

ORGANIZING WORKFLOWS:

FOLDER STRUCTURE, PROJECTS & VERSION CONTROL

STEPHANIE KRAMER-SCHADT



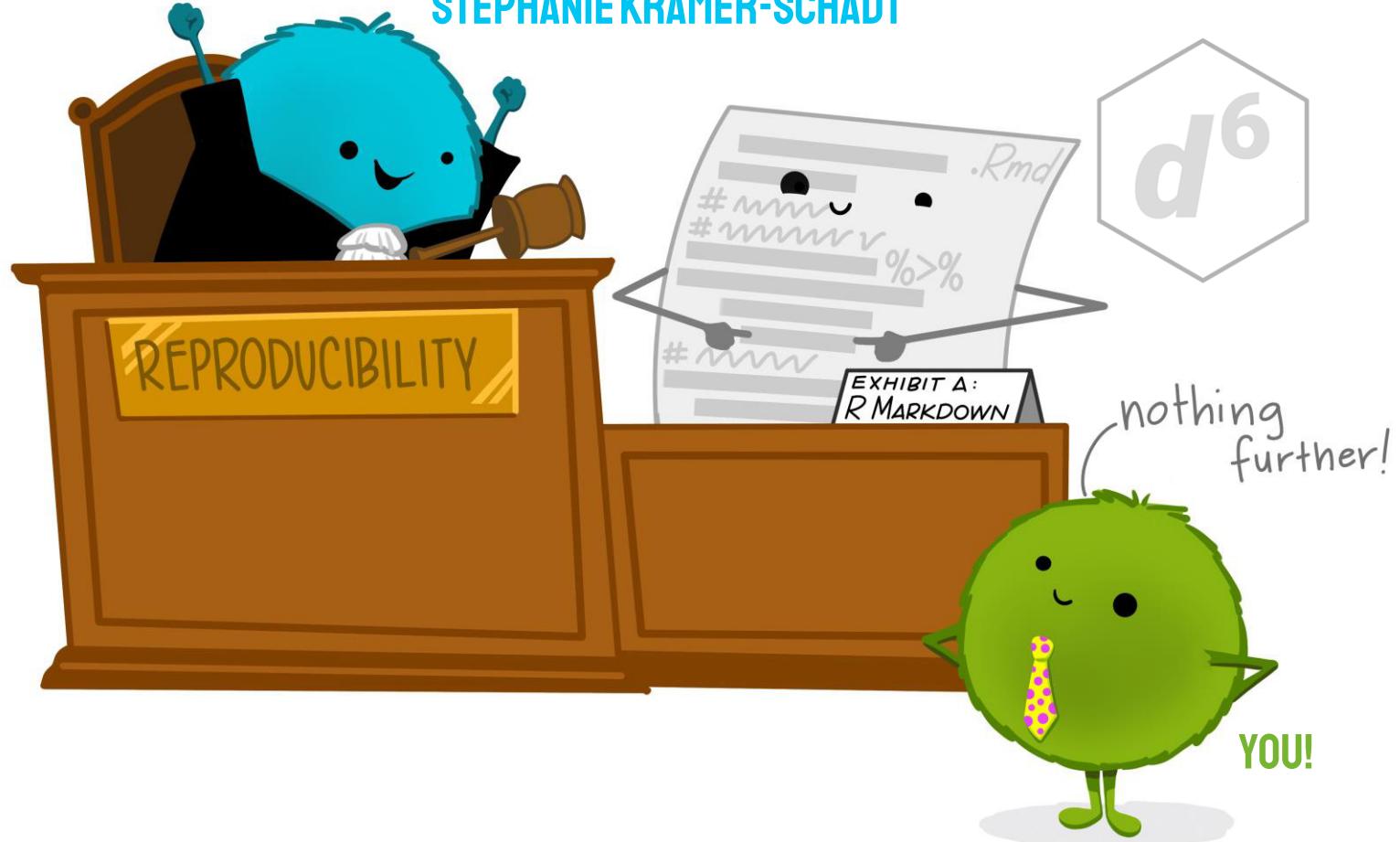
CÉDRIC SCHERER

@allison_horst

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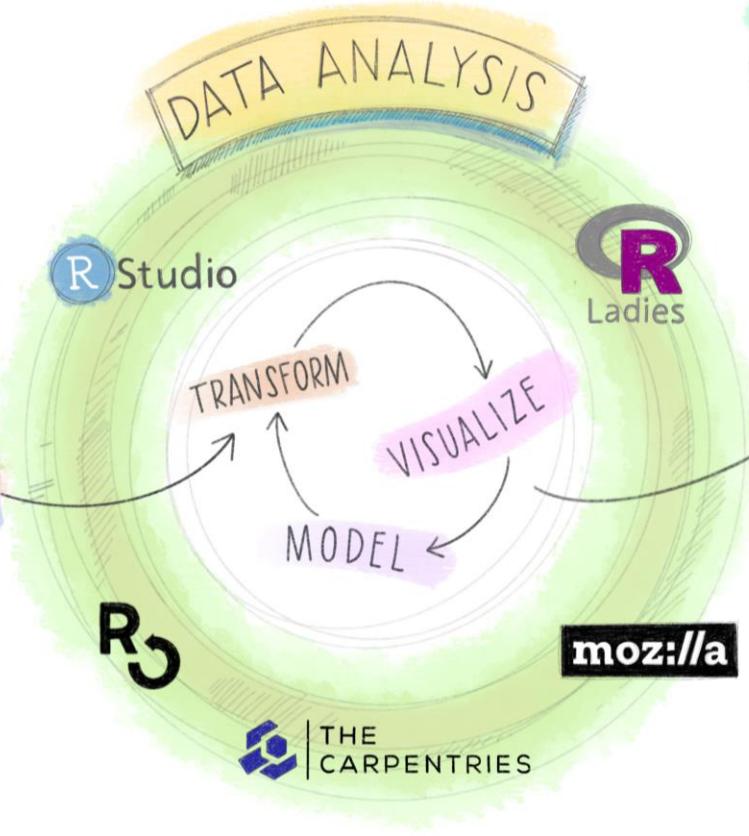
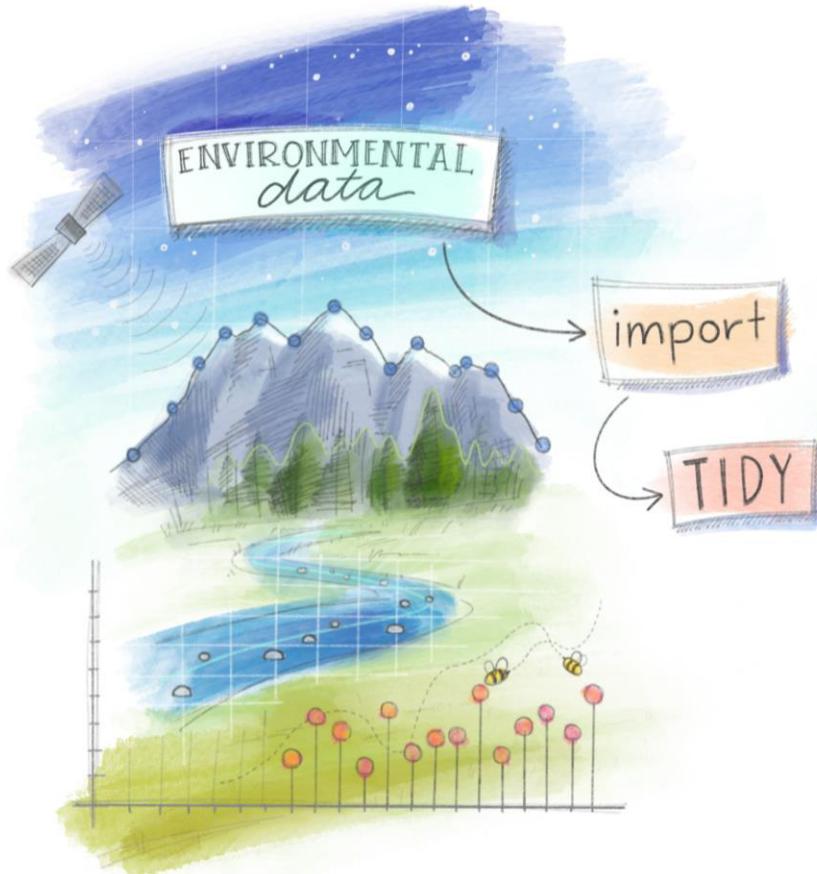
@allison_horst

work·flow

\ 'wərk-ˌflō \

The sequence of steps involved in moving
from the beginning to the end of a working process.

~ A coordinated framework for conducting data analysis. ~



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COORDINATED DATA ANALYSIS WORKFLOWS

- Planning research projects
- Organizing and documenting research steps
- Storing raw data
- Cleaning and analyzing data
- Presenting results
- Archiving materials

Why should I care about workflows?



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```
. └── unicorn analysis
    ├── GIS
    │   ├── wonderland-tcd.geojson
    │   ├── wonderland-tcd-clean.geojson
    │   └── wonderland-tcd-temp.geojson
    ├── ms
    │   ├── 20200713_draft_unicorns.docx
    │   ├── 20200713_draft_unicorns_correction.docx
    │   ├── 20200713_draft_unicorns_20200821_CS_VG.docx
    │   ├── draft_v2.docx
    │   ├── lit.bib
    │   ├── literature_vik.pdf
    │   └── notes.odt
    ├── plots
    │   ├── glmm.png
    │   ├── glmm_rerun.png
    │   ├── glmm_rerun_v2_presentation.png
    │   └── talk_2020-02-07_corr.ppt
    ├── 1_data.R
    ├── analysis.R
    ├── analysis_glmm_050320.R
    ├── analysis_glmm_210320_final.R
    ├── analysis_glmm_210320_final_v2.R
    ├── Copy mail metadata Steph.txt
    ├── plot_glmm.Rmd
    ├── shapefile_wonderland.zip
    ├── unicorn-2015.xls
    ├── unicorn-2016.xls
    └── unicorn-merged.csv
```



From: editor@sciencepubl.org
To: mess@stanford.edu
Date: 2029-01-01

Dear Prof. Dr. Mess,

With reference to your article published in August 2020, we would like to know how you estimated the survival rates. There were some questionable patterns in your publication so we are forced to ask you.

All the best,
Edith Editor



```

.unicorn analysis
  └── GIS
    ├── wonderland-tcd.geojson
    ├── wonderland-tcd-clean.geojson
    └── wonderland-tcd-temp.geojson
  └── ms
    ├── 20200713_draft_unicorns.docx
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  └── plots
    ├── glmm.png
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  └── analysis_glmm_210320_final_v2.R
  └── Copy mail metadaten Steph.txt
  └── plot_glmm.Rmd
  └── shapefile_wonderland.zip
  └── unicorn-2015.xls
  └── unicorn-2016.xls
  └── unicorn-merged.csv

```

```

. scherer_2020_01_unicorn_wonderland
  └── data-raw
    ├── unicorn_2015.csv
    ├── unicorn_2016.csv
    ├── unicorn_metadata.txt
    ├── wonderland_borders.gpkg
    └── wonderland_tcd.geojson
  └── docs
    ├── manuscript
      ├── 20200713_draft_unicorns.docx
      ├── 20200821_draft_unicorns_CS_VG.docx
      └── lit.bib
    ├── literature
      └── literature_vik.pdf
    ├── presentations
      └── 20200207_BES_unicorn_wonderland.ppt
    └── lab_book.Rmd
  └── output
    ├── data-proc
      └── unicorn_merged.csv
    └── geo-proc
      └── wonderland_tcd_clean.geojson
  └── plots
    ├── 01_glmm.pdf
    ├── 01_glmm_rerun.pdf
    └── 01_glmm_rerun_presentation.png
  └── R
    ├── 01_data_import.Rmd
    └── 02_analysis_glmm.Rmd
  └── .gitignore
  └── README.md
  └── scherer_2020_01_unicorn_wonderland.proj

```



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• PROJECT └ FOLDER └ STRUCTURE

```
.─ unicorn_analysis
  ├─ GIS
  └─ wonderland-tcd.geojson
```

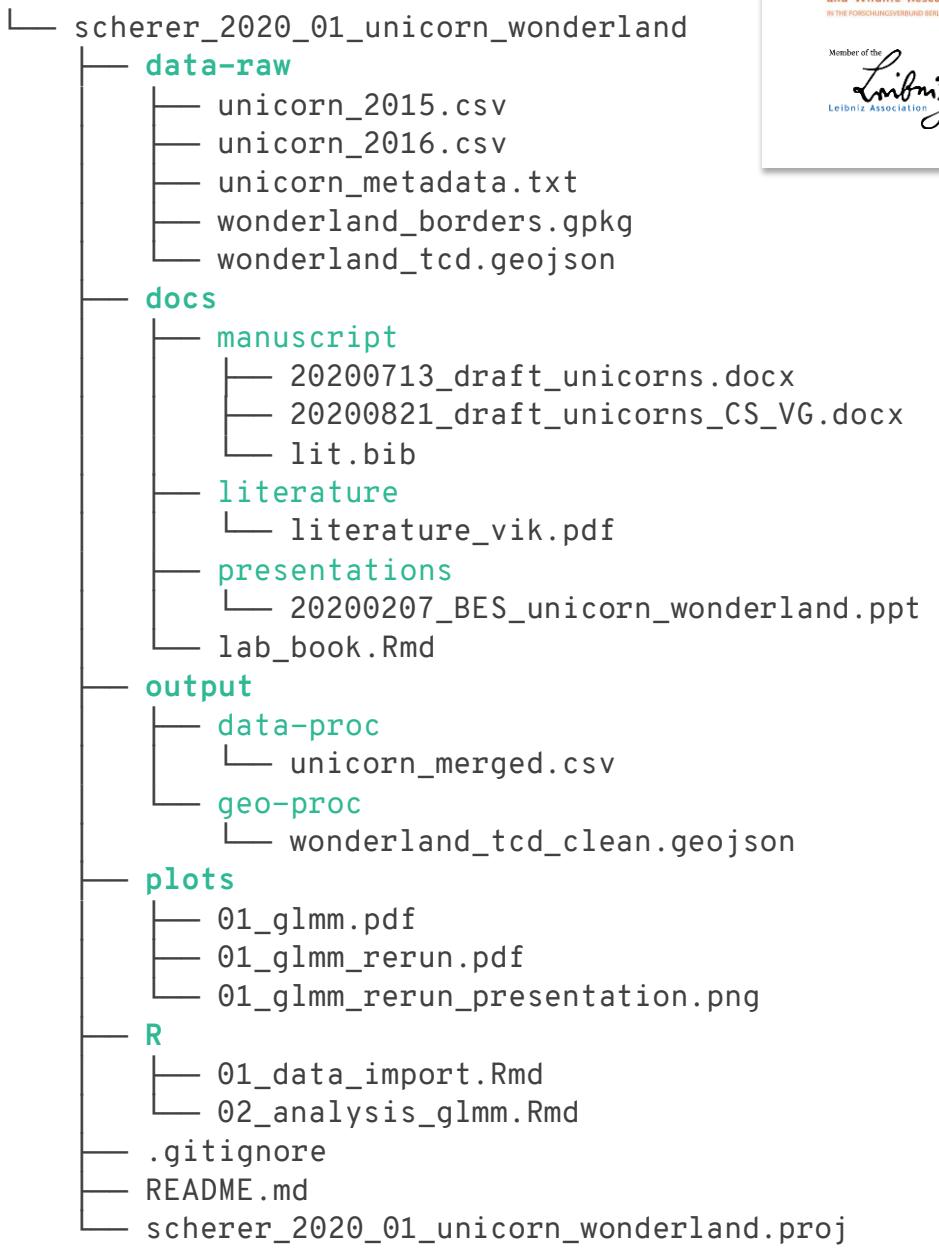
```
.─ scherer_2020_01_unicorn_wonderland
  ├─ data
  └─ borders_wonderland.geojson
```

USE UNIQUE PROJECT NAMES INCL. NAME AND PROJECT ID:

name_projID_descr_name

Standardized folder structure:

- **DATA** (data)
only raw data (untouched!)
- **DOCUMENTS** (docs)
manuscripts, presentations, reports, literature & admin
- **OUTPUT** (output)
processed data
- **PLOTS** (plots)
figures (preferably as pdf + png), animations, ...
- **SOURCE SCRIPTS** (R)
.R, .Rmd, .py, .py, .ipynb, .netlogo, .cpp, ... + source files



