

Git ♦ GitHub ♦ Renv

Kirill Voronin <imvoroninkir@gmail.com>

Планы на вечер

- Поговорим про контроль версий при помощи Git
- Установку пакетов через renv
- Создадим идеальный проект используя Git и renv
 - Повторяемый Rmarkdown
 - Музыкальный чарт «Billboard top 200»
 - Выберем лучших исполнителей
- Запушим на GitHub
- Поработаем вместе используя GitHub pull request (PR)
- Рассмотрим best practices и различные ситуации



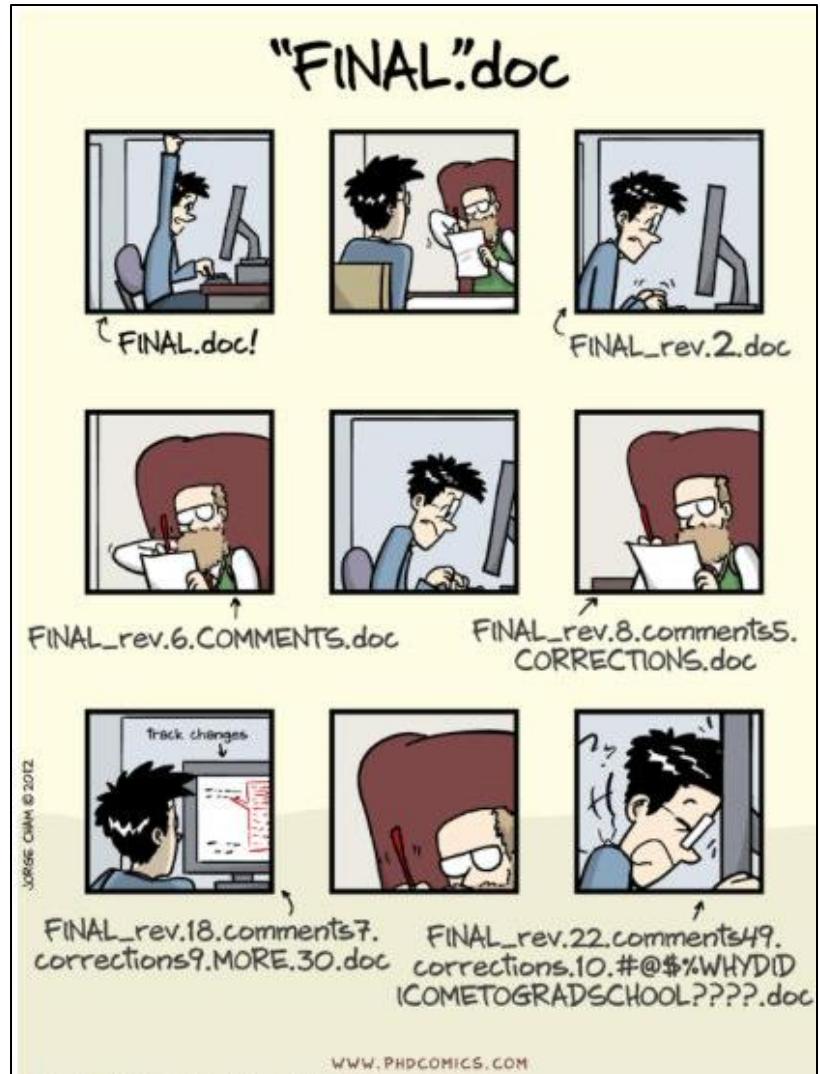
Git – программа для контроля версий (VCS)

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



Git – программа для контроля версий (VCS)

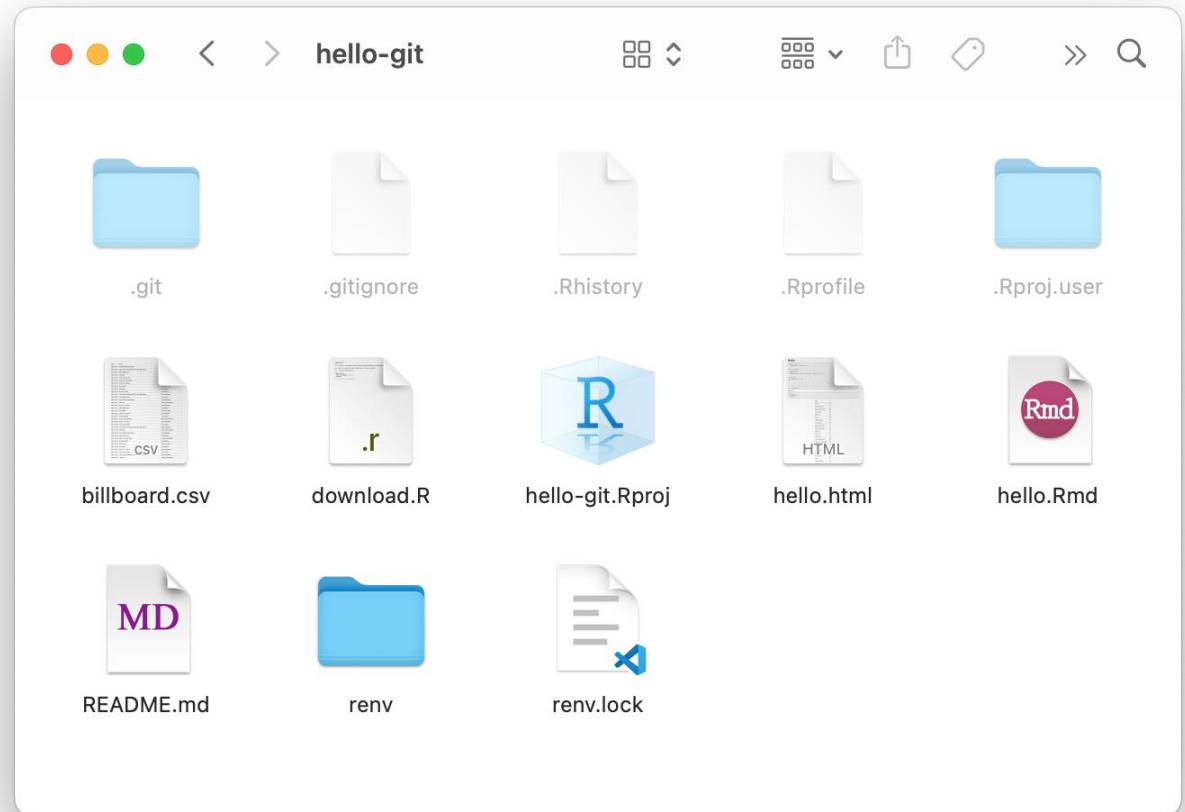
Есть другие программы с интерфейсом
Но внутри тот же Git
(*GitKraken*, *GitHub Desktop*)





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		
bingo.R	Added script to play bingo (#4)		
data.R	Downloaded and transformed billboard top		
hello-git.Rproj	Created R project with renv		
hello.Rmd	Sampled top artists		
hello.html	Sampled top artists		
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	(Verified) 3990f56		
yoursdearboy authored 3 days ago			
-o- 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

The screenshot shows a GitHub issue page for the 'ggsurvfit' repository. The title of the issue is "Feature request: Add feature to plot a curve for pooled data (similar to Survminer::ggsurvplot_add_all) #219". The issue is marked as "Open" and was created by drhmoosavi on Jul 5 with 1 comment.

Comments:

- 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 = dfColon %>% 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.

Issue Details:

- 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.
- Participants:** drhmoosavi, ddsjoberg

Для разработки

pharmaverse / ggsurvfit

Code Issues 20 Pull requests 4 Discussions Actions Projects Security Insights

Type ⌂ to search

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

+28 -10

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.
- Overall code coverage remains >99.5%. Review coverage with `withr::with_envvar(list(CI = TRUE), code = devtools::test_coverage())`. Begin in a fresh R session without any packages loaded.
- R CMD Check runs without errors, warnings, and notes
- `usethis::use_spell_check()` runs with no spelling errors in documentation

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

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

You're not receiving notifications from this thread.

