



R-Ladies Philly

Intro to Git demo



May 16, 2018

Setting up Git

- Installing Git is not always easy
- Creating a GitHub account should be painless
- Need to make sure your local computer can talk to GitHub

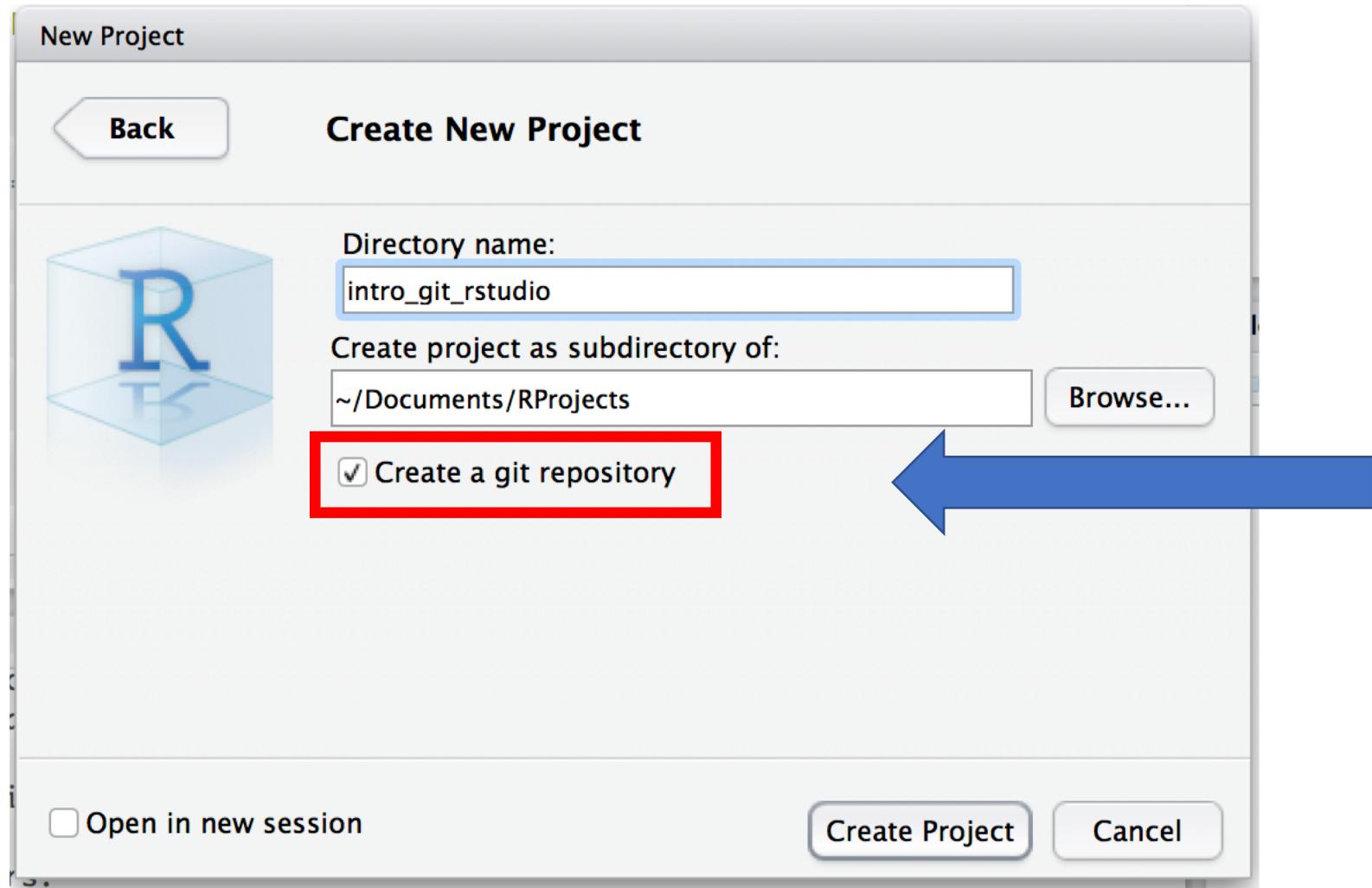
Git configuration

- In a shell (can be Terminal on a Mac, Shell within Rstudio)
- Tell git what your GitHub username is and the email GitHub uses

