

# Installation

The first step is to install package `afedR` with `devtools`:

```
devtools::install_github('msperlin/adfeR')
```

Another requirement is a working Latex instalation. For that, use `tinytex`:

```
tinytex::install_tinytex()
```

## Compiling Exercises

### How it works?

All book exercises in the `exams` format: each exercise is a `.Rmd` file containing code, exercise text and solution. The files themselves can be found in the installation directory of the package:

```
eoc_dir <- afedR::get_EOC_dir()

eoc_chapters <- fs::dir_ls(eoc_dir)
basename(eoc_chapters)
## [1] "Chapter01-Introduction"          "Chapter02-Basic-Operations"
## [3] "Chapter03-Research-Scripts"     "Chapter04-Import-Local"
## [5] "Chapter05-Import-Internet"     "Chapter06-Dataframes-and-Others"
## [7] "Chapter07-Basic-Classes"        "Chapter08-Programming"
## [9] "Chapter09-Cleaning-and-Structuring" "Chapter10-Figures"
## [11] "Chapter11-FinEcon"             "Chapter12-Reporting"
## [13] "Chapter13-Optimizing-Code"
```

Each folder will have several exercises. Let's try one out:

```
eoc_files <- fs::dir_ls(eoc_chapters[1])
basename(eoc_files)
## [1] "afedR_Chap-01_01_SPLUS.Rmd"
## [2] "afedR_Chap-01_02_Authors-R.Rmd"
## [3] "afedR_Chap-01_03_About-R.Rmd"
## [4] "afedR_Chap-01_04_name-R.Rmd"
## [5] "afedR_Chap-01_05_about-R.Rmd"
## [6] "afedR_Chap-01_06_Tecnology-R.Rmd"
## [7] "afedR_Chap-01_07_rtools.Rmd"
## [8] "afedR_Chap-01_08_Groups.Rmd"
## [9] "afedR_Chap-01_09_RBloggers.Rmd"
## [10] "afedR_Chap-01_10_Infrastructure-TI.Rmd"
```

We can also read one of the files to show the strucuture of the exercise in code and text:

```
readLines(eoc_files[1])
## [1] "````{r datageneration, echo = FALSE, results = \"hide\"}"
## [2] "my_answers <- c('S', "
## [3] "                'C++', "
```

```
## [4] "          'Python',"
## [5] "          'Julia',"
## [6] "          'Javascript')"
## [7] ""
## [8] "#check_answers(my_answers)"
## [9] "````"
## [10] ""
## [11] "Question"
## [12] "======"
## [13] ""
## [14] "The R language was developed based on what other programming
language?"
## [15] ""
## [16] "```${r questionlist, echo = FALSE, results = \"asis\"}"
## [17] "exams::answerlist(my_answers, markup = \"markdown\")"
## [18] "````"
## [19] ""
## [20] "Solution"
## [21] "======"
## [22] ""
## [23] "Straight from the book, section What is R: \"R is a modern
version of S, a programming language originally created in Bell
Laboratories (formerly AT&T, now Lucent Technologies).\"
## [24] ""
## [25] "Meta-information"
## [26] "======"
## [27] "extype: schoice"
## [28] "exsolution: `r mchoice2string(c(TRUE, FALSE, FALSE, FALSE,
FALSE), single = TRUE)`"
## [29] "exname: \"S PLUS\""
## [30] "exshuffle: TRUE"
## [31] ""
```

Basically, we define all sections of a question – text, solution, alternatives – using a .Rmd template. Again, you can find more details about using package `exams` in its own [website](#).

Be aware that, all `exams` .rmd files available within `afedR` are self contained and you can export and compile them directly from `exams`. An easy way to copy all exercise files to your local folder is using function `afedR::path_to_copy`:

```
# copy to "documents" folder
afedR::copy_book_files(path_to_copy = '~')
## Copying data files files to ~/afedR files/data
## 37 files copied
## Copying end-of-chapter (eoc) exercises with solutions to ~/afedR
files/eoc-exercises/
## 99 files copied
## Copying R code to ~/afedR files/R-code
## 15 files copied
```

All book files – data, code and exercises – are now available at your “Documents” folder (shortcut of `~`).

# Compiling to pdf

For pdf compilation, you'll need:

- name of students (will be printed in pdf)
- students ids (I usually use their university card number)
- Chapters to include
- Exercise name
- Course name

And use the following code

```
library(afedR)

names_students <- c('Michael Peterling', 'John Aspger', 'Mr. Beans')
ids_students <- 1:length(names_students) # probably id card?
chapters <- 1:3 # chapters from 1 to 13
dir_output <- file.path(tempdir(), 'pdf-example')

df_exams <- compile_pdf_exercises(students_names = names_students,
                                  students_ids = ids_students,
                                  chapters_to_include = chapters,
                                  dir_out = dir_output)
```

The output of `compile_pdf_exercises` is a table with the correct answers for choice and number type of questions:

```
glimpse(df_exams)
## Rows: 69
## Columns: 4
## $ i_name      "Michael Peterling", "Michael Peterling", "Michael
Peterling"...
## $ i_ver       1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1, 1...
## $ i_q         1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,
17, 18...
## $ solution    "d", "e", "b", "a", "e", NA, "b", NA, NA, NA, NA, NA,
NA, NA,...
```

