Controle de versão

PLOS | COMPUTATIONAL BIOLOGY

EDITORIAL

Ten Simple Rules for Taking Advantage of Git and GitHub

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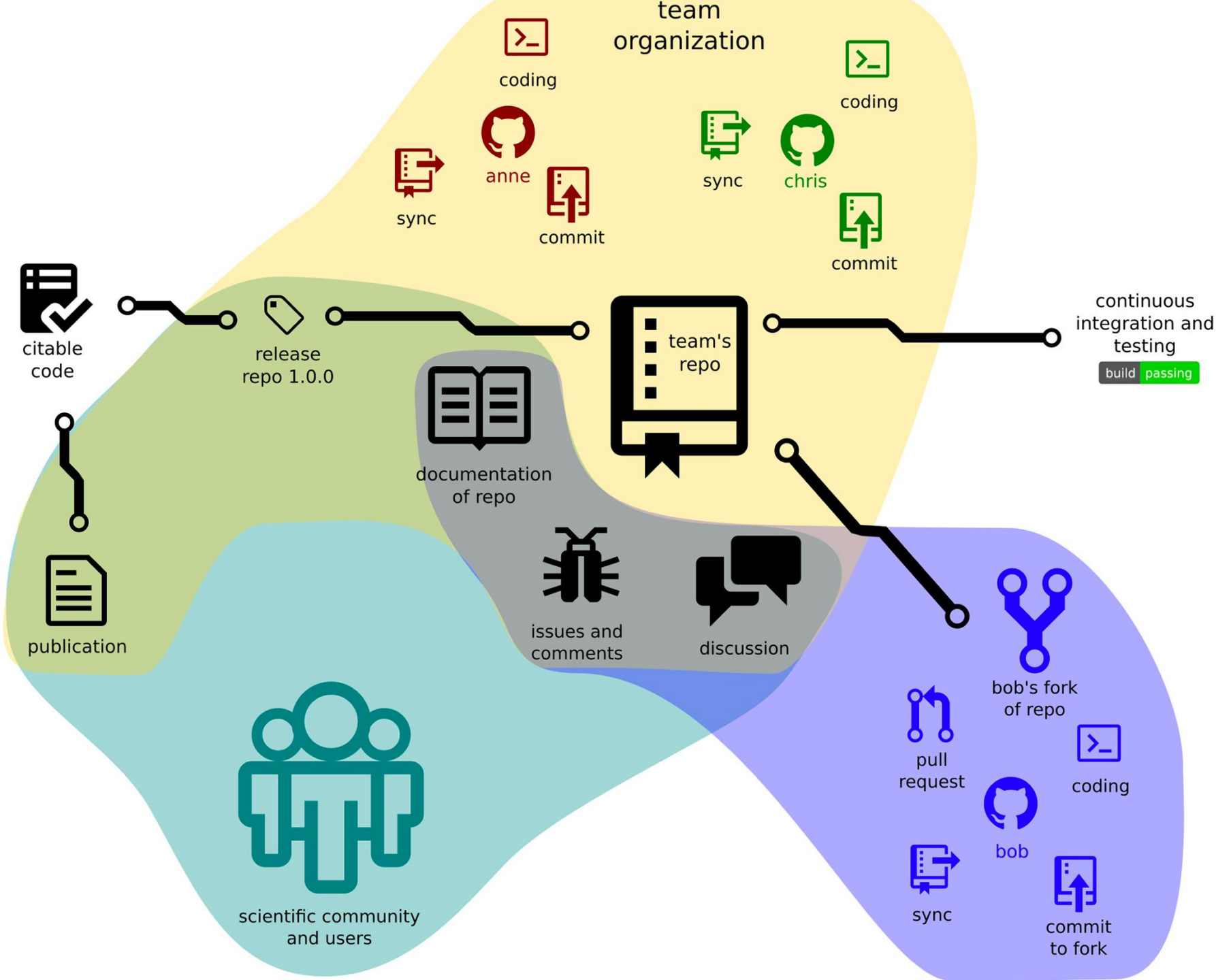
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scientific community
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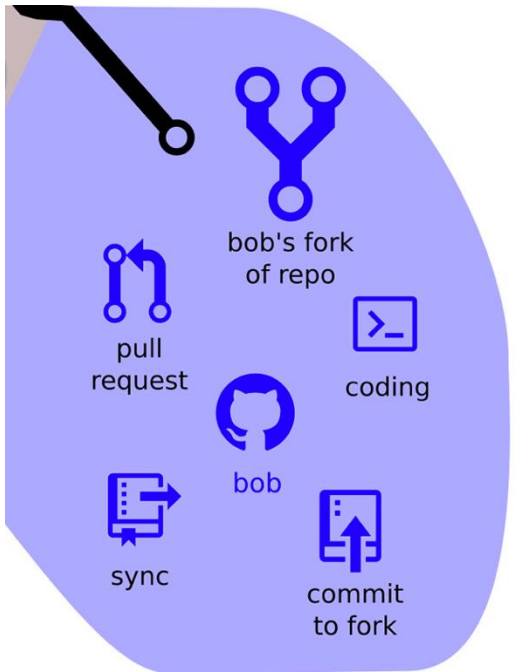
bob's fork
of repo
pull
request
coding
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to fork

