

Ten Simple Rules for Taking Advantage of Git and GitHub

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SUMÁRIO



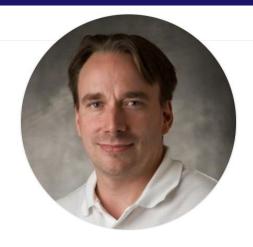
O que é Github?

GitHub é uma plataforma de hospedagem de código-fonte e arquivos com controle de versão usando o **Git**.

O GitHub foi **desenvolvido** por Chris Wanstrath, J. Hyett, Tom Preston-Werner e Scott Chacon em **2008**



https://github.com/explore



Linus Torvalds torvalds

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Linux Foundation

Portland, OR



O github usa o sistema Git, que foi criado pelo mesmo criador do Linux

Curiosidade do dia

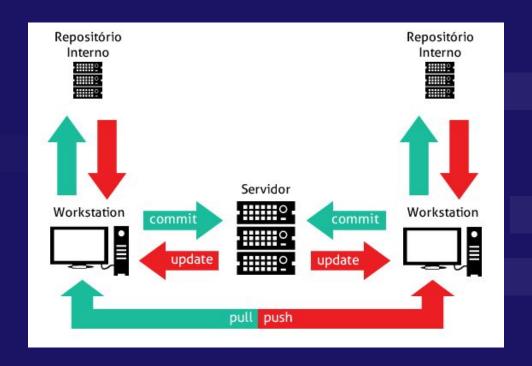


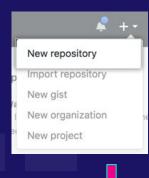
https://github.com/torvalds

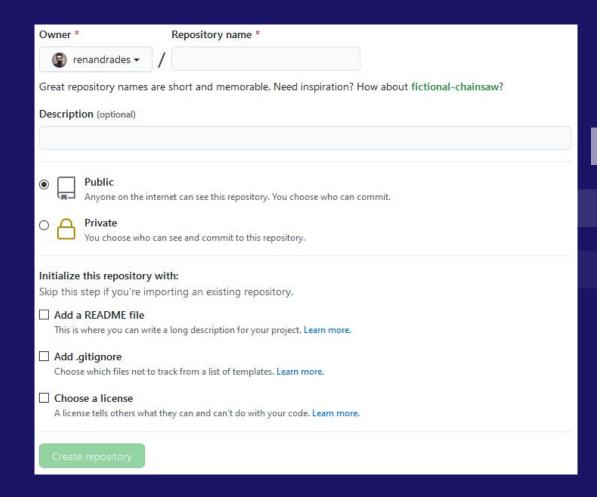


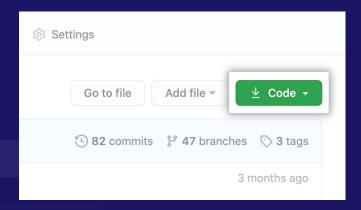


Regra 1: Use o GitHub para controlar seus projetos

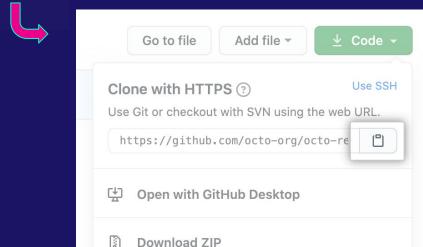








git clone



Exemplo

```
git push origin master
## push local changes to the remote
Repository
```

```
git pull origin master
## pull remote changes into the
local repository
```

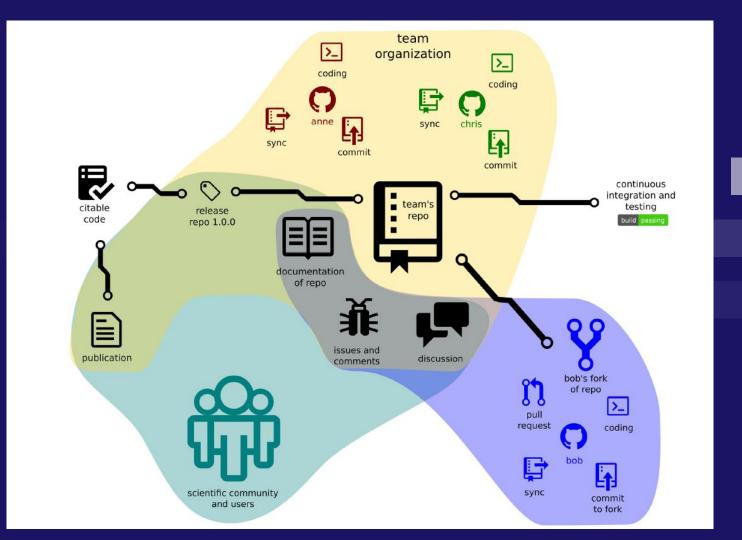
Table 1. Bioinformatics repository examples with good practices of using GitHub. The table contains the name of the repository, the type of example (issue tracking, branch structure, unit tests), and the URL of the example. All URLs are prefixed with https://github.com/.