2 participants

Для резюме

The screenshot shows a GitHub profile page for the user `ddsjoberg`. The profile picture is a cartoon illustration of a person with brown hair and blue eyes, set against a background of a rainbow and stars. The user's name is **Daniel Sjoberg**, and their GitHub handle is `ddsjoberg`. The bio states: "Daniel is a Lead Data Science Manager at Memorial Sloan Cancer Center and an open-source R package developer." Below the bio is a section titled "Daniel Sjoberg's GitHub Stats" with the following data:

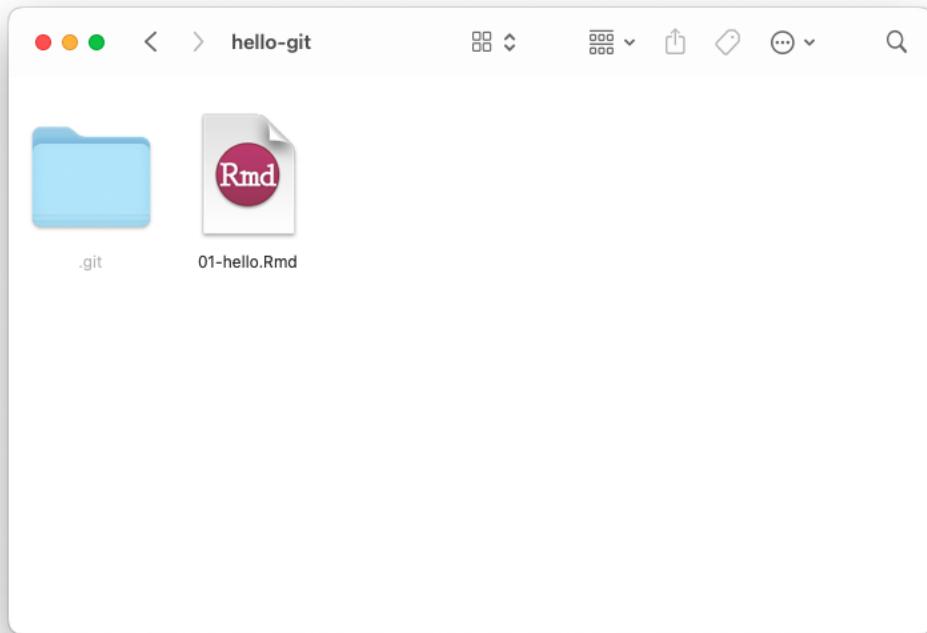
Metric	Value
Total Stars Earned	1.2k
Total Commits (2024)	2.7k
Total PRs	1.5k
Total Issues	1.6k
Contributed to (last year)	37

A large circular badge in the center of the stats box displays the grade **A+**.

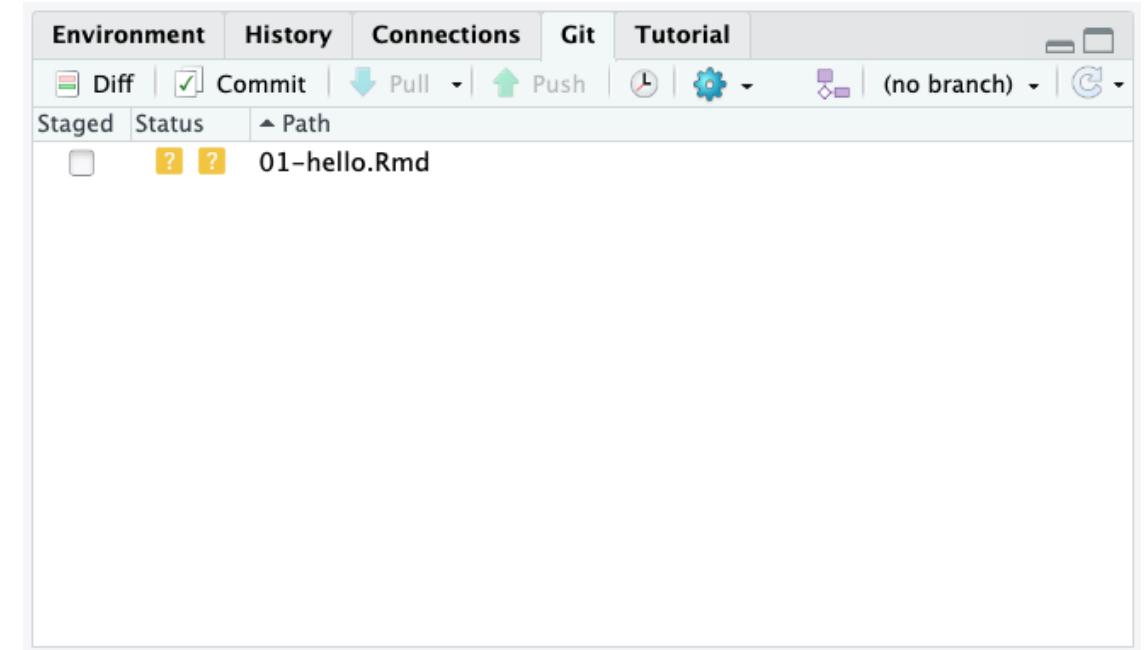
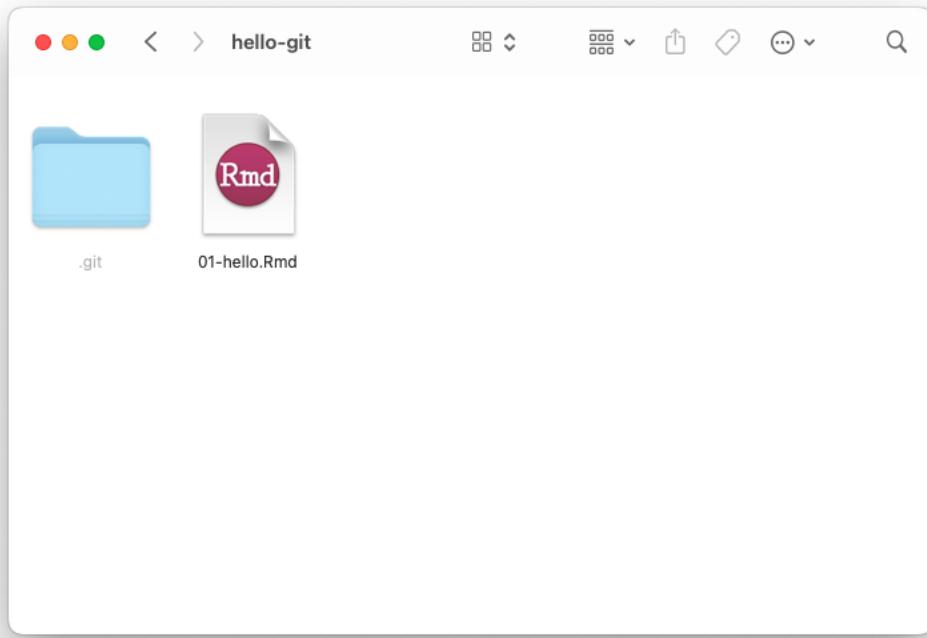
Below the stats, there are sections for "Pinned" repositories and "Achievements". The pinned repositories are `gtsummary`, `pharmaverse/ggsurvfit`, and `dcurves`. The achievements section shows several small icons representing milestones like "x4" and "x3".

At the bottom, a heatmap visualizes contributions over the last year, showing a high density of activity in the months of May, June, and July.