```

└── unicorn•analysis
    ├── GIS
    │   ├── wonderland-tcd.geojson
    │   ├── wonderland-tcd-clean.geojson
    │   └── wonderland-tcd-temp.geojson
    └── ms
        └── 20200713_draft_unicorns.docx

```

```

└── scherer_2020_01_unicorn_wonderland
    ├── data-raw
    │   ├── unicorn_2015.csv
    │   ├── unicorn_2016.csv
    │   ├── unicorn_metadata.txt
    │   └── wonderland_borders.gpkg
    └── wonderland_tcd.geojson

```

USE underscores FOR FOLDER AND FILE NAMES, NEVER SPACES AND HYPHEN

```

├── 1_data.R
├── analysis.R
├── analysis_glmm_050320.R
├── analysis_glmm_210320_final.R
├── analysis_glmm_210320_final_v2.R
├── Copy•mail•metadaten•Steph.txt
├── plot_glmm.Rmd
├── shapefile_wonderland.zip
├── unicorn-2015.xls
├── unicorn-2016.xls
└── unicorn-merged.csv

```

```

└── scherer_2020_01_unicorn_wonderland
    ├── geo-proc
    │   └── wonderland_tcd_clean.geojson
    ├── plots
    │   ├── 01_glmm.pdf
    │   ├── 01_glmm_rerun.pdf
    │   └── 01_glmm_rerun_presentation.png
    ├── R
    │   ├── 01_data_import.Rmd
    │   └── 02_analysis_glmm.Rmd
    ├── .gitignore
    └── README.md

```

scherer_2020_01_unicorn_wonderland.proj

in that case...



see also: UpperCamel
aka PascalCase

```
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    │   └── notes.odt
    └── plots
        ├── glmm.png
        ├── glmm_rerun.png
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        │   └── lit.bib
        ├── literature
        │   └── literature_vik.pdf
        ├── presentations
        └── lab_book.Rmd
```

USE AN ELECTRONIC LAB-BOOK TO DOCUMENT YOUR WORKFLOW AND DECISIONS.

IT IS OF MAJOR IMPORTANCE THAT YOU KEEP THIS LAB-BOOK UPDATED.

PREFERABLY IT'S A RNOTEBOOK THAT CAN EASILY BE CONVERTED TO .HTML, .PDF & .DOCX

USE CONSISTENT LABELLING OF FILES

```

ms
├── 20200713_draft_unicorns.docx
├── 20200713_draft_unicorns_correction.docx
└── 20200713_draft_unicorns_20200821_CS_VG.docx
├── draft_v2.docx
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├── glmm.png
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├── talk_2020-02-07_corr.ppt
└── zebra.finch.img.bmp
1_data.R
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Copy mail metadata Steph.txt
plot_glmm.Rmd
shapefile_wonderland.zip
unicorn-2015.xls
unicorn-2016.xls
unicorn-merged.csv

```

```

wonderland_borders.gpkg
wonderland_tcd.geojson
docs
└── manuscript
    ├── 20200713_draft_unicorns.docx
    ├── 20200821_draft_unicorns_CS_VG.docx
    └── lit.bib
└── literature
    └── literature_vik.pdf
└── presentations
    └── 20200207_BES_unicorn_wonderland.ppt
lab_book.Rmd
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└── data-proc
    └── unicorn_merged.csv
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    ├── unicorn_2016.csv
    ├── unicorn_metadata.txt
    ├── wonderland_borders.gpkg
    └── wonderland_tcd.geojson
  └── docs

```

USE .TXT OR .CSV FOR TEXT DATA, PREFERABLY .GPKG OR .GEOJSON AND .TIF FOR GEOSPATIAL DATA

```

. zebra.finch.img.bmp
. 1_data.R
. analysis.R
. analysis_glmm_050320.R
. analysis_glmm_210320_final.R
. analysis_glmm_210320_final_v2.R
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. plot_glmm.Rmd
. shapefile_wonderland.zip
. unicorn-2015.xls
. unicorn-2016.xls
. unicorn-merged.csv

```

```

. data-proc
  └── unicorn_merged.csv
. geo-proc
  └── wonderland_tcd_clean.geojson
. plots
  ├── 01_glmm.pdf
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  └── ms
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```

```

. scherer_2020_01_unicorn_wonderland
  └── data-raw
    ├── unicorn_2015.csv
    ├── unicorn_2016.csv
    ├── unicorn_metadata.txt
    ├── wonderland_borders.gpkg
    └── wonderland_tcd.geojson
  └── docs

```

USE .TXT OR .CSV FOR TEXT DATA, PREFERABLY .GPKG OR .GEOJSON AND .TIF FOR GEOSPATIAL DATA

Shapefile format:

- wonderland_tcd.ain
- wonderland_tcd.aih
- wonderland_tcd-atx
- wonderland_tcd.cpg
- wonderland_tcd.dbf**
- wonderland_tcd.fbn | fbx
- wonderland_tcd.iks
- wonderland_tcd.mxs
- wonderland_tcd.prj
- wonderland_tcd.qix
- wonderland_tcd.sbn | sbx
- wonderland_tcd.shp**
- wonderland_tcd.shp.xml
- wonderland_tcd.shx**

GeoPackage format:

- wonderland_tcd.gpkg**

GeoJSON format:

- wonderland_tcd.geojson**

GeoTIFF format:

- wonderland_hfi.tif | .tiff | .ovr**

```
. └── unicorn analysis
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    │   ├── wonderland-tcd-clean.geojson
    │   └── wonderland-tcd-temp.geojson
    └── ms
        └── 20200713_draft_unicorns.docx
```

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. └── scherer_2020_01_unicorn_wonderland
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    │   ├── unicorn_2016.csv
    │   └── unicorn_metadata.txt
    ├── wonderland_borders.gpkg
    └── wonderland_tcd.geojson
```

USE README AND METADATA FILES TO PROVIDE ADDITIONAL INFORMATION ON YOUR PROJECT AND DATA

```
└── shapefile_wonderland.zip
└── unicorn-2015.xls
└── unicorn-2016.xls
└── unicorn-merged.csv
```

```
└── R
    ├── 01_data_import.Rmd
    ├── 02_analysis_glmm.Rmd
    └── .gitignore
    └── README.md
    └── scherer_2020_01_unicorn_wonderland.proj
```



An R package with the aim to
SIMPLIFY WORKFLOWS OF D6 RESEARCH PROJECTS

4 MAIN FUNCTIONALITIES (SO FAR)

- Create standardized project directories
- Provide standardized Rmarkdown templates
- Rendering of all Rmarkdown reports
- Install a set of common packages



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INSTALLATION

The package is not on CRAN and needs to be installed from GitHub:

```
install.packages("devtools")
devtools::install_github("EcoDynIZW/d6")
```

STANDARDIZED PROJECT DIRECTORIES

To start a new project in the current working directory, simply run:

```
d6::new_project("project")
```



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STANDARDIZED PROJECT DIRECTORIES

To start a new project in the current working directory, simply run:

```
?d6::new_project
```

STANDARDIZED PROJECT DIRECTORIES

`new_project {d6}`

R Documentation

Create new project scaffolding.

Description

Create all the scaffolding for a new project in a new directory. The scaffolding includes a `DESCRIPTION` and `NAMESPACE` file, `.gitignore`, different folders to hold raw data, outputs, documents, figures, and scripts, as well as `RProject` infrastructure. Also, optionally, set a GitHub repo and exclude geo data directories.

Usage

```
new_project(name, path = getwd(), github = FALSE, private.repo = TRUE, geo = TRUE)
```

Arguments

<code>name</code>	Name of the new project. A new folder will be created with that name.
<code>path</code>	Path of the new project where the folder is created. If empty then the current working directory is used.
<code>github</code>	Logical. Create GitHub repo? Note this requires a <code>GITHUB_PAT</code> . See instructions here https://gist.github.com/Z3tt/3dab3535007acf108391649766409421 .
<code>private_repo</code>	Logical. Should the repo be private or public? Default is <code>TRUE</code> which equals to private.
<code>geo</code>	Logical. Create directories for spatial data? Default is <code>TRUE</code> .

Value

A new directory with R package structure, slightly modified.



STANDARDIZED PROJECT DIRECTORIES

To start a new project in a particular directory add path:

```
d6::new_project(  
  name = "project",  
  path = "C:/Users/Mustermann/R"  
)
```

STANDARDIZED PROJECT DIRECTORIES

If you are not using any spatial data, you can omit those folders:

```
d6::new_project(  
  name = "project",  
  path = "C:/Users/Mustermann/R",  
  geo = FALSE  
)
```

STANDARDIZED PROJECT DIRECTORIES

YOUR TURN

Create a new project in a directory of your choice.

STANDARDIZED PROJECT DIRECTORIES

```
✓ Creating './'
✓ Creating 'R/'
✓ Writing 'DESCRIPTION'
Package: test
Title: What the Package Does (One Line, Title Case)
Version: 0.0.0.9000
Authors@R (parsed):
  * First Last <first.last@example.com> [aut, cre] (YOUR-ORCID-ID)
Description: What the package does (one paragraph).
License: `use_mit_license()`, `use_gpl3_license()` or friends to pick a license
Encoding: UTF-8
LazyData: true
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.1
✓ Writing 'NAMESPACE'
✓ Writing 'test.Rproj'
✓ Adding '.Rproj.user' to '.gitignore'
✓ Adding '^test\\\.Rproj$', '^\\.Rproj\\\.user$' to '.Rbuildignore'
✓ Opening 'C:/Users/Mustermann/R/test/' in new RStudio session
✓ Created project directory
✓ Created directories
✓ Added project descriptions
✓ DONE A new project named test was created at C:/Users/Mustermann/R.
To continue working on your project, start editing the 01_start.R file in the new Rstudio session.
```

STANDARDIZED PROJECT DIRECTORIES

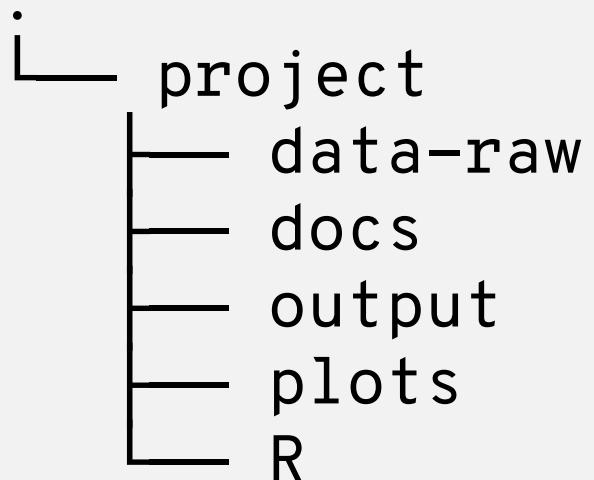
```
✓ Creating './'
✓ Creating 'R/'
✓ Writing 'DESCRIPTION'
Package: test
Title: What the Package Does (One Line, Title Case)
Version: 0.0.0.9000
Authors@R (parsed):
  * First Last <first.last@example.com> [aut, cre] (YOUR-ORCID-ID)
Description: What the package does (one paragraph).
License: `use_mit_license()`, `use_gpl3_license()` or friends to pick a license
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LazyData: true
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.1
✓ Writing 'NAMESPACE'
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STANDARDIZED PROJECT DIRECTORIES



STANDARDIZED PROJECT DIRECTORIES

```
. └── project
      ├── .Rproj.user
      ├── data-raw
      │   └── geo-raw
      ├── docs
      │   ├── admin
      │   ├── literature
      │   ├── manuscript
      │   ├── presentations
      │   └── reports
      ├── output
      │   ├── data-proc
      │   └── geo-proc
      ├── plots
      ├── R
      │   ├── 00_start.R
      │   └── XX_submit.R
      ├── .gitignore
      ├── .Rbuildignore
      ├── DESCRIPTION
      ├── NAMESPACE
      └── project.Rproj
```

STANDARDIZED PROJECT DIRECTORIES

```

project
├── .Rproj.user
├── data-raw
│   └── geo-raw
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│   ├── literature
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├── .Rbuildignore
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└── project.Rproj

```

- Rproject files
- raw data (tabular data in root folder)
 - raw spatial data
- documents
 - administrative docs, e.g. permits
 - literature used for parameterization + ms
 - manuscript drafts (main + supplement)
 - talks and poster presentations
 - rendered reports
- everything that is computed (except plots)
 - processed tabular data
 - processed spatial data
- plot output
- scripts
 - first script to run
 - final script to run
- contains which files to ignore for version control
- contains which files to ignore for package builds
- contains project details and package dependencies
- contains context for R objects
- Rproject file: use to start your project

STANDARDIZED PROJECT DIRECTORIES

```

project
├── .Rproj.user
├── data-raw
│   └── geo-raw
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│   ├── literature
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```

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 - first script to run
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- contains which files to ignore for package builds
- contains project details and package dependencies
- contains context for R objects
- Rproject file: use to start your project

STANDARDIZED PROJECT DIRECTORIES

```
└── project
    ├── .Rproj.user
    └── data-raw
        ├── admin
        ├── literature
        ├── manuscript
        ├── presentations
        └── reports
    ├── output
    │   ├── data-proc
    │   └── geo-proc
    ├── plots
    ├── R
    │   ├── 00_start.R
    │   └── XX_submit.R
    ├── .gitignore
    ├── .Rbuildignore
    ├── DESCRIPTION
    ├── NAMESPACE
    └── project.Rproj
```

- Rproject files
 - docs – documents
 - administrative docs, e.g. permits
 - literature used for parameterization + ms
 - manuscript drafts (main + supplement)
 - talks and poster presentations
 - rendered reports
 - everything that is computed (except plots)
 - processed tabular data
 - processed spatial data
 - plot output
 - scripts
 - first script to run
 - final script to run
 - contains which files to ignore for version control
 - contains which files to ignore for package builds
 - contains project details and package dependencies
 - contains context for R objects
 - Rproject file: use to start your project

STANDARDIZED PROJECT DIRECTORIES

```
✓ Creating './'
✓ Creating 'R/'
✓ Writing 'DESCRIPTION'
Package: test
Title: What the Package Does (One Line, Title Case)
Version: 0.0.0.9000
Authors@R (parsed):
  * First Last <first.last@example.com> [aut, cre] (YOUR-ORCID-ID)
Description: What the package does (one paragraph).
License: `use_mit_license()`, `use_gpl3_license()` or friends to pick a license
Encoding: UTF-8
LazyData: true
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.1
✓ Writing 'NAMESPACE'
✓ Writing 'test.Rproj'
✓ Adding '.Rproj.user' to '.gitignore'
✓ Adding '^test\\\.Rproj$', '^\\.Rproj\\\.user$' to '.Rbuildignore'
✓ Opening 'C:/Users/Mustermann/R/test/' in new RStudio session
✓ Created project directory
✓ Created directories
✓ Added project descriptions
✓ DONE A new project named test was created at C:/Users/Mustermann/R.
To continue working on your project, start editing the 01_start.R file in the new Rstudio session.
```

STANDARDIZED PROJECT DIRECTORIES