Para quê controle de versão?

- Ter controle de alterações que são feitas *em um* arquivo
- Evitar ter vários arquivos pra cada alteração

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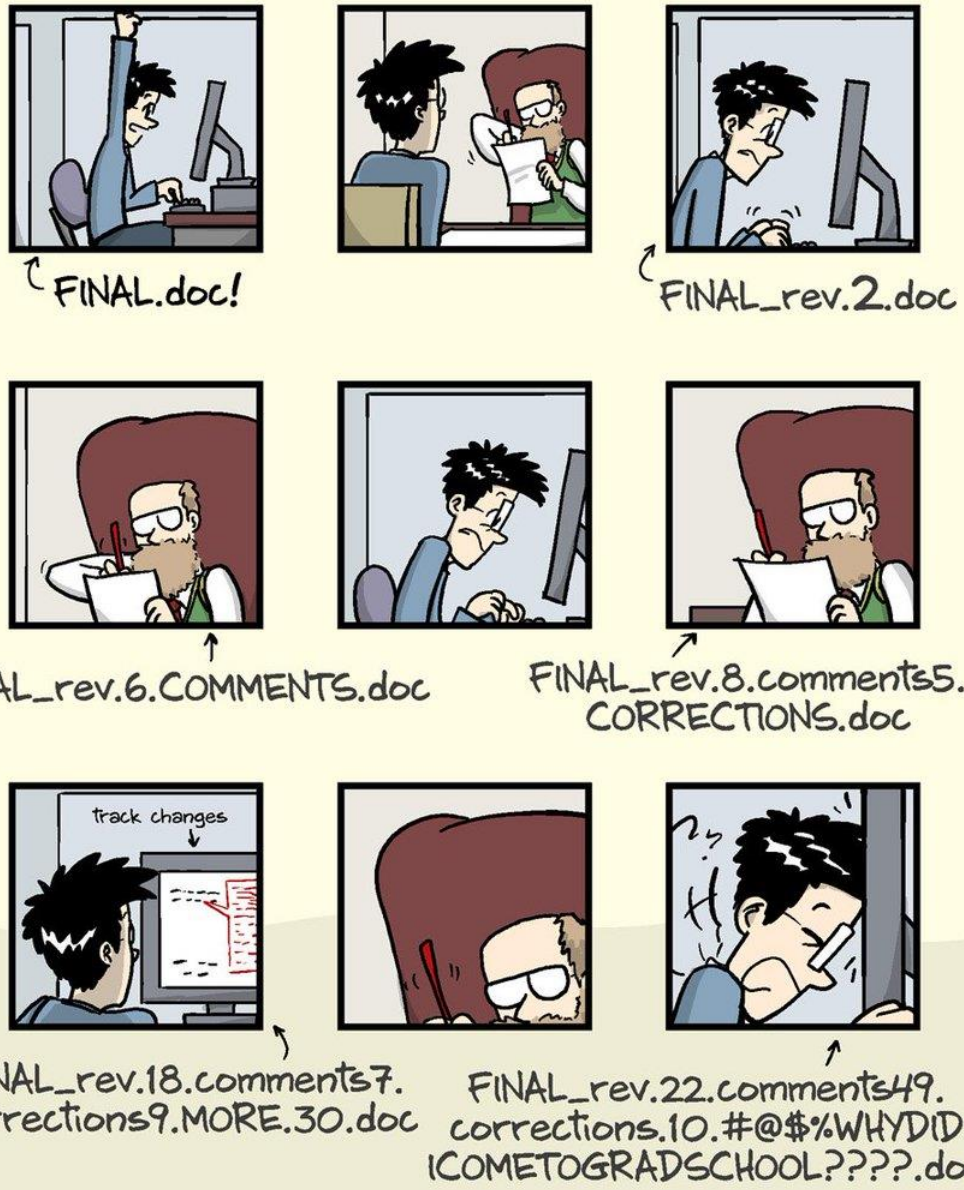
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Para quê controle de versão?