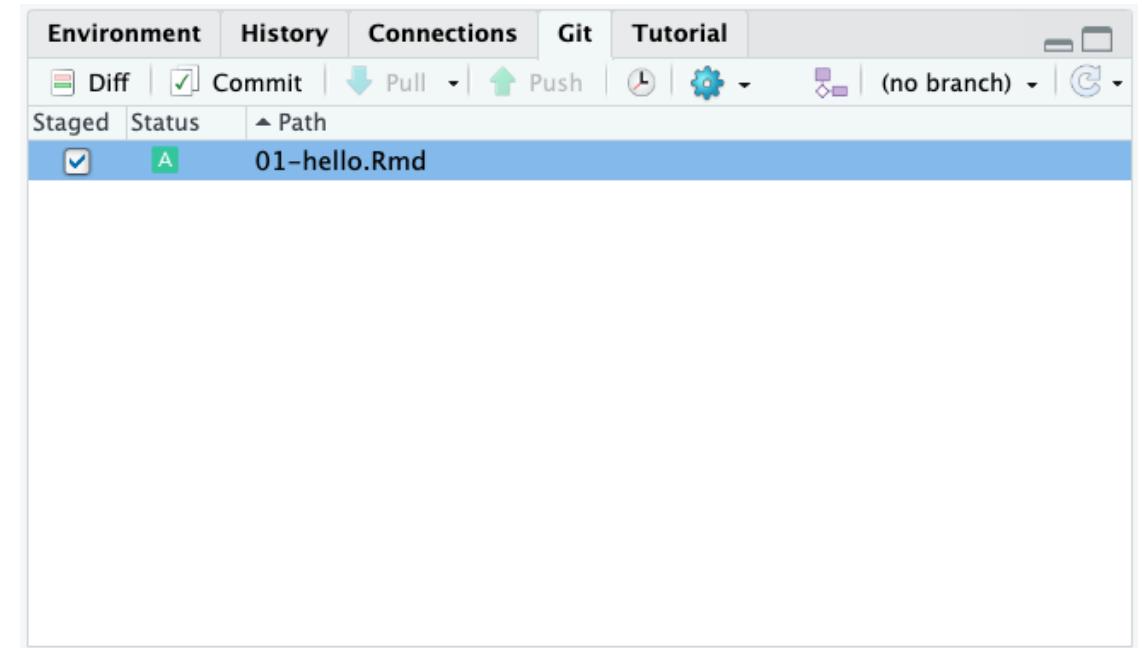
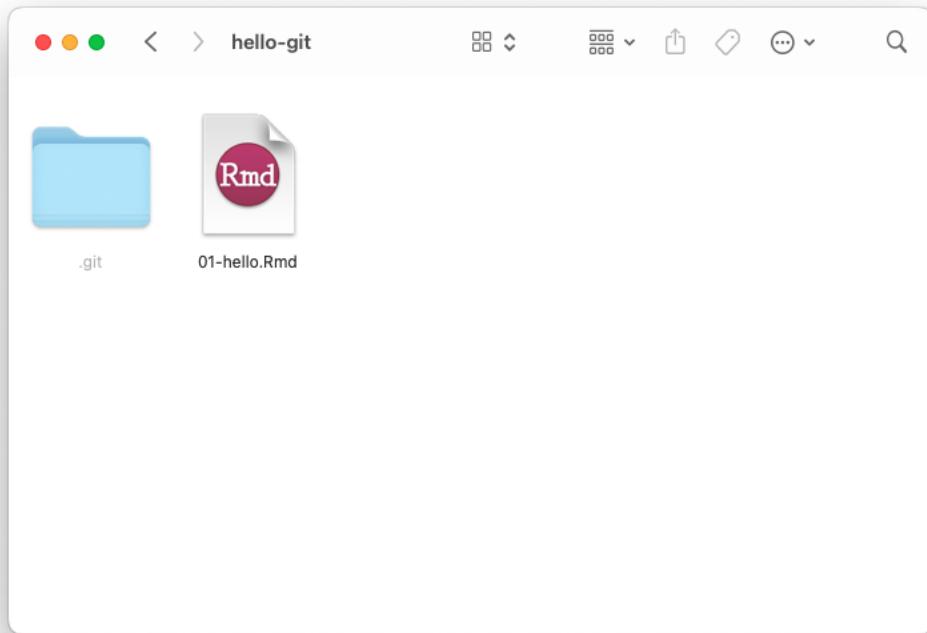
Рабочая область (Working tree)



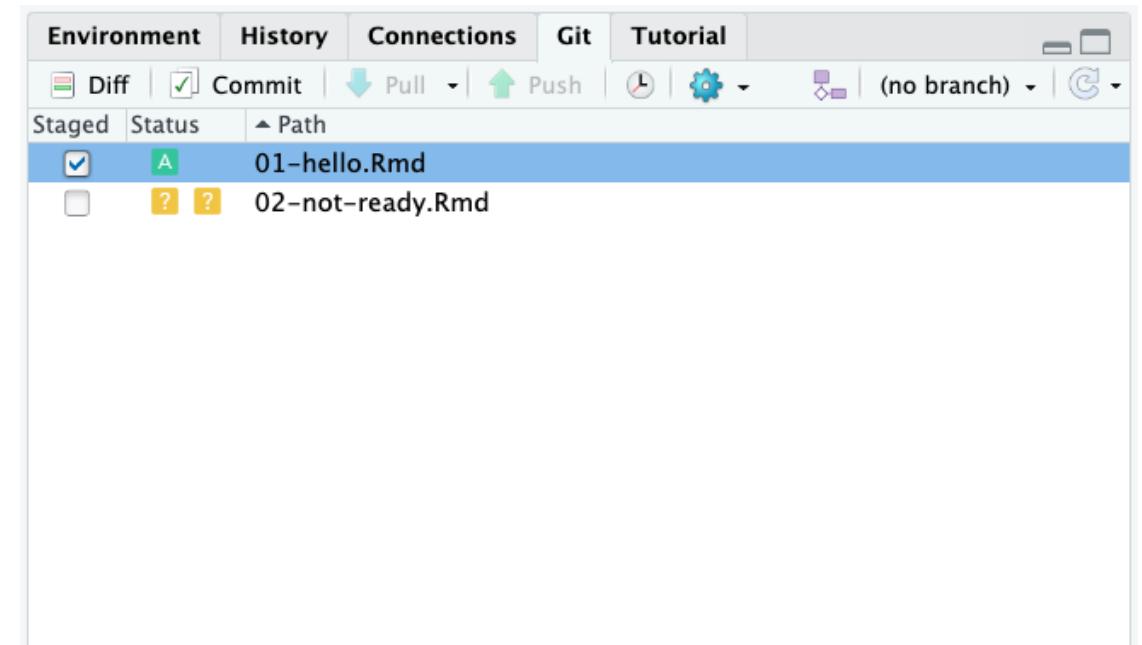
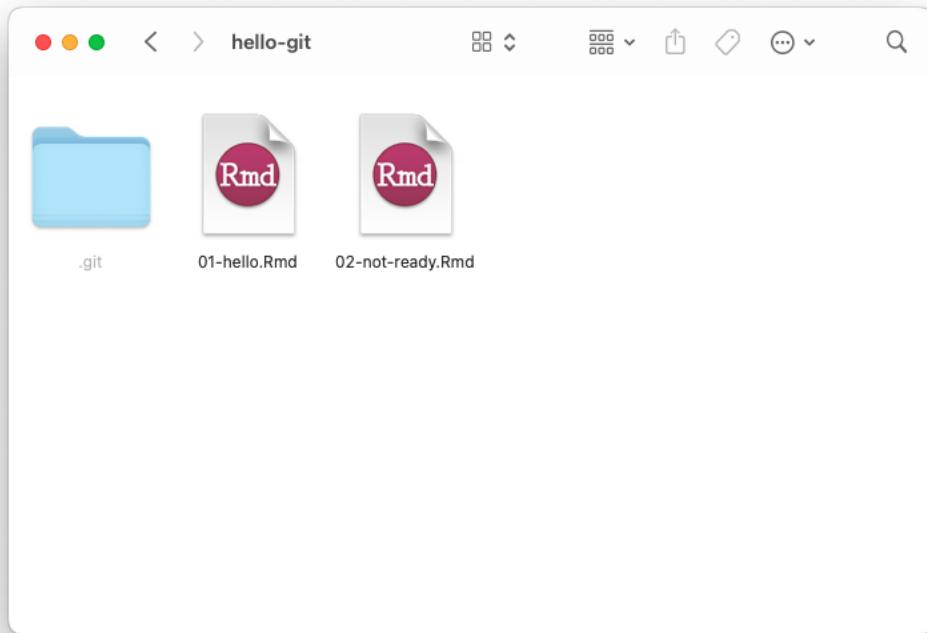
Рабочая область (Working tree)



