, ,

# Contents

4 CONTENTS

6 CONTENTS

# Chapter 1

8 CHAPTER 1.

1.1 25 cm, 1.2

1.3.

```
1:
    2:
    3:
                ??,
1.3
     ??: A
                                                           ??:
          a,
??:
                                          ??
                                                           git
                                   ??:
1.4
```

10 CHAPTER 1.

, (SDC)

.

### Chapter 2

```
2.1 : R
                                         Python (?)
R (?) ( : dn'--
( : pandas (?), numpy (?), matplotlib (?))
(?), data.table (?), ggplot2 (?)).
             c#
                                            c# e
                                            Julia (?)
                                              Python R
                   с#.
                                    . R
R Rstudio
                 (Rmarkdown (?)), (bookdown (?)),
(shiny (?)),
              (blogdown (?)), .
                                          e bookdown,
                   Rstudio.
                               r0penSci
             CRAN (Comprehensive R Archive Network)
      : CRAN Task View: Reproducible Research.
                                     R.
 R
                              R Rstudio ( Rmarkdown)
```

12 CHAPTER 2.

```
Jypiter
              ({\tt VScode}).
                                                                   Rstudio
2.2
                        R.
                                              R
                                        R (
                                                   Rstudio )):
#
#
paketi <- c(</pre>
  "readr",
  "dplyr",
  "docopt",
  "assertthat",
  "devtools",
  "usethis",
  "prodigenr",
  "rmarkdown",
  "knitr"
)
install.packages(pkgs = paketi)
2.3
                               : git
                          {\tt git}\;(
                                      ??),
                                                                          , git
),
         undo/redo
                                                           \mathbf{t}
                                             ).
           {\tt git}\;(
                                                          , \, \mathtt{git}
```

2.4.

Table 2.1:

csv, MySQL
R git
dplyr, ggplot2
docker (

. git

### 2.4

**??**):

14 CHAPTER 2.

## Chapter 3

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```
arrange(vraboten, tip_na_trosok)
write_csv(trosoci_sumirani,
          path = "~/Download/trosoci-moja-firma-sumirani.csv")
  ?!?"
  1.
                           ~/Downloads/trosoci-moja-firma.csv.
  2.
                           ~/Downloads/trosoci-moja-firma.csv.
                              Linux
                                     Windows
                                                  . C:\Downloads)
            Downloads
     ~/Downloads)?
  3.
                                                                  R:
    readr (?)
               dplyr (?).
500
  4.
          ~/Downloads/trosoci-moja-firma.csv
                                                 Downloads,
  5.
                           Downloads
  6.
                                          summarise_at
                                                    R dplyr,
    summarise_at
    dplyr,
            summarise_at
          dplyr,
                                summarise_at
  7.
```

```
3.2 - C:/Data,
C:/Analizi.
( : C:/Data/ 2020/ /)
( #) README ,
( )
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```

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3.2.

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## Chapter 4

#### 4.1

```
vraboten, tip_na_trosok cena.
trosoci
## # A tibble: 30 x 3
##
      vraboten
                  tip_na_trosok
                                            cena
##
      <chr>
                  <chr>
                                           <dbl>
##
                                        75
   1
##
   2
                                       81
                                        13
##
   3
                               40
##
   5
                                     89
                                       48
##
   6
##
   7
                               96
   8
                                23
##
   9
                                       84
## 10
                                        29
## # ... with 20 more rows
trosoci %>%
  group_by(vraboten, tip_na_trosok) %>%
 summarise_at("cena", "sum") %>%
 arrange(vraboten, tip_na_trosok)
## # A tibble: 12 x 3
## # Groups:
              vraboten [5]
```

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```
##
      vraboten
                  tip_na_trosok
                                             cena
##
      <chr>
                   <chr>
                                            <dbl>
                                  31
##
##
    2
                                        177
                                        51
##
   3
##
   4
                                     324
##
   5
                                     111
##
   6
                               196
    7
                                      218
##
##
                                      54
   8
                                 23
##
   9
## 10
                                        48
## 11
                                      127
## 12
                                      116
4.2
                     ),
  1.
             R
  2.
  3.
                                              readr (?) dplyr (?)
library(dplyr)
library(readr)
# install.packages("dplyr")
# install.packages("readr")
trosoci <- read_csv("data/trosoci-moja-firma.csv")</pre>
trosoci_sumirani <- trosoci %>%
  group_by(vraboten, tip_na_trosok) %>%
  summarise_at("cena", "sum") %>%
  arrange(vraboten, tip_na_trosok)
write_csv(trosoci_sumirani,
          path = "data/trosoci-moja-firma-sumirani.csv")
```

4.3.