- Ter controle de alterações que são feitas *em um* arquivo
- Evitar ter vários arquivos
- Ter visão temporal do desenvolvimento de um projeto
  - ”voltar no tempo”
- Compartilhar com colegas e permitir que as alterações que eles façam sejam gravadas

>WHY OPEN CODE IN RESEARCH?

SORTEE

RESEARCHERS STUDENTS

- **Learning** new computational methods
- **Sharing** verified resources
- **Collaborating** efficiently
- **Reproducing** statistical analyses
- Improving **employability**

FUNDERS

- Reducing **costs**
- Improving research **efficiency**
- Increasing **transparency and integrity**
- Facilitating project **evaluations**
- **Showcasing** best projects

JOURNALS PUBLISHERS

- Increasing **impact** of papers
- Improving journal's **metrics/ranking**
- Improving **peer-review** process
- Ensuring **integrity**
- Becoming **role models** in open science

PRACTICIONERS AGENCIES

- Facilitating **industry applications**
- Encouraging **collaborations**
- **Leading change** to best practice
- Supporting **R&D** information transfer
- **Repurposing** code

GENERAL PUBLIC

- **Building trust** in science
- Encouraging **public access**
- Delivering robust, science-based **solutions**
- Promoting public **computational literacy**
- Reusing code in **citizen-science**

THE ROYAL SOCIETY PUBLISHING

PROCEEDINGS B

royalsocietypublishing.org/journal/rspb

Biological science practices

Check for updates

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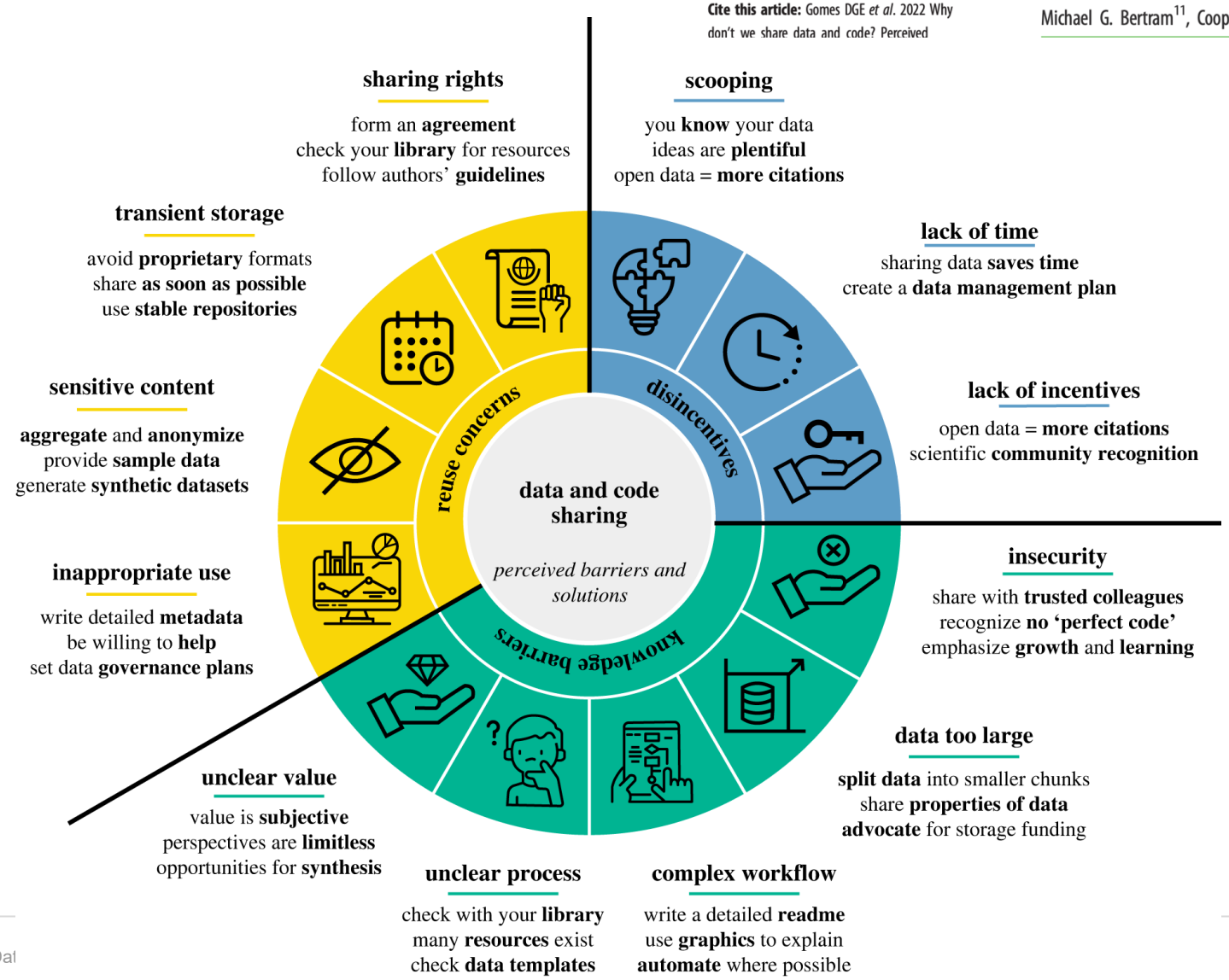
Proc Biol Sci. 2022;289(1987). doi:10.1098/rspb.2022.1113

