

Git ♦ GitHub ♦ Renv

Kirill Voronin <imvoroninkir@gmail.com>

Планы на вечер

- Поговорим про контроль версий при помощи Git
- Установку пакетов через renv
- Создадим проект используя Git и renv
 - Повторяемый Rmarkdown
 - Топ фильмов IMDB
- Запушим на GitHub
- Поработаем вместе используя GitHub pull request (PR)
- Рассмотрим best practices и различные ситуации



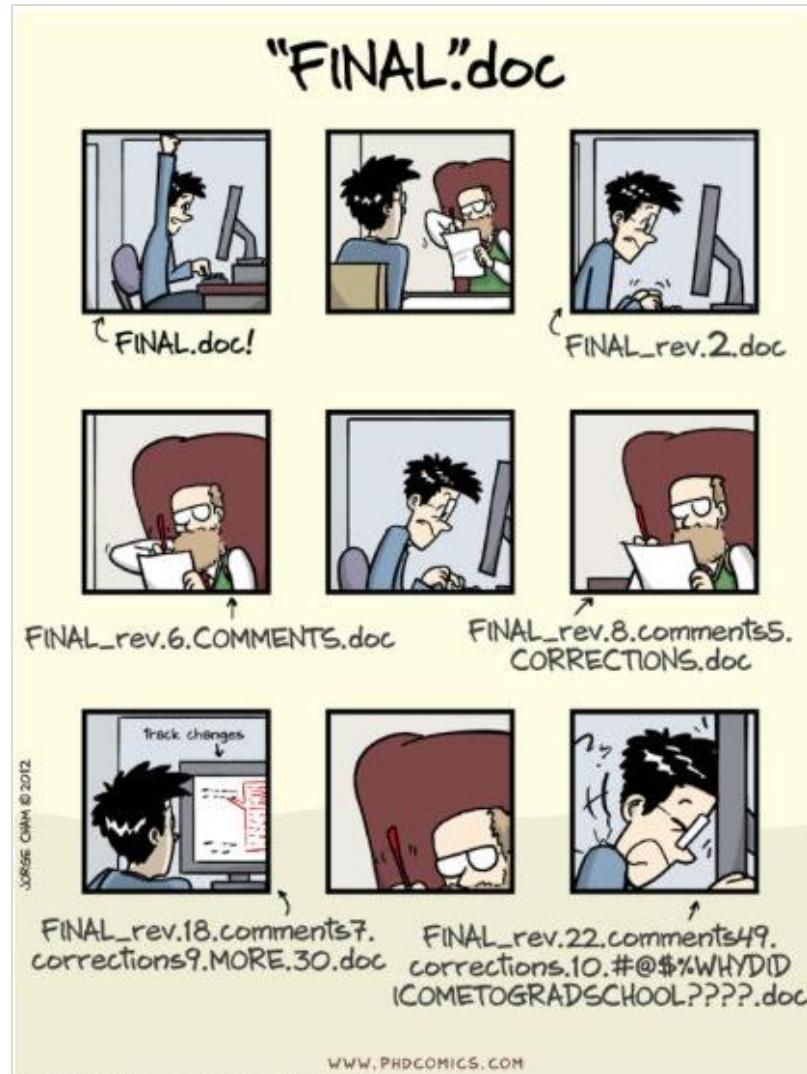
Git – программа для контроля версий (VCS)

*Есть другие программы с интерфейсом
Но внутри тот же Git
(GitKraken, GitHub Desktop)*



Git – программа для контроля версий (VCS)

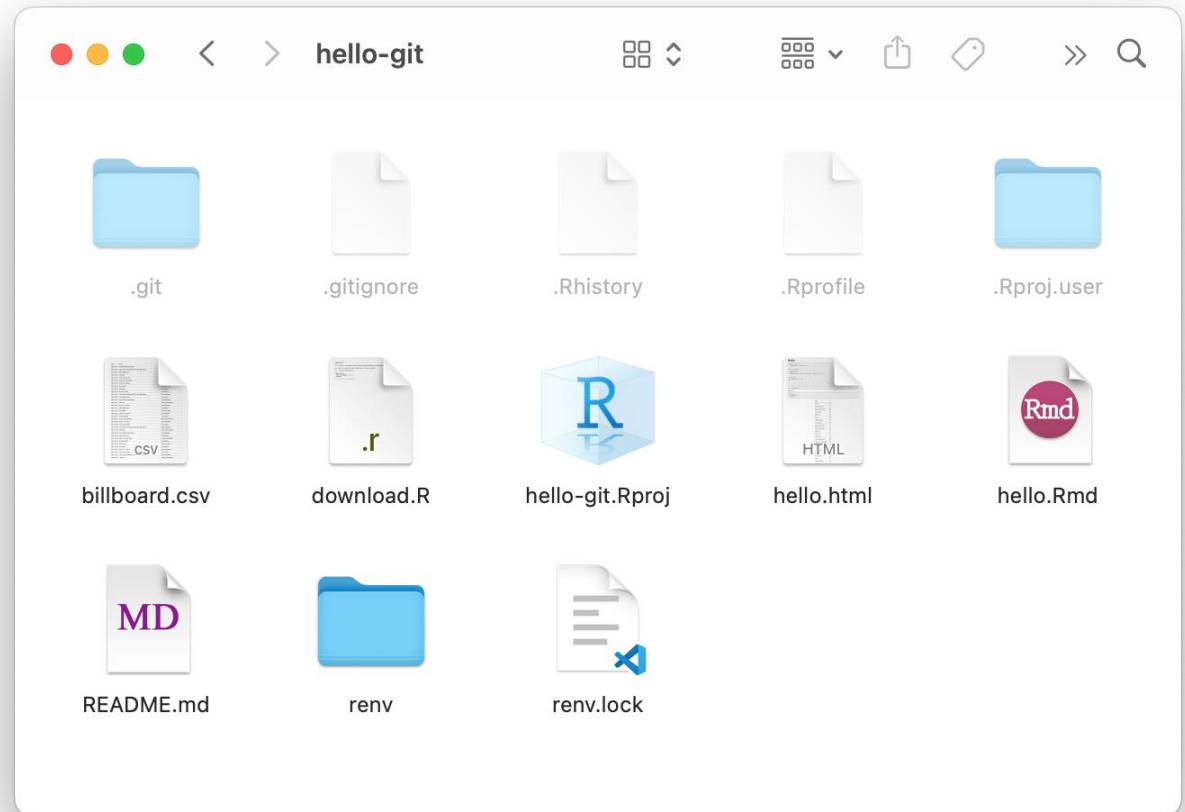
Есть другие программы с интерфейсом
Но внутри тот же Git
(*GitKraken*, *GitHub Desktop*)





Git – программа для контроля версий (VCS)

Есть другие программы с интерфейсом
Но внутри тот же Git
(*GitKraken*, *GitHub Desktop*)



← Репозиторий (локальный)



GitHub – хостинг репозиториев

Есть другие хостинги
GitLab, Gitea, Bitbucket

yoursdearboy	Added bingo cards to git ignore	78d0032 · 4 days ago	20 Commits
renv	Created R project with renv	last week	
.Rprofile	Created R project with renv	last week	
.gitignore	Added bingo cards to git ignore	4 days ago	
README.md	Create README.md	4 days ago	
artists.txt	Ooops Cyrillic not supported	4 days ago	
billboard.csv	Downloaded and transformed billboard top 100 t		
bingo.R	Added script to play bingo (#4)		8529589
data.R	Downloaded and transformed billboard top 100 t		fa98548
hello-git.Rproj	Created R project with renv		d32b7c3
hello.Rmd	Sampled top artists		
hello.html	Sampled top artists		bcdff3db
renv.lock	Added script to play bingo (#4)		



Репозиторий (remote)

Sampled top artists	8529589
yoursdearboy committed 3 days ago	
Created packages snapshot	fa98548
yoursdearboy committed 3 days ago	
Merge branch 'main' of https://github.com/yoursdearboy/hello-git	d32b7c3
yoursdearboy committed 3 days ago	
Downloaded and transformed billboard top 100 to top 10	bcdff3db
yoursdearboy committed 3 days ago	
Create README.md	3990f56
yoursdearboy authored 3 days ago	
Commits on Dec 3, 2024	
Draw some sample	6e92f7d
yoursdearboy committed 5 days ago	
Created R project with renv	ec229cb
yoursdearboy committed 5 days ago	

Для организации рабочего процесса

- Всегда есть резервная копия
- Легко вернуться к исходному состоянию
- Итеративный процесс работы

Для разработки

pharmaverse / ggsurvfit

Code Issues 20 Pull requests 4 Discussions Actions Projects Security Insights

Q Type to search

Feature request: Add feature to plot a curve for pooled data (similar to Survminer::ggsurvplot_add_all) #219

Open drhmoosavi opened this issue on Jul 5 · 1 comment

 drhmoosavi commented on Jul 5

Is your feature request related to a problem? Please describe.
Currently it seems not possible to add a curve for pooled patient data to the plot.

for example in the example below, it is not possible to create a `third` curve from combined patient data, in addition to the other 2 curves.

```
fA <- survfit2(Surv(time, status) ~ sex + adhere, data = df_colon %>% filter(sex == "Female") )  
fA %>%  
  ggsurvfit(linewidth = 1,linetype_aes = FALSE) +  
  add_quantile(y_value = 0.5, color = "black", linewidth = 0.5, linetype= "D3") +  
  scale_color_manual(NULL, values = c("red3","#0F8A2F","#30196F")) +  
  scale_x_continuous('Time (months)', breaks = seq(0, 9, 3)) +  
  labs(x = "Months", y = "OS") +  
  theme_cowplot()
```

 ddsjoberg commented on Jul 6

Hi @drhmoosavi ,

You can add more plots to the same figure by stacking the dataset before passing to `survfit()`. Example here: [#212](#)

But let's keep this open, and when we get to a point when `ggsurvfit` comes to the top of the list for development, we can think of some solutions.

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
No branches or pull requests

Notifications Customize Subscribe
You're not receiving notifications from this thread.

2 participants  

Для разработки

pharmaverse / ggsurvfit

Type to search

Code Issues 20 Pull requests 4 Discussions Actions Projects Security Insights

fixed KMunicate legend position in gallery.Rmd #223

Open DanChaltiel wants to merge 3 commits into `pharmaverse:main` from `DanChaltiel:patch-2`

Conversation 1 Commits 3 Checks 11 Files changed 2

DanChaltiel commented on Sep 19

Hi,

As you can see in <https://www.danielssjoberg.com/ggsurvfit/articles/gallery.html#kmunicate>, the legend is not inside the plot as it should be.

This is because the theme lacks `legend.position="inside"`.

This very minor PR should fix it.

Reviewer Checklist (if item does not apply, mark as complete)

- Ensure all package dependencies are installed by running `renv::install()`
- PR branch has pulled the most recent updates from master branch. Ensure the pull request branch and your local version match and both have the latest updates from the master branch.
- If a new function was added, function included in `_pkgdown.yml`
- If a bug was fixed, a unit test was added for the bug check
- Run `pkgdown::build_site()`. Check the R console for errors, and review the rendered website.
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- R CMD Check runs without errors, warnings, and notes
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When the branch is ready to be merged into master:

- Update `NEWS.md` with the changes from this pull request under the heading "# `ggsurvfit` (development version)". If there is an issue associated with the pull request, reference it in parentheses at the end update (see `NEWS.md` for examples).
- Increment the version number using `usethis::use_version(which = "dev")`
- Run `usethis::use_spell_check()` again
- Approve Pull Request

Contributor **Code**

Reviewers
No reviews
Still in progress? Learn about draft PRs

Assignees
No one assigned

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.
None yet

Notifications Customize **Subscribe**
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2 participants

Для резюме

ddsjoberg

Overview Repositories 93 Projects Packages Stars 95

Daniel Sjoberg · he/him

Follow Sponsor

Senior Principal Data Scientist
@Genentech; previously
@sloan_kettering; Golden Girls Superfan

368 followers · 66 following
Followed by zabore

Genentech
San Francisco Bay Area
www.danielsjoberg.com
https://bsky.app/profile/ddsjoberg.bsky.social
@statistishdan

Achievements

3,944 contributions in the last year

2024

2023

2022

Hi, I'm Daniel Sjoberg!

Daniel is a Lead Data Science Manager at Memorial Sloan Cancer Center and an open-source R package developer.