```
library(dplyr)
library(readr)
# install.packages("dplyr")
# install.packages("readr")
# :
#
pateka_do_input <- NULL # "data/trosoci-moja-firma.csv"</pre>
pateka_za_output <- NULL # "data/trosoci-moja-firma-sumirani.csv"</pre>
# pateka_do_input <- "~/Downloads/trosoci-moja-firma.csv"</pre>
# pateka_do_output <- "~/Downloads/trosoci-moja-firma-sumirani.csv"</pre>
# :
 \textit{\# pateka\_do\_input <- "C: \rabota\podatoci\trosoci\trosoci-moja-firma.csv"} 
# pateka_do_output <- "C:\rabota\podatoci\trosoci\trosoci-moja-firma-sumirani.csv"
trosoci <- read_csv(pateka_do_input)</pre>
#
trosoci_sumirani <- trosoci %>%
  group_by(vraboten, tip_na_trosok) %>%
  summarise_at("cena", "sum") %>%
  arrange(vraboten, tip_na_trosok)
write_csv(trosoci_sumirani,
          path = pateka_za_output)
```

#### 4.3

:

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```
sumiraj_trosoci <- function(trosoci, destinacija) {</pre>
  trosoci <- read_csv(trosoci)</pre>
  trosoci_sumirani <- trosoci %>%
    group_by(vraboten, tip_na_trosok) %>%
    summarise_at("cena", "sum") %>%
    arrange(vraboten, tip_na_trosok)
  write_csv(trosoci_sumirani,
            path = destinacija)
}
moja-tabela.csv moja-tabela-medijani.csv)
                              Python)
              R (
#
         `trosoci`
sumiraj_trosoci <- function(trosoci_tabela) {</pre>
  trosoci <- read_csv(trosoci_tabela)</pre>
  trosoci_sumirani <- trosoci %>%
    group_by(vraboten, tip_na_trosok) %>%
    summarise_at("cena", "sum") %>%
    arrange(vraboten, tip_na_trosok)
  #
  folder_name <- dirname(trosoci_tabela)</pre>
  base_name <- tools::file_path_sans_ext(basename(trosoci_tabela))</pre>
  new_name <- paste(base_name, "sumirani.csv", sep="-")</pre>
  destinacija <- file.path(folder_name, new_name)</pre>
  write_csv(trosoci_sumirani, path = destinacija)
```

:

```
`sumiraj_trosoci`
library(dplyr)
library(readr)
#
# install.packages("dplyr")
# install.packages("readr")
#
#
         `trosoci`
sumiraj_trosoci <- function(trosoci_tabela) {</pre>
  trosoci <- read_csv(trosoci_tabela)</pre>
  trosoci_sumirani <- trosoci %>%
    group_by(vraboten, tip_na_trosok) %>%
    summarise_at("cena", "sum") %>%
  arrange(vraboten, tip_na_trosok)
  folder_name <- dirname(trosoci_tabela)</pre>
  base_name <- tools::file_path_sans_ext(basename(trosoci_tabela))</pre>
  new_name <- paste(base_name, "sumirani.csv", sep="-")</pre>
  destinacija <- file.path(folder_name, new_name)</pre>
  write_csv(trosoci_sumirani, path = destinacija)
```