Why don't we share data and code? Perceived barriers and benefits to public archiving practices

Dylan G. E. Gomes[1,2], Patrice Pottier[3,†], Robert Crystal-Ornelas[4,†], Emma J. Hudgins[5], Vivienne Foroughirad[6], Luna L. Sánchez-Reyes[7], Rachel Turba[8], Paula Andrea Martinez[9], David Moreau[10], Michael G. Bertram[11], Cooper A. Smout[12] and Kaitlyn M. Gaynor[13,14]



Aonde está implementado?

- Git
  - Github (site)

- Alguns armazenamentos em nuvem
  - Dropbox (em parte)
  - Box

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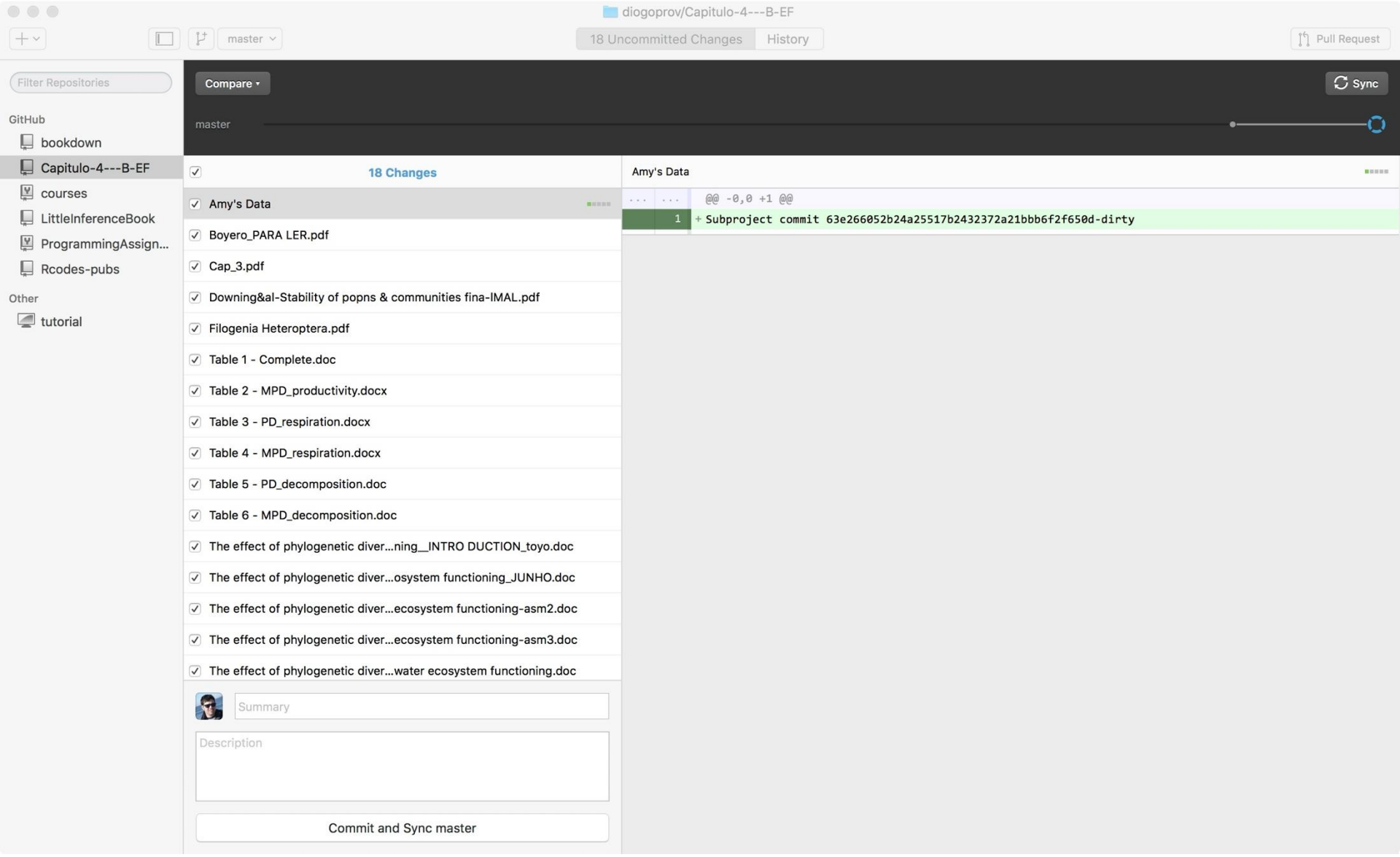
Methods in Ecology and Evolution
Open Access
BRITISH ECOLOGICAL SOCIETY