Daniel Sjoberg's GitHub Stats

Total Stars Earned:	1.2k
Total Commits (2024):	2.7k
Total PRs:	1.5k
Total Issues:	1.6k
Contributed to (last year):	37

A+ (GitHub badge)

Pinned

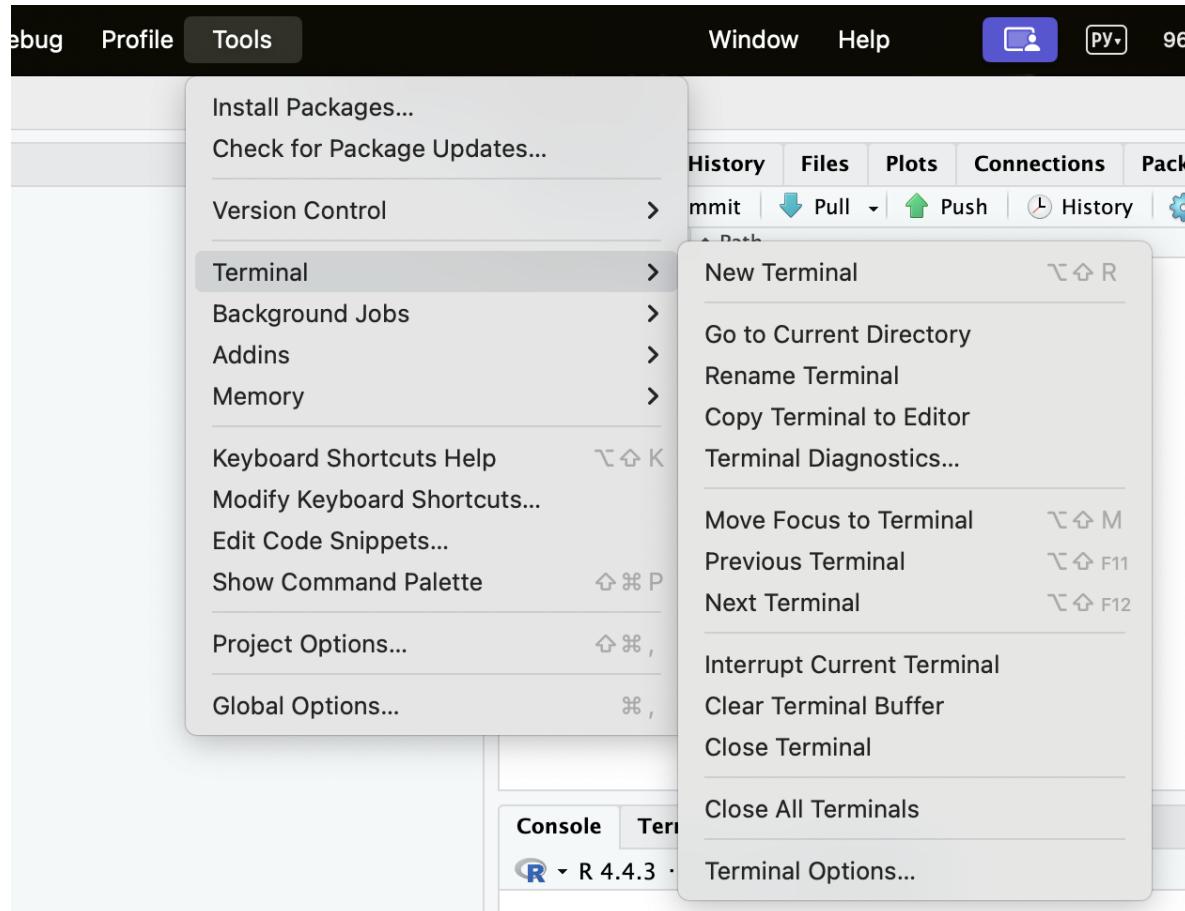
- gtsummary (Public)
Presentation-Ready Data Summary and Analytic Result Tables
R ⭐ 1.1k ⚡ 128
- pharmaverse/ggsurvfit (Public)
R ⭐ 74 ⚡ 20
- dcurves (Public)
Decision Curve Analysis
R ⭐ 37 ⚡ 14

2024

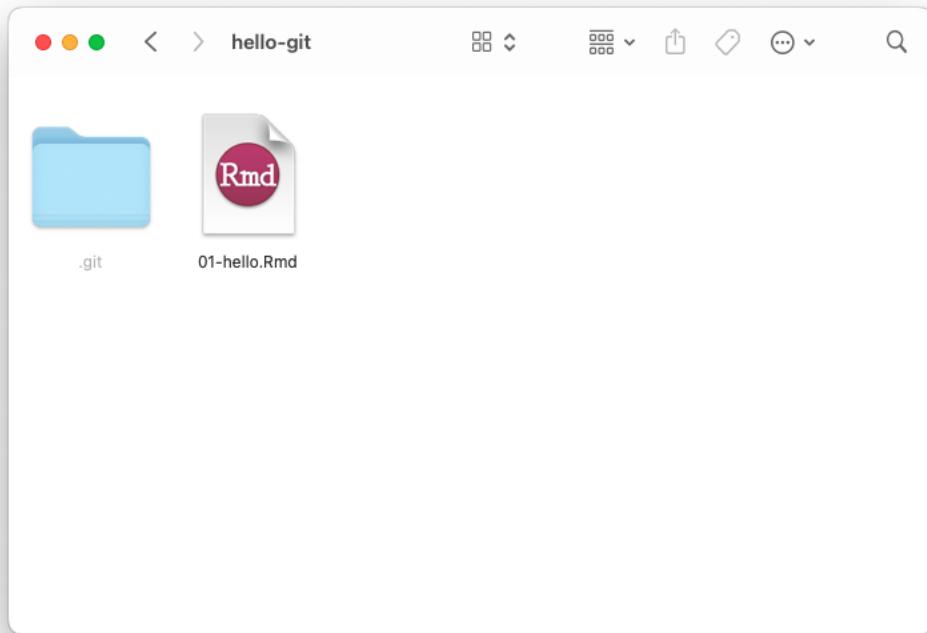
2023

2022

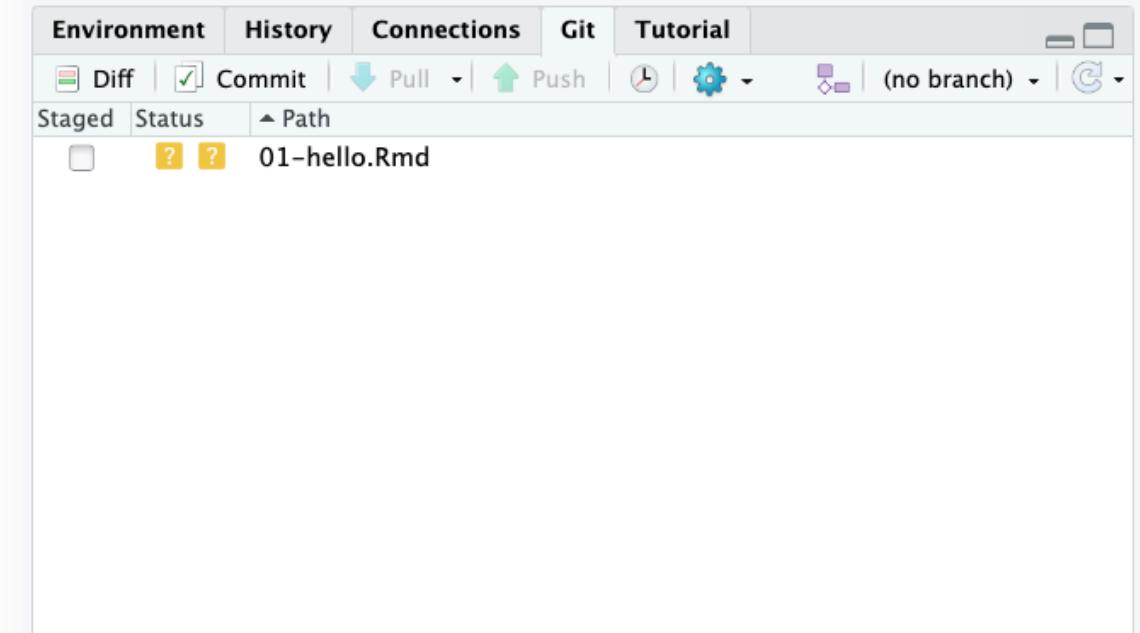
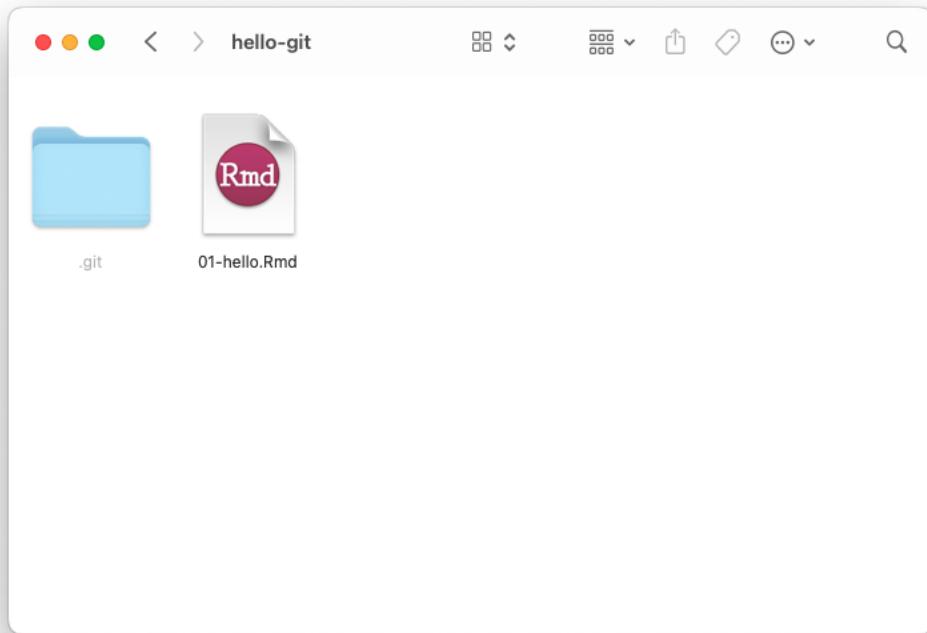
Терминал



Рабочая область (Working tree)

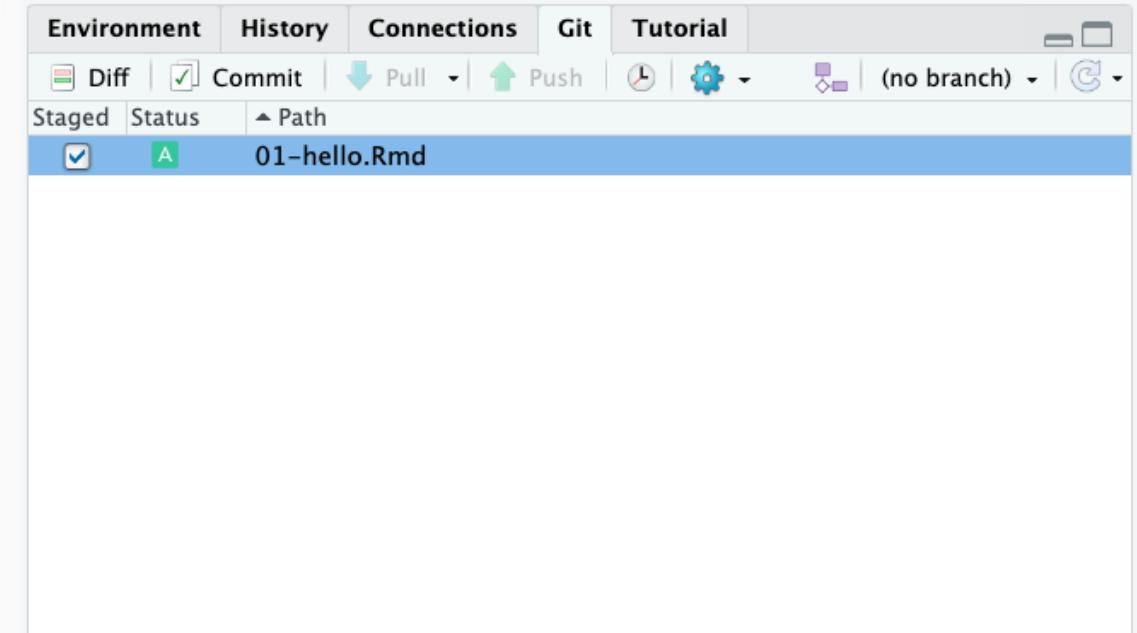
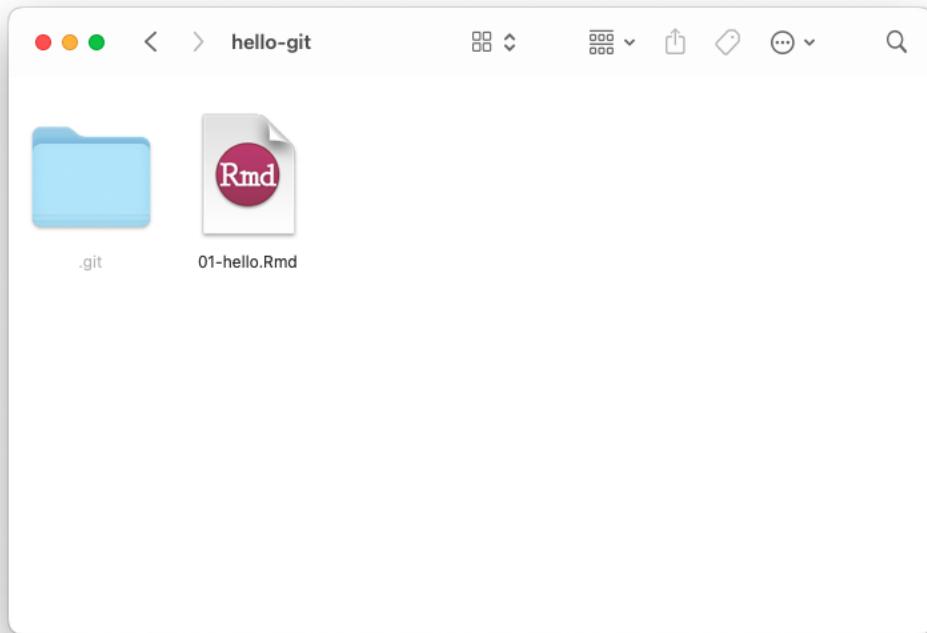