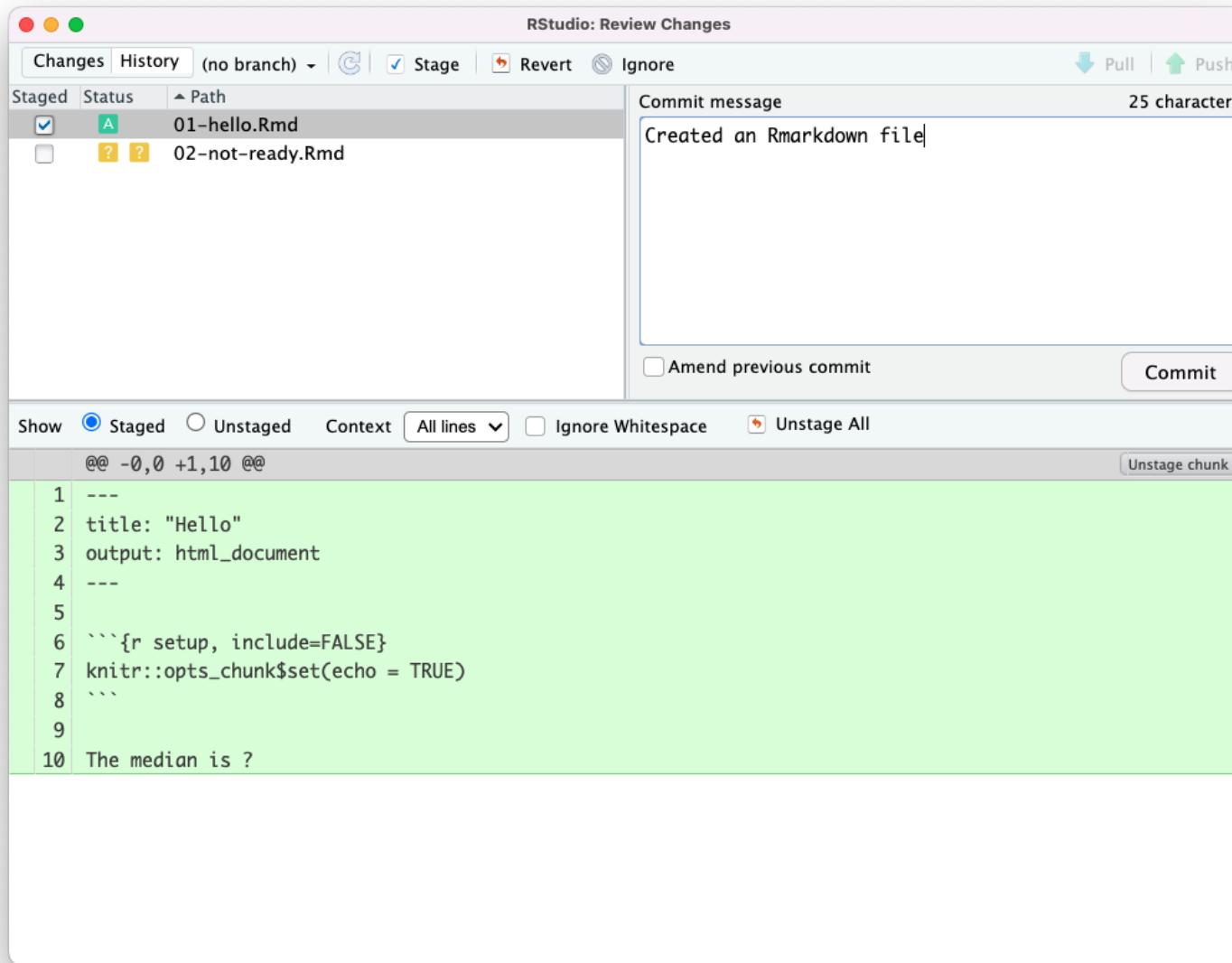
Рабочая область → Staging



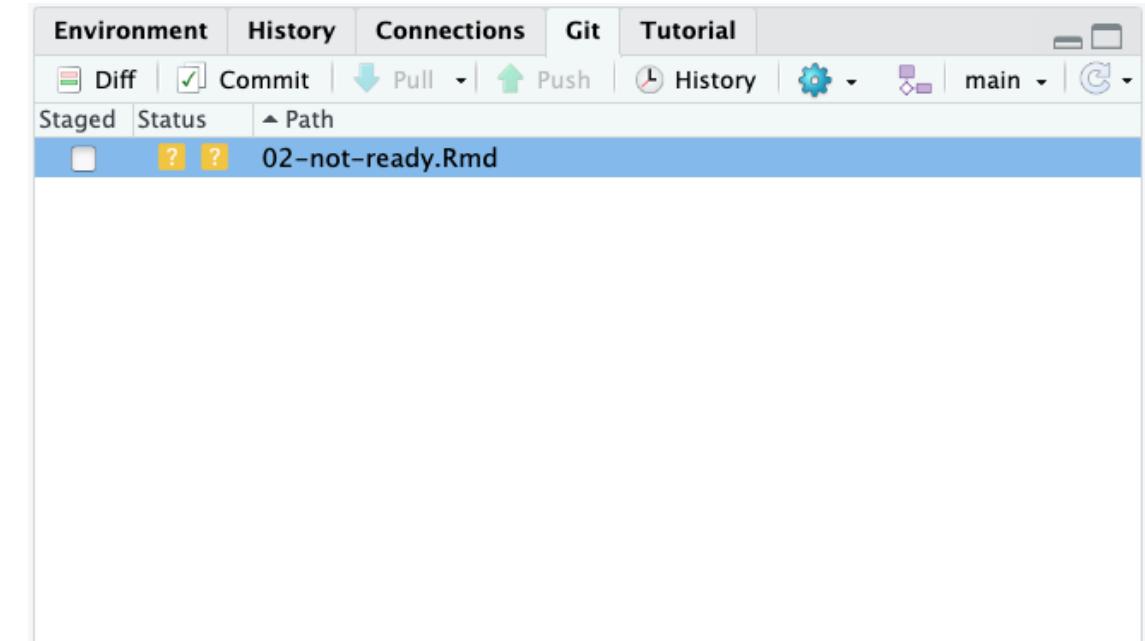
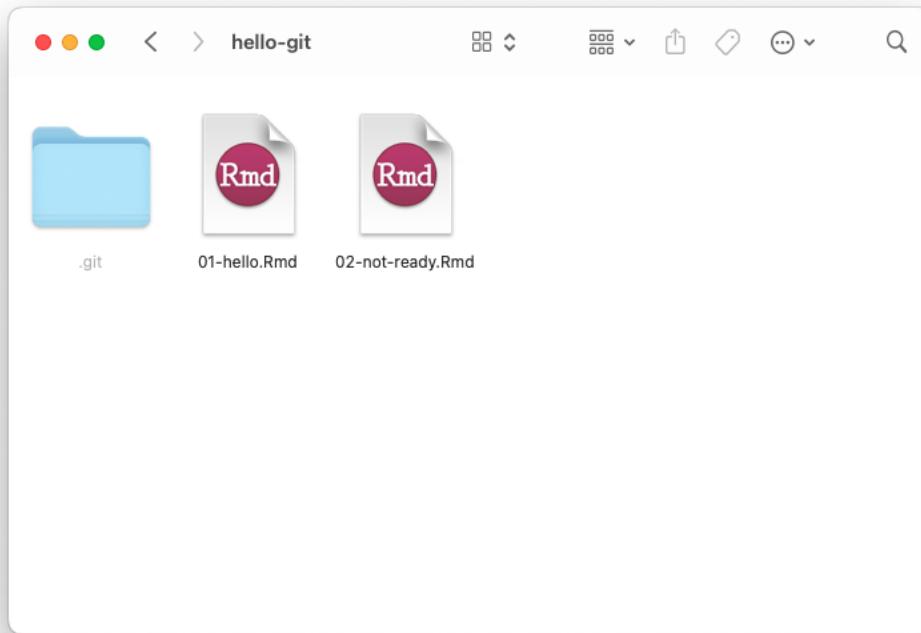
Рабочая область → Staging



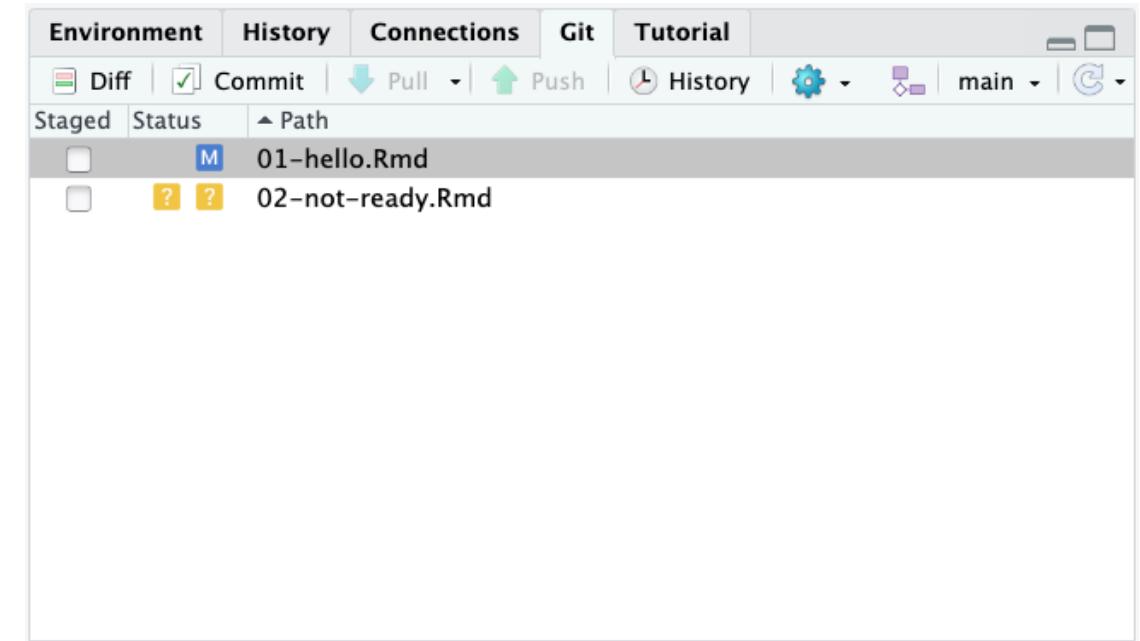
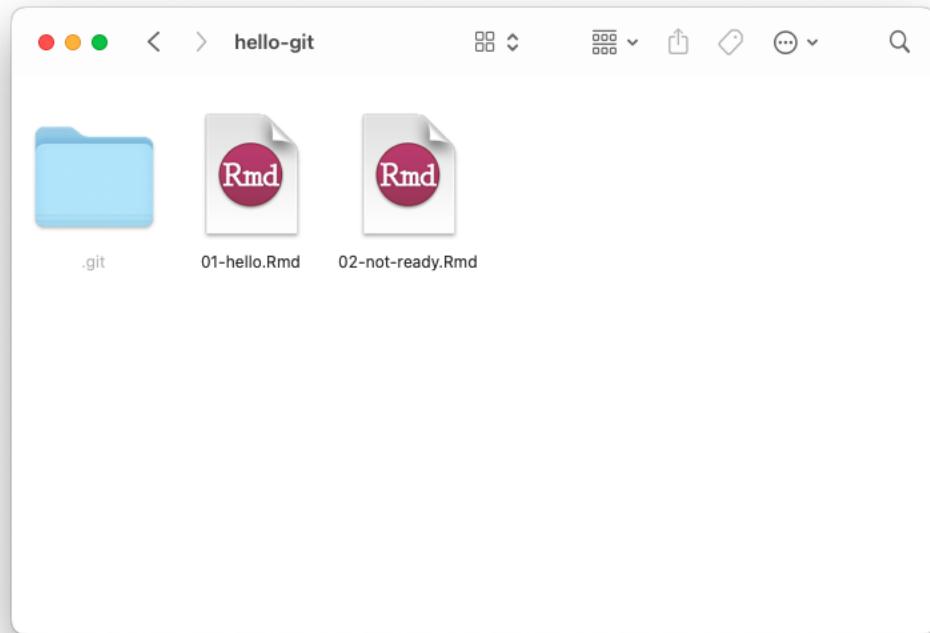
Фиксация изменений (Commit)