```

project
├── .Rproj.user
├── data-raw
│   └── geo-raw
├── docs
│   ├── admin
│   ├── literature
│   ├── manuscript
│   ├── presentations
│   └── reports
├── output
│   ├── data-proc
│   └── geo-proc
├── plots
└── R
    ├── 00_start.R
    └── XX_submit.R
├── .gitignore
├── .Rbuildignore
├── DESCRIPTION
├── NAMESPACE
└── project.Rproj

```

- Rproject files
- raw data (tabular data in root folder)
 - raw spatial data
- documents
 - administrative docs, e.g. permits
 - literature used for parameterization + ms
 - manuscript drafts (main + supplement)
 - talks and poster presentations
 - rendered reports
- everything that is computed (except plots)
 - processed tabular data
 - processed spatial data
- plot output
- scripts
 - **start script to run**
 - final script to run
- contains which files to ignore for version control
- contains which files to ignore for package builds
- contains project details and package dependencies
- contains context for R objects
- Rproject file: use to start your project

00_START.R

```
## ADD DOCUMENTATION TO YOUR PROJECT ----

## Add meta data about your project to DESCRIPTION
d6::fill_desc(
  pkg_title = "",          ## The Full Title of the Project
  pkg_description = "",    ## The Description of Your Project
  author_first_name = "", ## Your First Name
  author_last_name = "",  ## Your Last Name
  author_email = "",      ## Your Email
  repo_url = NULL         ## The URL of the GitHub Repo (optional)
)

## Add and fill the readme
usethis::use_readme_md()

## Add license if needed
## See ?usethis::use_mit_license for more information
usethis::use_mit_license( name = "Your Name" )

## ADD PACKAGE DEPENDENCIES ----

## Add one line by package you want to add as dependency
usethis::use_package("tidyverse")
```

00_START.R

```
## ADD DOCUMENTATION TO YOUR PROJECT ----

## Add meta data about your project to DESCRIPTION
d6::fill_desc(
  pkg_title = "",          ## The Full Title of the Project
  pkg_description = "",    ## The Description of Your Project
  author_first_name = "", ## Your First Name
  author_last_name = "",  ## Your Last Name
  author_email = "",      ## Your Email
  repo_url = NULL         ## The URL of the GitHub Repo (optional)
)

## Add and fill the readme
usethis::use_readme_md()

## Add license if needed
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usethis::use_mit_license( name = "Your Name" )

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00_START.R

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  pkg_title = "",           ## The Full Title of the Project
  pkg_description = "",     ## The Description of Your Project
  author_first_name = "",   ## Your First Name
  author_last_name = "",    ## Your Last Name
  author_email = "",        ## Your Email
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00_START.R

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  pkg_description = "",     ## The Description of Your Project
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  author_email = "",        ## Your Email
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```

00_START.R

```
## ADD DOCUMENTATION TO YOUR PROJECT ----

## Add meta data about your project to DESCRIPTION
d6::fill_desc(
  pkg_title = "",           ## The Full Title of the Project
  pkg_description = "",     ## The Description of Your Project
  author_first_name = "",   ## Your First Name
  author_last_name = "",    ## Your Last Name
  author_email = "",        ## Your Email
  repo_url = NULL          ## The URL of the GitHub Repo (optional)
)

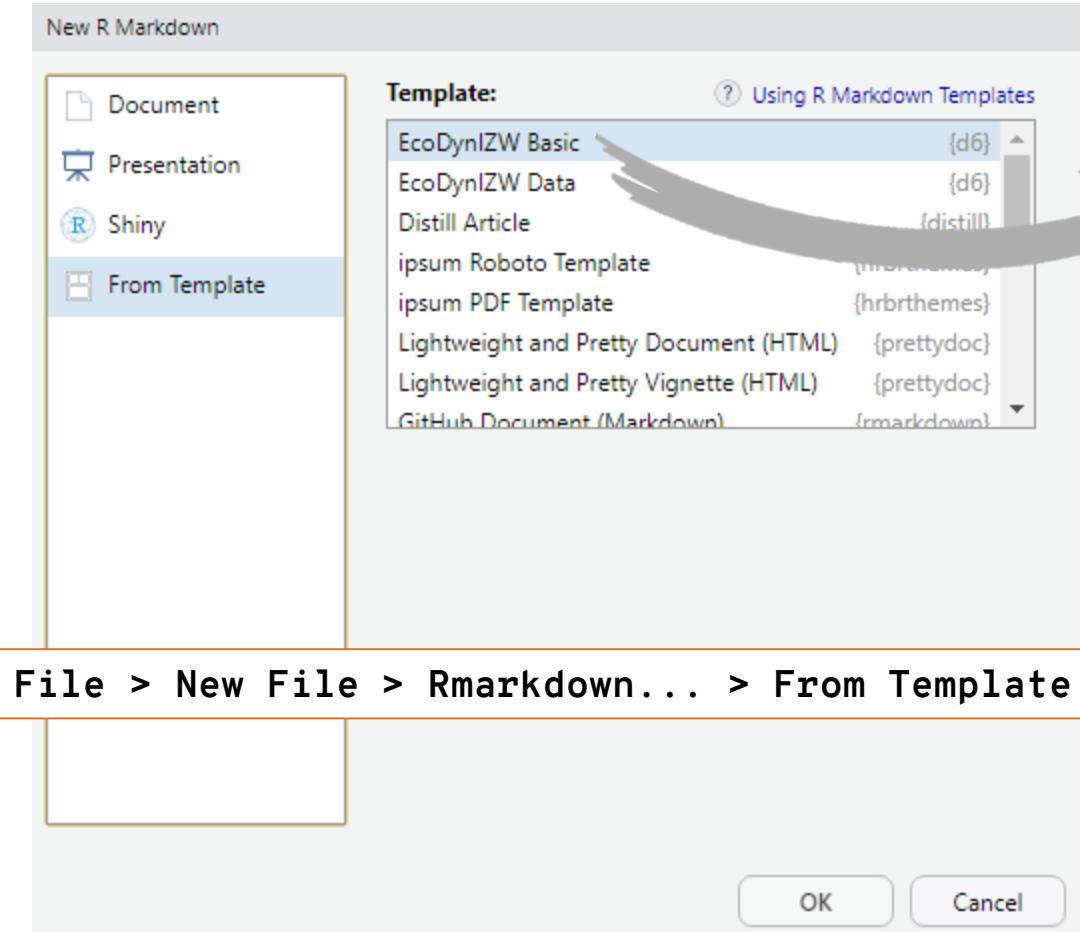
## Add and fill the readme
usethis::use_readme_md()

## Add license if needed
## See ?usethis::use_mit_license for more information
usethis::use_mit_license( name = "Your Name" )

## ADD PACKAGE DEPENDENCIES ----

## Add one line by package you want to add as dependency
usethis::use_package("tidyverse")
```

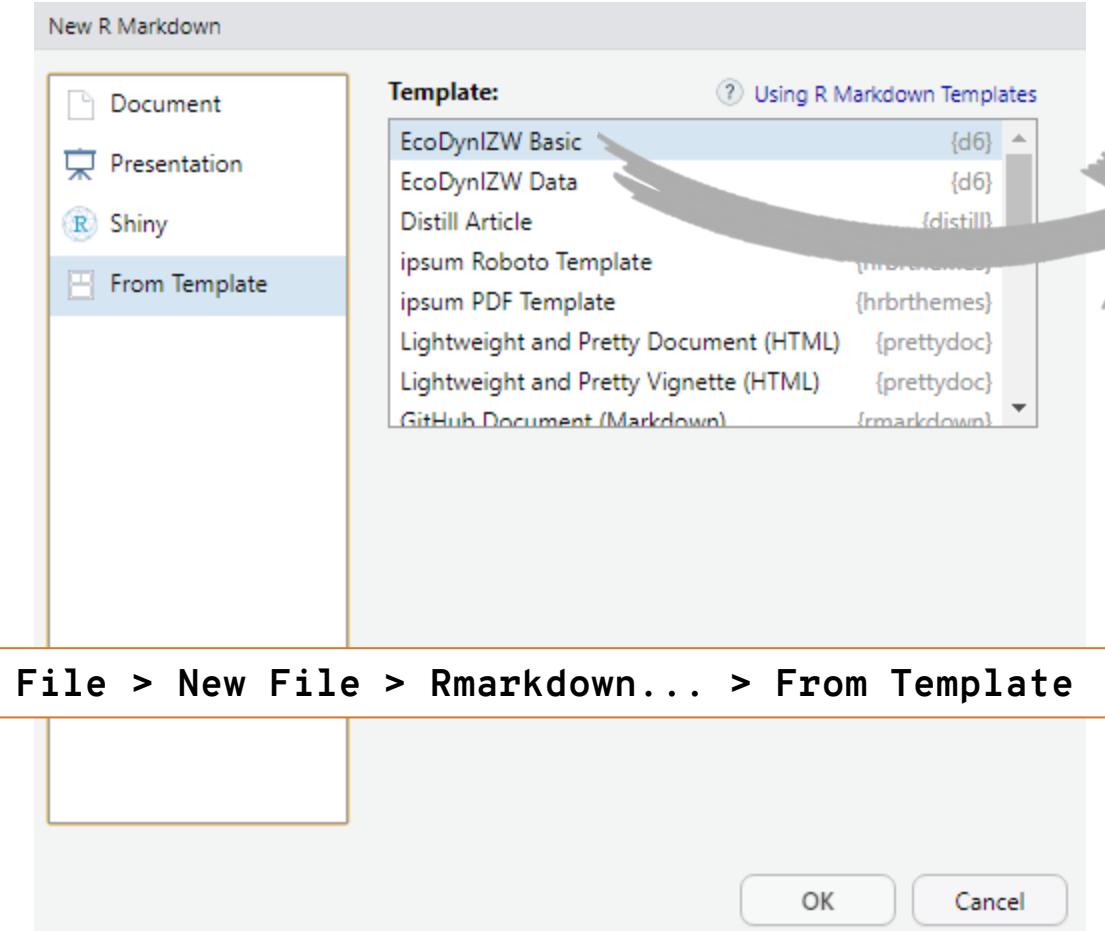
STANDARDIZED RMARKDOWN TEMPLATES



File > New File > Rmarkdown... > From Template

```
1 ---  
2 title: "Your Project: Data Preparation" ## name of your project  
3 author: "Your Name" ## your name(s)  
4 date: ``r Sys.Date()`` ## current date  
5 output:  
6   rmdformats::readthedown:  
7     code_folding: hide ## hide or show code by default?  
8     toc_depth: 3 ## 3-level TOC  
9 ---  
10 ---{r setup, include=FALSE}  
11 ## You can ignore this chunk in most cases  
12 ## If you want to modify chunk options, you can do it here for all chunks or  
13 ## add the options in the respective chunk header, e.g. `r, message = FALSE`  
14 knitr::opts_chunk$set(echo = TRUE, warning = TRUE, message = TRUE,  
15   fig.width = 9, fig.height = 6, dpi = 500,  
16   retina = 1, fig.showtext = TRUE)  
17 ---  
18  
19 * **Research question:**  
20 * **Study area:**  
21 * **Data:**  
22  
23  
24 # Setup  
25 ---{r packages}  
26 ## for non-CRAN packages please keep install instruction  
27 ## but commented so it is not run each time, e.g.  
28 # devtools::install_github("EcoDynIZW/template")  
29  
30 ## libraries used in this script  
31 ## please add ALL LIBRARIES NEEDED HERE  
32 ## please remove libraries from the list that are not needed anymore  
33 ## at a later stage  
34 library()  
35  
36  
37  
38  
39 # Data  
40 ---{r data}  
41 #df <- readr::read_csv("your-data.csv")  
42 #sf <- sf::read_sf("your-geo-data.shp")  
43 ...  
44  
45  
46  
47 ***  
48  
49 <details><summary>Session Info</summary>  
50  
51 ---{r sessionInfo}  
52 ## DO NOT REMOVE!  
53 ## We store the settings of your computer and the current versions of the  
54 ## packages used to allow for reproducibility  
55 Sys.time()  
56 #git2r::repository() ## uncomment if you are using GitHub  
57 sessionInfo()  
58 ...  
59  
60  
61 </details>
```

STANDARDIZED RMARKDOWN TEMPLATES



Your Project

Setup
Data
Results

Using R Markdown Templates

EcoDynamZ Basic {d6}

EcoDynamZ Data {d6}

Distill Article {distill}

ipsum Roboto Template {hrbrthemes}

ipsum PDF Template {hrbrthemes}

Lightweight and Pretty Document (HTML) {prettydoc}

Lightweight and Pretty Vignette (HTML) {prettydoc}

Github Document (Markdown) {rmarkdown}

Your Name
2020-10-05

Your Project

- Research question: Is unicorn abundance is correlated with the presence of muffin flowers?
- Study area: Sugarland
- Data: Camera traps, Corine Land Cover classes, Presence/Absence data muffin flowers (10x10m)

Setup

Data

Camera-Trap Data

We conducted a camera trap survey covering an area of...

Code

Code

Code

Code

Geo Data

To extract landuse classes, we use the data provided by...