Рабочая область (Working tree)



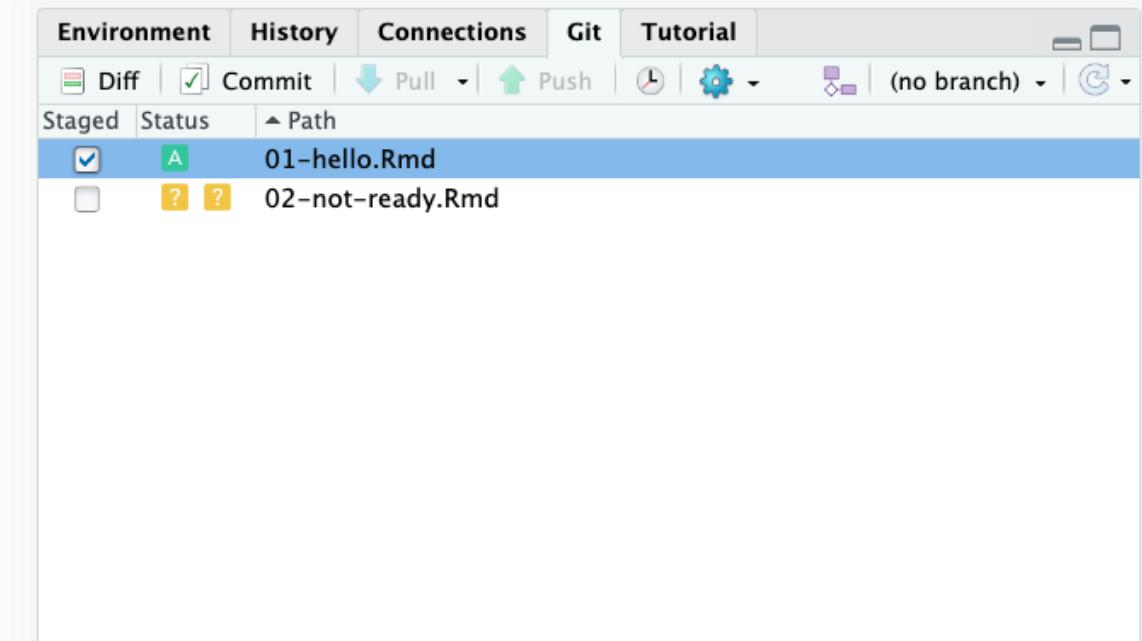
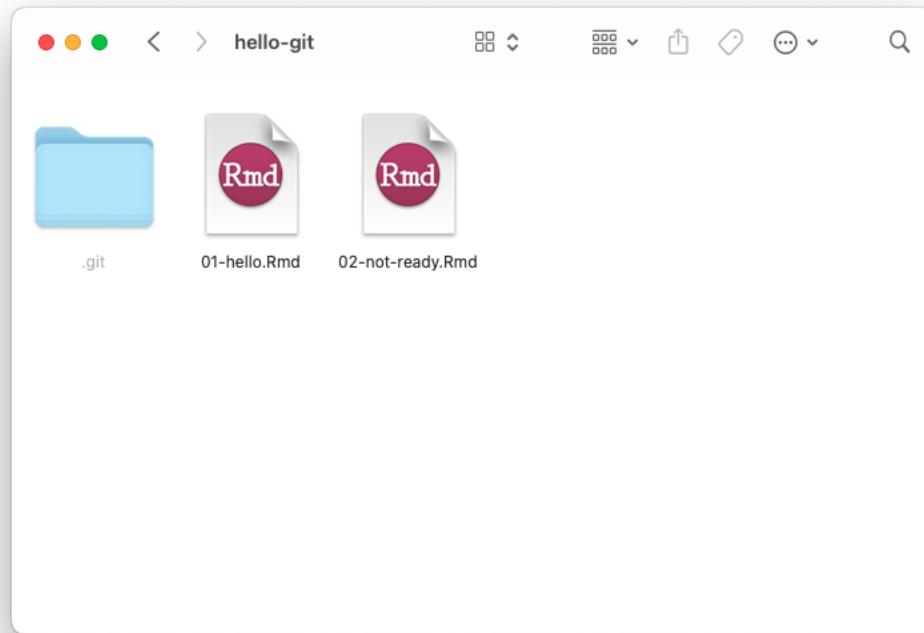
```
> touch 01-hello.Rmd
```

Рабочая область → Staging



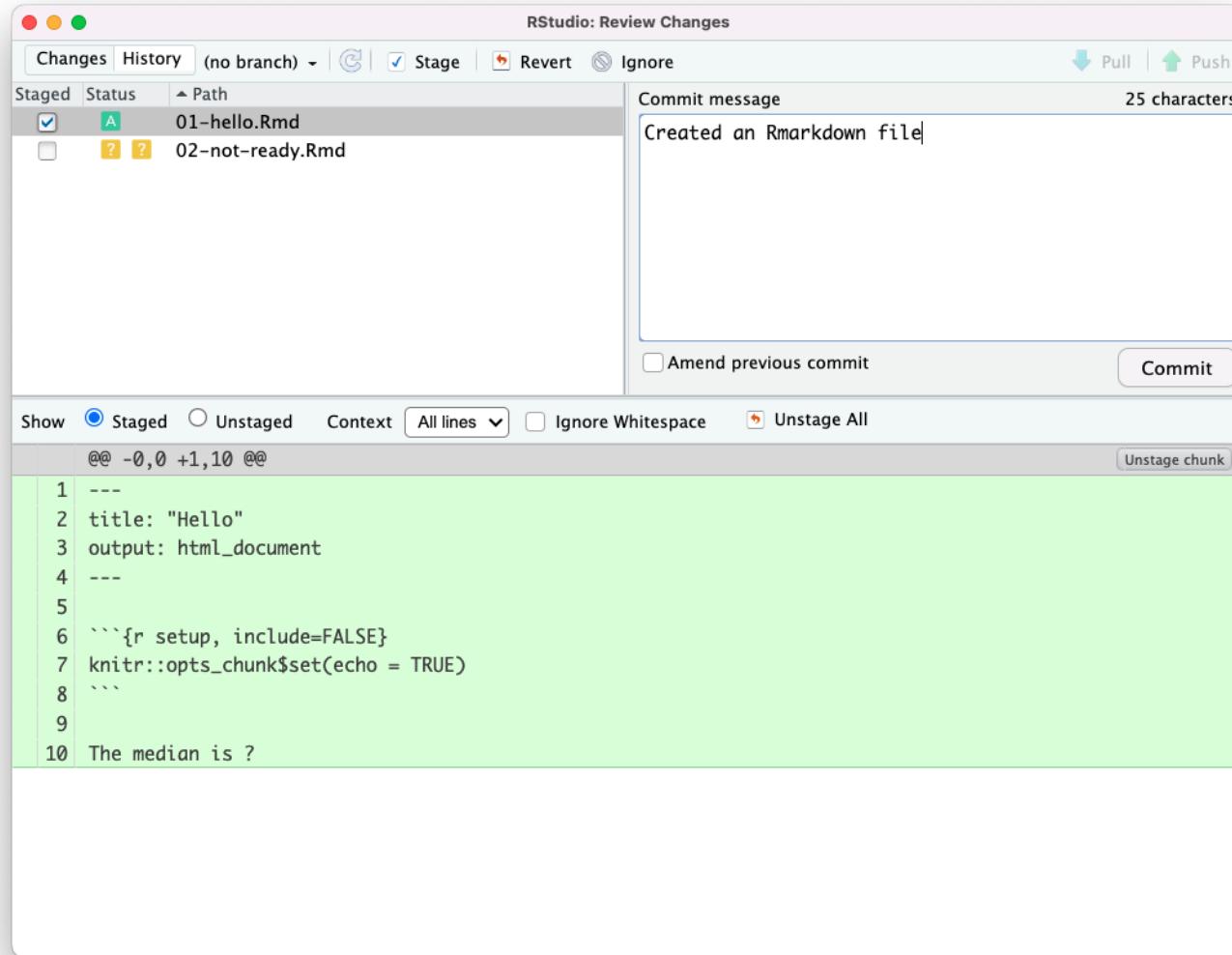
> git add 01-hello.Rmd

Рабочая область → Staging



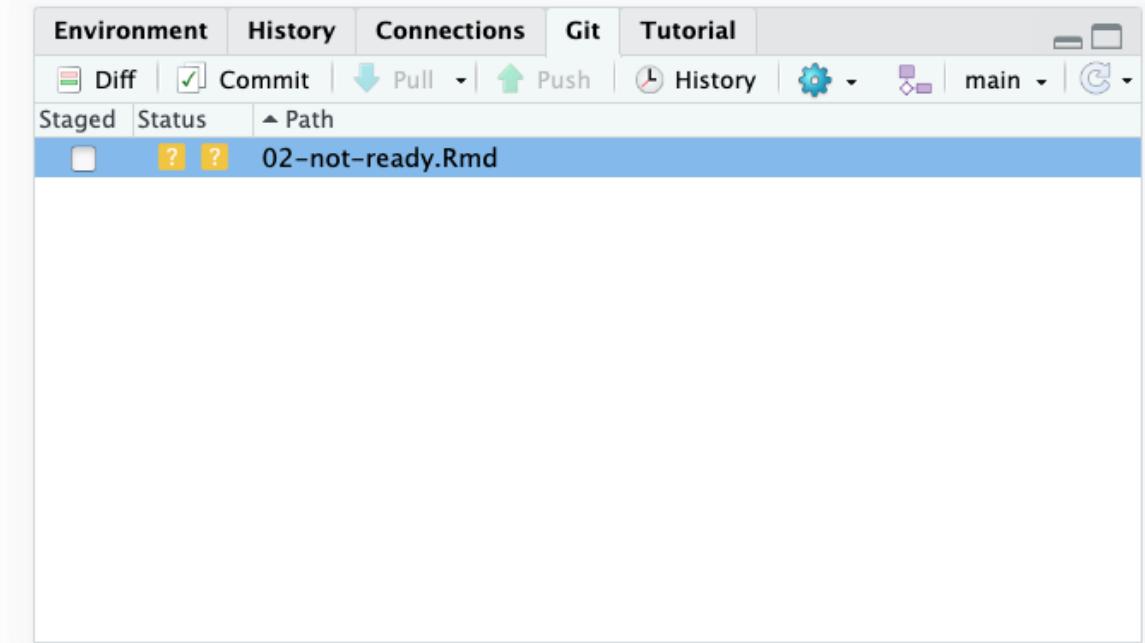
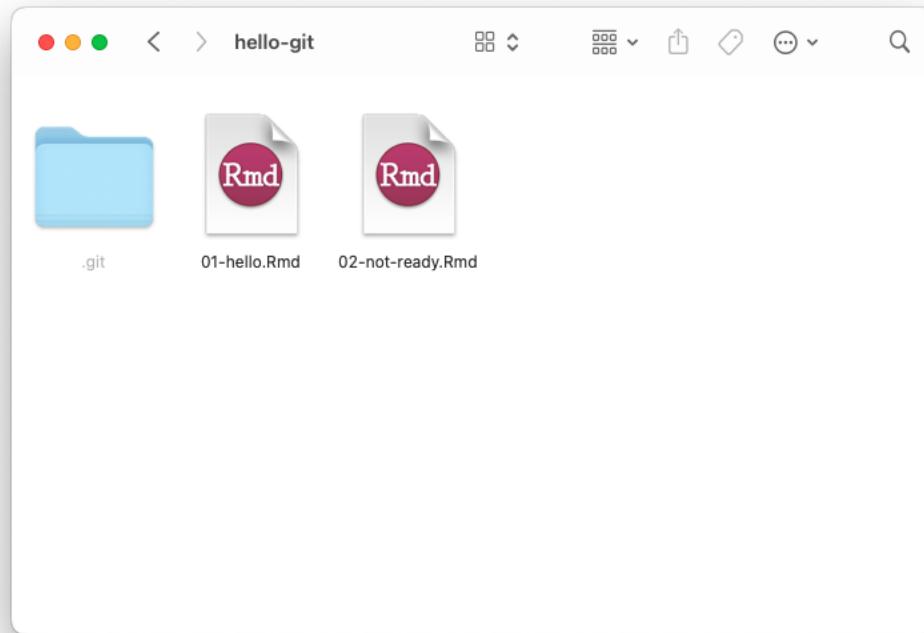
> touch 02-not-ready.Rmd

Фиксация изменений (Commit)