R

### 4.4 Rscript

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```
Rscript.exe sumiraj_trosoci.R trosoci_dekemvri_2020.csv
                                                    Rscript,
                                               ),
           ):
# (data/sumiraj-trosoci-1.R)
#
                  R
                                        `sumiraj_trosoci`
library(dplyr)
library(readr)
# install.packages("dplyr")
# install.packages("readr")
         `trosoci`
sumiraj_trosoci <- function(trosoci_tabela) {</pre>
  trosoci <- read_csv(trosoci_tabela)</pre>
  #
  trosoci_sumirani <- trosoci %>%
    group_by(vraboten, tip_na_trosok) %>%
    summarise_at("cena", "sum") %>%
  arrange(vraboten, tip_na_trosok)
  folder_name <- dirname(trosoci_tabela)</pre>
  base_name <- tools::file_path_sans_ext(basename(trosoci_tabela))</pre>
  new_name <- paste(base_name, "sumirani.csv", sep="-")</pre>
  destinacija <- file.path(folder_name, new_name)</pre>
  write_csv(trosoci_sumirani, path = destinacija)
dadeni_trosoci <- commandArgs(trailingOnly=TRUE)[[1]]</pre>
```

```
sumiraj_trosoci(trosoci = dadeni_trosoci)
                       \verb|sumiraj-trosoci-1.R| trosoci-moja-firma.csv.|
             data
                                  docopt
                                                       docstring,
   . docopt/docstring
 Python Perl (?)
                                                     assertthat,
                                                docopt assertthat
                          commandArgs() stopifnot()
 R.
# (data/sumiraj-trosoci-2.R)
                              : `vraboten`, `tip_na_trosok`, `cena`.
    ta
Usage:
   sumiraj-trosoci-2.R <tabela_so_trosoci>
   sumiraj-trosoci-2.R --help
   sumiraj-trosoci-2.R --version
 Options:
   --help
   --version
' -> doc
library(docopt)
arguments <- docopt(doc, version = " 2.0\n")
                csv
assertthat::assert_that(
 assertthat::has_extension(arguments$tabela_so_trosoci, ext = "csv"))
suppressPackageStartupMessages({
 library(dplyr)
 library(readr)
```

26 CHAPTER 4.

```
library(assertthat)
})
# install.packages("dplyr")
# install.packages("readr")
# install.packages(assertthat)
#
         `trosoci_tabela`
sumiraj_trosoci <- function(trosoci_tabela) {</pre>
  trosoci <- read_csv(trosoci_tabela)</pre>
  assertthat::assert_that(inherits(trosoci, "data.frame"), msg = "
  assertthat::assert_that(all(c("vraboten", "tip_na_trosok", "cena") %in% names(trosoc
                                                           : 'vraboten', 'tip_na_trosok'
                           msg = "
  assertthat::assert_that(is.numeric(trosoci$cena), msg = "
                                                                  `cena`
  trosoci_sumirani <- trosoci %>%
    group_by(vraboten, tip_na_trosok) %>%
    summarise_at("cena", "sum") %>%
    arrange(vraboten, tip_na_trosok)
  folder_name <- dirname(trosoci_tabela)</pre>
  base_name <- tools::file_path_sans_ext(basename(trosoci_tabela))</pre>
  new_name <- paste(base_name, "sumirani.csv", sep="-")</pre>
  destinacija <- file.path(folder_name, new_name)</pre>
  write_csv(trosoci_sumirani, path = destinacija)
dadeni_trosoci <- arguments$tabela_so_trosoci
sumiraj_trosoci(trosoci = dadeni_trosoci)
```

4.5.

```
$ Rscript sumiraj-trosoci-2.R
Error:
                              : `vraboten`, `tip_na_trosok`,
    ta
Usage:
    sumiraj-trosoci-2.R <tabela_so_trosoci>
Execution halted
$ Rscript sumiraj-trosoci-2.R trosoci-moja-firma.csv
[1] TRUE
Parsed with column specification:
cols(
 vraboten = col_character(),
 tip_na_trosok = col_character(),
 cena = col_double()
)
Rscript sumiraj-trosoci-2.R trosoci-moja-firma.xls
Error: File 'trosoci-moja-firma.xls' does not have extension csv
Execution halted
         cena
                   eur:
Rscript sumiraj-trosoci-2.R trosoci-moja-firma-eur.csv
Parsed with column specification:
cols(
 vraboten = col_character(),
 tip_na_trosok = col_character(),
 eur = col_double()
                                : 'vraboten', 'tip_na_trosok', 'cena'.
Error:
Execution halted
```

4.5

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• / –

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( ) ,

R 10 ~/Downloads Linux

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,

o , R Rscript ,

## Chapter 5

(R + markdown)

#### 5.1 markdown

Markdown, markup HTML LaTeX

markdown,

a Rstudio Rmarkdown R for Data Science

( ) R ,

rmarkdown (,, " 'literate programming').

, . , :

\*\*markdown\*\*

[ ](https://kbroman.org/knitr\_knutshell/pages/Rmarkdown.html)

[ ](https://rmarkdown.rstudio.com/authoring\_quick\_tour.html)

`Rmarkdown`.