Code

Results

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Session Info

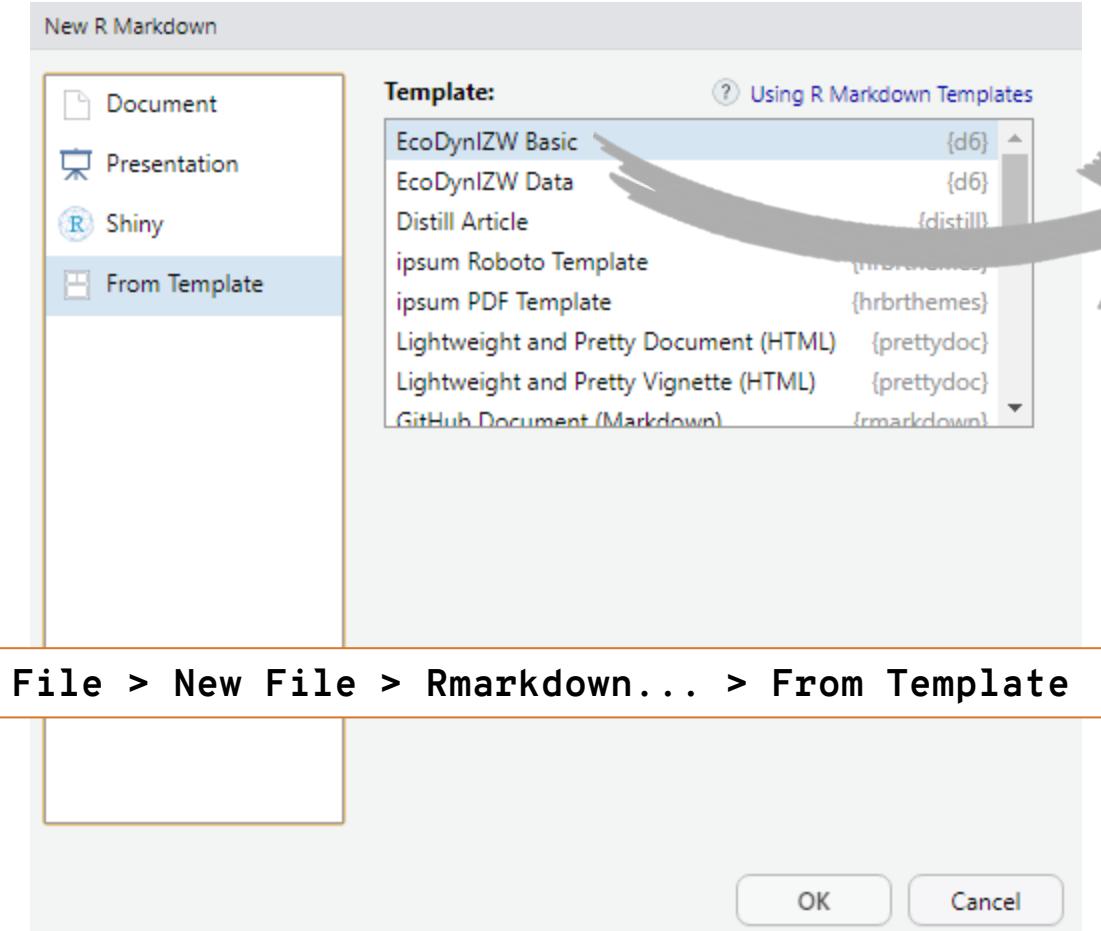
```
## [1] "2020-10-05 10:34:43 CEST"
```

Code

```
## R version 4.0.2 (2020-06-22)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 18362)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=German_Germany.1252 LC_CTYPE=German_Germany.1252
## [3] LC_MONETARY=German_Germany.1252 LC_NUMERIC=C
## [5] LC_TIME=German_Germany.1252
## system code page: 65001
##
## attached base packages:
## [1] stats      graphics   grDevices utils      datasets   methods   base
## 
## loaded via a namespace (and not attached):
## [1] bookdown_0.20    svgsfonts_0.8.1   showtextdb_3.0   digest_0.6.25
```

Code

STANDARDIZED RMARKDOWN TEMPLATES



File > New File > Rmarkdown... > From Template

Your Project

Setup
Data
Results

Code

Your Project

- Research question: Is unicorn abundance is correlated with the presence of muffin flowers?
- Study area: Sugarland
- Data: Camera traps, Corine Land Cover classes, Presence/Absence data muffin flowers (10x10m)

Setup

Code

Data

Camera-Trap Data

We conducted a camera trap survey covering an area of...
Code

Geo Data

To extract landuse classes, we use the data provided by...
Code

Results

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Session Info

Code

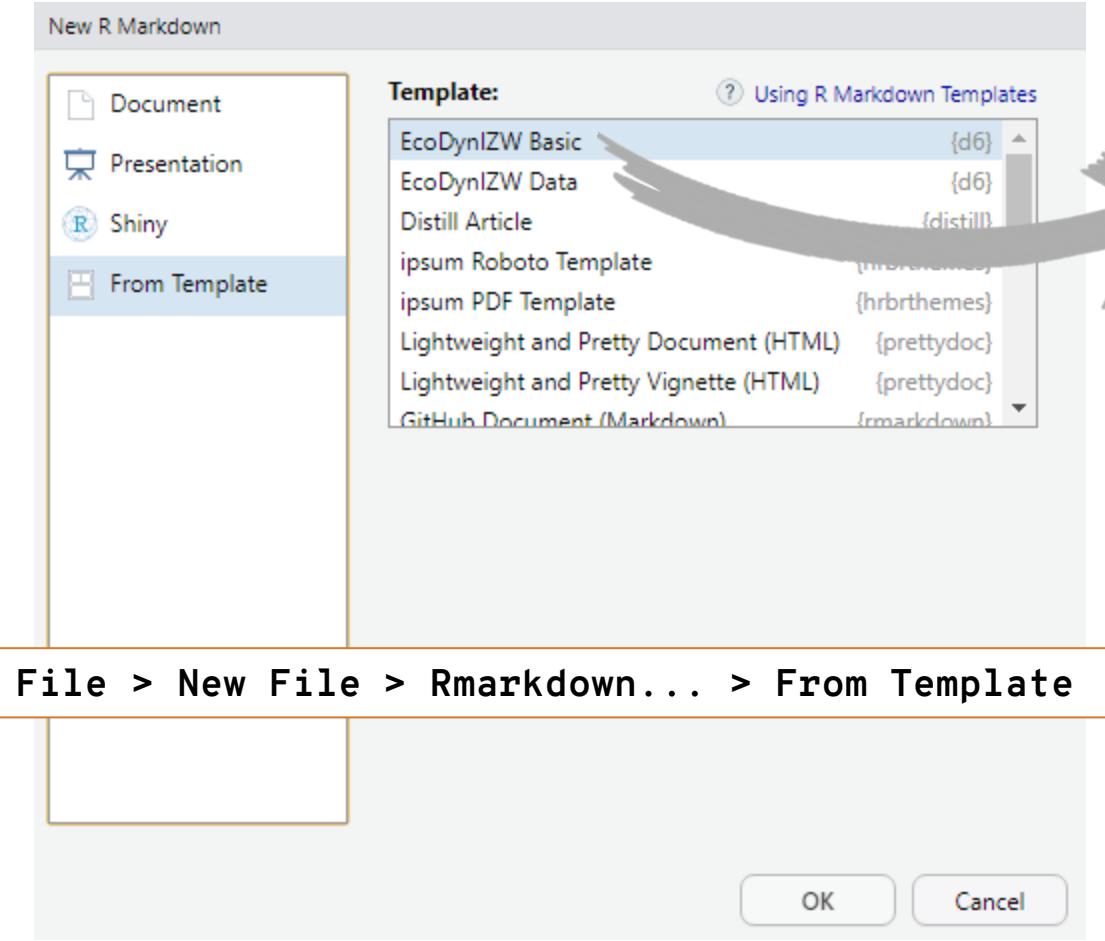
```
## [1] "2020-10-05 10:34:43 CEST"
```

Code

```
## R version 4.0.2 (2020-06-22)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 18362)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=German_Germany.1252 LC_CTYPE=German_Germany.1252
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## [5] LC_TIME=German_Germany.1252
## system code page: 65001
##
## attached base packages:
## [1] stats      graphics   grDevices utils      datasets   methods    base
## 
## loaded via a namespace (and not attached):
## [1] bookdown_0.20    svgsfonts_0.8.1   showtextdb_3.0   digest_0.6.25
```

Your Name
2020-10-05

STANDARDIZED RMARKDOWN TEMPLATES



The screenshot shows a RMarkdown document titled "Camera-Trap Data". The document includes sections for "Setup" (Data, Camera-Trap Data, Geo Data, Results), "Geo Data" (with code: `df_traps <- read_csv("Your Data")`), and "Results" (with placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur."). A red box highlights the "Geo Data" section. Another red box highlights the "Session Info" section, which contains the following R code:

```
## DO NOT REMOVE!
## We store the settings of your computer and the current versions of the
## packages used to allow for reproducibility
Sys.time()
```

Below this are the session details and system information:

```
## [1] "2020-10-05 10:34:43 CEST"
sessionInfo()
## R version 4.0.2 (2020-06-22)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 10 x64 (build 18362)
##
## Matrix products: default
##
## locale:
## [1] LC_COLLATE=German_Germany.1252 LC_CTYPE=German_Germany.1252
## [3] LC_MONETARY=German_Germany.1252 LC_NUMERIC=C
## [5] LC_TIME=German_Germany.1252
## system code page: 65001
##
## attached base packages:
## [1] stats      graphics   grDevices  utils      datasets   methods    base
##
## loaded via a namespace (and not attached):
## [1] bookdown_0.20  sysfonts_0.8.1  showtextdb_3.0  digest_0.6.25
## [5] magrittr_1.5   evaluate_0.14  rmdformats_0.3.7 rlang_0.4.7
## [9] stringi_1.4.6  markdown_2.3   tools_4.0.2    stringr_1.4.0
## [13] shouttext_0.8.1 xfun_0.16     yaml_2.2.1    compiler_4.0.2
## [17] base64enc_0.1.3 htmltools_0.5.0  knitr_1.29
```



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STANDARDIZED RMARKDOWN TEMPLATES

New R Markdown

Document

Presentation

Shiny

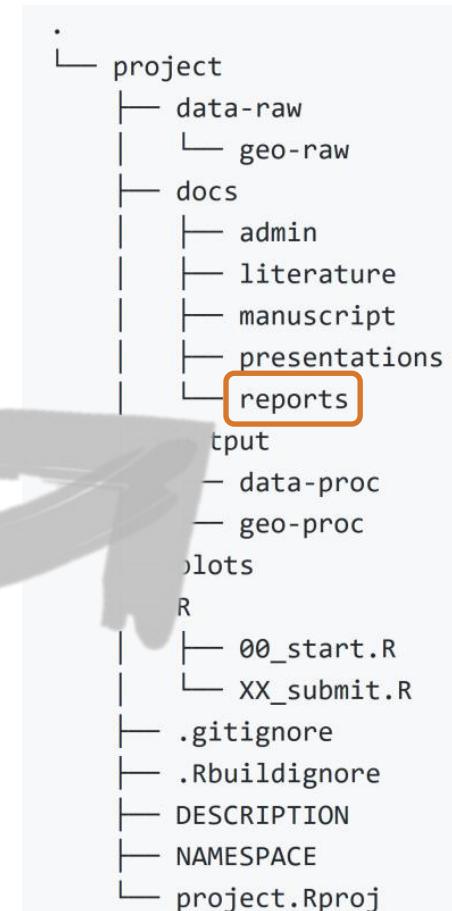
From Template

Template: Using R Markdown Templates

- EcoDynlZW Basic {d6}
- EcoDynlZW Data {d6}
- Distill Article {distill}
- ipsum Roboto Te {hrbrthemes}
- ipsum PDF Template {hrbrthemes}
- Lightweight and Pretty Report (HTML) {prettydoc}
- Lightweight and Pretty Vignette (HTML) {prettydoc}
- Github Document (Markdown) {rmarkdown}

```
render_all_reports()  
render_report("1_data.rmd")
```

OK Cancel



STANDARDIZED RMARKDOWN TEMPLATES

YOUR TURN

Open a template.
Add some details and/or code.

STANDARDIZED RMARKDOWN TEMPLATES

YOUR TURN

Render the Rmarkdown file via

- the knit button
- `d6::render_all()`

STANDARDIZED RMARKDOWN TEMPLATES

File Edit Code View Plots Session Build Debug Profile Tools Help

+ - ABC Go to file/function Addins

Untitled1 x Knit

```
1 ---  
2 title: "Your Project: Data Preparation" ## name of your project  
3 author: "Your Name" ## your name(s)  
4 date: "`r Sys.Date()`" ## current date  
5 output:  
6   rmdformats::readthedown:  
7     code_folding: hide ## hide or show code by default?  
8     toc_depth: 3 ## 3-level TOC  
9 ---  
10 ````{r setup, include=FALSE}  
11 ## You can ignore this chunk in most cases  
12 ## If you want to modify chunk options, you can do it here for all chunks or  
13 ## add the options in the respective chunk header, e.g. `r, message = FALSE`  
14 knitr::opts_chunk$set(echo = TRUE, warning = TRUE, message = TRUE,  
15   fig.width = 9, fig.height = 6, dpi = 500,  
16   retina = 1, fig.showtext = TRUE)  
17 ````  
18  
19 * **Research question:**  
20 * **Study area:**  
21 * **Data:**  
22  
23  
24
```



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XX_SUBMIT.R

```
## Render your scripts to html
## Render all .Rmd files placed in ./R
d6::render_all_reports()
## Or render each step by step
## Add additonal lines for each .Rmd file placed in ./R that you want to render
d6::render_report("myRMD.Rmd")
```

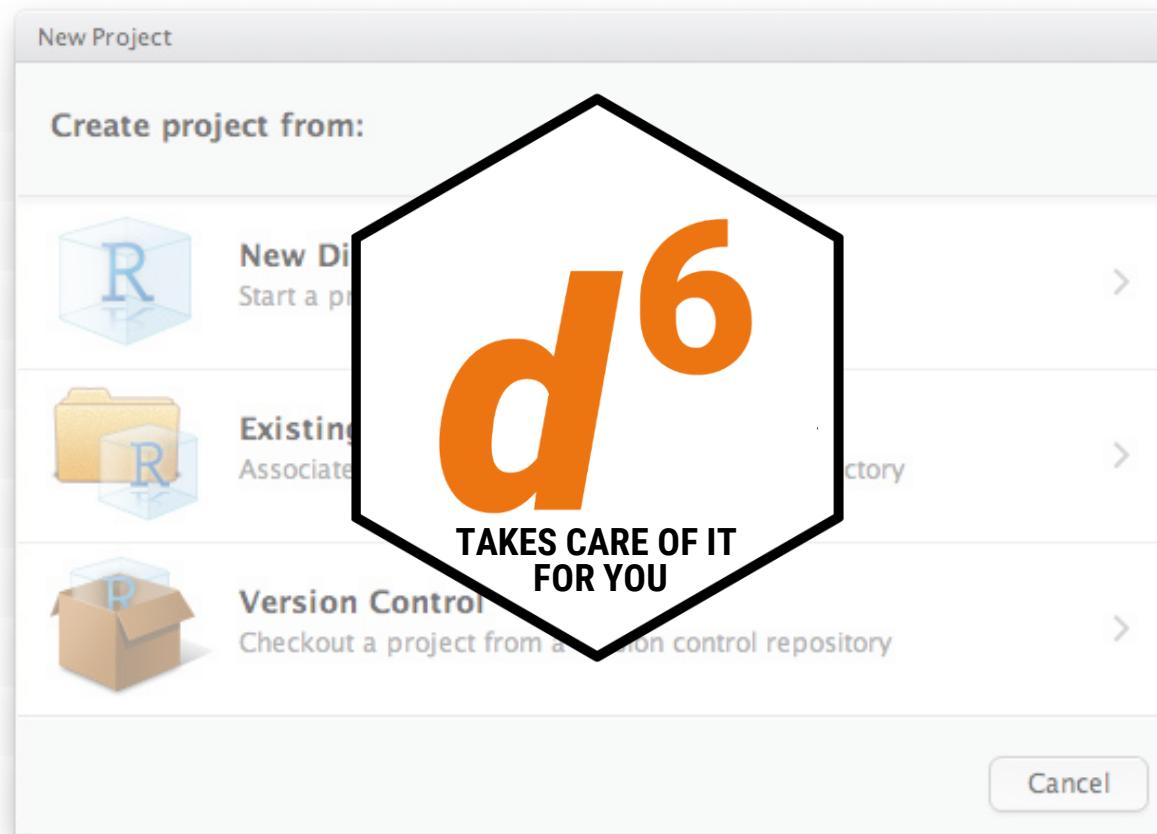
R PROJECTS

```
└── project
    ├── .Rproj.user
    ├── data-raw
    │   └── geo-raw
    ├── docs
    │   ├── admin
    │   ├── literature
    │   ├── manuscript
    │   ├── presentations
    │   └── reports
    ├── output
    │   ├── data-proc
    │   └── geo-proc
    ├── plots
    ├── R
    │   ├── 00_start.R
    │   └── XX_submit.R
    ├── .gitignore
    ├── .Rbuildignore
    ├── DESCRIPTION
    ├── NAMESPACE
    └── project.Rproj
```

- Rproject files
- raw data (tabular data in root folder)
 - raw spatial data
- documents
 - administrative docs, e.g. permits
 - literature used for parameterization + ms
 - manuscript drafts (main + supplement)
 - talks and poster presentations
 - rendered reports
- everything that is computed (except plots)
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 - processed spatial data
- plot output
- scripts
 - start script to run
 - final script to run
- contains which files to ignore for version control
- contains which files to ignore for package builds
- contains project details and package dependencies
- contains context for R objects
- **Rproject file: use to start your project**

R PROJECTS

R projects make it straightforward to divide your work into multiple contexts, each with their own working directory, workspace, history, and source documents.