Рабочая область (Working tree)



Рабочая область (Working tree)



Фиксация изменений (Commit)

The screenshot shows two RStudio panes illustrating the commit process.

Left Pane: Review Changes

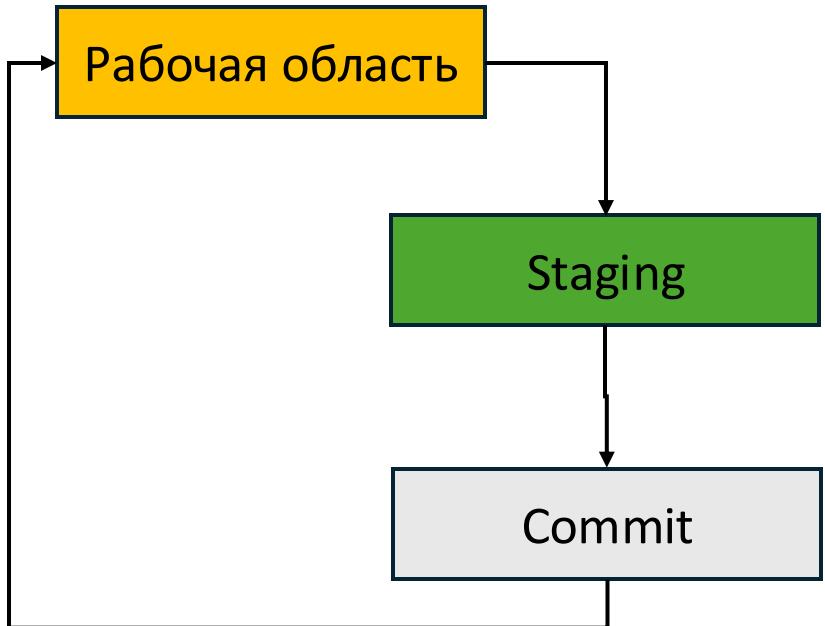
- Toolbar:** Changes, History, Stage, Revert, Ignore, Pull, Push.
- Status Bar:** HEAD detached from 244e366.
- Staged:** 01-hello.Rmd (M).
- Commit message:** Draw a sample and calculated it's median (40 characters).
- Buttons:** Amend previous commit, Commit.
- Show Options:** Staged (radio button selected), Unstaged, Context, All lines, Ignore Whitespace, Unstage All.
- Diff View:** Shows changes between lines 1,10 and 1,19.

```
@@ -1,10 +1,19 @@
1 1 ---
2 2 title: "Hello"
3 3 output: html_document
4 4 ---
5 5
6 6 ```{r setup, include=FALSE}
7 7 knitr::opts_chunk$set(echo = TRUE)
8 8 ````
9 9
10 The median is ?
```

Right Pane: Git

- Toolbar:** Diff, Commit, Pull, Push, History, main, C.
- Status Bar:** Status, Path.
- Staged:** 01-hello.Rmd (M).
- Unstaged:** 02-not-ready.Rmd.

Итеративный процесс работы



Журнал изменений (log)

RStudio: Review Changes

Changes History main (all commits) Pull

Search

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-into-a-package	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	11eccca8
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 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")
```

Ветви (branch)



- Финальная версия статьи 42 правки AA.docx
- Финальная версия статьи 42 правки AA 09 дек.docx
- Финальная версия статьи 42 KB стат. Методы.docx
- Финальная версия статьи 42 KB графики.docx
- Финальная версия статьи 42 KB графики выживаемости последняя вер

Ветви (branch)

RStudio: Review Changes

Changes History main (all commits) ⌂ Search Pull

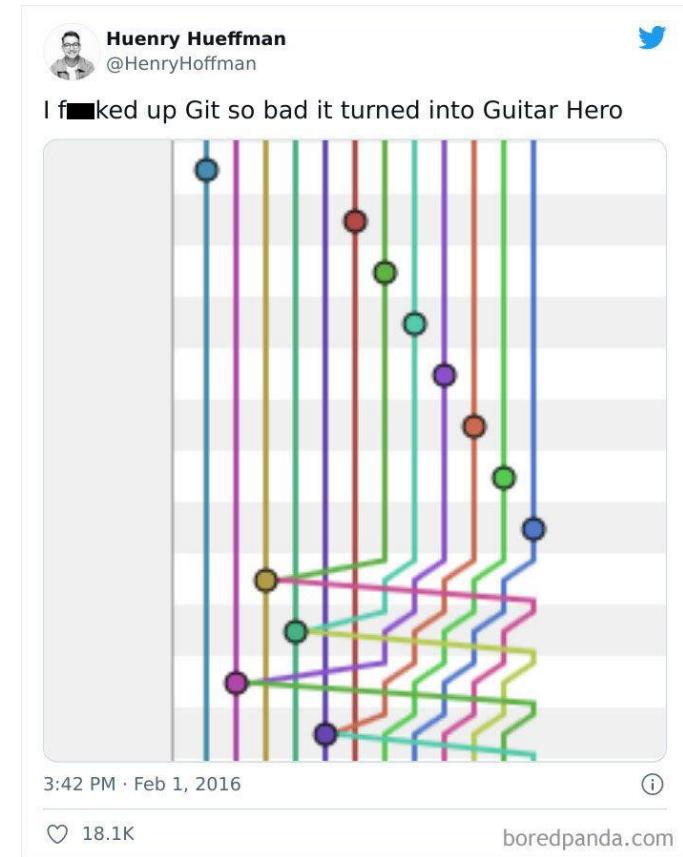
Subject	Author	Date (UTC)	SHA
HEAD -> refs/heads/main Updated report	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	611bd843
Merge branch 'eda'	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	28a354bf
Update README.md	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	0ca144fa
eda Merge branch '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
Draw a sample and calculated it's median	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	3d890a30
Created an Rmarkdown file	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	a93059fc

Ветви (branch)

RStudio: Review Changes

Changes History main (all commits) ⌂

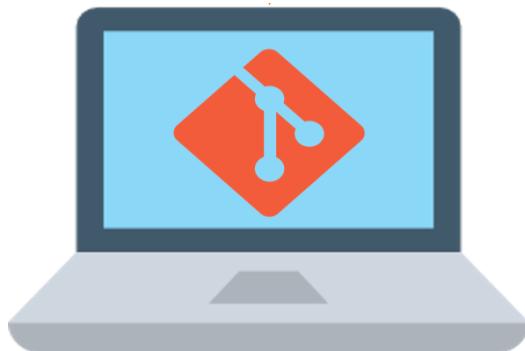
Subject	Author	Date (UTC)	SHA
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Merge branch 'eda'	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	28a354bf
Update README.md	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	0ca144fa
eda Merge branch 'ggplot2' into eda	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	f3e172d3
Made intermediate report	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	5a8de03b
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Checked missing data patterns	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	b7af2580
Described variables	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	afbeaae2
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
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Draw a sample and calculated it's median	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	3d890a30
Created an Rmarkdown file	Kirill Voronin <yoursdearboy@gmail.com>	2024-12-12	a93059fc





GitHub

PUSH



User A

PULL



User B

Pull Request (PR)

The screenshot shows a GitHub pull request page for the repository `ggsurvfit`. The pull request is titled "fixed KMunicate legend position in gallery.Rmd #223". It is an open pull request with 3 commits, 11 checks, and 2 files changed. The PR was created by `DanChaltiel` on Sep 19.

Conversation: 1

Commits: 3

Checks: 11

Files changed: 2

Code changes: +28 -10

Comments:

DanChaltiel commented on Sep 19

Hi,
As you can see in <https://www.danieljoberg.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.
- Overall code coverage remains >99.5%. Review coverage with `withr::with_envvar(list(CI = TRUE), code = devtools::test_coverage())`. Begin in a fresh R session without any packages loaded.
- R CMD Check runs without errors, warnings, and notes
- `usethis::use_spell_check()` runs with no spelling errors in documentation

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

Reviewers:
No reviews
Still in progress? Learn about draft PRs

Assignees:
None assigned

Labels:
None yet

Projects:
None yet

Milestone:
No milestone

Development:
Successfully merging this pull request may close these issues.

Notifications:
You're not receiving notifications from this thread.

Participants: 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'
```

