=de_DE.UTF-8
                                                                                        LC_COLLATE=en_US.UT
## [6] LC_MESSAGES=en_US.UTF-8
                                  LC_PAPER=de_DE.UTF-8
                                                             LC_NAME=C
                                                                                        LC_ADDRESS=C
## [11] LC_MEASUREMENT=de_DE.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats
               graphics grDevices utils
                                              datasets methods
                                                                  base
## other attached packages:
## [1] XML_3.99-0.8
                           httr_1.4.2
                                               RJSONIO_1.3-1.6
                                                                   pacman_0.5.1
                                                                                       devtools_2.4.2
## [8] timeDate_3043.102
                           pander_0.6.4
                                               xtable_1.8-4
                                                                   stringr_1.4.0
                                                                                       BiocStyle_2.18.1
## [15] igraph_1.2.7
                            gplots_3.1.1
                                                                   RColorBrewer_1.1-2 survival_3.2-7
                                               dplyr_1.0.7
## loaded via a namespace (and not attached):
## [1] pkgload_1.2.3
                           jsonlite_1.7.2
                                               splines_4.0.3
                                                                   gtools_3.9.2
                                                                                       assertthat_0.2.1
## [8] stats4_4.0.3
                           remotes_2.4.1
                                               yaml_2.2.1
                                                                   sessioninfo_1.1.1
                                                                                       pillar_1.6.4
                                                                                       pkgconfig_2.0.3
## [15] digest_0.6.28
                           htmltools_0.5.2
                                               Matrix_1.2-18
                                                                   plyr_1.8.6
## [22] webshot_0.5.2
                           processx_3.5.2
                                               tibble_3.1.5
                                                                   generics_0.1.1
                                                                                       ellipsis_0.3.2
## [29] cachem_1.0.6
                           BiocGenerics_0.36.1 cli_3.0.1
                                                                   mime_0.12
                                                                                       magrittr_2.0.1
## [36] memoise_2.0.0
                           evaluate_0.14
                                               fs_1.5.0
                                                                   fansi_0.5.0
                                                                                       pkgbuild_1.2.0
## [43] tools_4.0.3
                            formatR_1.11
                                               lifecycle_1.0.1
                                                                   callr_3.7.0
                                                                                       compiler_4.0.3
## [50] tinytex_0.34
                            rlang_0.4.12
                                               grid_4.0.3
                                                                   htmlwidgets_1.5.4
                                                                                       crosstalk_1.1.1
## [57] testthat_3.1.0
                            DBI_1.1.1
                                               curl_4.3.2
                                                                   markdown_1.1
                                                                                       R6_2.5.1
## [64] utf8_1.2.2
                            rprojroot_2.0.2
                                               desc_1.4.0
                                                                   KernSmooth_2.23-17 stringi_1.7.5
## [71] vctrs_0.3.8
                            tidyselect_1.1.1
                                               xfun_0.27
```