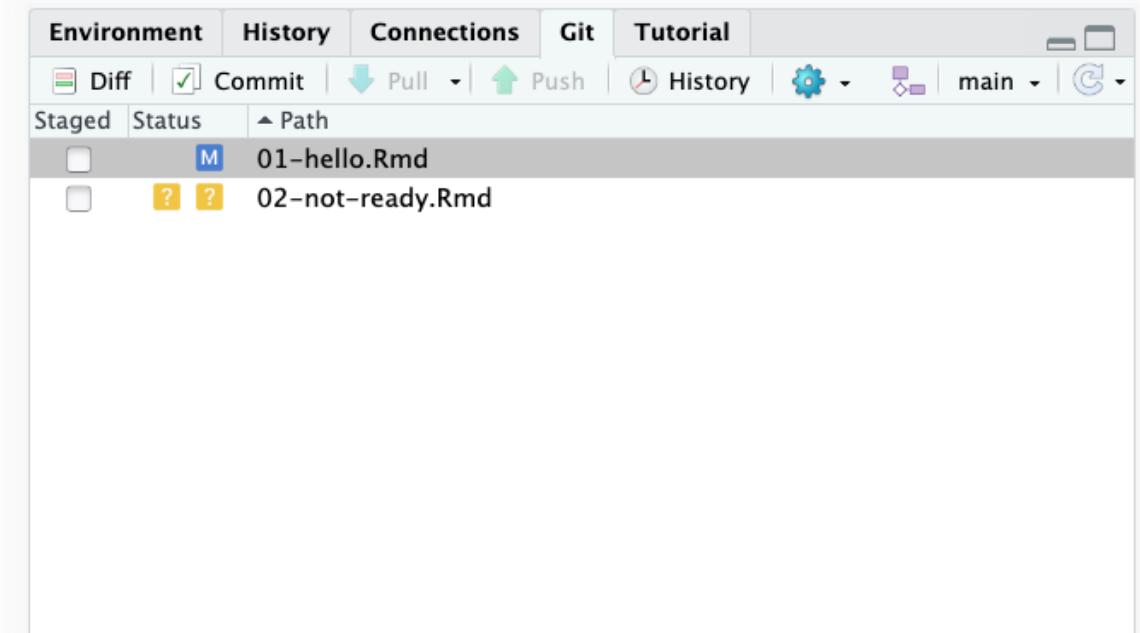
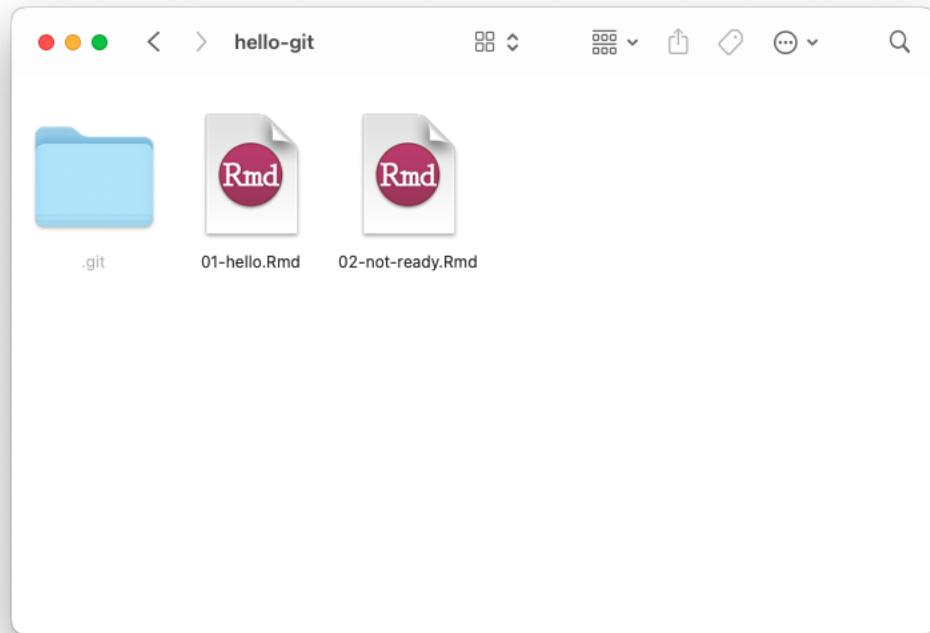


```
> git commit -m "Created an Rmarkdown file"
```

Рабочая область (Working tree)

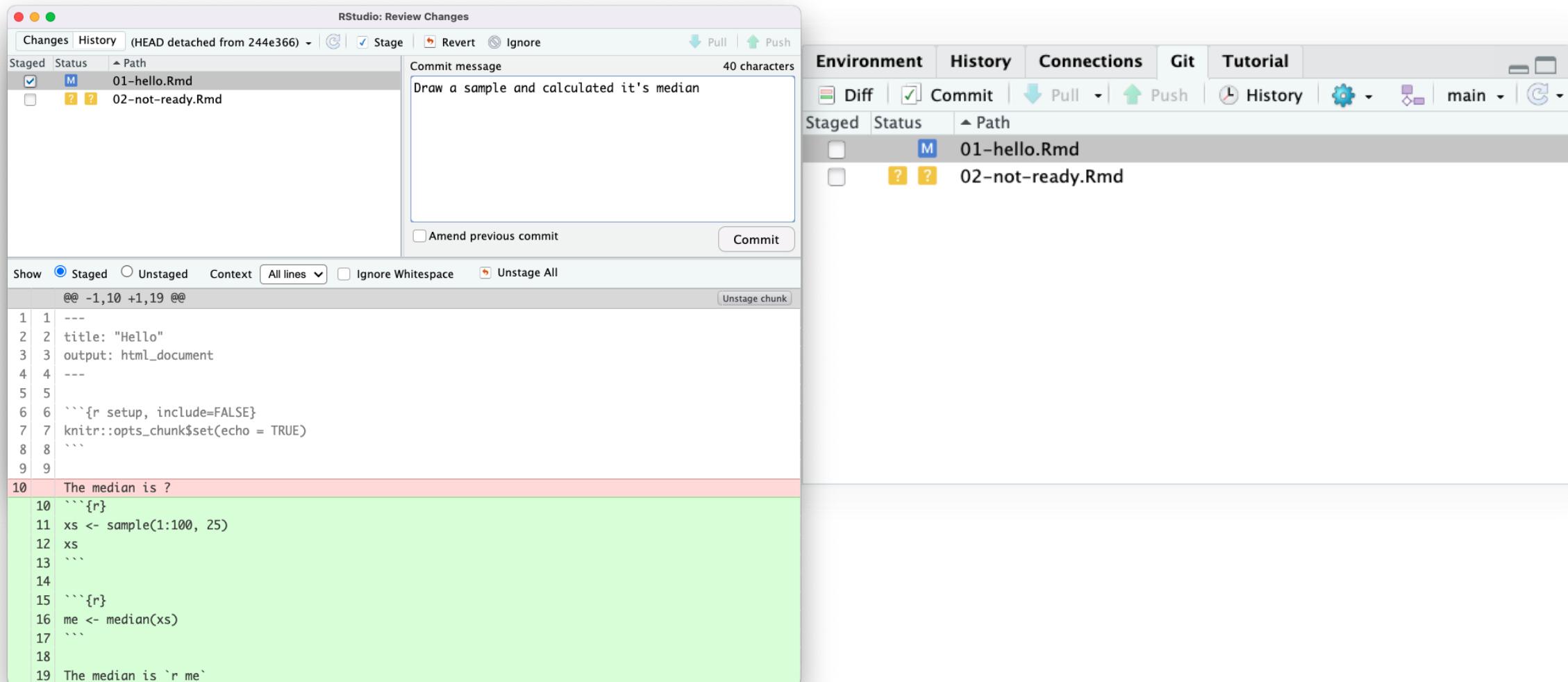


Рабочая область (Working tree)



```
> git add 01-hello.Rmd
```

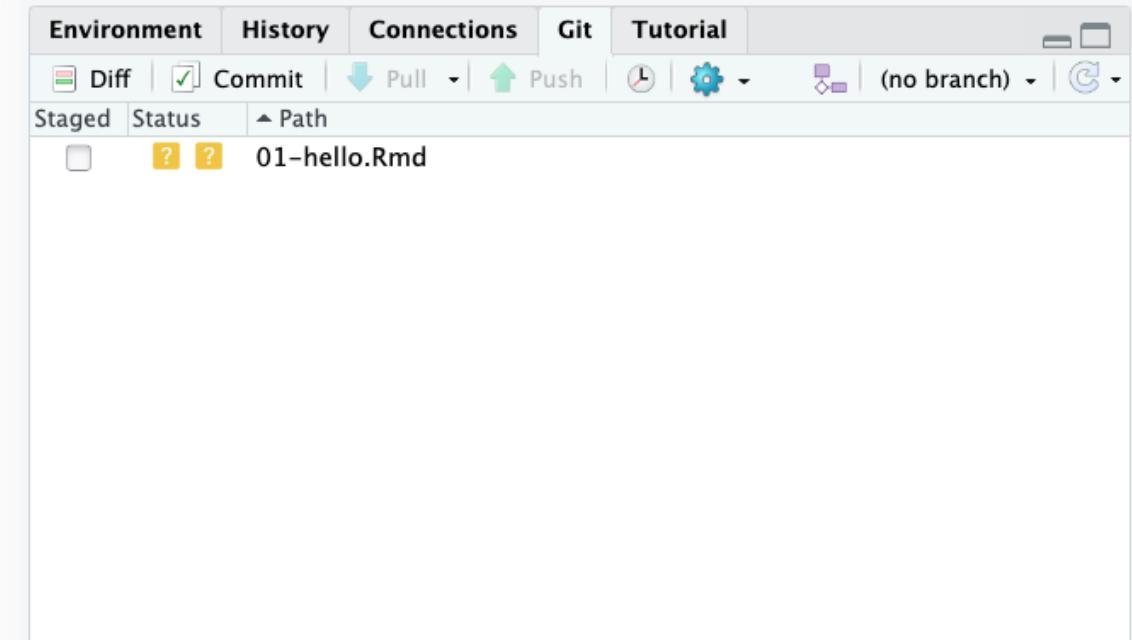
Фиксация изменений (Commit)



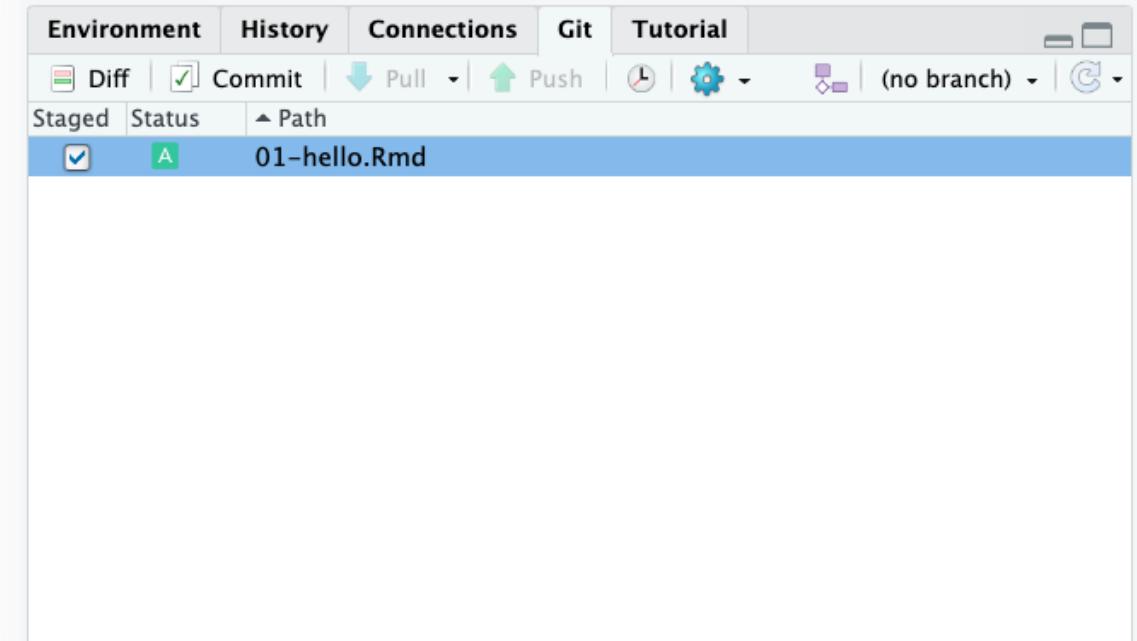
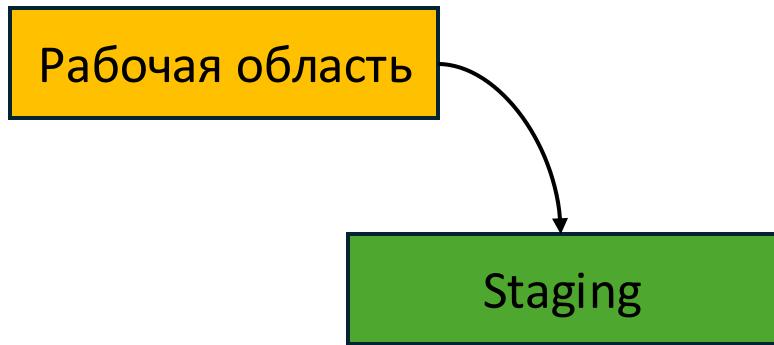
```
> git commit -m "Draw a sample and calculated it's median"
```