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
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e', 'vroom', 'cpp11', 'tzdb', 'generics', 'glue', 'magrittr', 'pillar', 'tidyselect', 'vctrs'
```

2.1.5

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'
```

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

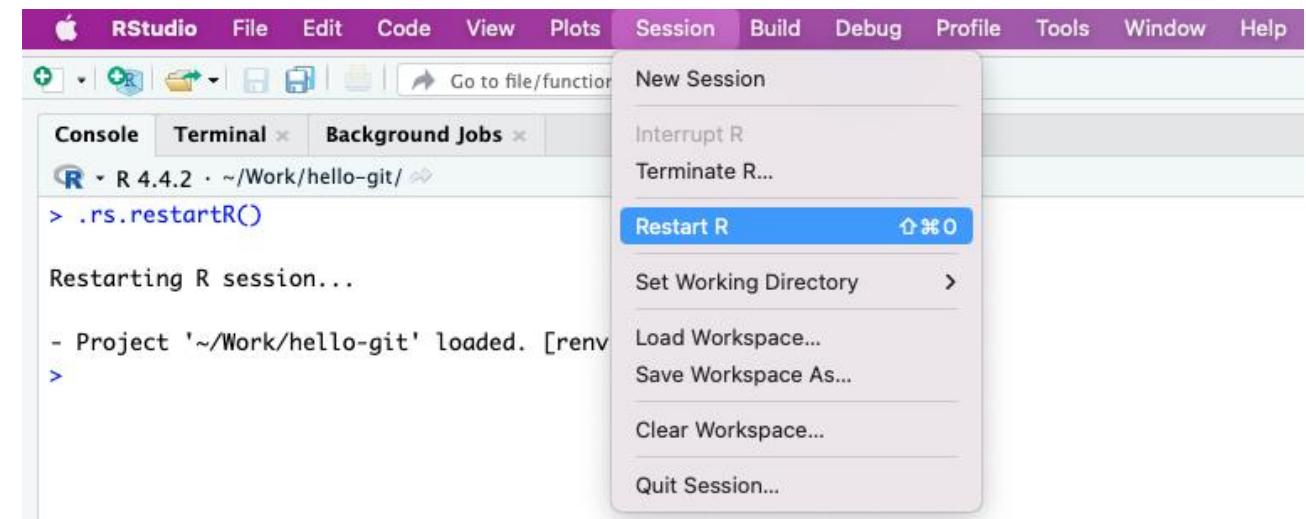
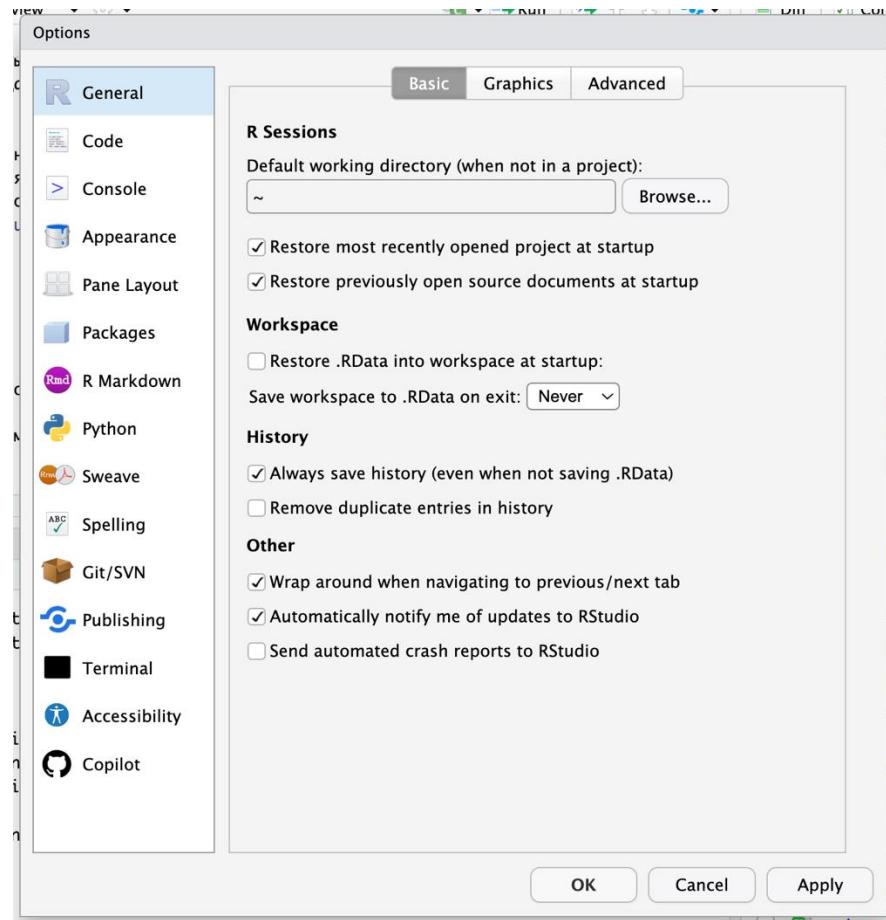
- Создать ветку
- Добавить 5 исполнителей в artists.csv
- Запушить, сделать PR и попросить его замержить

Что еще можно сделать

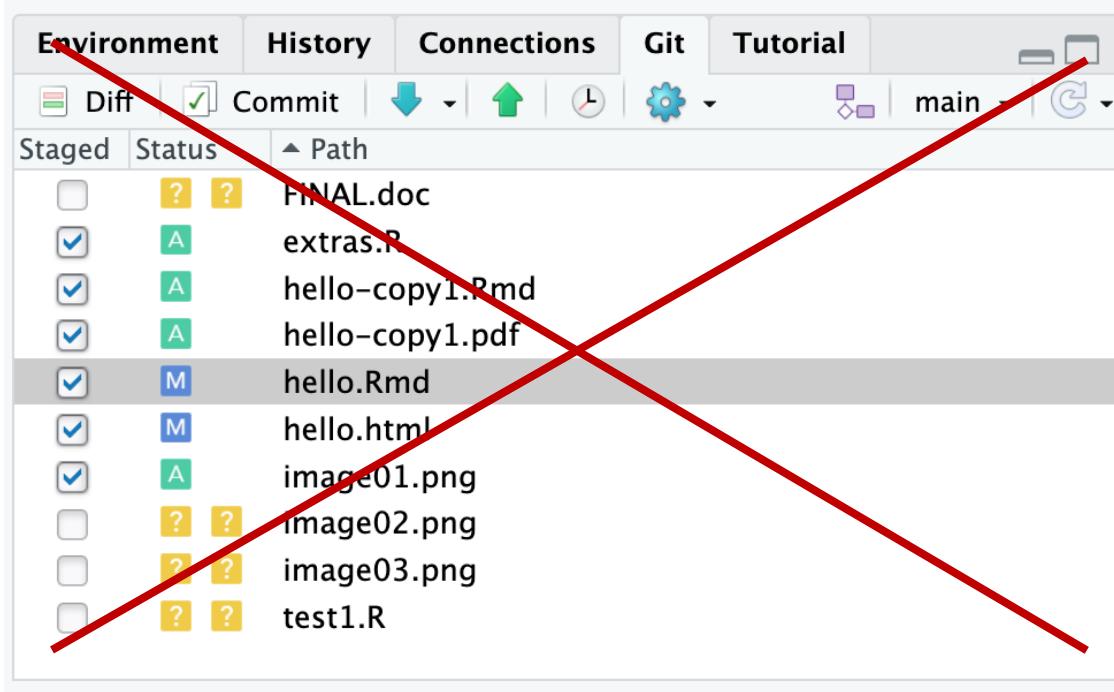
- Топ исполнители в год вашего рождения / другую важную дату
- Топ трэков в неделю вашего рождения
- Кто продержался в топе дольше всего
- Биоразнообразие (исполнителей) за каждый год