REVIEW

Not just for programmers: How GitHub can accelerate collaborative and reproducible research in ecology and evolution

Pedro Henrique Pereira Braga (he/him)[1] | Katherine Hébert (she/her)[2] | Emma J. Hudgins (she/her)[3] | Eric R. Scott (he/him)[4] | Brandon P. M. Edwards (he/him)[3] | Luna L. Sánchez Reyes (she/her)[5] | Matthew J. Grainger[6] | Vivienne Foroughirad (she/her)[7] | Friederike Hillemann (she/her)[8] | Allison D. Binley (she/her)[3] | Cole B. Brookson (he/him)[9] | Kaitlyn M. Gaynor (she/her)[10] | Saeed Shafiei Sabet (he/him)[11] | Ali Güncan[12] | Helen Weierbach (she/her)[13] | Dylan G. E. Gomes[14] | Robert Crystal-Ornelas (he/him)[13]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18 Uncommitted Changes
History
Pull Request
Filter Repositories
GitHub
bookdown
Capitulo-4---B-EF
courses
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18 Changes
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Table 1 - Complete.doc
Table 2 - MPD_productivity.docx
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Table 5 - PD_decomposition.doc
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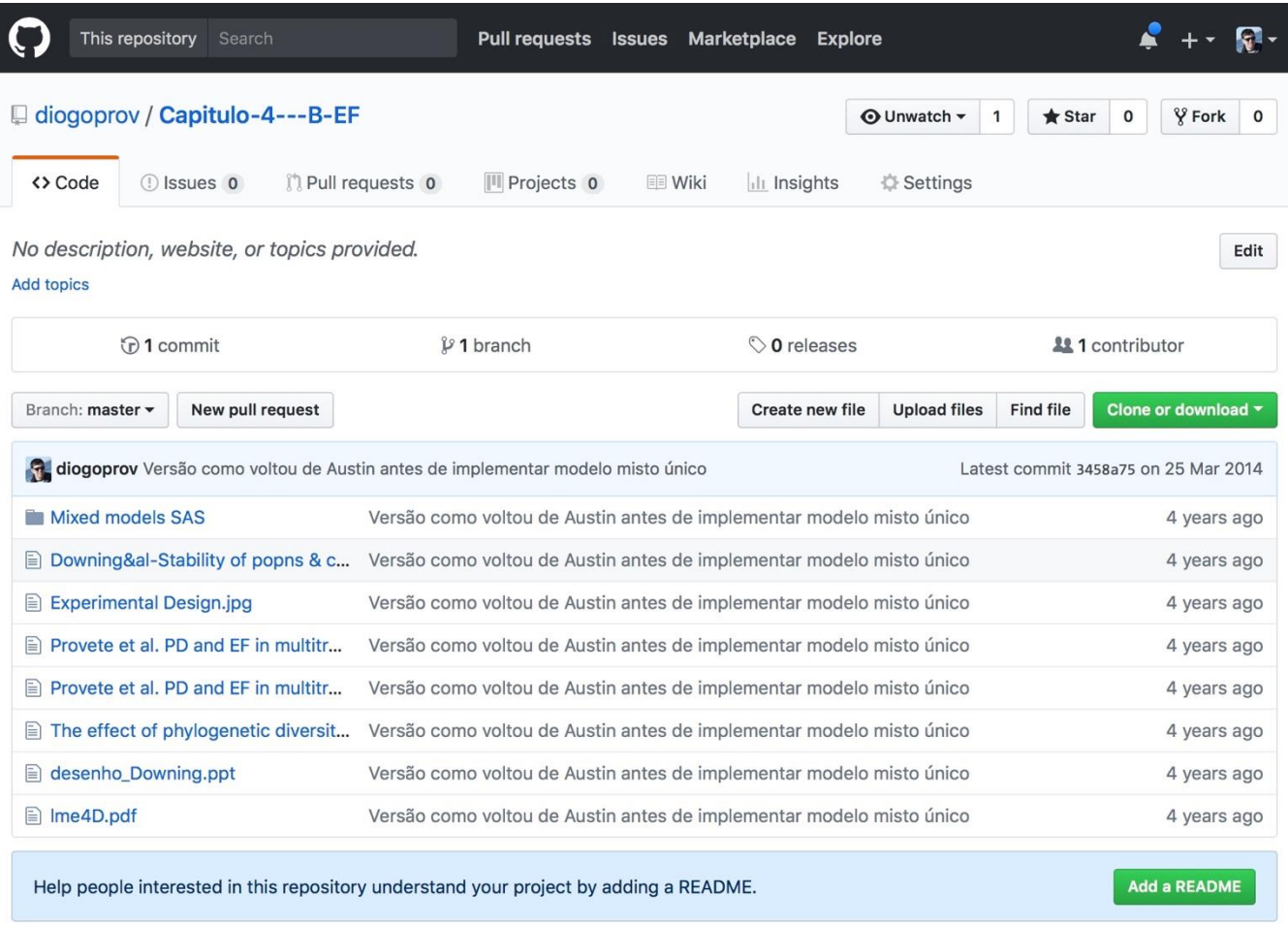
The effect of phylogenetic diver...ecosystem functioning-asm2.doc
The effect of phylogenetic diver...ecosystem functioning-asm3.doc
The effect of phylogenetic diver...water ecosystem functioning.doc
Summary
Description
Commit and Sync master
Amy's Data
@@ -0,0 +1 @@
1
+ Subproject commit 63e266052b24a25517b2432372a21bbb6f2f650d-dirty