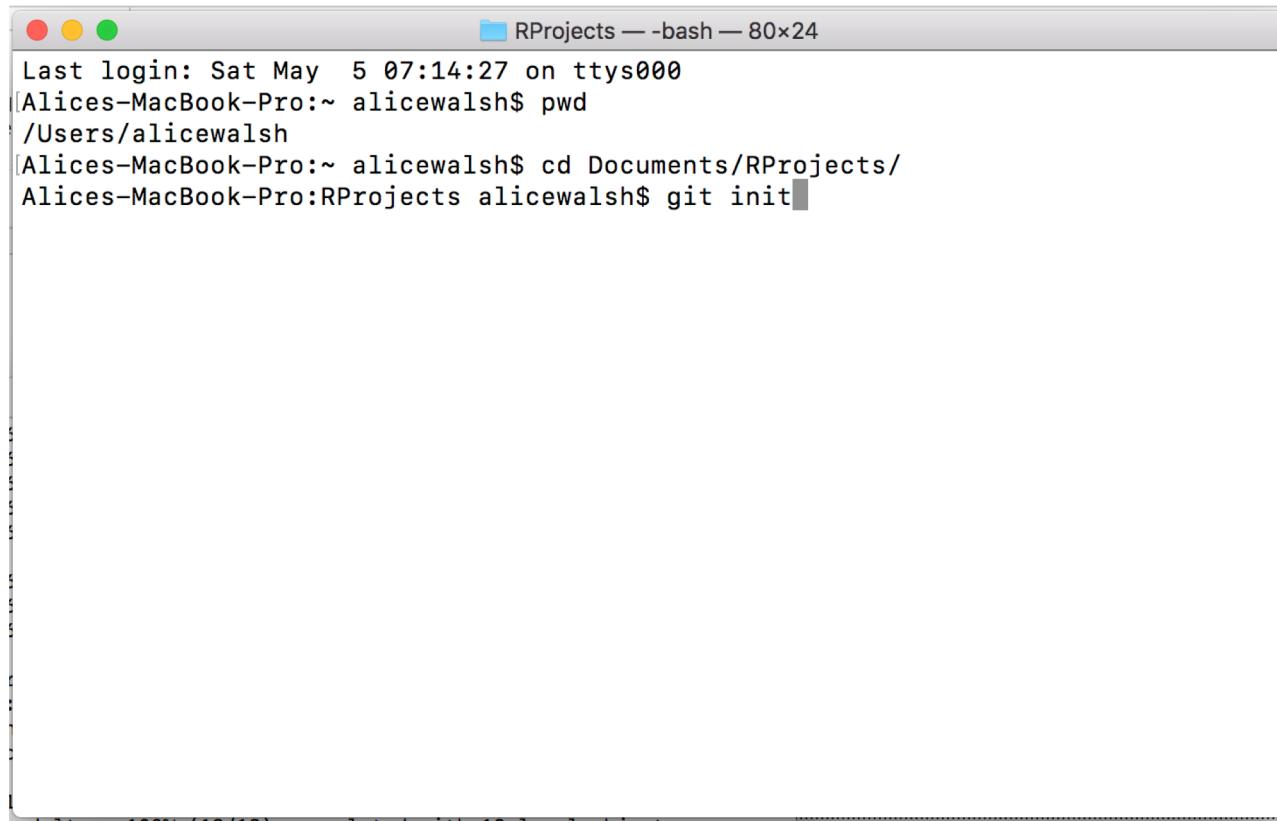
```
$ git config --global user.name "your-name"
```

```
$ git config --global user.email "email@domain"
```

Working locally: Create a new repository from RStudio



Working locally: Create a new repository from command line



```
Last login: Sat May  5 07:14:27 on ttys000
[Alices-MacBook-Pro:~ alicewalsh$ pwd
/Users/alicewalsh
[Alices-MacBook-Pro:~ alicewalsh$ cd Documents/RProjects/
Alices-MacBook-Pro:RProjects alicewalsh$ git init
```

Make an edit and commit it

The screenshot shows the RStudio interface with a project titled "intro_git_rstudio".

