

# README - Midlife Crisis

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## Folder structure and files

This is the README file for all material on the R Markdown implementation of the Midlife Crisis project. The material is organized into three folders. The README file is on the top level of folder structure.

**Note on working directories** When the master script `master.R` is executed, the working directory needs to be set to the folder `ScriptsAndReports` hosting `master.R`.

When individual `.Rmd` files are knitted or selected code chunks are executed, the `.Rmd` file quietly uses the working directory hosting the file in the background and does not change the working directory.

Information about files and folders:

- `README.Rmd`: README file for entire project (this one)
- `README.rtf`: README file as rtf produced with `README.Rmd`
- `Data`: Stores data prepared for analysis in three subfolders
  - `InputData`: Stores original raw data
    - `original-wdi.xlsx`: Original WDI country data
    - `original-pew.sav`: Original PEW survey data
  - `TempData`: Stores intermediate data for further processing
    - `pew_processed.rds`
    - `wdi_processed.rds`
  - `AnalysisData`: Stores data produced in the analysis
    - `country_level.rds`: Data for country-level analysis
    - `individual_level.rds`: Data for individual-level analysis
- `Output`: Stores all output exported by analysis scripts
  - Tables are stored in Word and LaTeX format to be included in Word and LaTeX papers
- `ScriptsAndReports`: Stores all scripts and codebook
  - `master.R`: Master script executing all other scripts.
  - `data_processing.Rmd`:
    - Loads data from `InputData`
    - Stores data in `TempData` and `AnalysisData`

- `data_processing.html`: R Markdown html report for `data_processing.Rmd`
- `data_analysis.Rmd`:
  - Loads data from `AnalysisData`
  - Stores output (figures, tables) in `ScriptsAndResults`
  - `data_analysis.html`: R Markdown html report for `data_analysis.Rmd`
- `data_paper.Rmd`: File for producing a paper with tables and figures and no code.
- `data_paper.PDF`: PDF produced with `data_paper.Rmd`

## Reproduction parameters

The system parameters and package versions for `knitr` and `rmarkdown` (used for all scripts) at the last execution of the script (`rSys.time()`):

- platform: x86\_64-w64-mingw32
- R version: R version 4.0.3 (2020-10-10)
- RStudio: 1.4.1106
- knitr: 1.30
- rmarkdown: 2.7

## Package versions used in scripts

If you want to use the same versions of the packages that are loaded with the `library()` commands, you first need the `devtools` package (we used 2.3.2 & 2.4.0). With this package, one can install older versions from CRAN. The current versions of the packages, if they have been installed before, *will be replaced* if the specified versions are installed in the R library.

For information on the version of all packages that `devtools` includes in the `session_info()`, see the html-reports of the Rmd-scripts.

### `data_processing.Rmd`:

```
install_version("dplyr", version = "1.0.5",
                repos = "http://cran.us.r-project.org")
install_version("rio", version = "0.5.26",
                repos = "http://cran.us.r-project.org")
install_version("tidyr", version = "1.1.2",
                repos = "http://cran.us.r-project.org")
```

### `data_analysis.Rmd`

```
install_version("dplyr", version = "1.0.5",
                repos = "http://cran.us.r-project.org")
install_version("formattable", version = "0.2.0.1",
                repos = "http://cran.us.r-project.org")
install_version("ggplot2", version = "3.3.2", # 3.3.3 works too
                repos = "http://cran.us.r-project.org")
```

```
install_version("lfe", version = "2.8-6",
                repos = "http://cran.us.r-project.org")
install_version("sjPlot", version = "2.8.7",
                repos = "http://cran.us.r-project.org")
install_version("texreg", version = "1.37.5",
                repos = "http://cran.us.r-project.org")
install_version("xtable", version = "1.8-4",
                repos = "http://cran.us.r-project.org")
```

### **data\_appendix.Rmd**

```
install_version("dplyr", version = "1.0.5",
                repos = "http://cran.us.r-project.org")
install_version("formattable", version = "0.2.0.1",
                repos = "http://cran.us.r-project.org")
install_version("ggplot2", version = "3.3.2", # 3.3.3 works too
                repos = "http://cran.us.r-project.org")
```

### **data\_paper.Rmd**

```
install_version("dplyr", version = "1.0.5",
                repos = "http://cran.us.r-project.org")
install_version("formattable", version = "0.2.0.1",
                repos = "http://cran.us.r-project.org")
install_version("ggplot2", version = "3.3.2", # 3.3.3 works too
                repos = "http://cran.us.r-project.org")
install_version("knitr", version = "1.30",
                repos = "http://cran.us.r-project.org")
install_version("lfe", version = "2.8-6",
                repos = "http://cran.us.r-project.org")
install_version("sjPlot", version = "2.8.7",
                repos = "http://cran.us.r-project.org")
install_version("texreg", version = "1.37.5",
                repos = "http://cran.us.r-project.org")
```