```
30 CHAPTER 5.
                               (R + MARKDOWN)
               , ja
(chunk)
                                 : ` 3.14 * 2`.
  `R`
           `r`**. ( -
                 : P = r^2 * \pi
                markdown
                              Rmarkdown.
                   , ja
                                  : 6.28. K
                                         r. (
         (chunk)
                   , \qquad : P = r^2 * \pi
                                HTML, PDF, MS Word
5.2
                               knitr
                                              . rmarkdown
                                                ```{r}
                       knitr (???)
  , knitr
   rmarkdown knitr.
                    HTML, LaTex, MS Word,
           markup
   rmarkdown. ,
                             HTML LaTeX.
5.3
                            j
                            Rmd
                           yaml
  :
```

5.3.

```
title: "Проба"
author: "Душко долгоушко"
date: "12/14/2020"
output: html_document
```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)
## R Markdown
Ова е R Markdown документ
Кога ќе го кликнете копчето **Knit** во `Rstudio`,
или извршите `rmarkdown::render()` во `R` конзола
ќе се генерира документ што ја вклучува содржината
и резултатит од интегрираниот R код. На пример:
```{r cars}
summary(cars)
## Вклучување графици
```{r pressure, echo=FALSE}
plot(pressure)
Параметарот `echo = FALSE` го додадовме за да го _скриеме_
прикажеме `R` кодот што го прави графикот
     Figure 5.1:
                           Rmd
```

### Проба

Душко долгоушко 12/14/2020

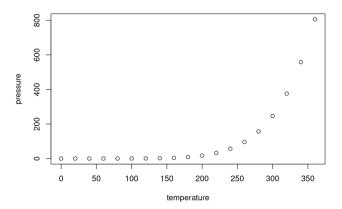
#### R Markdown

Ова е R Markdown документ

Кога ќе го кликнете копчето **Knit** во Rstudio , или извршите rmarkdown::render() во R конзола ќе се генерира документ што ја вклучува содржината и резултатит од интегрираниот R код. На пример:

```
## speed dist
## Min. : 4.0 Min. : 2.00
## 1st Qu.:12.0 1st Qu.: 26.00
## Median: 15.0 Median: 36.00
## Medan: 15.4 Mean: 42.98
## 3rd Qu.:19.0 3rd Qu.: 56.00
## Max. :25.0 Max. :120.00
```

#### Вклучување графици



Параметарот echo = FALSE го додадовме за да го *скриеме* прикажеме R кодот што го прави графикот

Figure 5.2: HTML

Rmd

5.3.

```
title:
output: html_document
params:
 grad: Tetovo
                                     R
                     params
params$grad
library(dplyr)
filtriraj_gradovi <- function(podatoci, potreben_grad) {</pre>
  podatoci %>% dplyr::filter(grad == potreben_grad)
}
filtriraj_gradovi(podatoci = moi_podatoci, potreben_grad = params$grad)
rmarkdown::render(input = "mojizvestaj.Rmd", params = list("Tetovo"))
                   for
HTML, PDF
         MS Word
gradovi <- c("Tetovo", "Gostivar", "Debar", "Berovo", "Dojran") # ...</pre>
for ( i in gradovi) {
 message("
                         : ", i)
 rmarkdown::render(input = "pateka/do/mojizvestaj.Rmd", params = list(i))
}
                             izvestaj.Rmd
izvestaj.Rmd
tetovo-izvestaj.Rmd
debar-izvestaj.Rmd
skopje-izvestaj.Rmd
skopje-izvestaj-juni.Rmd
skopje-izvestaj-juni-specijalen-so-logo.Rmd
kichevo-izvestaj-avgust-2019.Rmd
kicevo-izvestaj-avgust.Rmd
```

```
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                                                (R + MARKDOWN)
           izvestaj.Rmd
                                     2-3
                    kopje-izvestaj-juni-specijalen-so-logo.Rmd
5.4
       rmarkdown knitr
                                 Shiny (?)
                 Rmd
                HTML
                              prettydoc
                bookdown (
                 rmarkdown
                                  rmarkdown::render_site
                 flexdashboard
5.5
                                   {\tt rmarkdown} + {\tt knitr}
                                                      Sweave R
Jypiter
              Python (
                  Rmd
```