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

Используйте чистую сессию



Чистая рабочая область



Это я делаю ревью коммита
из 50 файлов для одного графика

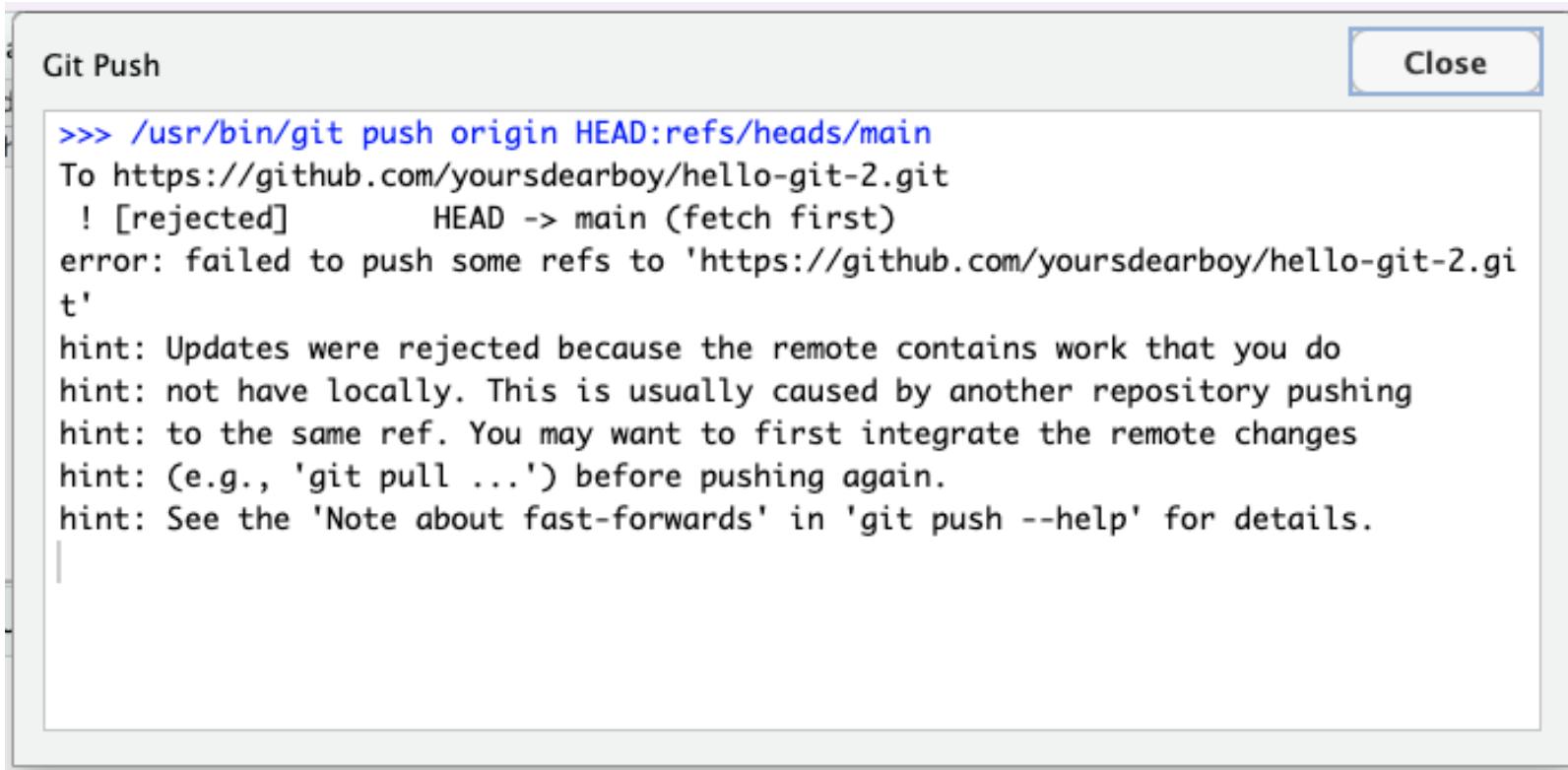
amend – редактирует последний коммит

The screenshot shows the RStudio interface for reviewing changes. In the top right, there's a message: "Only the last commit is amendable". Below it, another message says "Only the unpushed commit is amendable". The main window displays a commit message "Cleaned up report" with a character count of 17. A checkbox labeled "Amend previous commit" is checked. At the bottom, there's a diff view showing code changes between two versions. Lines 13 and 14 are highlighted in red, 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 `r
12 12
13 13 `r data, include=FALSE}
13 13 `r data, message=FALSE}
14 14 top <- read_csv("billboard.csv") |>
15 15   select(date = "Date",
16 16     song = "Song",
17 17     artist = "Artist")
18 18 `r
```

Only the last commit is amendable
Only the unpushed commit is amendable

push rejection



Git Push

>>> /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.

Close

merge conflict

<<<<< branch-a

Изменения из branch-a

=====

Изменения из main

>>>>> main

merge conflict