Итеративный процесс работы

Рабочая область

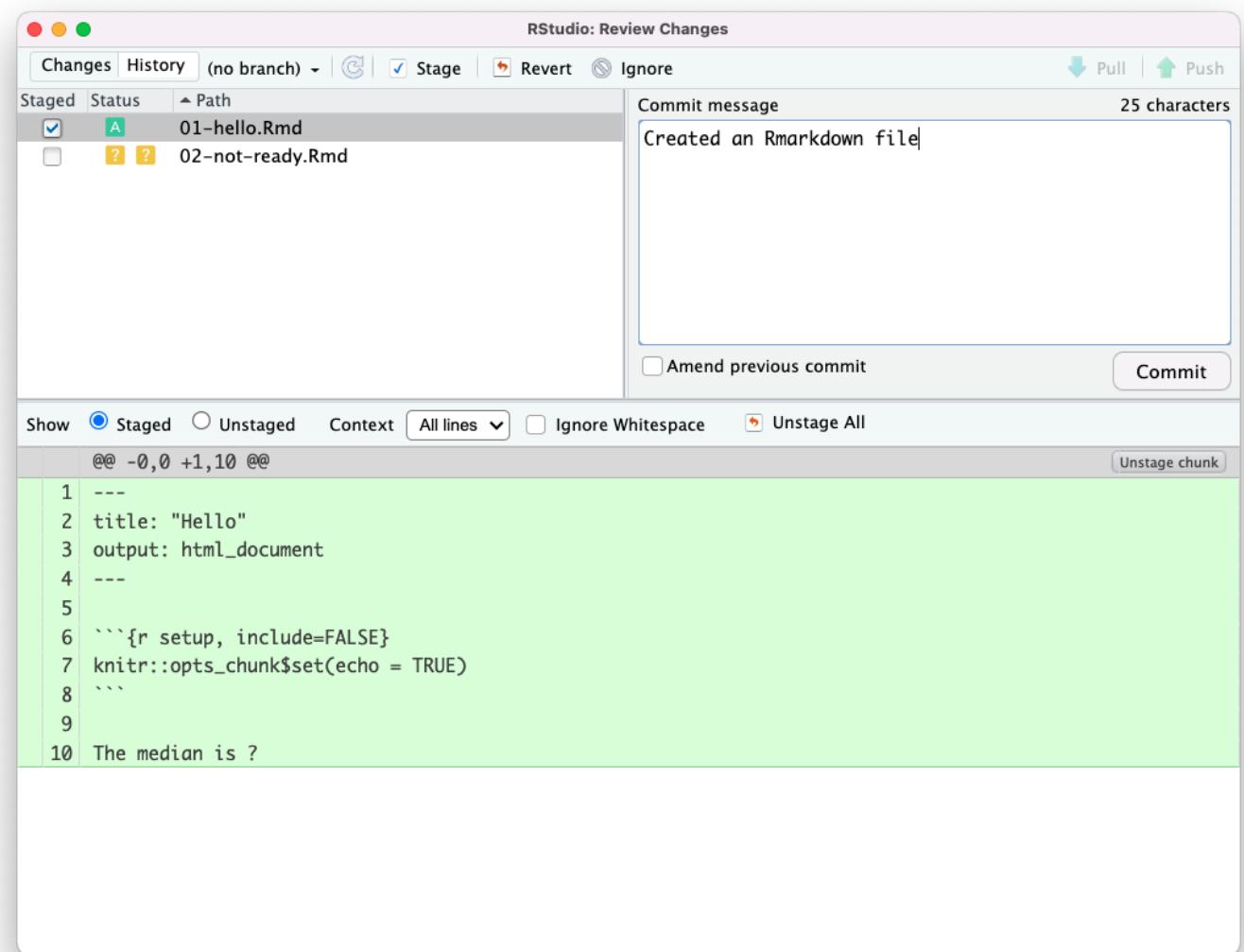
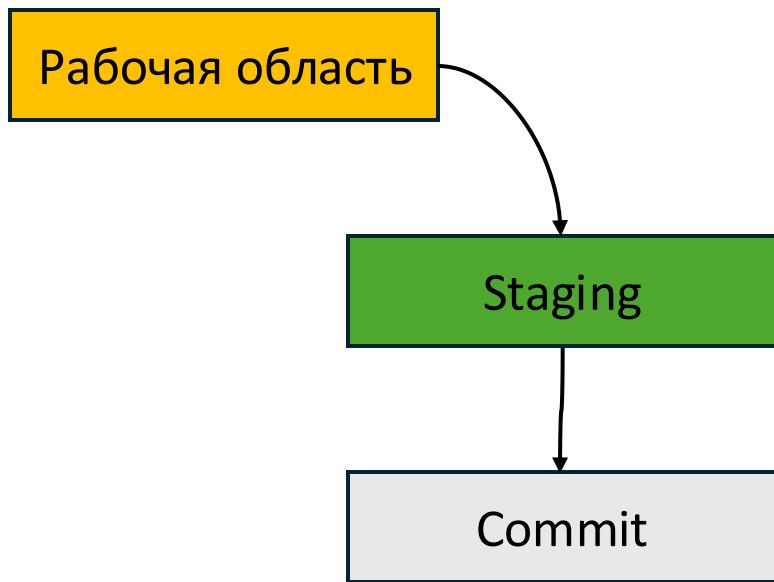


Итеративный процесс работы



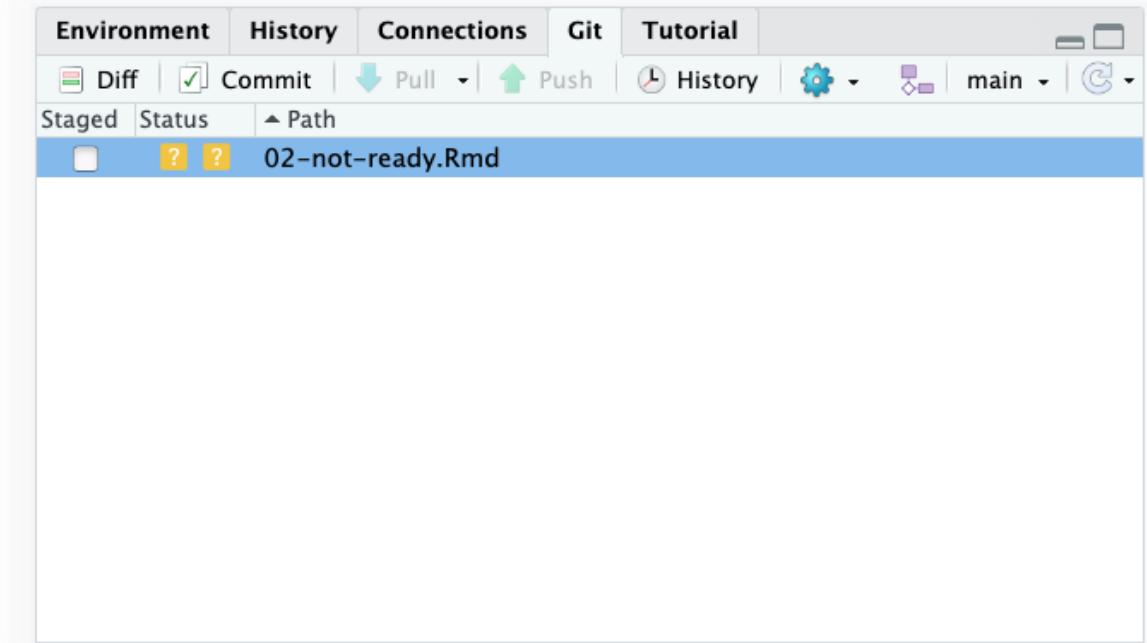
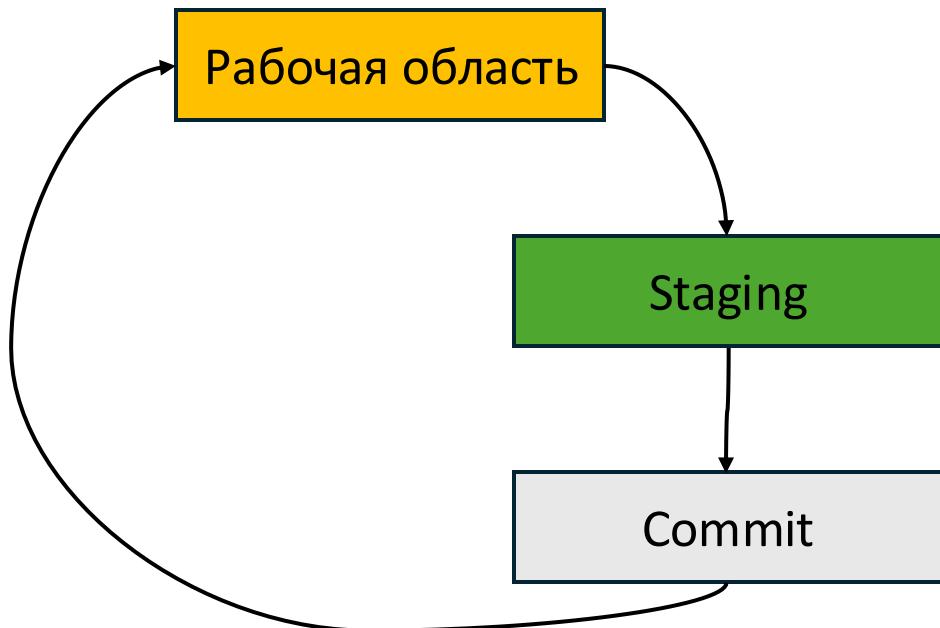
```
> git add 01-hello.Rmd
```

Итеративный процесс работы



```
> git commit -m "Created an Rmarkdown file"
```

Итеративный процесс работы



Журнал изменений (log)

RStudio: Review Changes

Changes History main - (all commits) | ⌂ Search Pull

Subject	Author	Date (UTC)	SHA
HEAD -> refs/heads/main Sampled top artists	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	8ebaba3e
Created packages snapshot	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	943a9704
Merge branch 'main' of https://github.com/yoursdearboy/hello- Kirill Voronin <yoursdearboy@gmail.com>	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	7af7b404
Downloaded and transformed billboard top 100 to top 10	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	11ecca28
readme Create README.md	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	3153ad90
Draw a sample and calculated it's median	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	343b6f67
Created an Rmarkdown file	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-11	bcce4337

Commits 1–7 of 7

SHA 8ebaba3e13780325feab9d6f930a2b74ce56426a
Author Kirill Voronin <yoursdearboy@gmail.com>
Date (UTC) 2024-12-11 14:41
Subject Sampled top artists
Parent 943a9704c8c60983fa04fb75f16a8d5428e6d2af

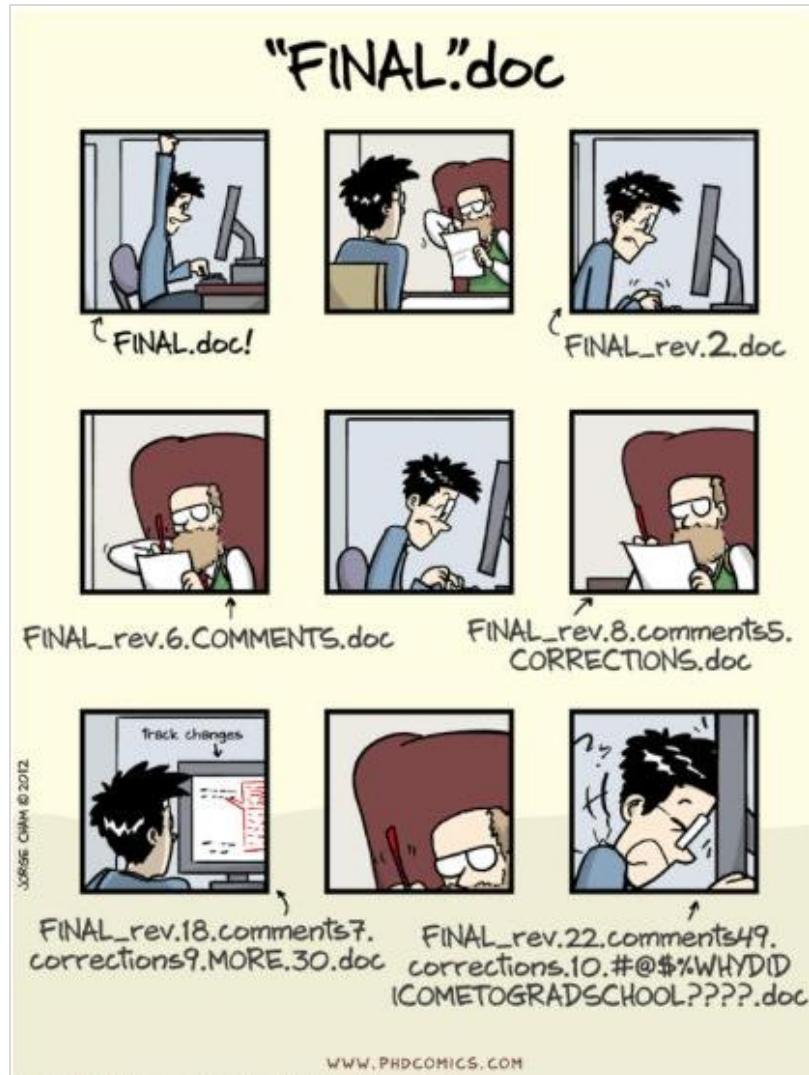
01-hello.Rmd

01-hello.Rmd View file @ 8ebaba3e

```
@@ -4,9 +4,19 @@ output: html_document
 4 4 ---
 5 5
 6 6 ````{r setup, include=FALSE}
 7 library(dplyr)
 8 library(readr)
 9
10 knitr::opts_chunk$set(echo = TRUE)
11 ```
12
13 ````{r data, include=FALSE}
14 top <- read_csv("billboard.csv") |>
15   select(date = "Date",
16         song = "Song",
17         artist = "Artist")
```

> git log

Ветви (branch)



Ветви (branch)