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R PROJECTS

`here::here()` works like `file.path()`

but the path root is implicitly set to

“the path to the top-level of my current project”

`project.Rproj`

R PROJECTS

`here::here()` works like `file.path()`

but the path root is implicitly set to
“the path to the top-level of my current project”

```
> setwd("C:/Users/Mustermann/R/project")
> file.path(paste0(getwd(), "/output/results.csv"))
[1] "C:/Users/Mustermann/R/project/output/results_csv"
```

R PROJECTS

`here::here()` works like `file.path()`

but the path root is implicitly set to
“the path to the top-level of my current project”

```
> setwd("C:/Users/Mustermann/R/project")
> file.path(paste0(getwd(), "/output/results.csv"))

> here::here()
[1] "C:/Users/Mustermann/R/project/"
> here::here("output", "results.csv")
[1] "C:/Users/Mustermann/R/project/output/results.csv"
```

R PROJECTS

glue::glue() works like paste0()

but using R expressions in curly braces which are then evaluated

```
> n <- 1
> file.path(paste0(getwd(), "/output/run_", n, "results.csv"))
[1] "C:/Users/Mustermann/R/project/output/run_1/results.csv"
```

R PROJECTS

glue::glue() works like paste0()

but using R expressions in curly braces which are then evaluated

```
> n <- 1
> file.path(paste0(getwd(), "/output/run_", n, "results.csv"))

> here::here("output", glue::glue("run{n}"), "results.csv")
[1] "C:/Users/Mustermann/R/project/output/run_1/results.csv"
```



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VERSION CONTROL

MERGE BRANCHING PULL REQUEST
FORK COMMIT MAIN
REPOSITORY PUSH .GITIGNORE
CLONE FETCH README
GIT REMOTE

ver·sion con·trol

/'və:s(ə)n / / kən'trəʊl/

A system that **records changes** to a file or set of files **over time** so that you can recall specific versions later.

USE VERSION CONTROL



```
1_data.R
analysis.R
analysis_glmm_050320.R
analysis_glmm_210320_final.R
analysis_glmm_210320_final_v2.R
Copy mail metadata Steph.txt
plot_glmm.Rmd
shapefile_wonderland.zip
unicorn-2015.xls
unicorn-2016.xls
```

```
└── geo-proc
    └── wonderland_tcd_clean.geojson
└── plots
    ├── 01_glmm.pdf
    ├── 01_glmm_rerun.pdf
    └── 01_glmm_rerun_presentation.png
└── R
    ├── 01_data_import.Rmd
    └── 02_analysis_glmm.Rmd
```



History for d6 / R / new_project.R

Commits on Oct 8, 2020

🟡 github setup working now 🎉

 Z3tt committed 31 minutes ago

600d6cd

🔗

🟡 fix usethis::use_github in new_project

 Z3tt committed 1 hour ago

5f25523

🔗

Commits on Oct 1, 2020

🟡 move readme to start script

 Z3tt committed 7 days ago

45d0acd

🔗

🔴 fix readme new_project()

 Z3tt committed 7 days ago

7511113

🔗

🟡 use utils (no golem dep) and add new dir structure

 Z3tt committed 7 days ago

340d511

🔗

Commits on Sep 16, 2020

🟡 rename start script

 Z3tt committed 22 days ago

0fcfd0a2

🔗

🟡 add option for spatial data (or not)

 Z3tt committed 22 days ago

86499ca

🔗

🟡 allow path with andwithout / at the end

 Z3tt committed 22 days ago

0b1b34b

🔗

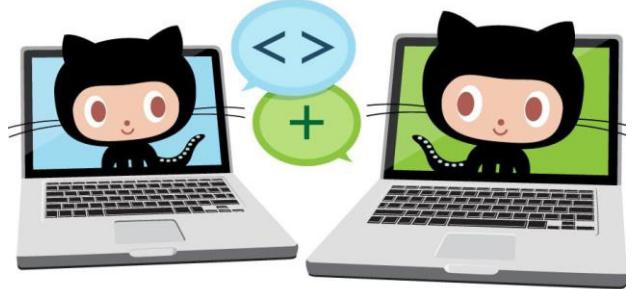
🟡 D6 template package

 Z3tt committed 22 days ago

932aa06

🔗

USE VERSION CONTROL

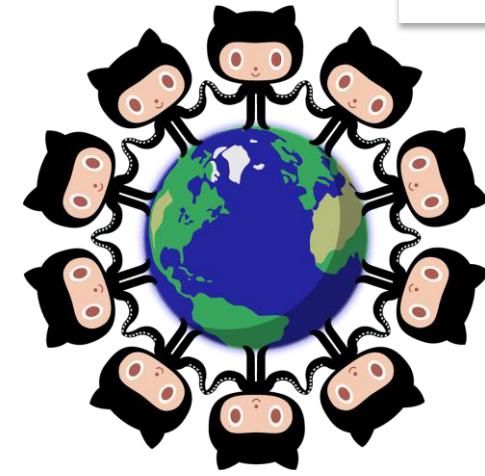


```
1_data.R
analysis.R
analysis_glmm_050320.R
analysis_glmm_210320_final.R
analysis_glmm_210320_final_v2.R
Copy mail metadata Steph.txt
plot_glmm.Rmd
shapefile_wonderland.zip
unicorn-2015.xls
unicorn-2016.xls
```

```

    └── unicorn_merged.csv
    └── geo-proc
        └── wonderland_tcd_clean.geojson
    └── plots
        ├── 01_glmm.pdf
        ├── 01_glmm_rerun.pdf
        └── 01_glmm_rerun_presentation.png
    └── R
        ├── 01_data_import.Rmd
        └── 02_analysis_glmm.Rmd
```

USE VERSION CONTROL



```
1_data.R
analysis.R
analysis_glmm_050320.R
analysis_glmm_210320_final.R
analysis_glmm_210320_final_v2.R
Copy mail metadata Steph.txt
plot_glmm.Rmd
shapefile_wonderland.zip
unicorn-2015.xls
unicorn-2016.xls
```

```
└── geo-proc
    └── wonderland_tcd_clean.geojson
└── plots
    ├── 01_glmm.pdf
    ├── 01_glmm_rerun.pdf
    └── 01_glmm_rerun_presentation.png
└── R
    ├── 01_data_import.Rmd
    └── 02_analysis_glmm.Rmd
```

Git is a distributed open-source version control system, created by Linus Torvalds in 2005.

Generally, git requires use of command line tools.



GitHub offers a cloud-based Git repository hosting service.

GitHub's interface is user-friendly enough so even novice coders can take advantage of git.

guides.github.com/activities/hello-world



Search or jump to...

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Z3tt

Repositories



Find a repository...

[EcoDynlZW/d6](#)[Z3tt/TidyTuesday](#)[Z3tt/TempResRSF](#)[CorrelAid/xberlin](#)[Z3tt/bespokeDS](#)[Z3tt/Z3tt](#)[frontpagedata/2020-Improve-Graphs](#)

Show more

Your teams

You don't belong to any teams yet!



mdsumner starred PsichiX/density-mesh 18 minutes ago

PsichiX/density-mesh

Image density/height map to mesh generator

Rust ⭐ 48 Updated Oct 11



oliviergimenez starred selinaZitrone/YoMos2020 2 hours ago

selinaZitrone/YoMos2020

Example of Good Scientific Programming Practice

R ⭐ 3 Updated Oct 11



matthewhirshey pushed to matthewhirshey/ddh.com 15 hours ago

1 commit to master

bfdd9ca remove vroom



Nowosad starred mdsumner/lazysf 21 hours ago

mdsumner/lazysf

Delayed Read for GDAL Vector Data Sources

R ⭐ 5 Updated Oct 10



rCarto starred mdsumner/mbr 21 hours ago

mdsumner/mbr

Compute the Minimum Bounding Rectangle

R ⭐ 4 Updated Oct 10



bianchenhao starred Z3tt/TidyTuesday yesterday

Z3tt/TidyTuesday

My contributions to the #TidyTuesday challenge

R ⭐ 327 Updated Oct 10



moldach starred fjukstad/seq yesterday

fjukstad/seq

different tools for rna/whole exome seq analysis



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Projects, ideas, & code to go. Available natively for Android and iOS.



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Brought to you by GitHub Jobs

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[ropensci/plotly](#)

An interactive graphing library for R

R ⭐ 1.8k

[material-shell/material-shell](#)

A modern desktop interface for Linux. Improve your user experience and get rid of the anarchy of traditional desktop workflows. Designed to simplify navigation and reduce the need to manipulate win...

JavaScript ⭐ 4.7k

[Ciphey/Ciphey](#)

⚡ Automatically decrypt encryptions without knowing the key or cipher, decode encodings, and crack hashes ⚡

Python ⭐ 4.9k

Explore more →



Cédric Scherer

Z3tt

Computational Ecologist & Data Visualization Designer

Edit profile

311 followers · 82 following · 257

Home · IZW Berlin

Berlin

cedricphilipscherer@gmail.com

cedricscherer.netlify.app

Highlights

Arctic Code Vault Contributor

PRO

Organizations



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Hi, I'm Cédric! 👋

[Blog](#) | [Email](#) | [Twitter](#) | [Behance](#) | [LinkedIn](#)

Pinned

TidyTuesday

My contributions to the #TidyTuesday challenge

R ⭐ 327 📈 62

DataViz-Teaching

Visualizations for DataViz Teaching

R ⭐ 21 📈 3

ropensci/NLMR

R package to simulate neutral landscape models

R ⭐ 50 📈 14

Customize your pins

30DayMapChallenge

My contributions to the #30DayMapChallenge

QML ⭐ 91 📈 17

ggplot-courses

ggplot2 Teaching Material

R ⭐ 27 📈 10

CorrelAid/xberlin

A shiny app to explore accidents in Germany as well as bicycle infrastructure and bike accidents Berlin.

R ⭐ 8 📈 4

1,979 contributions in the last year

Contribution settings ▾

2020

2019

2018

2017

2016

2015

2014



Learn how we count contributions.

Less 📈 More

Activity overview

Contributed to Z3tt/Z3tt, Z3tt/TidyTuesday, Z3tt/TempResRSF and 5 other repositories

Code review



Search or jump to...

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Ecological Dynamics Department

Berlin <https://ecological-dynamics-izw.com/> [@EcoDynIZW](#)[Repositories 7](#)[Packages](#)[People 5](#)[Teams](#)[Projects 3](#)[Settings](#) Find a repository...

Type: All

Language: All

Customize pins

[New](#)**d6**

Simplify Workflows of D6 Research Projects

[R](#) 0 ⚡ 0 ⭐ 0 ⓘ 0 ⏱ 0 Updated 2 days ago**Marescot_2020_bioRxiv**

"Keeping the kids at home" can limit the persistence of contagious pathogens in social animals (doi: 10.1101/2020.04.11.036806)

[NetLogo](#) 0 ⚡ 0 ⭐ 1 ⓘ 0 ⏱ 0 Updated 13 days ago**Benhaiem_2018_CommsBio**

"Slow recovery from a disease epidemic in the spotted hyena, a keystone social carnivore" (doi: 10.1038/s42003-018-0197-1)

[R](#) 0 ⚡ 0 ⭐ 1 ⓘ 0 ⏱ 0 Updated 20 days ago**Scherer_2020_OIKOS**

"Moving infections: individual movement decisions drive disease persistence in spatially structured landscapes" (doi: 10.1111/oik.07002)

[csf](#) [rstats](#) [disease](#) [agent-based-modeling](#) [netlogo](#) [disease-spread](#)
[animal-movement](#)[NetLogo](#) 0 ⚡ 0 ⭐ 0 ⓘ 0 ⏱ 0 Updated 20 days ago**Bellack_Movement_FelisSilvestris** Private

BSc thesis Bellack Felis sylvestris space use

0 ⚡ 0 ⭐ 0 ⓘ 0 ⏱ 0 Updated on 7 Aug

SwiFCoIBM Private

NetLogo version of SwiFCoIBM without explicit movement (used for IBM Book)

Top languages

[R](#) [NetLogo](#) [HTML](#)

Most used topics

Manage

[agent-based-modeling](#) [disease](#)
[netlogo](#) [rstats](#)
[spatially-explicit-models](#)

People

5 >

[Invite someone](#)



Leibniz Institute for
Zoo and Wildlife Research
IN THE FORSCHUNGSGESELLSCHAFT BERLIN E.V.

Member of the

Leibniz Association

REPOSITORIES

A **repository** is usually used to organize a single project.

Repositories can contain folders and files, images, videos, spreadsheets, and data sets – anything your project needs*

* below 100MB...



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EcoDynlZW / Scherer_2020_OIKOS

Unwatch 1

Star 0

Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master

1 branch

1 tag

Go to file

Add file

Code

Z3tt update readme

f7cc39d 20 days ago 22 commits

📁 R	R scripts + source files	2 years ago
📁 model	clean-up	14 months ago
📁 simulations	model + related files	2 years ago
📄 .gitattributes	Initial commit	2 years ago
📄 .gitignore	update gitignore	2 years ago
📄 0_calibration.Rmd	⚠️ changes for major rev oikos	9 months ago
📄 1_nlms.Rmd	⚠️ changes for major rev oikos	9 months ago
📄 2_data.Rmd	⚠️ some clean up	12 months ago
📄 3_expl-plots.Rmd	⚠️ some clean up	12 months ago
📄 4_final-plots.Rmd	⚠️ changes for major rev oikos	9 months ago
📄 README.md	📝 update readme	20 days ago
📄 SwiFCoIBMove.Rproj	renaming	2 years ago

README.md

Scherer et al. 2020 OIKOS SwiFCoIBMove

Cédric Scherer, Viktoriia Radchuk, Mathias Franz, Hans-Hermann Thulke, Martin Lange, Volker Grimm & Stephanie Kramer-Schadt (2020) Moving infections: individual movement decisions drive disease persistence in spatially structured landscapes. *Oikos* 129 (5):651–667. DOI: [10.1111/oik.07002](https://doi.org/10.1111/oik.07002)

The spatially explicit agent-based eco-epidemiological model is based on the study by [Kramer-Schadt et al. \(2009\)](#) and subsequent modifications by [Lange et al. \(2012\)](#). In the original model transmission is based on nearest-neighbour group mixing processes, where infection pressure within and between neighbouring groups is based on constant transmission probabilities without movement of the host individuals. The modified version presented here assumes explicit phenomenological, fully imposed movement patterns and mechanistic movement based on individual decisions of hosts. In the paper we present essential parts of the model necessary for understanding model outcomes. The full model description following the overview, design concepts and details ('ODD') protocol (Grimm et al. 2006, 2010) is provided in the Supplementary material Appendix 1. The NetLogo model and the R code to analyse the

About



"Moving infections: individual movement decisions drive disease persistence in spatially structured landscapes" (doi: [10.1111/oik.07002](https://doi.org/10.1111/oik.07002))

[agent-based-modeling](#)
[spatially-explicit-models](#) [netlogo](#) [rstats](#)
[disease](#) [disease-spread](#)
[animal-movement](#) [wild-boar](#) [csf](#)

📄 Readme

Releases 1

🔗 [SwiFCoIBMove](#) Latest
on 25 Mar 2019

Packages

No packages published
[Publish your first package](#)

Languages





Search or jump to...