After compilation, all pdf files are available at folder `dir_output`:

```
fs::dir_ls(dir_output)
## /tmp/RtmpNYRZL8/pdf-example/Sample Exercise_Ver 01_Michael
Peterling.pdf
## /tmp/RtmpNYRZL8/pdf-example/Sample Exercise_Ver 02_John Aspger.pdf
## /tmp/RtmpNYRZL8/pdf-example/Sample Exercise_Ver 03_Mr. Beans.pdf
```

The final result will be as follows:

# Compiling to html

You can also compile to a html file using `afedR::compile_html_exercises`:

```

library(afedR)

names_students <- c('Michael Peterling', 'John Aspper', 'Mr. Beans')
ids_students <- 1:length(names_students) # probably id card?
chapters <- 1:3 # chapters from 1 to 13
dir_output <- file.path(tempdir(), 'html-example')

df_exams <- compile_html_exercises(students_names = names_students,
                                   students_ids = ids_students,
                                   chapters_to_include = chapters,
                                   dir_out = dir_output)

## Exams generation initialized.
##
## Output directory: /tmp/RtmpNYRZL8/exams files filef083004f255
## Exercise directory: /mnt/HDD/Dropbox/11-My Website/01-msperlin.com/content/post
## Supplement directory: /tmp/RtmpNYRZL8/filef08188b2d9b
## Temporary directory: /tmp/RtmpNYRZL8/filef083ea56f74
## Exercises: /home/msperlin/R/x86_64-pc-linux-gnu-library/4.0/afedR/
extdata/exams_files/02-EOCE-Rmd/Chapter01-Introduction/afedR_Chap-
01_01_SPLUS, /home/msperlin/R/x86_64-pc-linux-gnu-library/4.0/afedR/
extdata/exams_files/02-EOCE-Rmd/Chapter01-Introduction/afedR_Chap-
01_02_Authors-R, /home/msperlin/R/x86_64-pc-linux-gnu-library/4.0
/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-Introduction/
afedR_Chap-01_03_About-R, /home/msperlin/R/x86_64-pc-linux-gnu-
library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_04_name-R, /home/msperlin/R/x86_64-pc-linux-
gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_05_about-R, /home/msperlin/R/x86_64-pc-
linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_06_Tecnology-R, /home/msperlin/R/x86_64-pc-
linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_07_rtools, /home/msperlin/R/x86_64-pc-linux-
gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_08_Groups, /home/msperlin/R/x86_64-pc-linux-
gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_09_RBloggers, /home/msperlin/R/x86_64-pc-
linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter01-
Introduction/afedR_Chap-01_10_Infrastructure-TI, /home/msperlin
/R/x86_64-pc-linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-
Rmd/Chapter02-Basic-Operations/afedR_Chap-02_01_Basic, /home/msperlin
/R/x86_64-pc-linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-
Rmd/Chapter02-Basic-Operations/afedR_Chap-02_02_Basic, /home/msperlin
/R/x86_64-pc-linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-
Rmd/Chapter02-Basic-Operations/afedR_Chap-02_03_getwd, /home/msperlin
/R/x86_64-pc-linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-
Rmd/Chapter02-Basic-Operations/afedR_Chap-02_04_download,
/home/msperlin/R/x86_64-pc-linux-gnu-library/4.0/afedR/
extdata/exams_files/02-EOCE-Rmd/Chapter02-Basic-Operations/afedR_Chap-
02_05_unzip, /home/msperlin/R/x86_64-pc-linux-gnu-library/4.0/afedR/
extdata/exams_files/02-EOCE-Rmd/Chapter02-Basic-Operations/afedR_Chap-
02_06_installpkgs, /home/msperlin/R/x86_64-pc-linux-gnu-library/4.0