This repository
Search
Pull requests
Issues
Marketplace
Explore
diogoprov / Capitulo-4---B-EF
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
diogoprov Versão como voltou de Austin antes de implementar modelo misto único
Latest commit 3458a75 on 25 Mar 2014
Mixed models SAS Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
Downing&al-Stability of popns & c... Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
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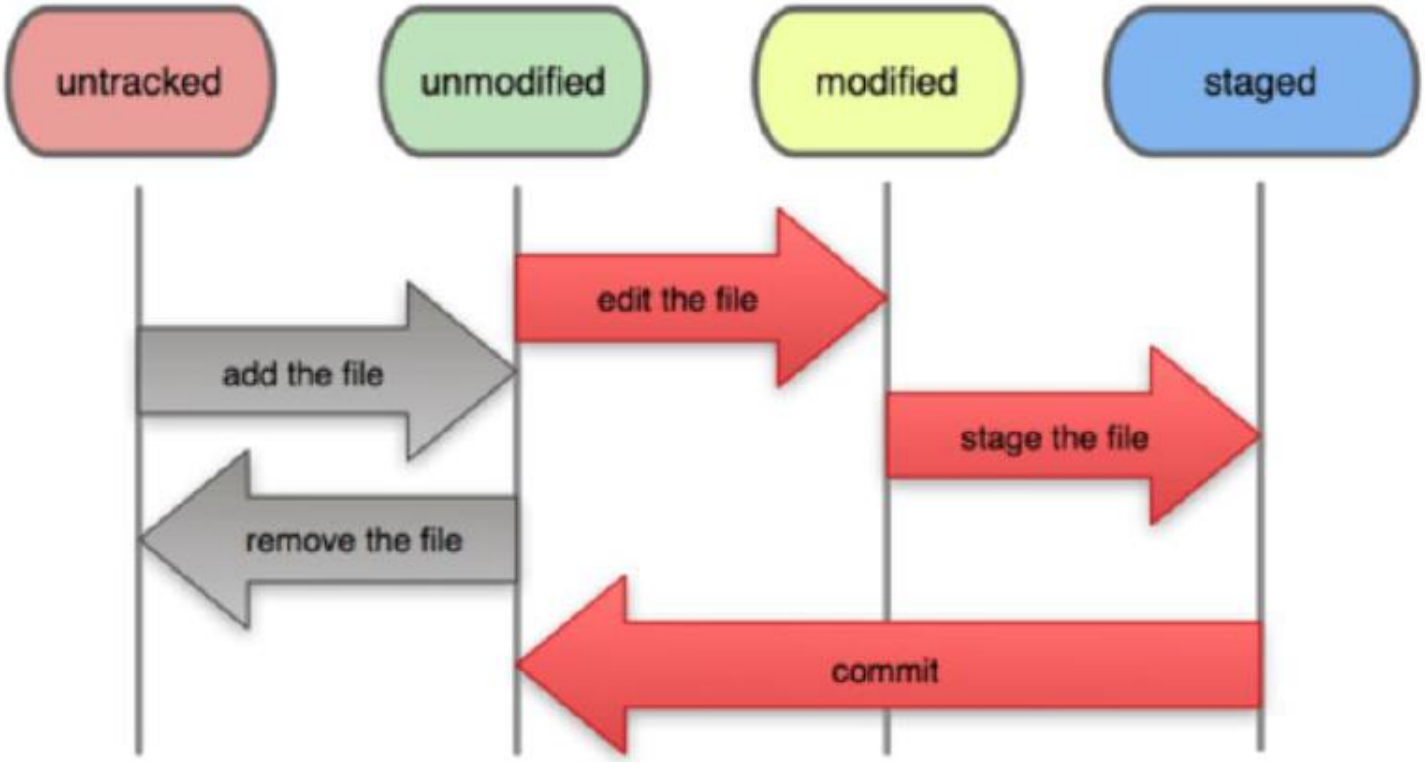
Provete et al. PD and EF in multitr... Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
Provete et al. PD and EF in multitr... Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
The effect of phylogenetic diversit... Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
desenho_Downing.ppt Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
lme4D.pdf Versão como voltou de Austin antes de implementar modelo misto único 4 years ago
Help people interested in this repository understand your project by adding a README.
Add a README