Pull requests Issues Marketplace Explore



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere?
[Import a repository.](#)

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *



Z3tt ▾

Repository name *

2020_scherer_newstudy ✓

Great repository names are short and memorable. Need inspiration? How about [cautious-parakeet](#)?

Description (optional)

Some more detailed explanation of the study, in the end title of paper + DOI

 Public

Anyone on the internet can see this repository. You choose who can commit.

 Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: R ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

This will set  main as the default branch. Change the default name in your [settings](#).

Create repository



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Z3tt / 2020_scherer_newstudy Private

Unwatch 1

Star 0

Fork 0

<>

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main

1 branch

0 tags

Go to file

Add file

Code

Z3tt Initial commit

1c9248e now 1 commits

.gitignore

Initial commit

now

README.md

Initial commit

now

README.md



2020_scherer_newstudy

Some more detailed explanation of the study, in the end title of paper + DOI

About

Some more detailed explanation of the study, in the end title of paper + DOI

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No releases published
Create a new release

Packages

No packages published
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About

CREATE A GITHUB REPOSITORY

The `new_project()` function also has arguments for version control:

```
d6::new_project(  
  name = "project",  
  path = getwd(),  
  github = FALSE,  
  private_repo = TRUE,  
  geo = TRUE  
)
```

CREATE A GITHUB REPOSITORY

The `new_project()` function also has arguments for version control:

```
d6::new_project(  
  name = "project",  
  path = getwd(),  
  github = FALSE,  
  private_repo = TRUE,  
  geo = TRUE  
)
```

CREATE A GITHUB REPOSITORY

To create a corresponding repository set `github = TRUE`:

```
d6::new_project(  
  name = "project",  
  github = TRUE  
)
```

CREATE A GITHUB REPOSITORY

By default the created repository is private, not public:

```
d6::new_project(  
  name = "project",  
  github = TRUE,  
  private_repo = TRUE  
)
```

CREATE A GITHUB REPOSITORY

YOUR TURN

Create a new project
with a private GitHub repository

ADD PERSONAL ACCESS TOKEN

```
### 3. Configure git with Rstudio #####
## set your user name and email:
usethis::use_git_config(user.name = "YourName", user.email = "your@mail.com")

## create a personal access token for authentication:
usethis::browse_github_token() ## or: usethis::create_github_token()

## set personal access token:
credentials::set_github_pat("YourPAT")

## or store it manually in '.Renviron':
usethis::edit_r_environ()``
## store your personal access token with: GITHUB_PAT=xxxxyyzzz
## and make sure '.Renviron' ends with a newline

# -----
#### 4. Verify settings #####
usethis::git_sitrep()

## Your username and email should be stated correctly in the output.
## Also, the report shoud cotain something like:
## 'Personal access token: '<found in env var>'
```

CREATE A GITHUB REPOSITORY

```
✓ Initialising Git repo
✓ Adding '.Rhistory', '.RData' to '.gitignore'
There are 6 uncommitted files:
* '.gitignore'
* '.Rbuildignore'
* '2020_scherer_newstudy.Rproj'
* 'DESCRIPTION'
* 'NAMESPACE'
* 'R/'
✓ Adding files
✓ Commit with message 'Initial commit'
✓ Checking that current branch is 'master'
* Check title and description
Name: 2020_scherer_newstudy
Description: What the Package Does (One Line, Title Case)
✓ Creating GitHub repository
✓ Setting remote 'origin' to 'https://github.com/Z3tt/2020_scherer_newstudy.git'
✓ Adding GitHub links to DESCRIPTION
✓ Setting URL field in DESCRIPTION to 'https://github.com/Z3tt/2020_scherer_newstudy'
✓ Setting BugReports field in DESCRIPTION to 'https://github.com/Z3tt/2020_scherer_newstudy/issues'
✓ Pushing 'master' branch to GitHub and setting remote tracking branch
✓ Opening URL 'https://github.com/Z3tt/2020_scherer_newstudy'
✓ DONE
A new project named 2020_scherer_newstudy was created at C:/Users/Mustermann/R/D6_Package.
To continue working on your project, start editing the 01_start.R file in the new Rstudio session.
```

Version control work-flow



03_plot.Rmd

```
library(ggplot2)
ggplot(df, aes(x, y)) +
  geom_point() +
  ggsave()
```



Ver·sion con·tro·l work·flow



03_plot.Rmd

```
library(ggplot2)
ggplot(df, aes(x, y)) +
  geom_line(aes(color = z)) +
  geom_point(aes(color = z)) +
  ggsave()
```



Version control work-flow

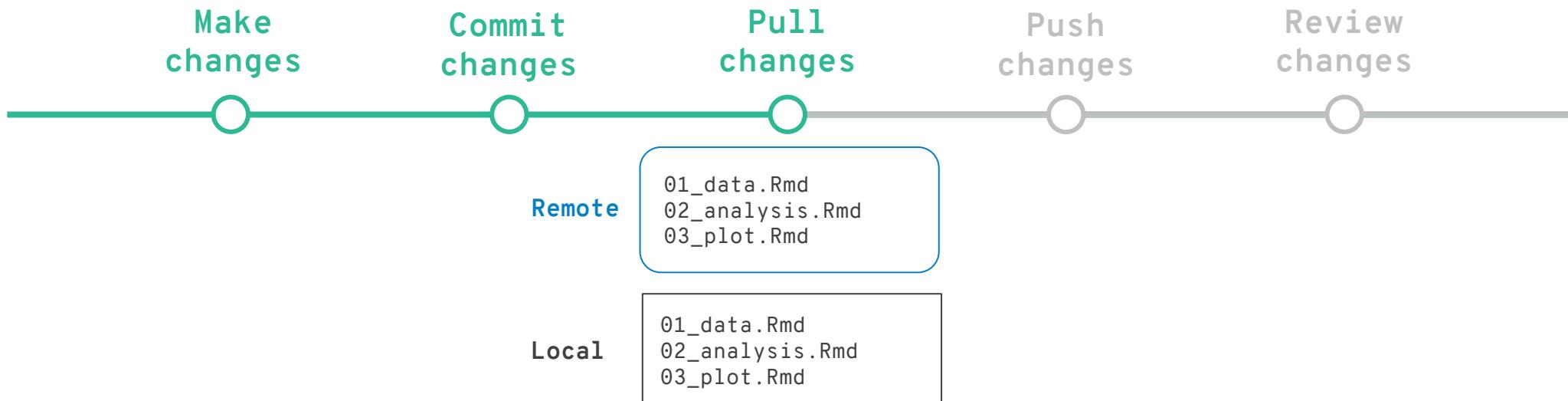


03_plot.Rmd

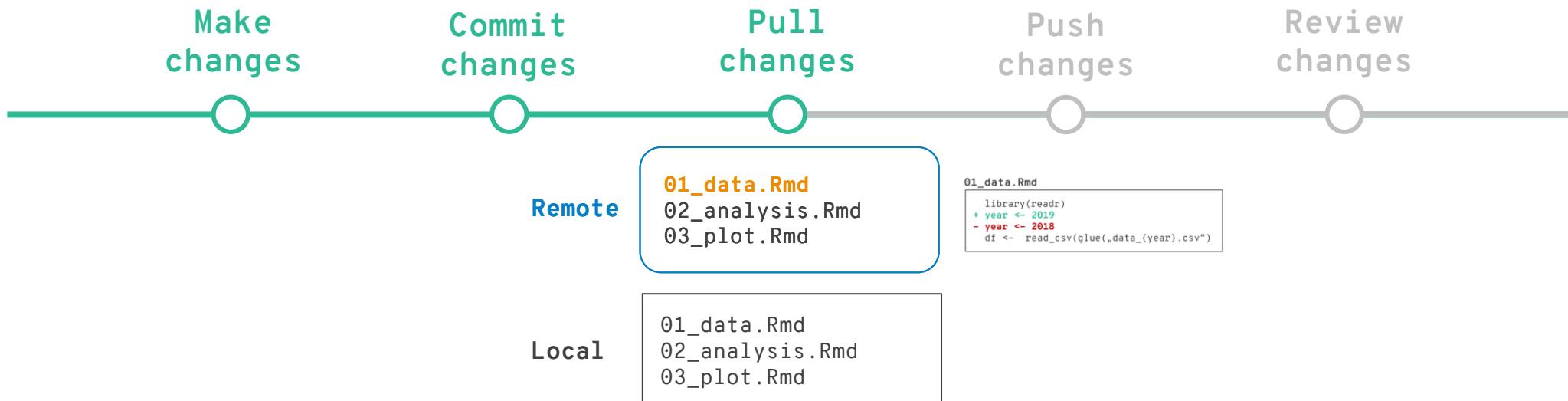
```
library(ggplot2)
ggplot(df, aes(x, y)) +
+   geom_line(aes(color = z)) +
+   geom_point(aes(color = z)) +
-   geom_point() +
ggsave()
```



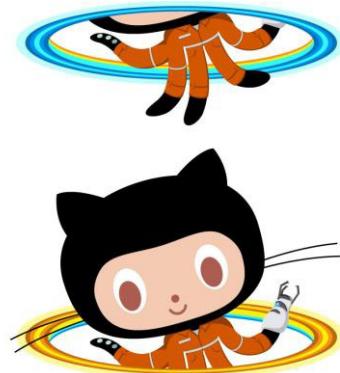
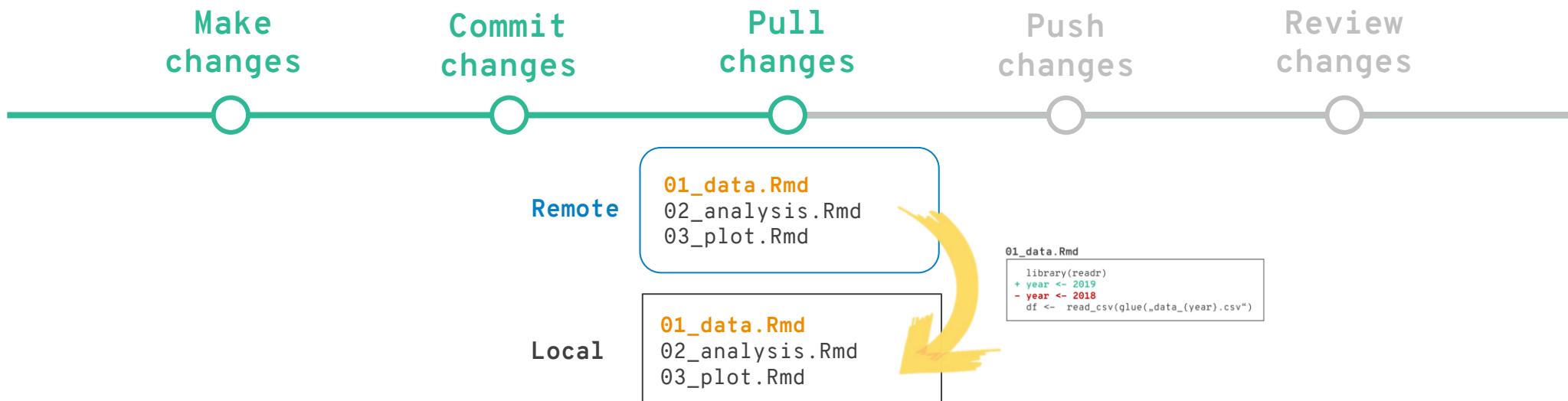
Version control work-flow



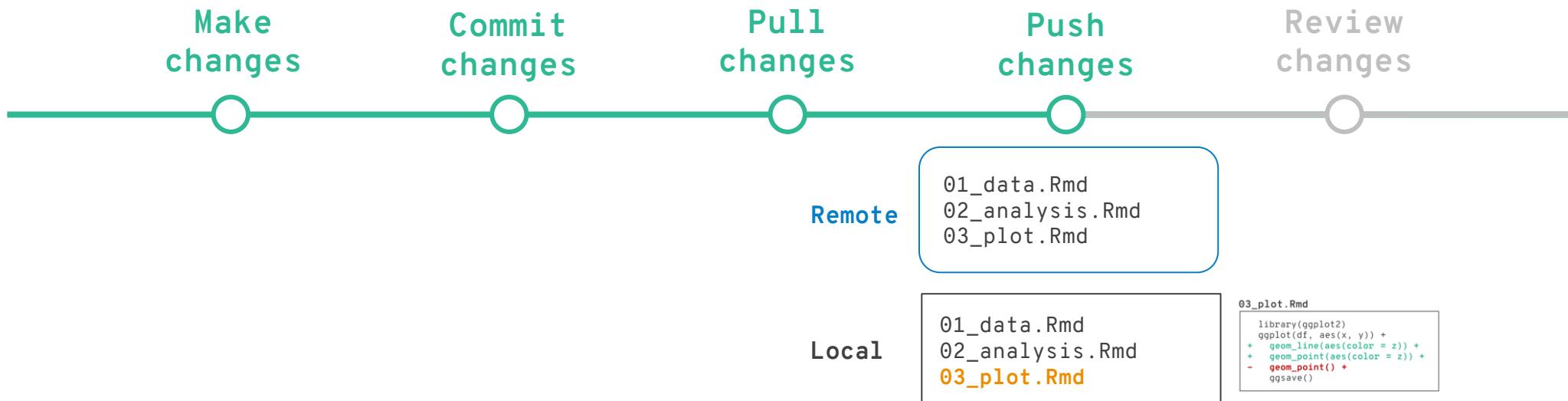
Ver·sion con·tro·l work·flow



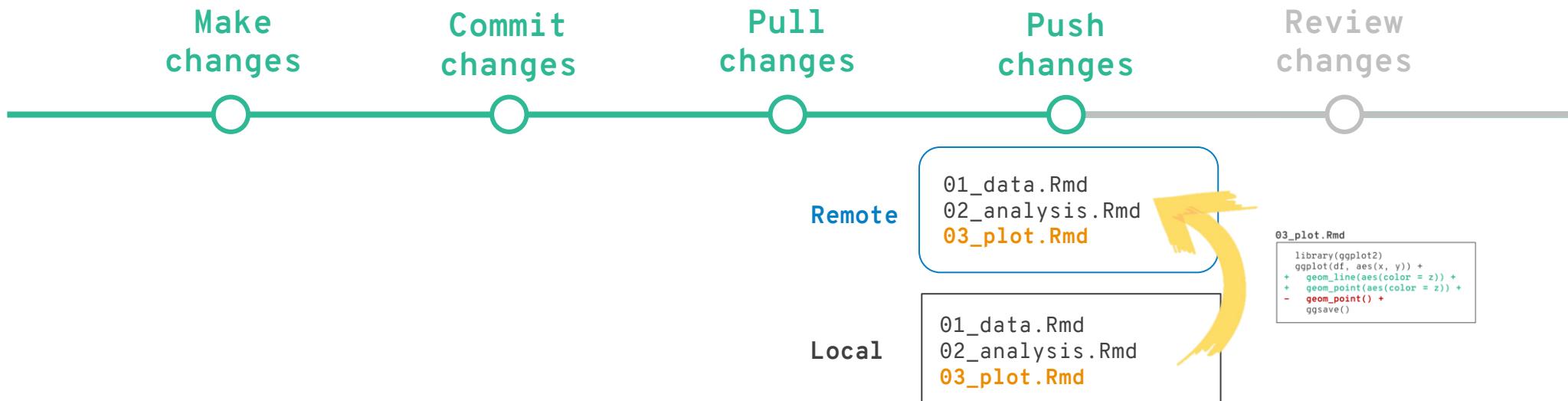
Version control work-flow



Version control work-flow



Version control work-flow

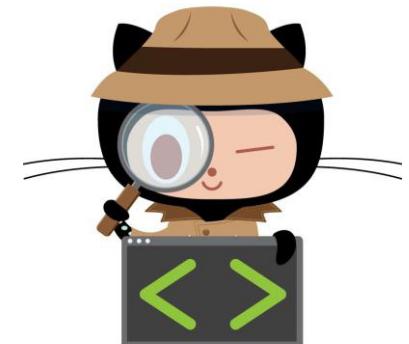


Ver·sion con·tro·l work·flow



03_plot.Rmd

```
library(ggplot2)
ggplot(df, aes(x, y)) +
+   geom_line(aes(color = z)) +
+   geom_point(aes(color = z)) +
-   geom_point() +
ggsave()
```