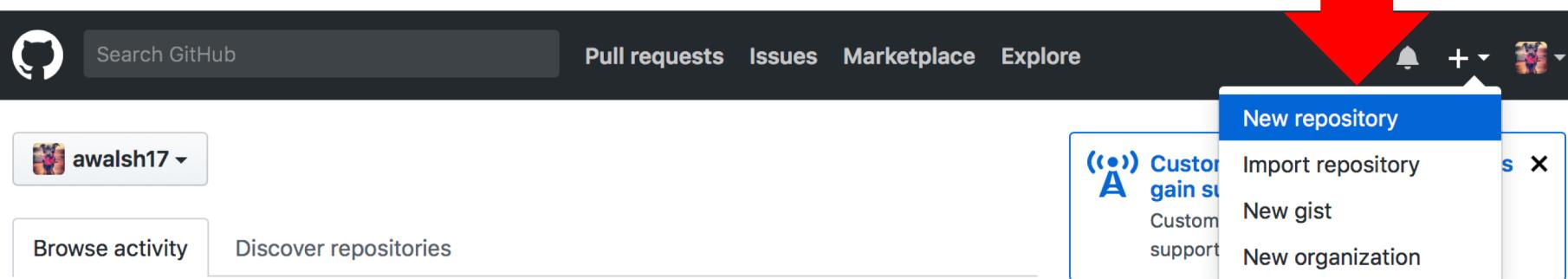
- Left Panel:** A code editor window titled "about_alice.R" containing the following R code:

```
1 # All about me
2 name <- "Alice"
3 favorite_city <- "Philadelphia"
4
```
- Center Panel:** A git context menu is open over the code editor, listing options: Diff "aboutalice.R" ^CD, Log of "aboutalice.R", Revert "aboutalice.R"..., Commit... ^CM, Pull Branches, Push Branch, History, and Project Setup... The "Commit..." option is highlighted.
- Right Panels:**
 - Environment:** Shows "Global Environment" with a note: "Environment is empty".
 - Files:** A file browser showing the project structure:

Name	Size	Last Modified
.gitignore	40 B	May 13
intro_git_rstudio.Rproj	205 B	May 13
about_alice.R	63 B	May 13
- Bottom Panels:**
 - Console:** Displays the R startup message and help information.
 - R Script:** Shows the current script being edited.

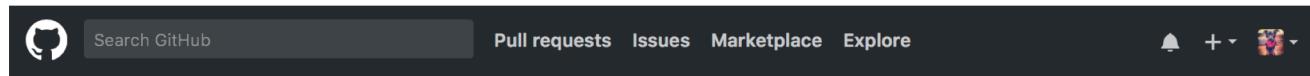
Working with GitHub: connect to remote repository

- On GitHub – create a new repository



Working with GitHub: connect to remote repository

- On GitHub – create a new repository



Create a new repository

A repository contains all the files for your project, including the revision history.

Owner	Repository name
-------	-----------------

 awalsh17 

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

Description (optional)

 **Public**
Anyone can see this repository. You choose who can commit.

 **Private**
You choose who can see and commit to this repository.

Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** Add a license: **None** 

Create repository

Working with GitHub: connect to remote repository

The screenshot shows a GitHub repository page for 'awalsh17/intro_git_rstudio'. The top navigation bar includes 'Code' (selected), 'Issues 0', 'Pull requests 0', 'Projects 0', 'Wiki', 'Insights', and 'Settings'. The repository name 'awalsh17/intro_git_rstudio' is at the top left, with 'Unwatch 1', 'Star 0', 'Fork 0' buttons to the right.

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/awalsh17/intro_git_rstudio.git