# Chapter 6

		Rmd (	??).	??)	,	
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,	,					
6.1 6.1.1	1:		·			
•						:

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```
(
               ?)
                        README
                                                             README
     tabela_1
                              tabela_2.
strategija_1/
  grafik_1
      code_grafik_1.R
      data_grafik_1.csv
  grafik_2
      code_grafik_2.R
      data_grafik_2.csv
  README
  tabela_1
      code_tabela_1.R
      data_tabela_1.csv
  tabela_2
      code_tabela_2.R
      data_tabela_2.csv
  tabela_3
      code_tabela_3.R
      data_tabela_3.csv
           1 2
                                       1 2,
strategija_1/
  grafik_1
      code_grafik_1.R
      code_tabela_1.R
      data_grafik_1.csv
  grafik_2
      code_grafik_2.R
      code_tabela_2.R
      data_grafik_2.csv
  README
  tabela_3
      code_tabela_3.R
      data_tabela_3.csv
                                             ?".
```

```
6.1.
           1:
                                                                        37
6.1.2
                            ?
6.1.3
                                                                     ),
strategija_1/
README
  zaednicki-kod.R
  grafik_1
```

code\_grafik\_1.R

CHAPTER 6.

```
code_tabela_1.R
      data_grafik_1.csv
  grafik_2
      code_grafik_2.R
      code_tabela_2.R
      {\tt data\_grafik\_2.csv}
   tabela_3
       code_tabela_3.R
       data_tabela_3.csv
                                              code_tabela_3.R
sumiraj-po-grupi()
                                      zaednicki-kod.R
            grafik_2,
6.2
                2:
                            R
6.2.1
strategija_2/
  izvestai
  podatoci
  README
  skripti
                         library(mojpaket)),
                             (\mathtt{skripti}
(podatoci
                                                         README
            data
                    data-raw),
                ?
  1.
                             R
                                    (global environment, .GlobalEnv),
```

6.2. 2: R 39

	R				
	data-raw				
	data				
	man				
	tests				
	vignettes				
	.Rbuildignore				
	.gitignore				
	DESCRIPTION				
	LICENSE				
	NAMESPACE				
	NEWS.md				
	README.Rmd				
	README.md				
Figure 6.1:		R	(	)	

40 CHAPTER 6.

```
2.
                                    podatoci
  3.
                                   , HTML/PDF
                                                        izvestai
6.2.2
     (devtools (?) usethis (?)),
library(devtools)
library(usethis)
devtoos::create(path = "mojpaket")
podatoci1 <- read.csv("~/Desktop/moi-podatoci.csv")</pre>
usethis::use_data("podatoci1")
mojpaket/
  DESCRIPTION
  NAMESPACE
  data
  R
                                                               ((?)).
                            : prodigenr, makeProject, ProjectTemplate,
fertile, goodpractice,
                                                    prodigenr (?)
    , ).
                            R
                 R
library(prodigenr)
setup_project("data/mojproekt2")
mojproekt2/
  data
      README.md
```

6.3.