```
```{r} # ...
library(tidyverse) # ...
...
source("data.R") # ...
```
```
```{r} # ...
<<<<< branch-a
plot(top)
```
```{r} # ...
hist(top)
===== # ...
ggplot(top, aes(x, y)) +
geom_point()
```
```{r} # ...
ggplot(top, aes(x)) +
geom_histogram()
>>>> main
```
```
# ...
# ...
```

git push --force

Вы пытаетесь переписать чужие изменения.

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

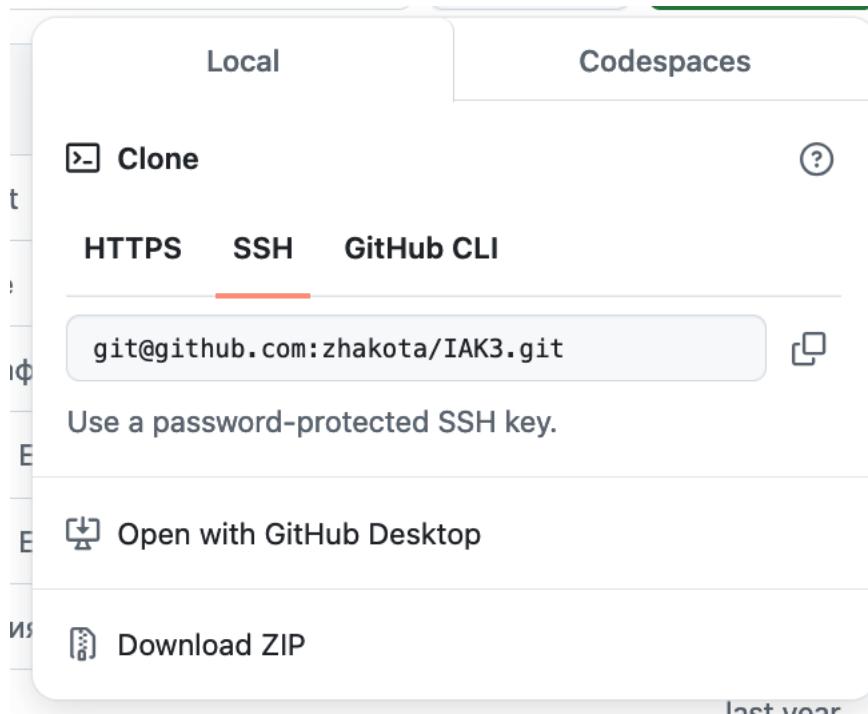


Все сломалось

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



https vs ssh

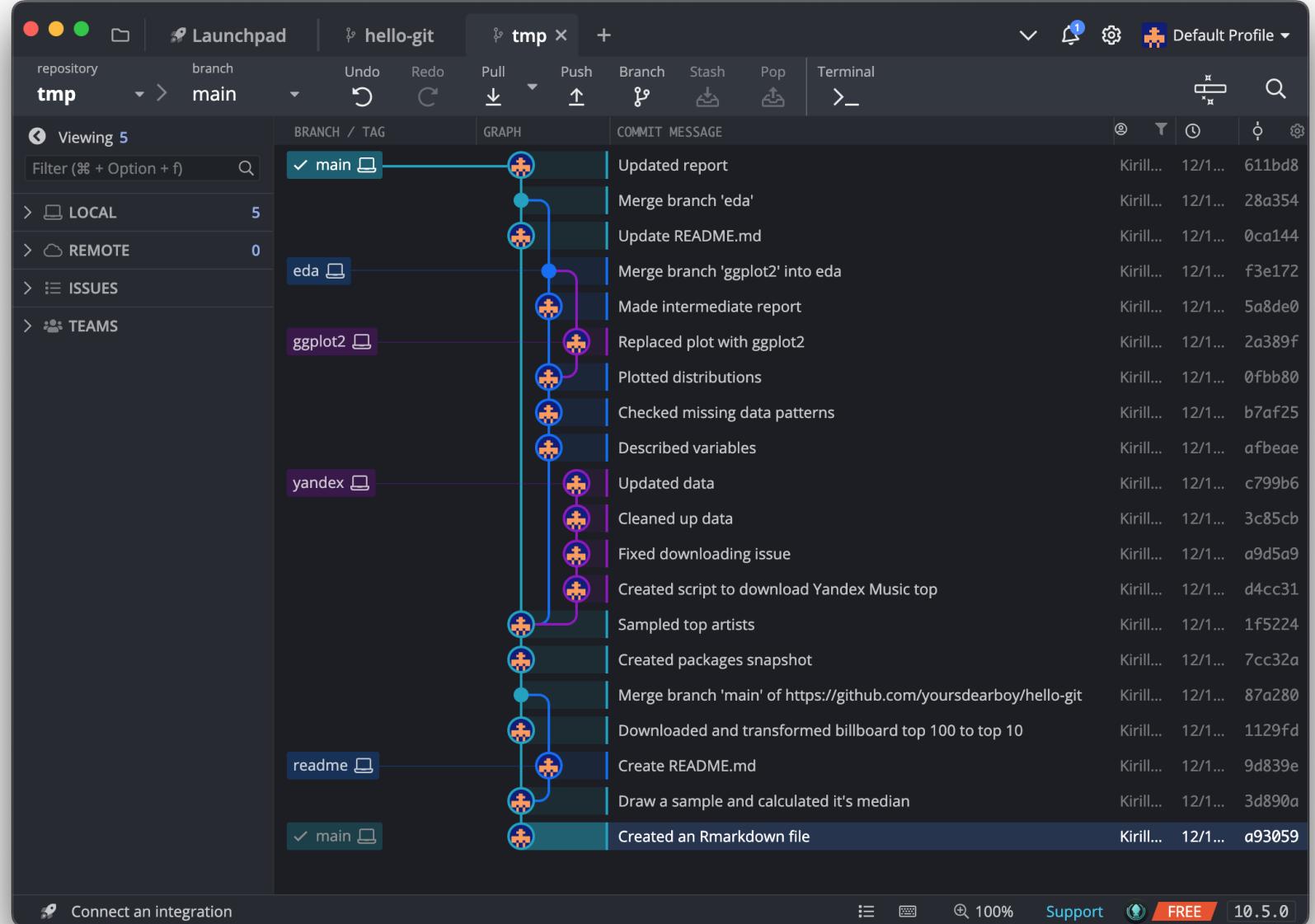


Клиенты

- git (терминал)
- RStudio

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" with a note "Last fetched 5 minutes ago".

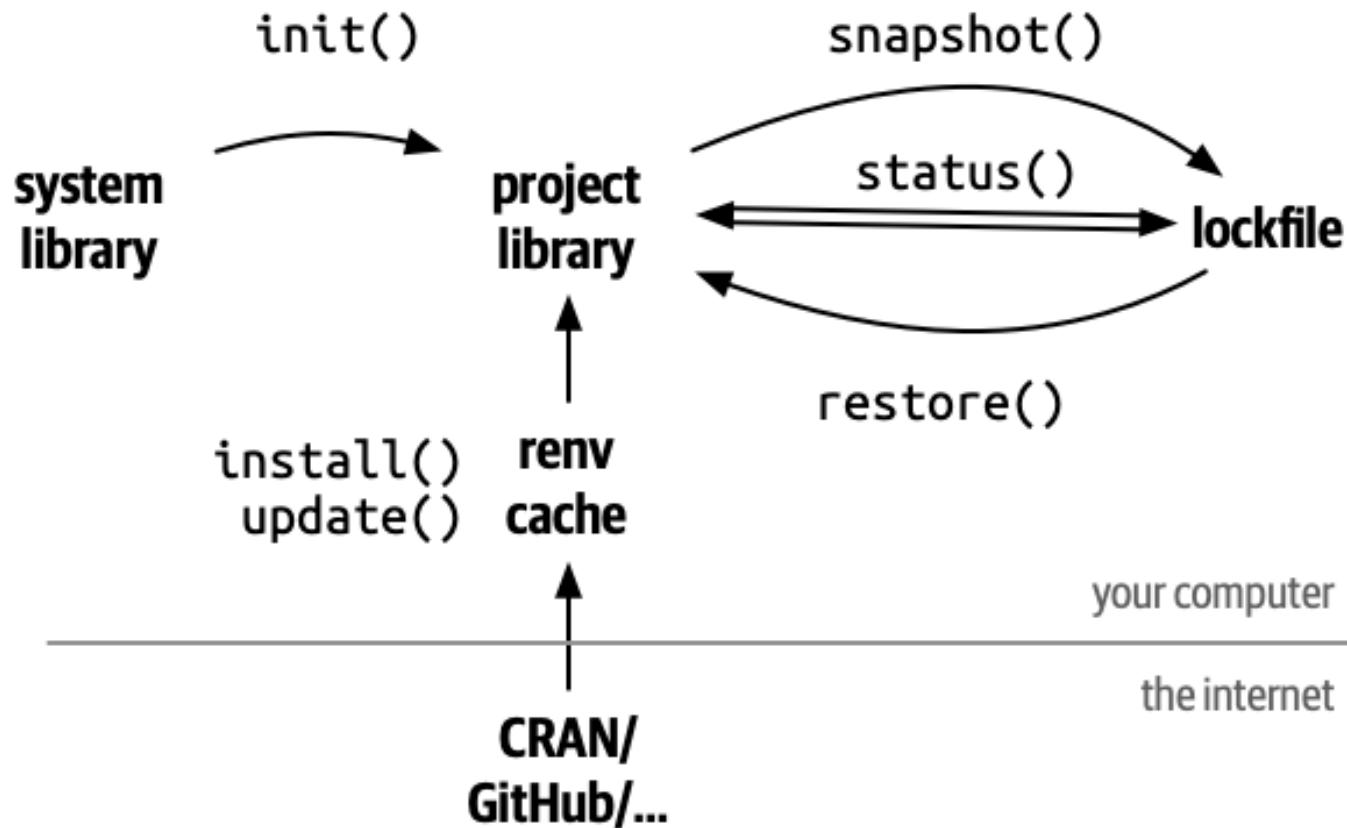
In the main area, there are two tabs: "Changes" (selected) and "History". The "Changes" tab shows three changed files: "app/src/ui/.../seamless-diff-switcher.tsx", "app/src/ui/.../side-by-side-diff.tsx", and "app/src/ui/diff/text-diff.tsx".

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:

```
@@ -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'
```

Below the diff, there is a "Stashed Changes" section with a note "Rerender diff when newlines are added". It includes fields for "Description" and "Co-Authors" (@tidy-dev, @sergiou87), and a blue button at the bottom labeled "Commit to the-end-of-it-all".

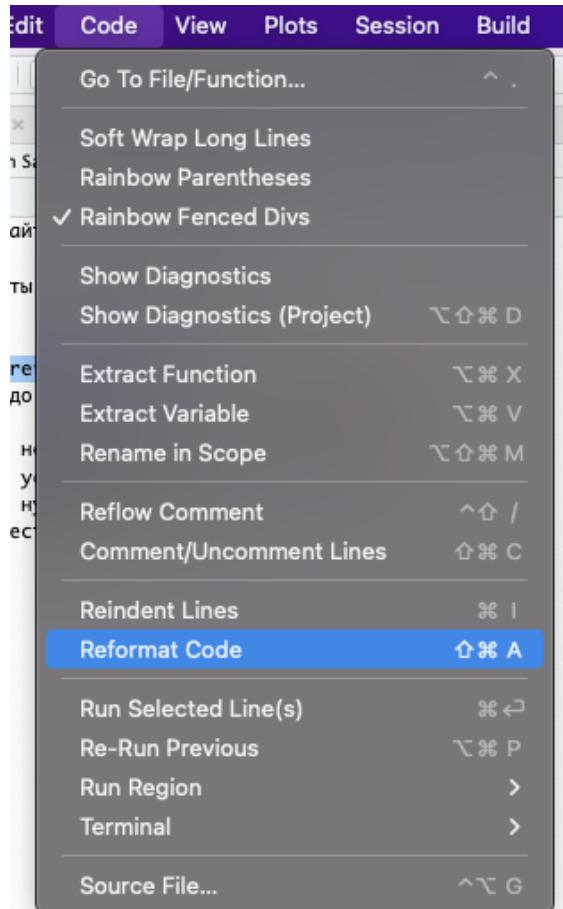
renv



Структура репозитория

- data/surgery.csv
- data.R
- 01-EDA.Rmd (01-EDA.html)
 - Больше небольших Rmarkdown.
 - Описать в README процесс установки
- 02-plot.Rmd (02-plot.html)
- 03-model.Rmd (03-model.html)
- README.md

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"))
```

```