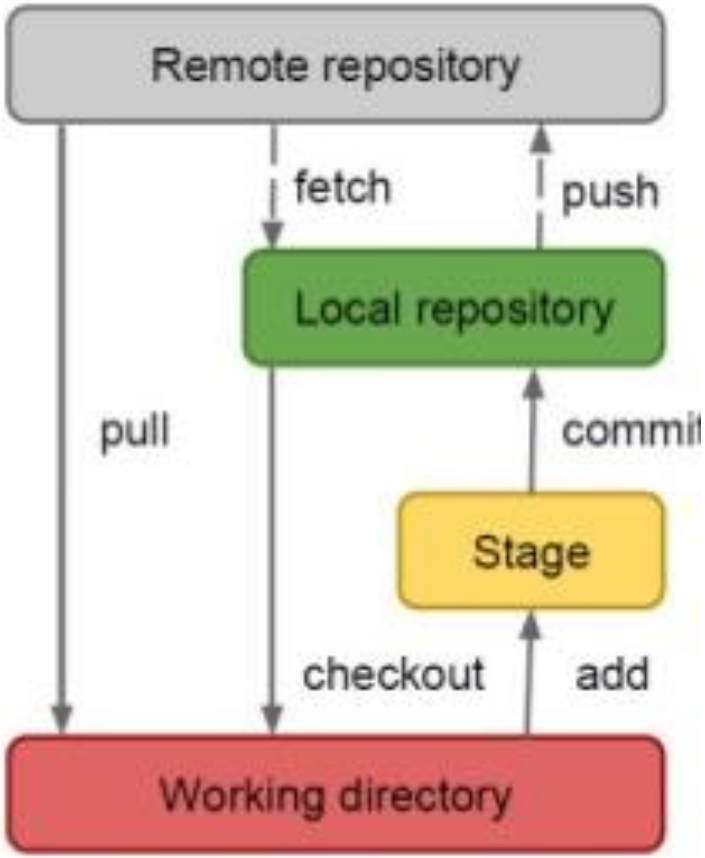
File Status Lifecycle



Qual o fluxo de trabalho?

Understanding of Workflow

- Obtain a repository
  - *git init* or *git clone*
- Make some changes
- Stage your changes
  - *git add*
- Commit changes to the local repository
  - git commit –m “My message”
- Push changes to remote
  - git push remotename remotebranch