All session parameters from last execution of script.

```
## - Session info
```

```
-----
```

```
## setting value
## version R version 4.0.3 (2020-10-10)
## os Windows 10 x64
## system x86_64, mingw32
## ui RStudio
## language (EN)
## collate German_Germany.1252
## ctype German_Germany.1252
## tz Europe/Berlin
```

## date 2021-07-02

##

## - Packages

---

##	package	*	version	date	lib	source
##	assertthat		0.2.1	2019-03-21	[1]	CRAN (R 4.0.0)
##	backports		1.1.10	2020-09-15	[1]	CRAN (R 4.0.2)
##	bayestestR		0.8.0	2020-12-05	[1]	CRAN (R 4.0.3)
##	boot		1.3-25	2020-04-26	[2]	CRAN (R 4.0.3)
##	broom		0.7.6	2021-04-05	[1]	CRAN (R 4.0.5)
##	callr		3.6.0	2021-03-28	[1]	CRAN (R 4.0.4)
##	cli		2.3.1	2021-02-23	[1]	CRAN (R 4.0.4)
##	coda		0.19-4	2020-09-30	[1]	CRAN (R 4.0.2)
##	colorspace		1.4-1	2019-03-18	[1]	CRAN (R 4.0.0)
##	crayon		1.4.1	2021-02-08	[1]	CRAN (R 4.0.4)
##	DBI		1.1.0	2019-12-15	[1]	CRAN (R 4.0.0)
##	desc		1.2.0	2018-05-01	[1]	CRAN (R 4.0.0)
##	devtools	*	2.3.2	2020-09-18	[1]	CRAN (R 4.0.2)
##	digest		0.6.27	2020-10-24	[1]	CRAN (R 4.0.4)
##	dplyr	*	1.0.5	2021-03-05	[1]	CRAN (R 4.0.5)
##	effectsize		0.4.3	2021-01-18	[1]	CRAN (R 4.0.3)
##	ellipsis		0.3.1	2020-05-15	[1]	CRAN (R 4.0.0)
##	emmeans		1.5.3	2020-12-09	[1]	CRAN (R 4.0.3)
##	estimability		1.3	2018-02-11	[1]	CRAN (R 4.0.3)
##	evaluate		0.14	2019-05-28	[1]	CRAN (R 4.0.0)
##	fansi		0.4.1	2020-01-08	[1]	CRAN (R 4.0.0)
##	farver		2.0.3	2020-01-16	[1]	CRAN (R 4.0.0)
##	formattable	*	0.2.0.1	2016-08-05	[1]	CRAN (R 4.0.0)
##	Formula		1.2-3	2018-05-03	[1]	CRAN (R 4.0.0)
##	fs		1.4.2	2020-06-30	[1]	CRAN (R 4.0.2)
##	generics		0.0.2	2018-11-29	[1]	CRAN (R 4.0.0)
##	ggeffects		1.0.1	2020-12-14	[1]	CRAN (R 4.0.3)
##	ggplot2	*	3.3.3	2020-12-30	[1]	CRAN (R 4.0.5)
##	glue		1.4.2	2020-08-27	[1]	CRAN (R 4.0.2)
##	gtable		0.3.0	2019-03-25	[1]	CRAN (R 4.0.0)
##	highr		0.8	2019-03-20	[1]	CRAN (R 4.0.0)
##	htmltools		0.5.0	2020-06-16	[1]	CRAN (R 4.0.2)
##	htmlwidgets		1.5.3	2020-12-10	[1]	CRAN (R 4.0.4)
##	httr		1.4.2	2020-07-20	[1]	CRAN (R 4.0.2)
##	insight		0.12.0	2021-01-14	[1]	CRAN (R 4.0.3)
##	jsonlite		1.7.2	2020-12-09	[1]	CRAN (R 4.0.5)
##	knitr		1.30	2020-09-22	[1]	CRAN (R 4.0.2)
##	labeling		0.3	2014-08-23	[1]	CRAN (R 4.0.0)
##	lattice		0.20-41	2020-04-02	[2]	CRAN (R 4.0.3)
##	lfe	*	2.8-6	2021-01-11	[1]	CRAN (R 4.0.3)
##	lifecycle		1.0.0	2021-02-15	[1]	CRAN (R 4.0.5)