RStudio: Review Changes

Changes History main (all commits) ⌂ Search Pull

Subject	Author	Date (UTC)	SHA
HEAD -> refs/heads/main Updated report	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	611bd843
Merge branch 'eda'	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	28a354bf
Update README.md	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	0ca144fa
eda Merge branch 'ggplot2' into eda	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	f3e172d3
Made intermediate report	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	5a8de03b
ggplot2 Replaced plot with ggplot2	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	2a389f6f
Plotted distributions	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	0fb8039
Checked missing data patterns	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	b7af2580
Described variables	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	afbeaee2
Sampled top artists	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	1f522433
Created packages snapshot	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	7cc32a0d
Merge branch 'main' of https://github.com/yoursdearboy/hello-git	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	87a28066
Downloaded and transformed billboard top 100 to top 10	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	1129fdde
readme Create README.md	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	9d839e64
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Created an Rmarkdown file	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	a93059fc

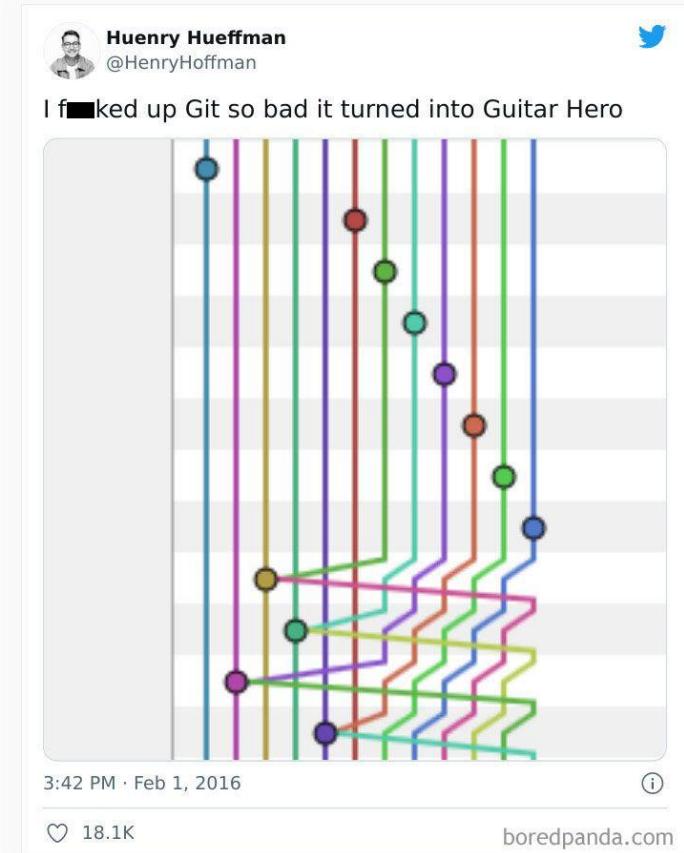
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> git branch



GitHub

PUSH



User A

PULL



User B

```
> git push  
> git pull
```

Pull Request (PR)

pharmaverse / ggsurvfit

Type to search

Code Issues 20 Pull requests 4 Discussions Actions Projects Security Insights

fixed KMunicate legend position in gallery.Rmd #223

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Conversation 1 Commits 3 Checks 11 Files changed 2

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Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.
None yet

Notifications Customize **Subscribe**
You're not receiving notifications from this thread.

2 participants

install.packages

```
> install.packages(c("readr", "dplyr"))
Installing packages into '/Users/aavoronin/Library/R/x86_64/4.4/library'
(as 'lib' is unspecified)
also installing the dependencies 'bit', 'prettyunits', 'pkgconfig', 'fansi', 'bit64', 'with
r', 'progress', 'utf8', 'cli', 'clipr', 'crayon', 'hms', 'lifecycle', 'R6', 'rlang', 'tibbl
e', 'vroom', 'cpp11', 'tzdb', 'generics', 'glue', 'magrittr', 'pillar', 'tidyselect', 'vctrs'
```

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```

2.1.5

install.packages

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Installing packages into '/Users/aavoronin/Library/R/x86_64/4.4/library'
(as 'lib' is unspecified)
also installing the dependencies 'bit', 'prettyunits', 'pkgconfig', 'fansi', 'bit64', 'with
r', 'progress', 'utf8', 'cli', 'clipr', 'crayon', 'hms', 'lifecycle', 'R6', 'rlang', 'tibbl
e', 'vroom', 'cpp11', 'tzdb', 'generics', 'glue', 'magrittr', 'pillar', 'tidyselect', 'vctrs'
```

2.1.5 → 3.0.4

renv

```
> renv::install(c("readr", "dplyr"))
```

The following package(s) will be installed:

- bit [4.5.0.1]
- bit64 [4.5.2]
- cli [3.6.3]
- clipr [0.8.0]
- cpp11 [0.5.1]
- crayon [1.5.3]
- dplyr [1.1.4]
- fansi [1.0.6]
- generics [0.1.3]
- glue [1.8.0]
- hms [1.1.3]
- lifecycle [1.0.4]
- magrittr [2.0.3]
- pillar [1.9.0]
- pkgconfig [2.0.3]
- prettyunits [1.2.0]
- progress [1.2.3]
- R6 [2.5.1]
- readr [2.1.5]
- rlang [1.1.4]
- tibble [3.2.1]
- tidyselect [1.2.1]
- tzdb [0.4.0]
- utf8 [1.2.4]
- vctrs [0.6.5]
- vroom [1.6.5]
- withr [3.0.2]

These packages will be installed into "~/Work/demo/renv/library/macos/R-4.4/x86_64-apple-darwin20".

renv

```
> renv::install(c("readr", "dplyr"))
The following package(s) will be installed:
- bit [4.5.0.1]
- bit64 [4.5.2]
- cli [3.6.3]
- clipr [0.8.0]
- cpp11 [0.5.1]
- crayon [1.5.3]
- dplyr [1.1.4]
- fansi [1.0.6]
- generics [0.1.3]
- glue [1.8.0]
- hms [1.1.3]
- lifecycle [1.0.4]
- magrittr [2.0.3]
- pillar [1.9.0]
- pkgconfig [2.0.3]
- prettyunits [1.2.0]
- progress [1.2.3]
- R6 [2.5.1]
- readr [2.1.5]
- rlang [1.1.4]
- tibble [3.2.1]
- tidyselect [1.2.1]
- tzdb [0.4.0]
- utf8 [1.2.4]
- vctrs [0.6.5]
- vroom [1.6.5]
- withr [3.0.2]
These packages will be installed into "~/Work/demo/renv/library/macos/R-4.4/x86_64-apple-darwin20".
```

renv.lock

renv::snapshot()



```
"prettyunits": { },
"progress": { },
"readr": {
  "Package": "readr",
  "Version": "2.1.5",
  "Source": "Repository",
  "Repository": "CRAN",
  "Requirements": [
    "R",
    "R6",
    "cli",
    "clipr",
    "cpp11",
    "crayon",
    "hms",
    "lifecycle",
    "methods",
    "rlang",
    "tibble",
    "tzdb",
    "utils",
    "vroom"
  ],
  "Hash": "9de96463d2117f6ac49980577939dfb3"
},
"renv": {
  "Package": "renv",
  "Version": "1.0.11",
  "Source": "Repository",
  "Repository": "CRAN",
  "Requirements": [
    "utils"
  ],
  "Hash": "47623f66b4e80b3b0587bc5d7b309888"
},
"rlang": { },
"tibble": { },
"tidyselect": { }
```

Что нужно сделать

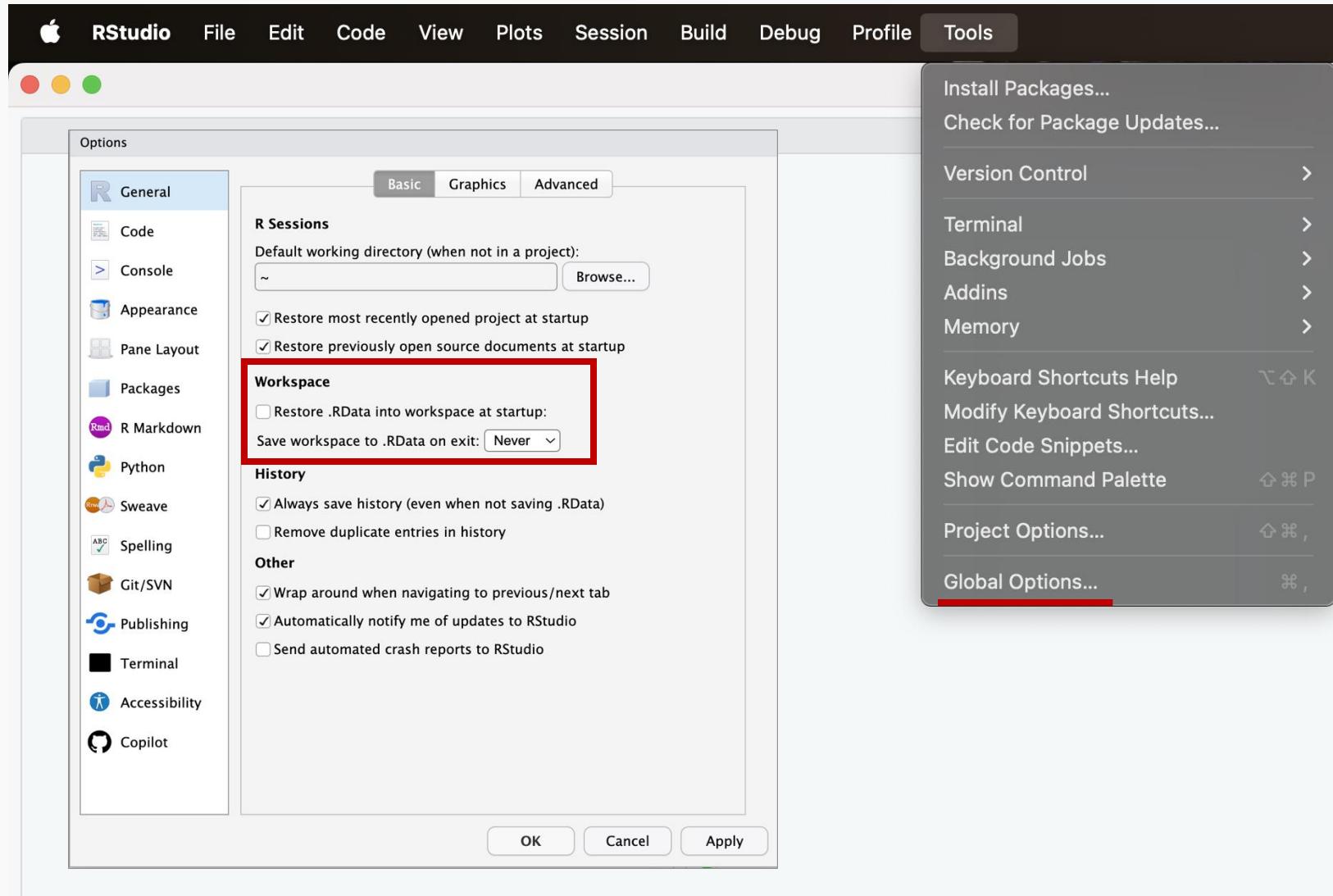
- Создать ветку
- Добавить 5 фильмов в movies.txt
- Запушить, сделать PR и попросить его замержить

Что еще можно сделать

- Топ фильмов в год вашего рождения или любой другой
- Кто продержался в топе дольше всего
- Биоразнообразие (актеров) за каждый год

$$H = - \sum_{i=1}^A p_i \log p_i \quad A - \text{кол-во актеров} \quad p_i - \text{частота попаданий актера в топ}$$

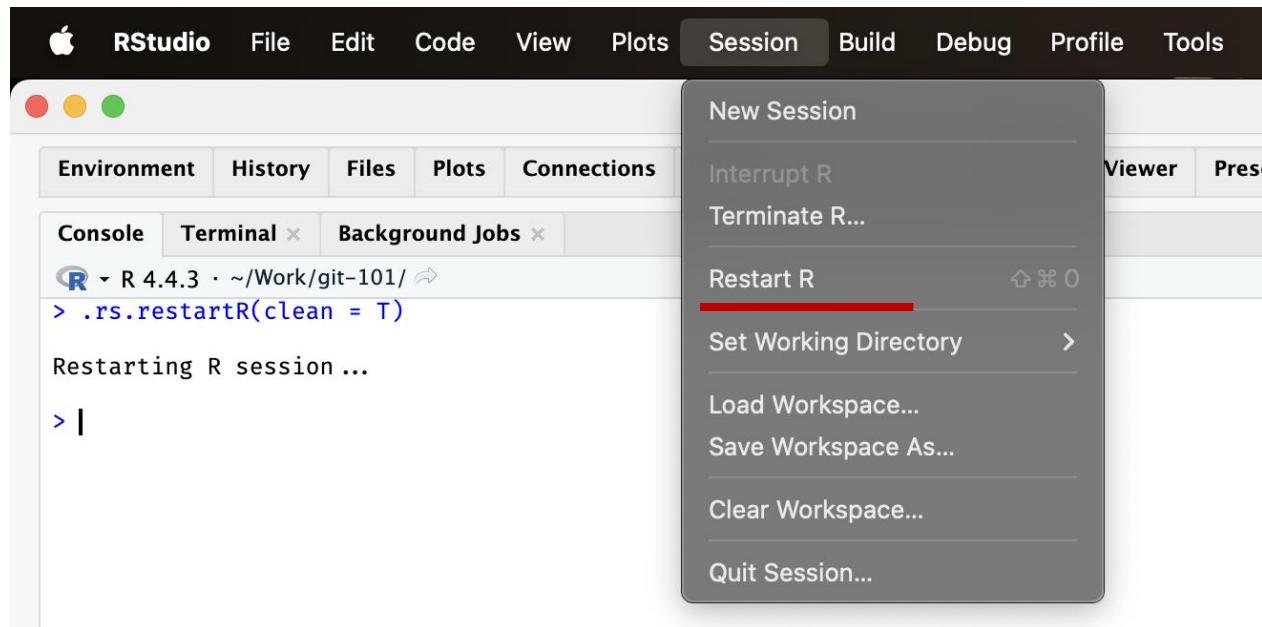
Используйте чистую сессию



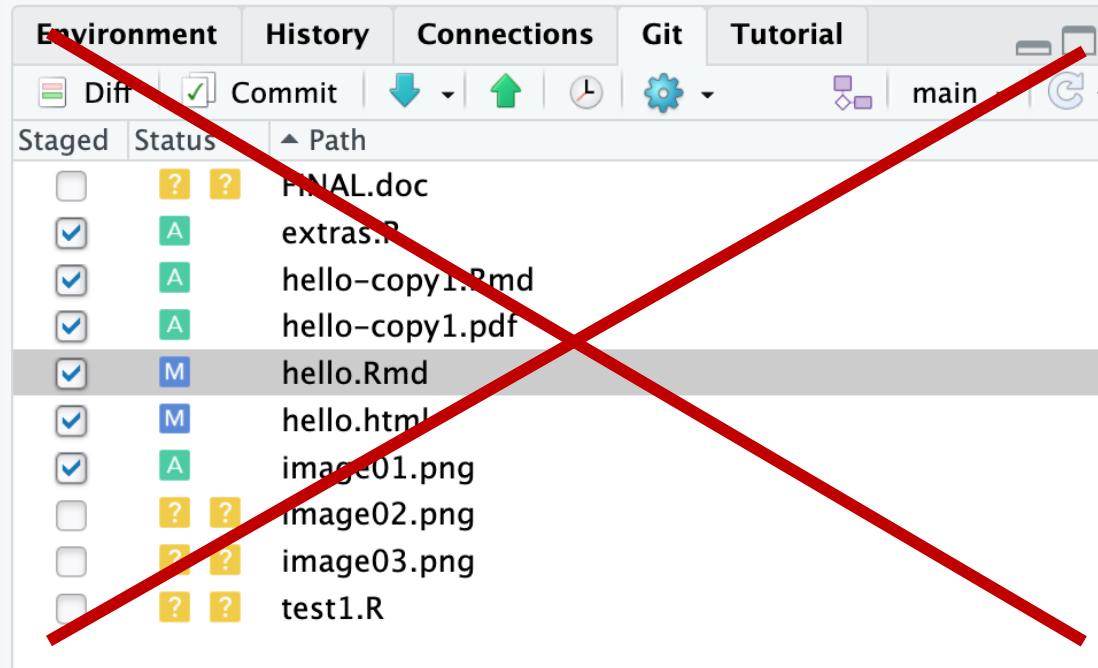
В директории проекта
не должно быть файла

.RData
(файл с состоянием)

Перезапускайте сессию



Не копите изменения в рабочей области



ПКМ -> revert



amend – редактирует последний коммит

The screenshot shows the RStudio interface for reviewing changes. In the top right, there's a 'Commit message' field containing 'Cleaned up report' with a character count of '17 characters'. Below it is a checkbox labeled 'Amend previous commit' which is checked. A red arrow points to this checkbox. To the right of the checkbox is a 'Commit' button. At the bottom of the interface, there's a code diff view with lines numbered 1 through 18. Lines 13 and 14 are highlighted in pink, while lines 13 and 14 are highlighted in green. The code itself is R code related to reading a CSV file and selecting specific columns.