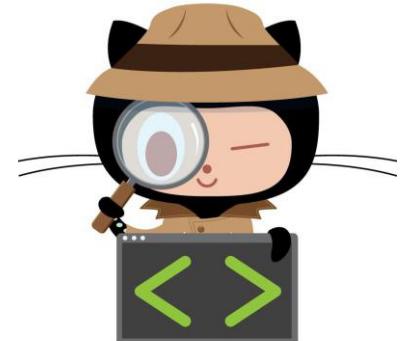


Ver·sion con·tro·l work·flow

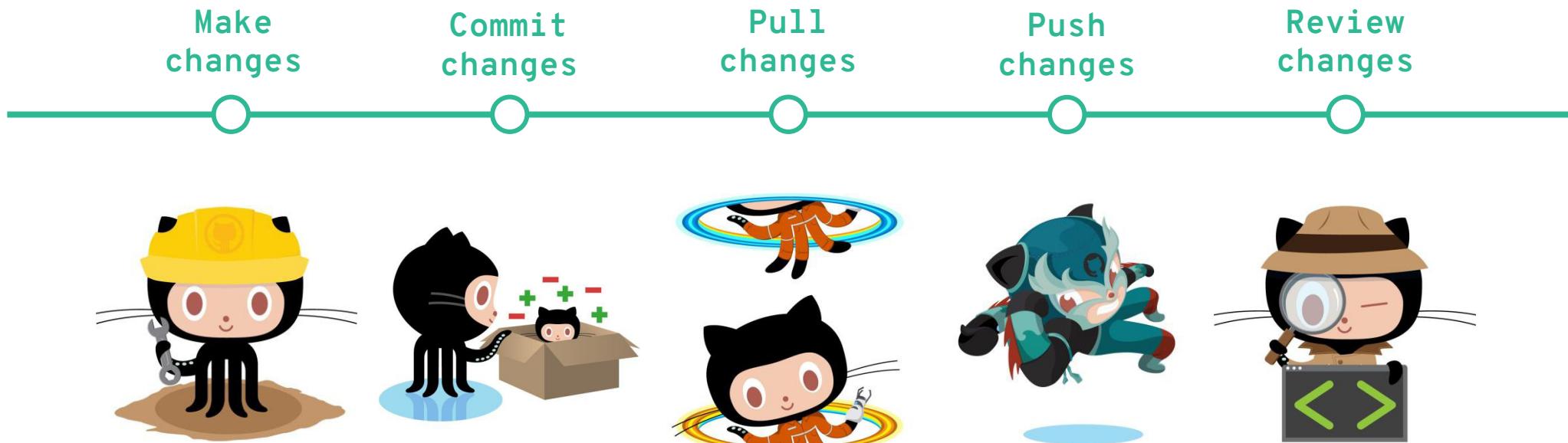


03_plot.Rmd

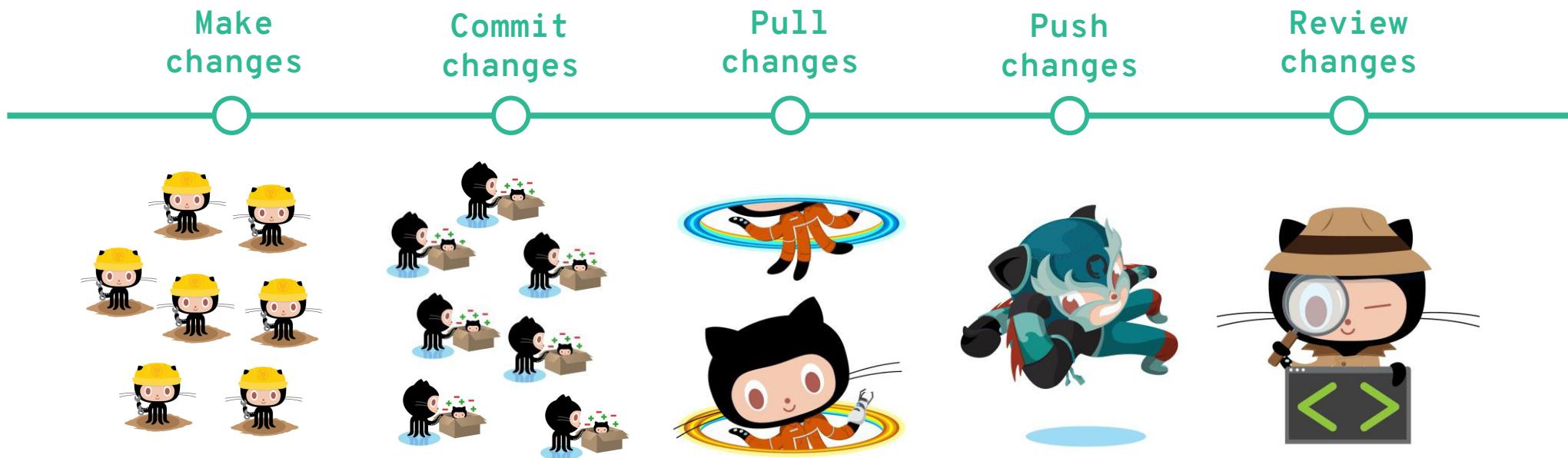
```
library(ggplot2)
ggplot(df, aes(x, y)) +
+   geom_line(aes(color = z)) +
+   geom_point(aes(color = z)) +
-   geom_point() +
ggsave()
```



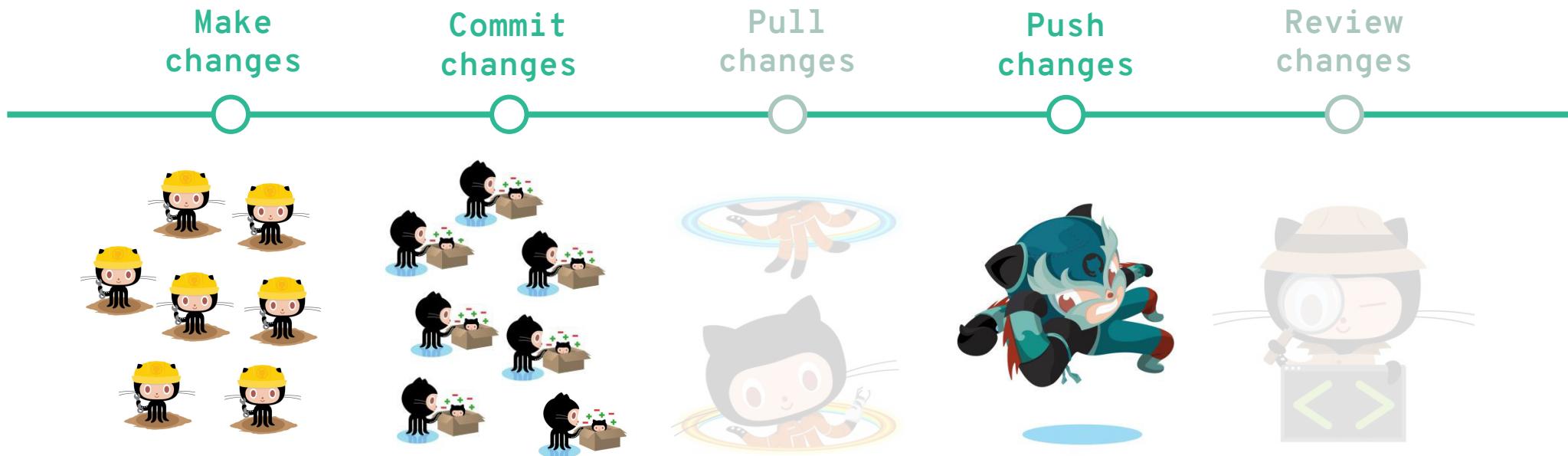
Ver·sion con·tro·l work·flow



Ver·sion con·tro·l work·flow



Ver·sion con·tro·l work·flow



DESKTOP.GITHUB.COM



Overview Release Notes Help

GitHub Desktop

Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow.



Download for Windows (64bit)

Download for macOS or Windows (msi)

By downloading, you agree to the [Open Source Applications Terms](#).

The screenshot shows the GitHub Desktop application interface. At the top, there's a toolbar with File, Edit, View, Repository, Branch, and Help. Below the toolbar, the repository dropdown shows "Current repository: desktop". The branch dropdown shows "Current branch: esc-pr" with a green checkmark and a dropdown arrow. The fetch origin dropdown shows "Fetch origin: Last fetched 2 minutes ago".

The main area displays a list of commits and pull requests:

- Add event handler to dropdown component
- Appease linter
- Add event handler to dropdown component
- Move escape behavior to correct component
- Remove event handler from the branches...
- Merge branch 'master' into esc-pr
- Merge pull request #4044 from desktop/...
- Merge pull request #4070 from desktop/...
- bump to beta3
- Merge pull request #4057 from desktop/...
- Merge pull request #4067 from desktop/...

A specific commit is selected, showing its details:

Add event handler to dropdown component
iAmWillShepherd and Markus Olsson committed a day ago
Co-Authored-By: Markus Olsson <niik@users.noreply.github.com>

app\src\ui\toolbar\dropdown.tsx

```
@@ -145,6 +145,10 @@ export class ToolbarDropdown extends React.Component<
 145   this.state = { clientRect: null }
 146 }
 147
 148 + private get isOpen() {
 149 +   return this.props.dropdownState === 'open'
 150 +
 151 +
 152   private dropdownIcon(state: DropdownState): OcticonSymbol {
 153     // @TODO: Remake triangle octicon in a 12px version,
 154     // right now it's scaled badly on normal dpi monitors.
 155
 156   @@ -249,6 +253,13 @@ export class ToolbarDropdown extends React.Component<
 249   }
 250 }
 251
 252 + private onFoldoutKeyDown = (event: React.KeyboardEvent<HTML
```



New repository... Ctrl+N

Add local repository... Ctrl+O

Clone repository... Ctrl+Shift+O

Options... Ctrl+,

Exit Alt+F4

Current branch
master

Fetch origin
Last fetched 14 minutes ago

History

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Open the repository in your external editor

Select your editor in [Options](#)

Repository menu or [Ctrl Shift A](#)

[Open in Atom](#)

View the files of your repository in Explorer

Repository menu or [Ctrl Shift F](#)

[Show in Explorer](#)

Open the repository page on GitHub in your browser

Repository menu or [Ctrl Shift G](#)

[View on GitHub](#)



Summary (required)

Description



Commit to **master**

Current repository
d6

Current branch
master

Fetch origin
Last fetched 16 minutes ago

Changes

History

0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Add local repository

Local path

C:/Users/Mustermann/R/2020_scherer_newstudy

Choose...

Add repository

Cancel

Open in Atom

Show in Explorer

View on GitHub



Summary (required)

Description



Commit to master

Current repository
2020_scherer_newstudy

Current branch
master

Fetch origin
Never fetched

Changes

History

0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Open the repository in your external editor

Select your editor in Options

Repository menu or **Ctrl Shift A**

[Open in Atom](#)

View the files of your repository in Explorer

Repository menu or **Ctrl Shift F**

[Show in Explorer](#)

Open the repository page on GitHub in your browser

Repository menu or **Ctrl Shift G**

[View on GitHub](#)



Summary (required)

Description



Commit to **master**

MAKE CHANGES

YOUR TURN

Fill out the DESCRIPTION.
Add and fill the README.

File Edit Code View Plots Session Build Debug Profile Tools Help

File Edit View Selection Find Packages Help

DESCRIPTION -- C:\Users\DataVizard\PopDyn\ZW Dropbox\Lab_Orga\D6_Package\2020_scherer_newstudy -- Atom

Telemetry Consent

```

1 Package: 2020_scherer_newstudy
2 Title: Simplify Workflows of D6 Research Projects
3 Version: 0.0.0.9000
4 Authors@R: person('Cédric', 'Scherer', email = 'scherer@izw-berlin.de', role = c('cre', 'aut'))
5 Description: The goal of the `d6` package is to simplify the project workflow within the
6 department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing
7 a standardized folder structure, templates for reports and utility functions.
8 License: `use_mit_license()`, `use_gpl3_license()` or friends to
9 pick a license
10 Encoding: UTF-8
11 LazyData: true
12 Roxygen: list(markdown = TRUE)
13 RoxygenNote: 7.1.1
14 URL: https://github.com/Z3tt/2020_scherer_newstudy
15 BugReports: https://github.com/Z3tt/2020_scherer_newstudy/issues
16 
```

DESCRIPTION -- C:\Users\DataVizard\PopDyn\ZW Dropbox\Lab_Orga\D6_Package\2020_scherer_newstudy -- Atom

File Edit View Selection Find Packages Help

README.md

Telemetry Consent

```

1 # Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"
2
3 <!-- badges: start -->
4 <!-- badges: end -->
5
6 The goal of the `d6` package is to simplify the project workflow within the department "Ecological
7 Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder
8 structure, templates for reports and utility functions.
9
10 
```

README.md -- C:\Users\DataVizard\PopDyn\ZW Dropbox\Lab_Orga\D6_Package\2020_scherer_newstudy -- Atom

File Edit View Selection Find Packages Help

Console Terminal Jobs

R Script

```

C:/Users/DataVizard/PopDyn/ZW Dropbox/Lab_Orga/D6_Package/2020_scherer_newstudy/ ↵
> ## Add meta data about your project to DESCRIPTION
> d6::fill_desc(
+   pkg_title = "Simplify Workflows of D6 Research Projects",      ##
The Full Title of the Project
+   pkg_description = "The goal of the `d6` package is to simplify the
project workflow within the department "Ecological Dynamics" at the Leib
niz Institute for Zoo and Wildlife Research by providing a standardized f
older structure, templates for reports and utility functions.",    ## The
Description of Your Project
+   author_first_name = "Cédric", ## Your First Name
+   author_last_name = "Scherer", ## Your Last Name
+   author_email = "scherer@izw-berlin.de",    ## Your Email
+   repo_url = "https://github.com/Z3tt/2020_scherer_newstudy"      ##
The URL of the GitHub Repo (optional)
+ )
✓ DESCRIPTION file modified
> ## Add and fill the readme
> usethis::use_readme_md()
> 
```

COMMIT CHANGES

YOUR TURN

Now, first press **fetch origin** to check for possible changes in your remote repository.



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COMMIT CHANGES

YOUR TURN

Go to GitHub Desktop and have a look at the changes.

Commit the changes: Fill a commit summary
and press the **commit to master** button.