```
DESCRIPTION
  doc
      README.md
  mojproekt2.Rproj
      {\tt fetch\_data.R}
      README.md
      setup.R
  README.md
  TODO.md
           setup.R
                                     fetch_data.R
                                  data/
       DESCRIPTION
                                                    R
                                       library(help="prodigenr"))
6.2.3
                                                         R
                                                            . R
                                                               (unit
tests)
6.2.4
6.3
```

CHAPTER 6.

## Chapter 7

## git

## GitHub

```
git.
                                                     ),
                                      git (
git
                                              99\%
                                   {\tt backup-izvestaj})
                                     {\tt mojizvestaj.Rmd}
 git
            (branch)
1 =
                       git
           (branch)
1 =
         (merge)
         git
git init
git add + git commit \# (N )
git checkout -b rabotna-verzija # (1 =
git add + git commit # (N )
git checkout main ()
git merge rabotna-verzija # (2 = )
```

7.2. GITHUB 45

```
git add + git commit (N
                                                ) git commit (
git add (
                        (commit), git
git add + git commit # id: 1a...
git add + git commit # id: 34...
git add + git commit # id: tt... (
git add + git commit # id: 01...
git add + git commit # id: ad...
git checkout 34... #
                           ).
               GitHub
7.2
       Git
                                                         Bitbucket,
Github
       Gitlab.
                                  git
local),
                     GitHub (
                                      , remote).
                                            (pull request).
                                Github
                                                      HMTL
                                                       Rmarkdown,
                     ??).
          HTML (
                      Github, gh-pages,
                                . gh-pages
                                                      docs.
                                      Rmd,
                                                     HTML
                               Github
       docs,
```

<ul> <li>HTML docs</li> <li>git</li> <li>(git push)</li> <li>gh-pages</li> </ul>	$({ t Git}{ t Hub})$
- 	, , , , , , , , , , , , , , , , , , ,
7.2.1 git rstudio download/win. $7.2.2$	git https://git-scm.com/github.com.
Github,	
, ,	Readme .
, Settngs gh-pages	docs
Rstudio File -> Ne Git : UR	w Project -> Version Control, L-
$\begin{tabular}{lll} Rstudio & & & & \\ & \cdot & & & & \\ Readme- & & . & \\ \end{tabular}$	Github Files Rstudio
Rmarkdown, . , docs index.html.	, , , HTML Rmarkdown, HTML

GIT GITHUB

. Mojot

CHAPTER 7.

qithub.com/korisnicko\_ime/ime\_na\_repozitor
a korisnicko\_ime.github.io/ime\_na\_repozitorium/.
Voila, .

 ${\tt Commit}$ 

Git Rstudio

prv proekt na github.

7.3

Push.

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gh-pages, Rmd

•

Commit

7.3.

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 ter	nplate repository's contents.			
No template ▼				
Owner *	Repository name *			
SlobodenSoftver •	]/			
Great repository names a  Description (optional)	e short and memorable. Need insp	oiration? How about redesigned-enigma?		
Private	rnet can see this repository. You choose an see and commit to this repository.	who can commit.		
Initialize this repository Skip this step if you're imp	with: porting an existing repository.			
Add a README file This is where you can writ	e a long description for your project. Lear	rn more.		
Add .gitignore				
Choose which files not to	rack from a list of templates. Learn more	ā.		
Choose a license A license tells others what	they can and can't do with your code. Le	earn more.		
Figu	re 7.1:	GitHub		
tHub Pages				
Hub Pages is designed to host	our personal, organization, or project pag	les from a GitHub repository.		
iource SitHub Pages is currently disab	ed. Select a source below to enable GitHr	ub Pages for this repository. Learn more.		
ያ Branch: main ▼	docs • Save			
heme Chooser				
	ite with a Jekyll theme using the gh-pages	s branch. Learn more.		
Choose a theme				

Figure 7.2: gh-pages GitHub

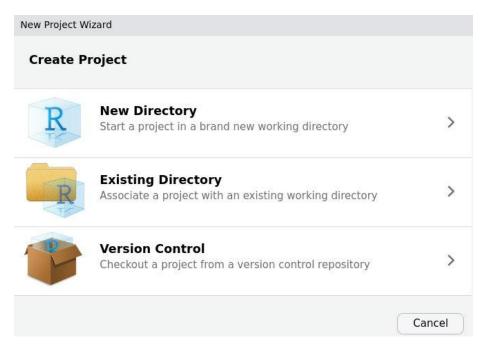


Figure 7.3: R Github

•