```
@@ -1,51 +1,46 @@
1 1 ---
2 2 title: "Hello"
3 3 output: html_document
4 4 ---
5 5
6 6 ```{r setup, include=FALSE}
7 7 library(dplyr)
8 8 library(readr)
9 9
10 10 knitr::opts_chunk$set(echo = TRUE)
11 11 ```
12 12
13 13 ```{r data, include=FALSE}
14 14 top <- read_csv("billboard.csv") |>
15 15     select(date = "Date",
16 16             song = "Song",
17 17             artist = "Artist")
18 18 ````
```

Только последний
Только не запущенный

push rejection

Git Push

[Close](#)

```
>>> /usr/bin/git push origin HEAD:refs/heads/main
To https://github.com/yoursdearboy/hello-git-2.git
! [rejected]      HEAD -> main (fetch first)
error: failed to push some refs to 'https://github.com/yoursdearboy/hello-git-2.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

merge conflict

<<<<< feature-a

Изменения из feature-a

=====

Изменения из main

>>>>> main

merge conflict

<<<<< feature-a

Изменения из feature-a

=====

Изменения из main

>>>>> main



Убираем вспомогательные символы

Согласуем между собой

Изменения из feature-a и main

Чтобы был обычный запускаемый код

merge conflict

```
```{r}  
library(tidyverse)
```

```
source("data.R")
```
```

```
<<<<< advanced-plots
```

```
```{r}  
plot(density(top$x))
=====
```

```
```{r}  
ggplot(top, aes(x)) +  
  geom_histogram()  
>>>>> main  
```
```

# merge conflict

```
```{r}  
library(tidyverse)
```

```
source("data.R")  
```
```

```
<<<<< advanced-plots
```

```
```{r}  
plot(density(top$x))
```

```
=====
```

```
```{r}  
ggplot(top, aes(x)) +
 geom_histogram()
>>>>> main
```
```

```
```{r}  
library(tidyverse)
```

```
source("data.R")
```
```

```
```{r}  
ggplot(top, aes(x)) +
 geom_density()
```
```

merge conflict

```
```{r}  
library(tidyverse)
```

```
source("data.R")
```
```

```
<<<<< advanced-plots
```

```
```{r}  
plot(density(top$x))
```

```
=====
```

```
```{r}  
ggplot(top, aes(x)) +  
  geom_histogram()  
>>>>> main  
```
```

```
```{r}  
library(tidyverse)
```

```
source("data.R")  
```
```

```
```{r}  
ggplot(top, aes(x)) +  
  geom_density()  
```
```



# git push --force

Вы пытаетесь переписать чужие изменения.

Вы пытаетесь переписать свои изменения,  
но если их уже кто-то запулил –  
все сгорит 💀



# Все сломалось

- Закройте RStudio и переименуйте папку
- Склонируйте репозиторий заново
- Внесите изменения из старой папки
- Удалите старую папку



# Адрес: https vs ssh

The screenshot shows a GitHub repository page for 'git-101'. The repository is public and has 1 branch and 0 tags. The main commit message is from 'yoursdearboy' adding IDMB top 250 data from 1980 to 2024. The 'Clone' section displays two options: 'HTTPS' and 'SSH'. The 'HTTPS' option is highlighted with a red box. Below it is the URL 'https://github.com/yoursdearboy/git-101.git'. Other options shown are 'Open with GitHub Desktop' and 'Download ZIP'. The 'About' section indicates no description, website, or topics are provided. It also shows 0 stars, 1 watching, and 0 forks. The 'Releases' section shows no releases published and a link to 'Create a new release'.

HTTPS – по токену (то что сгенерировали перед занятием)

SSH – по SSH ключам (нужно генерировать)

# Структура репозитория

- data/surgery.csv
- data.R
- misc.R
- 01-EDA.Rmd (01-EDA.html)
- 02-plot.Rmd (02-plot.html)
- 03-model.Rmd (03-model.html)
- README.md
- renv.lock

Тоже кладем в Git (версионируем).  
Есть история правок в данные.

Всю обработку данных кладем в Git.

`source("data.R")`  
`source("misc.R")`

# README.md

## # Название проекта

Краткое описание

## ## Данные

В файле [\[imdb250.csv\]](#)(imdb250.csv) содержится  
250 самых оцениваемых фильмов с 1980 по 2024 год.

## ## Анализ выживаемости

Краткое описание и ссылка на файл с анализом. Общая выживаемость проанализирована при помощи [\[регрессии Кокса, построены скорректированные \(adjusted\) кривые выживаемости\]\(03-mod.Rmd\)](#) при помощи survexp<sup>[^1]</sup>.

[^1]: Adjusted Survival Curves. Therneau, Crowson, Atkinson, 2015

# assertr

```
df <- tibble(x = rnorm(10))

df |> # вставляется в пайпайн
 verify(x > 0) |> # любое логическое выражение
 mutate(x = log(x))

df |>
 assert(not_na, x, y) # не NA

df |>
 assert(is_uniq, id) # проверка на уникальность
```

# Встроенные предикаты

`within_bounds(0,1)` # в диапазоне от 0 до 1

`in_set("M","F")` # из множества M, F

`within_n_sds(5)` #  $\pm n$  SD

`within_n_mads(5)` #  $\pm n$  MAD

# reprex (Reproducible Example)

```
set.seed(42) # Фиксируем ГСЧ

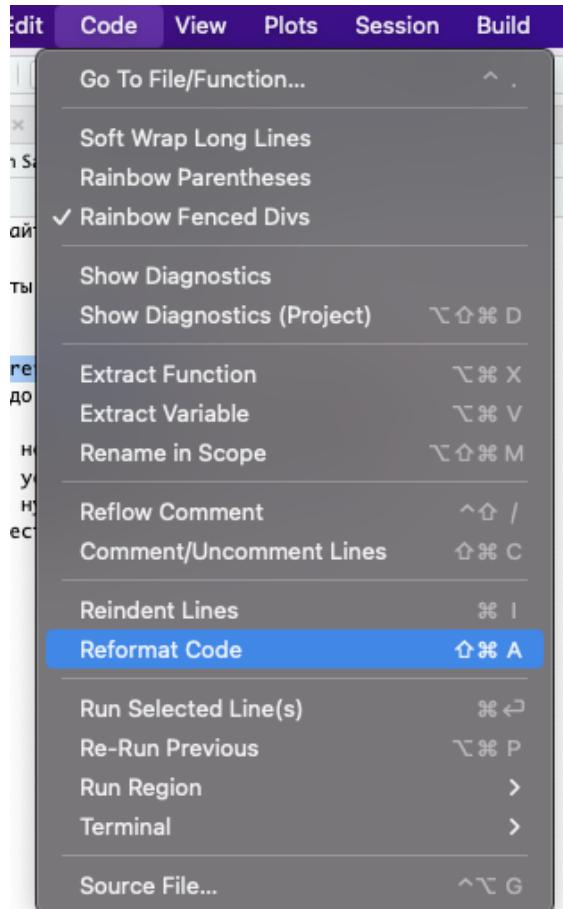
x <- rnorm(100) # Минимальные данные

df <- tribble(~ x, ~ y,
 "M", 12.3,
 "F", 45.6) # или датасет

lm(mpg ~ wt + vs, mtcars) # код
Coefficients: # в идеале с результатом
(Intercept) wt vs # в комментариях
33.004 -4.443 3.154

sessionInfo() #
...
```

# Reformat code

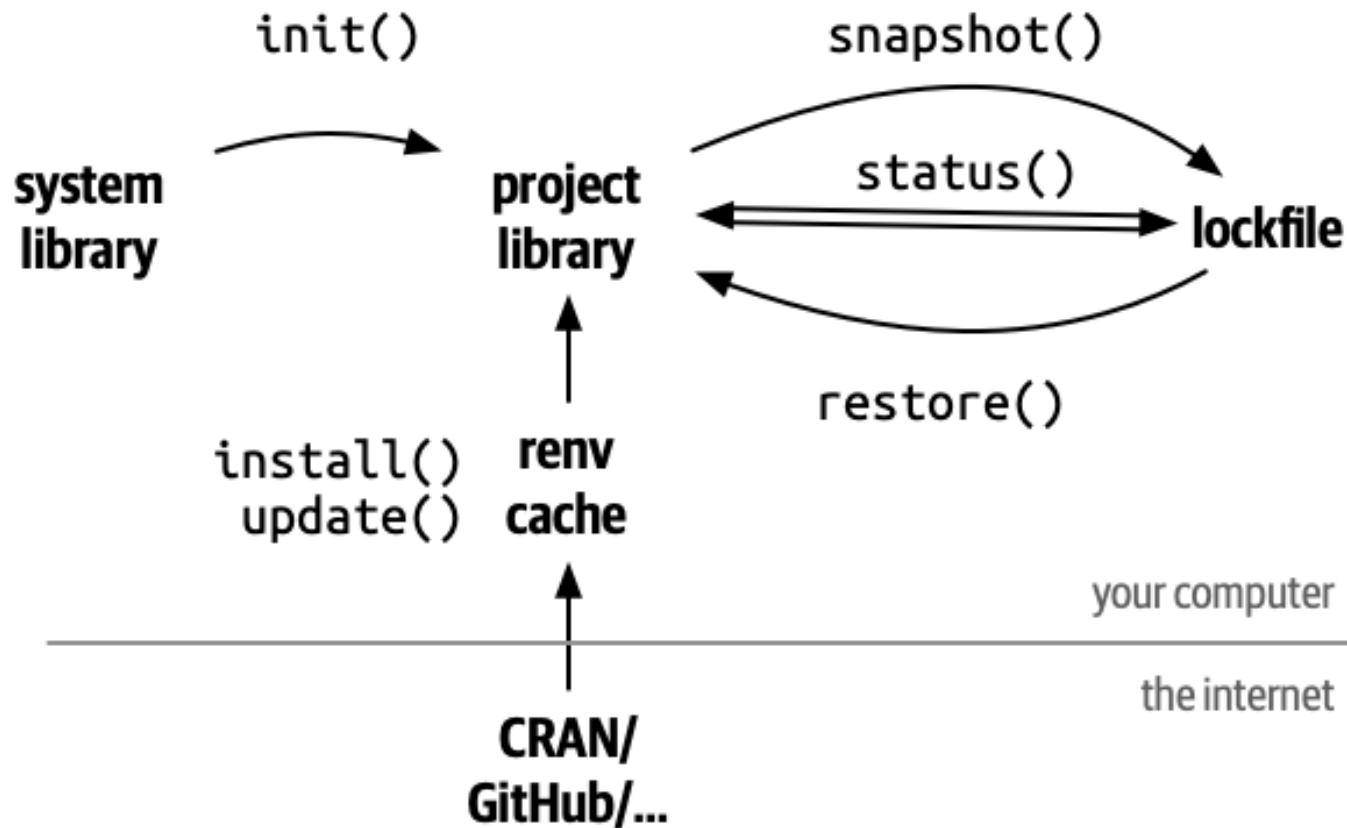