Current repository
2020_scherer_newstudyCurrent branch
masterFetch origin
Never fetched

Changes 3 History R\00_start.R

3 changed files

DESCRIPTION

R\00_start.R

README.md

```
@@ -2,12 +2,12 @@
2 2
3 3 ## Add meta data about your project to DESCRIPTION
4 4 d6::fill_desc(
5 5 - pkg_title = "", ## The Full Title of the Project
6 6 - pkg_description = "", ## The Description of Your Project
7 7 - author_first_name = "", ## Your First Name
8 8 - author_last_name = "", ## Your Last Name
9 9 - author_email = "", ## Your Email
10 10 - repo_url = NULL ## The URL of the GitHub Repo (optional)
11 11 + pkg_title = "Simplify Workflows of D6 Research Projects", ## The Full Title of the Project
12 12 + pkg_description = "The goal of the `d6` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.", ## The Description of Your Project
13 13 + author_first_name = "Cédric", ## Your First Name
+ author_last_name = "Scherer", ## Your Last Name
+ author_email = "scherer@izw-berlin.de", ## Your Email
+ repo_url = "https://github.com/Z3tt/2020_scherer_newstudy" ## The URL of the GitHub Repo (optional)
11 )
12
13 ## Add and fill the readme
```



:pencil: add description and readme

Description



Commit to master

Current repository
2020_scherer_newstudyCurrent branch
masterPush origin
Last fetched just now
1 ↑

Changes History

 0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Push commits to the origin remote

You have 1 local commit waiting to be pushed to GitHub.

[Push origin](#)

Always available in the toolbar when there are local commits waiting to be pushed or

Ctrl P

Open the repository in your external editor

Select your editor in [Options](#)

[Open in Atom](#)

Repository menu or **Ctrl Shift A**

View the files of your repository in Explorer

Repository menu or **Ctrl Shift F**

[Show in Explorer](#)

Open the repository page on GitHub in your browser

Repository menu or **Ctrl Shift G**

[View on GitHub](#)[Summary \(required\)](#)[Description](#)[R+](#)[Commit to master](#)

Committed just now

[Undo](#)[add description and readme](#)

PUSH CHANGES

YOUR TURN

Afterwards, push your changes from your local repository to the remote repository.

Current repository
2020_scherer_newstudyCurrent branch
masterFetch origin
Last fetched just now

Changes

History



0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Open the repository in your external editor

Select your editor in [Options](#)

Repository menu or **Ctrl Shift A**

[Open in Atom](#)

View the files of your repository in Explorer

Repository menu or **Ctrl Shift F**

[Show in Explorer](#)

Open the repository page on GitHub in your browser

Repository menu or **Ctrl Shift G**

[View on GitHub](#)

Summary (required)

Description

[Commit to master](#)

Current repository
2020_scherer_newstudyCurrent branch
masterFetch origin
Last fetched just now

Changes

History

add description and readme

Z3tt · 6b83f66 · 3 changed files · Hide Whitespace

DESCRIPTION

R\00_start.R

README.md

1

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@@ -1,13 +1,8 @@

Package: 2020_scherer_newstudy

-Title: What the Package Does (One Line, Title Case)

+Title: Simplify Workflows of D6 Research Projects

Version: 0.0.0.9000

-Authors@R:

- person(given = "First",

family = "Last",

role = c("aut", "cre"),

email = "first.last@example.com",

comment = c(ORCID = "YOUR-ORCID-ID"))

-Description: What the package does (one paragraph).

+Authors@R: person('Cédric', 'Scherer', email = 'scherer@izw-berlin.de', role = c('cre', 'aut'))

+Description: The goal of the `d6` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.

License: `use_mit_license()`, `use_gpl3_license()` or friends to

pick a license

Encoding: UTF-8

MAKE CHANGES

YOUR TURN

Go to your remote repository on GitHub
and change something in the README.md.

Commit the changes.



Search or jump to...

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master

1 branch

0 tags

[Go to file](#)[Add file](#)[Code](#)

Z3tt add description and readme

6b83f66 4 minutes ago 3 commits



R

add description and readme

4 minutes ago



.Rbuildignore

Initial commit

8 minutes ago



.gitignore

Initial commit

8 minutes ago



2020_scherer_newstudy.Rproj

Initial commit

8 minutes ago



DESCRIPTION

add description and readme

4 minutes ago



NAMESPACE

Initial commit

8 minutes ago



README.md

add description and readme

4 minutes ago

README.md



Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

The goal of the `{d6}` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.

About

What the Package Does (One Line, Title Case)

Readme

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Languages

• R 100.0%



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master ▾ 1 branch 0 tags

Go to file

Add file ▾

Code ▾

Z3tt add description and readme

6b83f66 4 minutes ago 3 commits

R	add description and readme	4 minutes ago
.Rbuildignore	Initial commit	8 minutes ago
.gitignore	Initial commit	8 minutes ago
2020_scherer_newstudy.Rproj	Initial commit	8 minutes ago
DESCRIPTION	add description and readme	4 minutes ago
NAMESPACE	Initial commit	8 minutes ago
README.md	add description and readme	4 minutes ago

README.md



Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

The goal of the `{d6}` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.

About

What the Package Does (One Line, Title Case)

Readme

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Languages

R 100.0%



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2020_scherer_newstudy / README.md

Cancel

[Edit file](#)[Preview changes](#)

Spaces

2

Soft wrap

```
1
2 ## Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"
3
4 The goal of the `d6` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a
standardized folder structure, templates for reports and utility functions.
5
```



Commit changes

 :pencil: update readme Add an optional extended description... cedricphilippsscherer@gmail.com

Choose which email address to associate with this commit

 -o- Commit directly to the master branch. ! Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)[Commit changes](#)[Cancel](#)

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2020_scherer_newstudy / README.md

Cancel

[Edit file](#)[Preview changes](#)

Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

The goal of the `{d6}` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.



Commit changes

 :pencil: update readme Add an optional extended description... cedricphilipscherer@gmail.com

Choose which email address to associate with this commit

 ⚡ Commit directly to the `master` branch. 🏙 Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)[Commit changes](#)[Cancel](#)

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master

2020_scherer_newstudy / README.md

[Go to file](#) ... Z3tt  update readmeLatest commit fb01541 now 

1 contributor

4 lines (2 sloc) | 331 Bytes

[Raw](#) [Blame](#)   

Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

The goal of the `{d6}` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.



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PULL CHANGES

YOUR TURN

Go to GitHub Desktop and press `fetch` once again.

Current repository
2020_scherer_newstudyCurrent branch
masterPull origin
Last fetched just now
1 ↓

Changes

History

0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Pull 1 commit from the origin remote

The current branch (`master`) has a commit on GitHub that does not exist on your machine.

[Pull origin](#)

Always available in the toolbar when there are remote changes or `Ctrl Shift P`

[Open in Atom](#)

Open the repository in your external editor

Select your editor in [Options](#)

Repository menu or `Ctrl Shift A`

[Show in Explorer](#)

View the files of your repository in Explorer

Repository menu or `Ctrl Shift F`

[View on GitHub](#)

Open the repository page on GitHub in your browser

Repository menu or `Ctrl Shift G`



Summary (required)

Description

[Commit to master](#)

PULL CHANGES

YOUR TURN

Pull the changes you've made to your local repository.

Current repository
2020_scherer_newstudyCurrent branch
masterFetch origin
Last fetched just now

Changes

History

No branches to compare

update readme

Cédric Scherer · fb01541 · 1 changed file · Hide Whitespace

README.md



1

1

@@ -1,7 +1,4 @@

-# Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

-

-<!-- badges: start --></div>

-<!-- badges: end --></div>

+## Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

2

3

The goal of the `d6` package is to simplify the project workflow within the department “Ecological Dynamics” at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.

update readme

Cédric Scherer · 2m

add description and readme

Z3tt · 10m

Add GitHub links to DESCRIPTION

Z3tt · 15m

Initial commit

Z3tt · 15m

Current repository
2020_scherer_newstudy

Current branch
master

Fetch origin
Last fetched 3 minutes ago

Filter

Add ▾

update readme

Cédric Scherer -O- fb01541 ± 1 changed file Hide Whitespace

README.md



@@ -1,7 +1,4 @@

1 1
2 -# Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"
3 -
4 -<!-- badges: start -->
5 -<!-- badges: end --></p>

2 2
3 +## Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

6 3
7 4
The goal of the `d6` package is to simplify the project workflow within the department "Ecological Dynamics" at the Leibniz Institute for Zoo and Wildlife Research by providing a standardized folder structure, templates for reports and utility functions.

frontpagedata

2019-VC-Investment-Map

2020-Improve-Graphs

2020-survey-kuendigung-covid

matthewhirshey

ddh.com

rankingsio

2020-GMB-study

scotthmurray

d3-book

thebioengineer

camcorder

z3tt

2020_scherer_newstudy

30DayMapChallenge

aRt

berlinxbikes

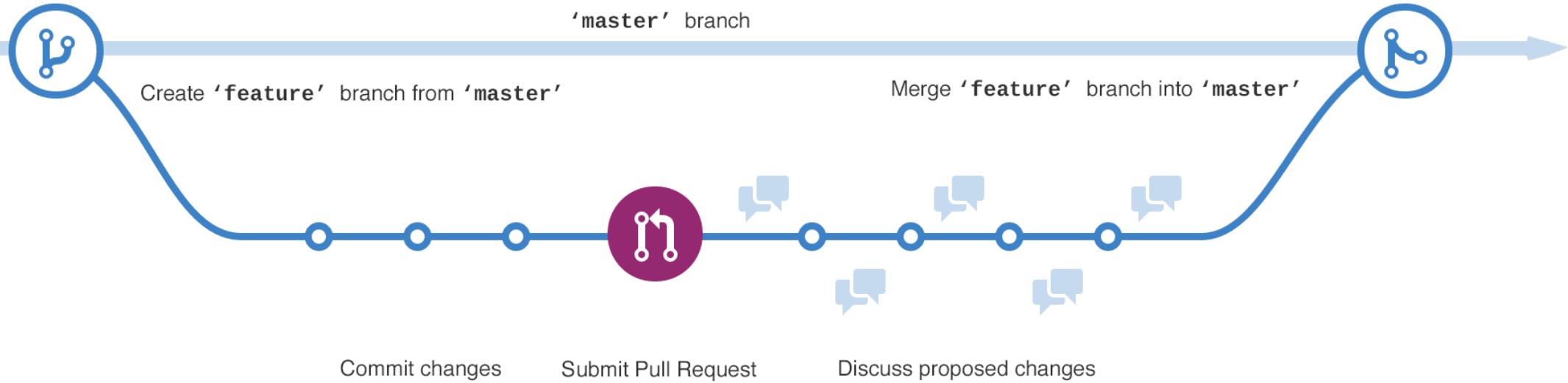
bespokeDS

Corona-Worst-Days

d3-intro-book-exercises

fairlyfloss-dark

Branching & Merging



Current repository
2020_scherer_newstudyCurrent branch
masterFetch origin
Last fetched 12 minutes ago

Changes

History

No branches to compare

update readme

Cédric Scherer · fb01541 · 1 changed file · Hide Whitespace

README.md

@@ -1,7 +1,4 @@

1

1

2

-

Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

3

-

badges: start -->

badges: end -->

Scherer et al. 2020 "Simplify Workflows of D6 Research Projects"

Create a branch

X

Name

data-import

Your new branch will be based on your currently checked out branch (`master`). `master` is the default branch for your repository.

Create branch

Cancel

Current repository
2020_scherer_newstudyCurrent branch
data-importPublish branch
Publish this branch to GitHub

Changes 1

History

⚠️ +

 1 changed file R\1_data.Rmd [+]

R\1_data.Rmd

```
@@ -0,0 +1,62 @@
1+---
2+title: "d6: Data Preparation" ## name of your project
3+author: "Cédric Scherer" ## your name(s)
4+date: `r Sys.Date()` ## current date
5+output:
6+  rmdformats::readthedown:
7+    code_folding: hide ## hide or show code by default?
8+    toc_depth: 3 ## 3-level TOC
9+---
10+
11+```{r setup, include=FALSE}
12+## You can ignore this chunk in most cases
13+## If you want to modify chunk options, you can do it here for all chunks or
14+## add the options in the respective chunk header, e.g. `r, message = FALSE`'
15+knitr::opts_chunk$set(echo = TRUE, warning = TRUE, message = TRUE,
16+                      fig.width = 9, fig.height = 6, dpi = 500,
17+                      retina = 1, fig.showtext = TRUE)
18+```
19+
20+* **Research question:***
21+* **Study area:***
22+* **Data:***
23+
24+
25+## Setup
26+
27+```{r packages}
28+## for non-CRAN packages please keep install instruction
29+## but commented so it is not run each time, e.g.
30+## devtools::install_github("EcoDynamZU/template")
```



:art: add data import script

Description



Commit to data-import

Current repository
2020_scherer_newstudy

Current branch
data-import

Fetch origin
Last fetched just now

Changes

History

0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Create a Pull Request from your current branch

The current branch (data-import) is already published to GitHub. Create a pull request to propose and collaborate on your changes.

[Create Pull Request](#)

Branch menu or **Ctrl R**

[Open in Atom](#)

Open the repository in your external editor

Select your editor in [Options](#)

Repository menu or **Ctrl Shift A**

[Show in Explorer](#)

View the files of your repository in Explorer

Repository menu or **Ctrl Shift F**

[View on GitHub](#)

Open the repository page on GitHub in your browser

Repository menu or **Ctrl Shift G**



Summary (required)

Description



[Commit to data-import](#)



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Z3tt / 2020_scherer_newstudy

 Unwatch ▼

 Star 0

1

Fork 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

[Open a pull request](#)

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

Reviewers

Assignees
No one—assign yourself

Labels 

Projects

Milestone 

No milestone

Linked issues

[Helpful resources](#)

1 commit	1 file changed	0 comments	1 contributor
Commits on Oct 11, 2020			
 add data import script	ce1809		
 Showing 1 changed file with 62 additions and 0 deletions.			
 Unified		 Split	

Current repository
2020_scherer_newstudy

Current branch
master

Fetch origin
Last fetched just now

Changes History

Select branch to compare...

Merge pull request #1 from Z3tt/data-import

Cédric Scherer • just now

add data import script

Z3tt • 4m

update readme

Cédric Scherer • 20m

add description and readme

Z3tt • 28m

Add GitHub links to DESCRIPTION

Z3tt • 32m

Initial commit

Z3tt • 33m

Merge pull request #1 from Z3tt/data-import

Cédric Scherer 0963779 ± 1 changed file Hide Whitespace

R\1_data.Rmd

```
@@ -0,0 +1,62 @@
1 +---
2 +title: "d6: Data Preparation" ## name of your project
3 +author: "Cédric Scherer" ## your name(s)
4 +date: `r Sys.Date()` ## current date
5 +output:
6 + rmdformats::readthedown:
7 + code_folding: hide ## hide or show code by default?
8 + toc_depth: 3 ## 3-level TOC
9 +---
10 +
11 +```{r setup, include=FALSE}
12 +## You can ignore this chunk in most cases
13 +## If you want to modify chunk options, you can do it here for all chunks or
14 +## add the options in the respective chunk header, e.g. `r, message = FALSE}`
15 +knitr::opts_chunk$set(echo = TRUE, warning = TRUE, message = TRUE,
16 + fig.width = 9, fig.height = 6, dpi = 500,
17 + retina = 1, fig.showtext = TRUE)
18 +```
19 +
20 +* **Research question:***
21 +* **Study area:***
22 +* **Data:***
23 +
```