```

```
/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter02-Basic-
Operations/afedR_Chap-02_07_filespkgs, /home/msperlin/R/x86_64-pc-
linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter02-
Basic-Operations/afedR_Chap-02_08_installpkgs2, /home/msperlin
/R/x86_64-pc-linux-gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-
Rmd/Chapter02-Basic-Operations/afedR_Chap-02_09_installpkgs3-cranlogs,
/home/msperlin/R/x86_64-pc-linux-gnu-library/4.0/afedR/
extdata/exams_files/02-EOCE-Rmd/Chapter02-Basic-Operations/afedR_Chap-
02_10_devtools, /home/msperlin/R/x86_64-pc-linux-gnu-library/4.0/afedR/
extdata/exams_files/02-EOCE-Rmd/Chapter02-Basic-Operations/afedR_Chap-
02_11_files-in-computer, /home/msperlin/R/x86_64-pc-linux-gnu-
library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter03-Research-
Scripts/afedR_Chap-03_01_pesquisa, /home/msperlin/R/x86_64-pc-linux-
gnu-library/4.0/afedR/extdata/exams_files/02-EOCE-Rmd/Chapter03-
Research-Scripts/afedR_Chap-03_02_folders
##
## Generation of individual exams.
## Exam 1: _home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_01_SPLUS (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_02_Authors-R (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter01-Introduction_afedR_Chap-01_03_About-R (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_04_name-R (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_05_about-R (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_06_Tecnology-R (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_07_rtools (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_08_Groups (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_09_RBloggers (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter01-Introduction_afedR_Chap-01_10_Infrastructure-TI (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_01_Basic (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_02_Basic (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-
Basic-Operations_afedR_Chap-02_03_getwd (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter02-Basic-Operations_afedR_Chap-02_04_download (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_05_unzip (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
```

```
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_06_installpkgs (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter02-Basic-Operations_afedR_Chap-02_07_files pkgs (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_08_installpkgs2 (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_09_installpkgs3-cranlogs (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_10_devtools (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_11_files-in-computer (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter03-Research-Scripts_afedR_Chap-
03_01_pesquisa (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter03-Research-
Scripts_afedR_Chap-03_02_folders (srt) ... w ... done.
## Exam 2: _home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_01_SPLUS (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_02_Authors-R (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter01-Introduction_afedR_Chap-01_03_About-R (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_04_name-R (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_05_about-R (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_06_Tecnology-R (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_07_rtools (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_08_Groups (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_09_RBloggers (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter01-Introduction_afedR_Chap-01_10_Infrastructure-TI (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_01_Basic (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_02_Basic (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-
Basic-Operations_afedR_Chap-02_03_getwd (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter02-Basic-Operations_afedR_Chap-02_04_download (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
```

```
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_05_unzip (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_06_installpkgs (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter02-Basic-Operations_afedR_Chap-02_07_files pkgs (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_08_installpkgs2 (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_09_installpkgs3-cranlogs (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_10_devtools (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_11_files-in-computer (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter03-Research-Scripts_afedR_Chap-
03_01_pesquisa (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter03-Research-
Scripts_afedR_Chap-03_02_folders (srt) ... w ... done.
## Exam 3: _home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_01_SPLUS (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_02_Authors-R (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter01-Introduction_afedR_Chap-01_03_About-R (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_04_name-R (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_05_about-R (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_06_Tecnology-R (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter01-Introduction_afedR_Chap-
01_07_rtools (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_08_Groups (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter01-
Introduction_afedR_Chap-01_09_RBloggers (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter01-Introduction_afedR_Chap-01_10_Infrastructure-TI (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_01_Basic (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_02_Basic (srt) _home_msperlin_R_x86_64-pc-
linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-
Basic-Operations_afedR_Chap-02_03_getwd (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
```

```
Rmd_Chapter02-Basic-Operations_afedR_Chap-02_04_download (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_05_unzip (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_06_installpkgs (srt) _home_msperlin_R_x86_64-
pc-linux-gnu-library_4.0_afedR_extdata_exams_files_02-EOCE-
Rmd_Chapter02-Basic-Operations_afedR_Chap-02_07_filespkgs (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_08_installpkgs2 (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_09_installpkgs3-cranlogs (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-Operations_afedR_Chap-
02_10_devtools (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter02-Basic-
Operations_afedR_Chap-02_11_files-in-computer (srt)
_home_msperlin_R_x86_64-pc-linux-gnu-library_4.0_afedR_
extdata_exams_files_02-EOCE-Rmd_Chapter03-Research-Scripts_afedR_Chap-
03_01_pesquisa (srt) _home_msperlin_R_x86_64-pc-linux-gnu-
library_4.0_afedR_extdata_exams_files_02-EOCE-Rmd_Chapter03-Research-
Scripts_afedR_Chap-03_02_folders (srt) ... w ... done.
```

An example of full compiled html file is available [here](#).

## Exporting to Moodle

You can also export to *e-learning* platforms such as Moodle. The process is quite simple as `exams` package does the heavy work:

```
require(afedR)
my_eoc_dir <- afedR::get_EOC_dir()

available_chapters <- fs::dir_ls(my_eoc_dir)
exercise_files <- fs::dir_ls(available_chapters[1])
dir_output <- file.path(tempdir(), 'moodle-test')

exams::exams2moodle(file = exercise_files,
                    name = 'TestingMoodle',
                    dir = dir_output)

fs::dir_ls(dir_output)
## /tmp/RtmpNYRZL8/moodle-test/TestingMoodle.xml
```

You can later import this `.xml` file in your Moodle class.

## Exporting to Blackboard

```
require(afedR)
my_eoc_dir <- afedR::get_EOC_dir()

available_chapters <- fs::dir_ls(my_eoc_dir)
```



```
exercise_files <- fs::dir_ls(available_chapters[1])
dir_output <- file.path(tempdir(), 'blackboard-test')
```

```
exams::exams2blackboard(file = exercise_files,
                        name = 'TestingBlackBoard',
                        dir = dir_output)
```

```
fs::dir_ls(dir_output)
```

```
## /tmp/RtmpNYRZL8/blackboard-test/TestingBlackBoard.zip
```

This .zip file contains all exercises of chapter 01 and can be imported in your blackboard account.