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# intro_git_rstudio" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/awalsh17/intro_git_rstudio.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/awalsh17/intro_git_rstudio.git
git push -u origin master
```

Push from RStudio... it worked!!

This repository Search Pull requests Issues Marketplace Explore

awalsh17 / intro_git_rstudio

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

No description, website, or topics provided. Edit

Add topics

1 commit 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

awalsh17 Added about R script Latest commit f86fc41 3 hours ago

about_alice.R Added about R script 3 hours ago

Help people interested in this repository understand your project by adding a README. Add a README

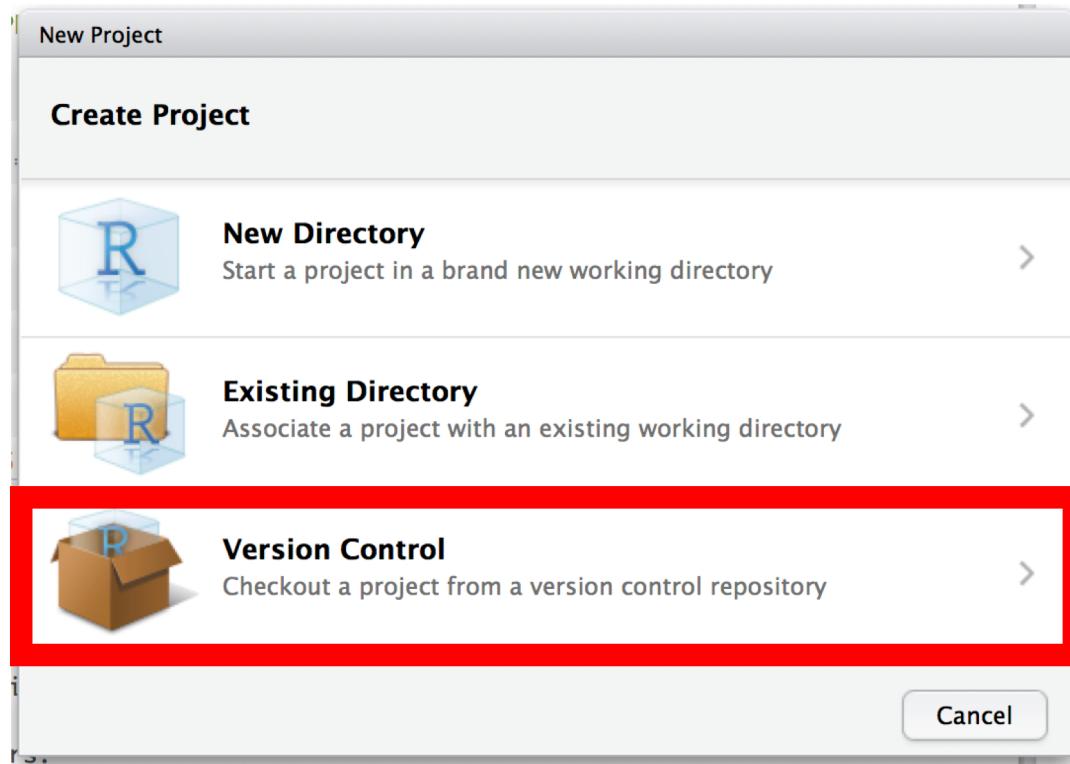
The screenshot shows a GitHub repository page for 'awalsh17/intro_git_rstudio'. The repository has 1 commit, 1 branch, 0 releases, and 1 contributor. The latest commit was made 3 hours ago. A message encourages adding a README. The bottom navigation bar includes links for Contact GitHub, API, Training, Shop, Blog, and About.



Collaborating: What about an existing project on GitHub?

- There are several options and possible ways to work on GitHub – there is no one right answer
 - You can be added as a contributor by the repo owner – now you can write to the repo
 - “clone” the repo locally, make commits,
 - “push” back to remote
 - If you are not a contributor – you cannot write to the remote repo
 - “fork” the repo
 - “clone” the forked repo locally, make commits
 - “push” to your forked remote
 - Create a pull request to merge your edits

Collaborating: Clone a GitHub repository from RStudio



Collaborating: Make some local changes

- Make a new .R script in the “intro_git_rstudio” project
- Name this file: “about_yourname.R”
 - e.g., about_michelle.R if you are Michelle
- Write a couple lines of R code about yourself!
 - name <- “Michelle”
 - hometown <- “London”

Collaborating: Commit your local changes

Collaborating: Push your local changes to the remote on GitHub

Collaborating: Make a pull request

Collaborating: Owner can merge the pull request

alicetest17

10:52 AM

[Details](#)

A

[awalsh17/intro_git_rstudio] Added about Michelle (#1)

To: awalsh17/intro_git_rstudio, Cc: Subscribed,

Reply-To: awalsh17/intro_git_rstudio

You can view, comment on, or merge this pull request online at:

https://github.com/awalsh17/intro_git_rstudio/pull/1

Commit Summary

- Added about Michelle

File Changes

- A [about_michelle.R](#) (2)

Patch Links:

- https://github.com/awalsh17/intro_git_rstudio/pull/1.patch
- https://github.com/awalsh17/intro_git_rstudio/pull/1.diff

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