Git Commands

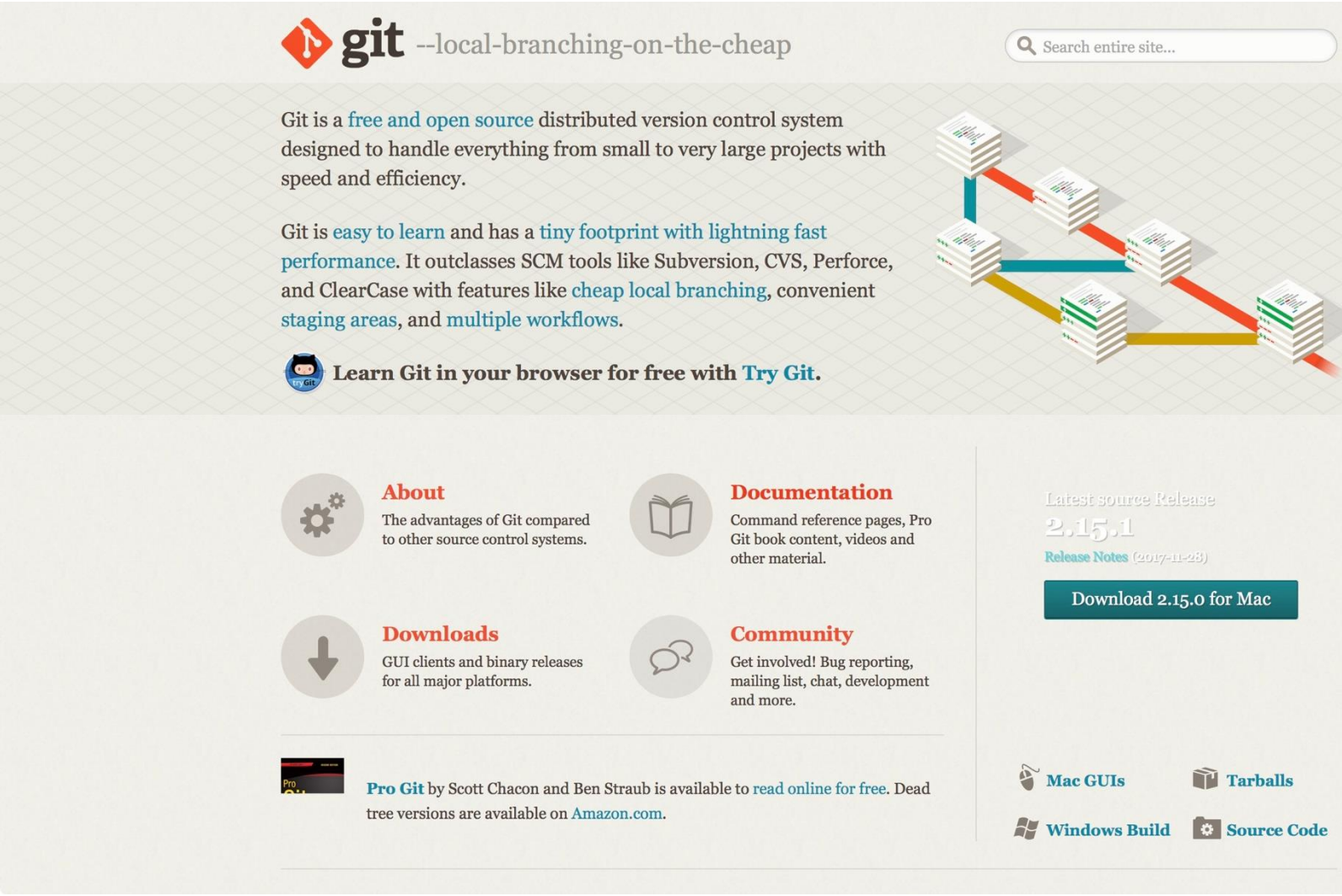
- Setup and Config
  - git config
    - Get and set repository or global options
  - git help
    - Display help information about Git
- Getting and Creating Projects
  - git init
    - Create an empty Git repository or reinitialize an existing one
  - git clone
    - Clone a repository into a new directory

Git Commands

- Basic Snapshotting
  - git add
    - Add file contents to the index
  - git status
    - Show the working tree status
  - git commit
    - Record changes to the repository

Git Commands

- Sharing and Updating Projects
- git fetch
  - Download objects and refs from another repository
- git pull
  - Fetch from and integrate with another repository or a local branch
- git push
  - Updating remote refs along associated objects



https://git-scm.com

Exercitando

Leiam do tópico 5.1 ao 5.5 e façam os respectivos exercícios (5.3.1, 5.4.1, e 5.5.2)

https://ipeadata-lab.github.io/curso_r_intermediario_202501/git-github.html#introdução

Leiam o tópico 5.7 e 5.8 e façam o exercício: 5.7.6 e 5.8.6

https://ipeadata-lab.github.io/curso_r_intermediario_202501/git-github.html#conectar-com-o-rstudio