```
```{r}
artists <- modern |>
  count(artist) |>
  arrange(-n) |>
  filter(! artist %in% c("Soundtrack",
                        "Various Artists"))
```
```
```

```
```{r}
artists <- modern |>
 count(artist) |>
 arrange(-n) |>
 filter(!artist %in% c("Soundtrack", "Various Artists"))
```

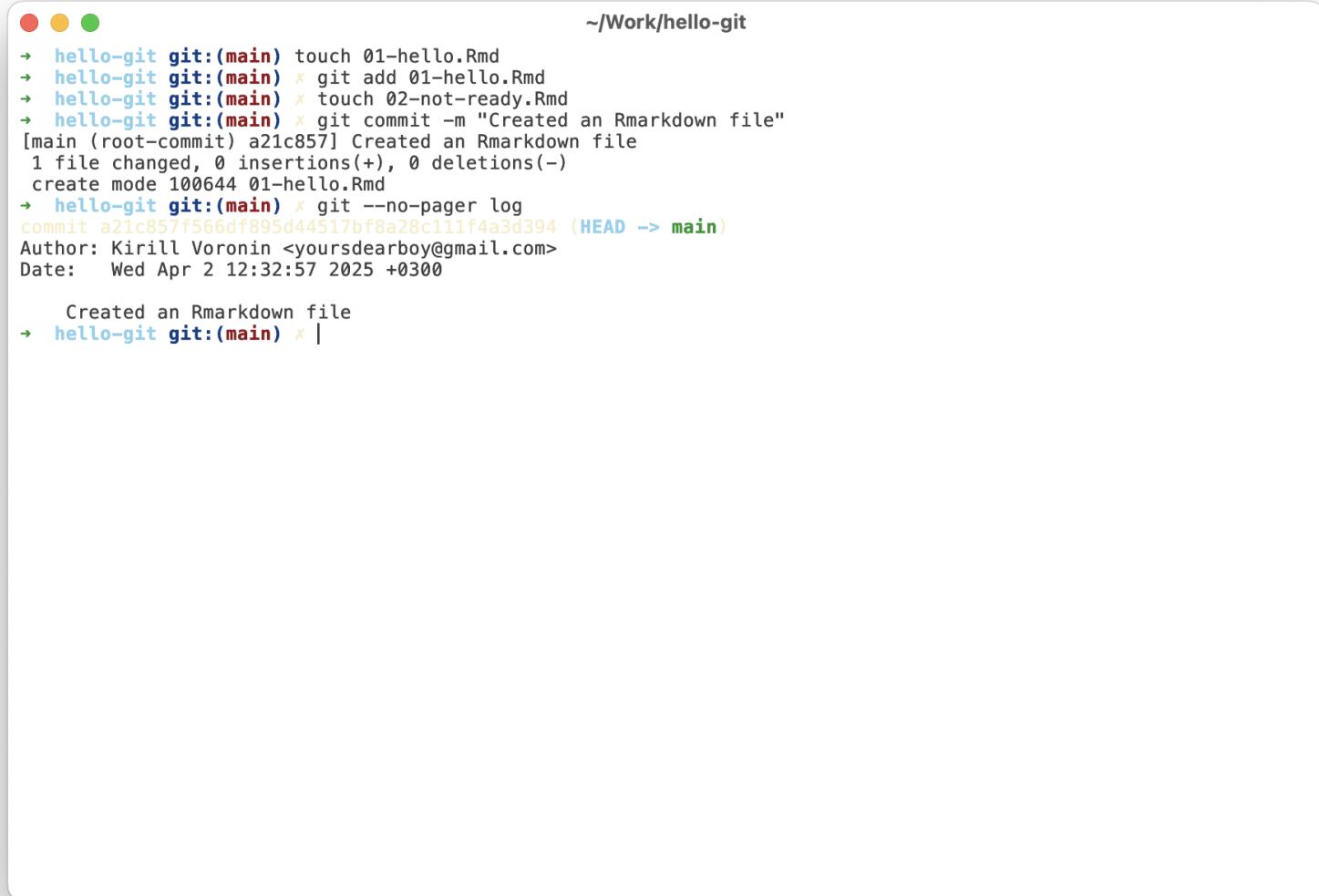
```

renv



Клиенты

- git (терминал)



The screenshot shows a terminal window with a light gray background and dark gray text. At the top right, it says `~/Work/hello-git`. The terminal history is as follows:

```
hello-git git:(main) touch 01-hello.Rmd
hello-git git:(main) ✘ git add 01-hello.Rmd
hello-git git:(main) ✘ touch 02-not-ready.Rmd
hello-git git:(main) ✘ git commit -m "Created an Rmarkdown file"
[main (root-commit) a21c857] Created an Rmarkdown file
  1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 01-hello.Rmd
hello-git git:(main) ✘ git --no-pager log
commit a21c857f566df895d44517bf8a28c111f4a3d394 (HEAD -> main)
Author: Kirill Voronin <yoursdearboy@gmail.com>
Date:   Wed Apr 2 12:32:57 2025 +0300

  Created an Rmarkdown file
hello-git git:(main) ✘ |
```

Клиенты

- git (терминал)
- RStudio

RStudio: Review Changes

Changes History main - (all commits) | C Search | Pull

| Subject | Author | Date (UTC) | SHA |
|--|---|------------|----------|
| HEAD -> refs/heads/main Sampled top artists | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | 8ebaba3e |
| Created packages snapshot | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | 943a9704 |
| Merge branch 'main' of https://github.com/yoursdearboy/hello- Kirill Voronin <yoursdearboy@gmail.com> 2024-12-11 | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | 7af7b404 |
| Downloaded and transformed billboard top 100 to top 10 | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | 11ecca28 |
| readme Create README.md | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | 3153ad90 |
| Draw a sample and calculated it's median | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | 343b6f67 |
| Created an Rmarkdown file | Kirill Voronin <yoursdearboy@gmail.com> | 2024-12-11 | bcce4337 |

Commits 1-7 of 7

SHA 8ebaba3e13780325feab9d6f930a2b74ce56426a
Author Kirill Voronin <yoursdearboy@gmail.com>
Date (UTC) 2024-12-11 14:41
Subject Sampled top artists
Parent 943a9704c8c60983fa04fb75f16a8d5428e6d2af

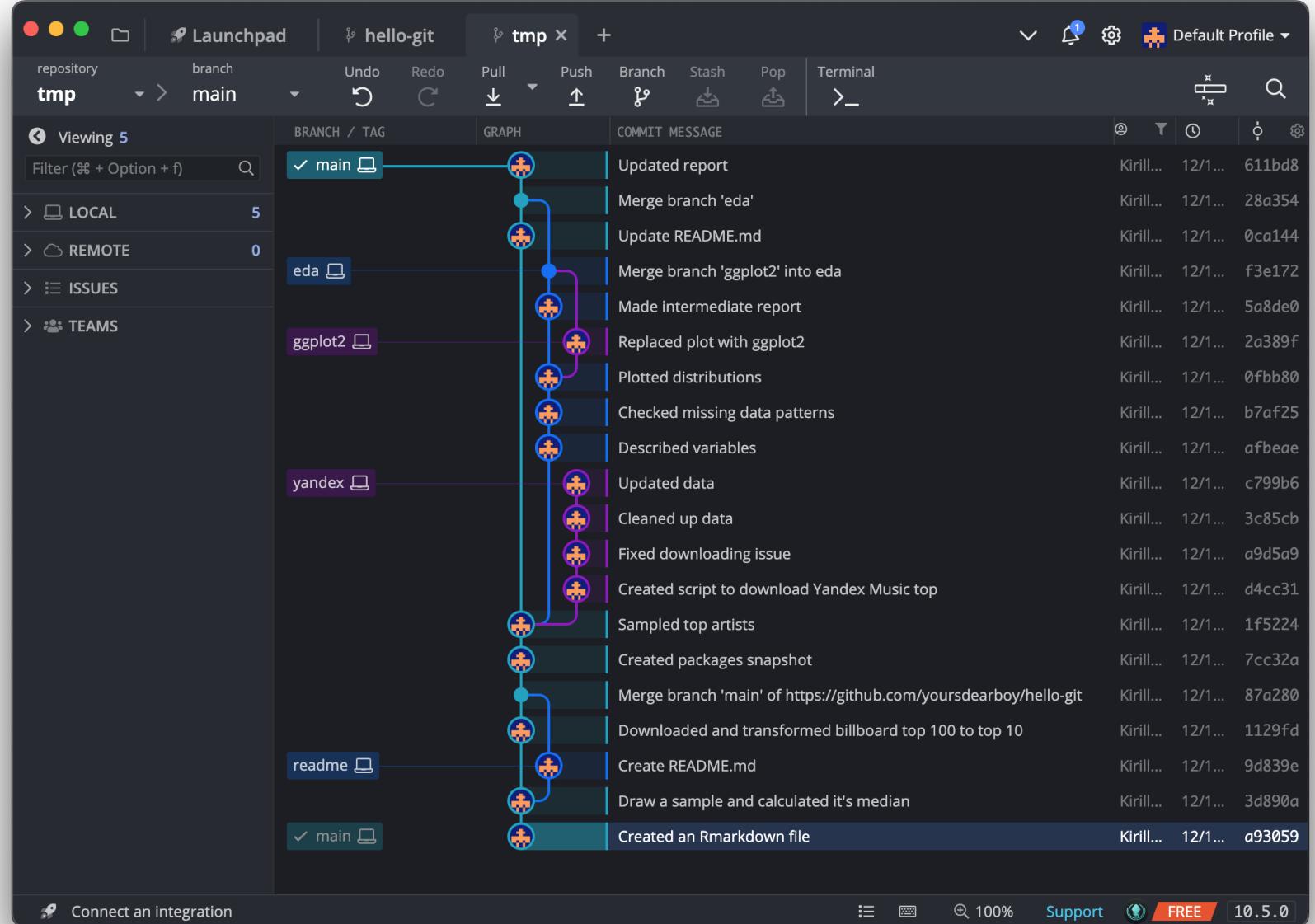
01-hello.Rmd

View file @ 8ebaba3e

```
@@ -4,9 +4,19 @@ output: html_document
 4 4 ---
 5 5
 6 6 ````{r setup, include=FALSE}
 7 library(dplyr)
 8 library(readr)
 9
 10 knitr::opts_chunk$set(echo = TRUE)
 11 ```
 12
 13 ````{r data, include=FALSE}
 14 top <- read_csv("billboard.csv") %>
 15   select(date = "Date",
 16         song = "Song",
 17         artist = "Artist")
```

Клиенты

- git (терминал)
- RStudio
- GitKraken



Клиенты

- git (терминал)
- RStudio
- GitKraken
- GitHub Desktop

The screenshot shows the GitHub Desktop application interface. At the top, it displays the current repository as "Current Repository desktop", the branch as "Current Branch the-end-of-it-all #15640" with a green checkmark, and the status "Pull origin Last fetched 5 minutes ago".

In the main area, there are two tabs: "Changes" (selected) and "History". The "Changes" tab shows three changed files: "app/src/ui/.../seamless-diff-switcher.tsx", "app/src/ui/.../side-by-side-diff.tsx", and "app/src/ui/diff/text-diff.tsx".

The right side of the window displays a detailed diff view for the file "app/src/ui/.../seamless-diff-switcher.tsx". The diff shows several changes, including imports and code modifications. A specific line of code is highlighted in green, indicating it has been added.

At the bottom left, there is a "Stashed Changes" section with a note about rendering diffs. Below that is a "Commit" section with fields for "Description" and "Co-Authors" (@tidy-dev, @sergiou87), and a large blue "Commit to the-end-of-it-all" button.

```
@@ -19,6 +19,7 @@ import { Loading } from '.../lib/loading'  
import { getFileContents, IFileContents } from './syntax-highlighting'  
import { getTextDiffWithBottomDummyHunk } from './text-diff-expansion'  
+ import { textDiffEquals } from './diff-helpers'  
  
/**  
 * The time (in milliseconds) we allow when loading a diff before  
hen loading a diff before  
@@ -127,7 +128,7 @@ function isSameDiff(prevDiff: IDiff, newDiff: IDiff) {  
prevDiff === newDiff ||  
(isTextDiff(prevDiff) &&  
isTextDiff(newDiff) &&  
- prevDiff.text === newDiff.text) 130 131 + textDiffEquals(prevDiff, newDiff))  
)  
}  
....
```