##	lme4	1.1-23	2020-04-07	[1]	CRAN	(R 4.0.2)
##	magrittr	2.0.1	2020-11-17	[1]	CRAN	(R 4.0.5)
##	MASS	7.3-53	2020-09-09	[2]	CRAN	(R 4.0.3)
##	Matrix	* 1.2-18	2019-11-27	[2]	CRAN	(R 4.0.3)
##	memoise	1.1.0	2017-04-21	[1]	CRAN	(R 4.0.0)
##	minqa	1.2.4	2014-10-09	[1]	CRAN	(R 4.0.2)
##	modelr	0.1.8	2020-05-19	[1]	CRAN	(R 4.0.3)
##	munsell	0.5.0	2018-06-12	[1]	CRAN	(R 4.0.0)
##	mvtnorm	1.1-1	2020-06-09	[1]	CRAN	(R 4.0.0)
##	nlme	3.1-149	2020-08-23	[2]	CRAN	(R 4.0.3)
##	nloptr	1.2.2.2	2020-07-02	[1]	CRAN	(R 4.0.2)
##	parameters	0.11.0	2021-01-15	[1]	CRAN	(R 4.0.3)
##	performance	0.6.1	2020-12-09	[1]	CRAN	(R 4.0.3)
##	pillar	1.4.6	2020-07-10	[1]	CRAN	(R 4.0.2)
##	pkgbuild	1.1.0	2020-07-13	[1]	CRAN	(R 4.0.2)
##	pkgconfig	2.0.3	2019-09-22	[1]	CRAN	(R 4.0.0)
##	pkgload	1.1.0	2020-05-29	[1]	CRAN	(R 4.0.0)
##	prettyunits	1.1.1	2020-01-24	[1]	CRAN	(R 4.0.0)
##	processx	3.5.1	2021-04-04	[1]	CRAN	(R 4.0.5)
##	ps	1.6.0	2021-02-28	[1]	CRAN	(R 4.0.5)
##	purrr	0.3.4	2020-04-17	[1]	CRAN	(R 4.0.0)
##	R6	2.4.1	2019-11-12	[1]	CRAN	(R 4.0.0)
##	Rcpp	1.0.4.6	2020-04-09	[1]	CRAN	(R 4.0.0)
##	remotes	2.3.0	2021-04-01	[1]	CRAN	(R 4.0.5)
##	rlang	0.4.10	2020-12-30	[1]	CRAN	(R 4.0.4)
##	rmarkdown	2.7	2021-02-19	[1]	CRAN	(R 4.0.3)
##	rprojroot	1.3-2	2018-01-03	[1]	CRAN	(R 4.0.0)
##	rsconnect	0.8.16	2019-12-13	[1]	CRAN	(R 4.0.2)
##	rstudioapi	0.11	2020-02-07	[1]	CRAN	(R 4.0.0)
##	sandwich	2.5-1	2019-04-06	[1]	CRAN	(R 4.0.0)
##	scales	1.1.1	2020-05-11	[1]	CRAN	(R 4.0.0)
##	sessioninfo	1.1.1	2018-11-05	[1]	CRAN	(R 4.0.0)
##	sjlabelled	1.1.7	2020-09-24	[1]	CRAN	(R 4.0.2)
##	sjmisc	2.8.5	2020-05-28	[1]	CRAN	(R 4.0.2)
##	sjPlot	* 2.8.7	2021-01-10	[1]	CRAN	(R 4.0.3)
##	sjstats	0.18.1	2021-01-09	[1]	CRAN	(R 4.0.3)
##	statmod	1.4.35	2020-10-19	[1]	CRAN	(R 4.0.3)
##	stringi	1.5.3	2020-09-09	[1]	CRAN	(R 4.0.3)
##	stringr	1.4.0	2019-02-10	[1]	CRAN	(R 4.0.0)
##	testthat	3.0.2	2021-02-14	[1]	CRAN	(R 4.0.5)
##	texreg	* 1.37.5	2020-06-18	[1]	CRAN	(R 4.0.2)
##	tibble	3.0.4	2020-10-12	[1]	CRAN	(R 4.0.3)
##	tidyr	1.1.2	2020-08-27	[1]	CRAN	(R 4.0.3)
##	tidyselect	1.1.0	2020-05-11	[1]	CRAN	(R 4.0.0)
##	usethis	* 1.6.3	2020-09-17	[1]	CRAN	(R 4.0.2)
##	utf8	1.1.4	2018-05-24	[1]	CRAN	(R 4.0.0)
##	vctrs	0.3.6	2020-12-17	[1]	CRAN	(R 4.0.4)

```
## withr          2.3.0    2020-09-22 [1] CRAN (R 4.0.2)
## xfun           0.22     2021-03-11 [1] CRAN (R 4.0.5)
## xtable         * 1.8-4   2019-04-21 [1] CRAN (R 4.0.0)
## yaml           2.2.1     2020-02-01 [1] CRAN (R 4.0.2)
## zoo            1.8-8     2020-05-02 [1] CRAN (R 4.0.0)
##
## [1] C:/Users/Ingo R/Documents/R/win-library/4.0
## [2] C:/Program Files/R/R-4.0.3/library
```