Name of the Repository	Туре	URL
Adam	Community Project, Multiple forks	https://github.com/bigdatagenomics/adam
BioPython [18]	Community Project, Multiple contributors	https://github.com/biopython/biopython/graphs/contributors
Computational Proteomics Unit	Lab Repository	https://github.com/ComputationalProteomicsUnit
Galaxy Project [19]	Community Project, Bioinformatics Repository	https://github.com/galaxyproject/galaxy
GitHub Paper	Manuscript, Issue discussion, Community Project	https://github.com/ypriverol/github-paper
MSnbase [20]	Individual project repository	https://github.com/lgatto/MSnbase/
OpenMS [21]	Bioinformatics Repository, Issue discussion, branches	https://github.com/OpenMS/OpenMS/issues/1095
PRIDE Inspector Toolsuite [22]	Project Organization, Multiple projects	https://github.com/PRIDE-Toolsuite
Retinal wave data repository [23]	Individual project, Manuscript, Binary Data organized	https://github.com/sje30/waverepo
SAMtools [24]	Bioinformatics Repository, Project Organization	https://github.com/samtools
rOpenSci	Community Project, Issue discussion	https://github.com/ropensci
The Global Alliance For Genomics and Health	Community Project	https://github.com/ga4gh

doi:10.1371/journal.pcbi.1004947.t001

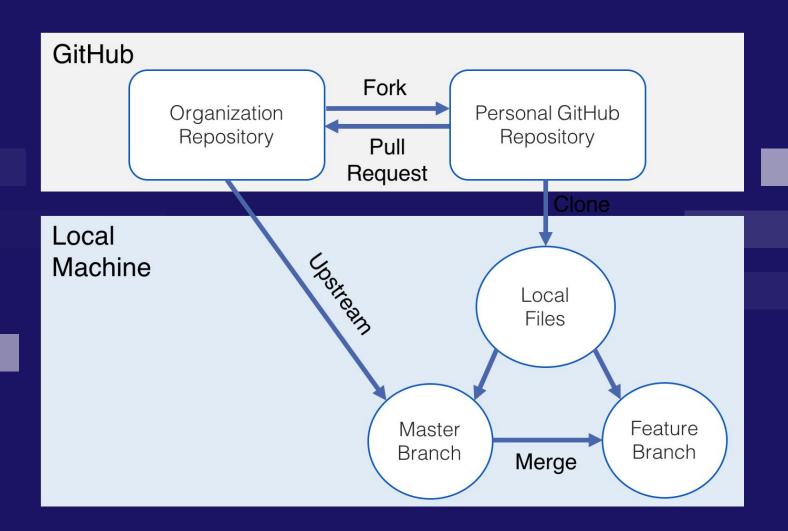


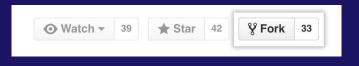
Regra 2: GitHub para "lobos solitários", grupos, e / ou labs e organizações





Regra 3: Colaborando e desenvolvendo: Branching E Forking









build passing

README.md

@ github.com/bioinfo-hcpa/github-paper

This repository contains the manuscript entitled: Ten Simple Rules for Taking Advantage of git and GitHub. Our aim here is to describe how the bioinformatics community can use GitHub features and tools on a daily basis.

- Pre-print: http://biorxiv.org/content/early/2016/05/13/048744
- In PLoS Computational Biology: http://dx.doi.org/10.1371/journal.pcbi.1004947

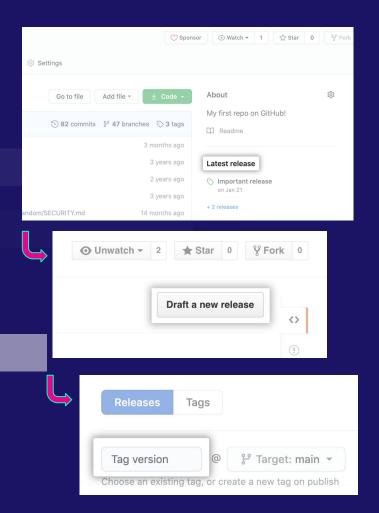
We hope to finalise the manuscript and re-submit soon and won't accept any new pull requests. Feel free to open an issue if there is any point you would like to raise or discuss.

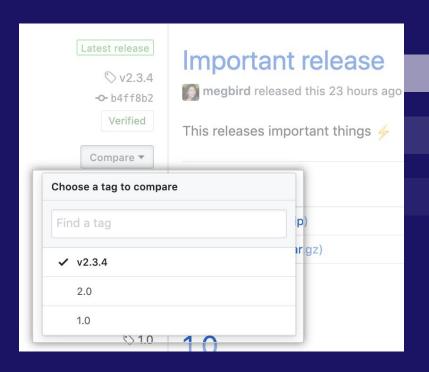


nemochina2008 / github-paper nguyendoanguyet / github-paper

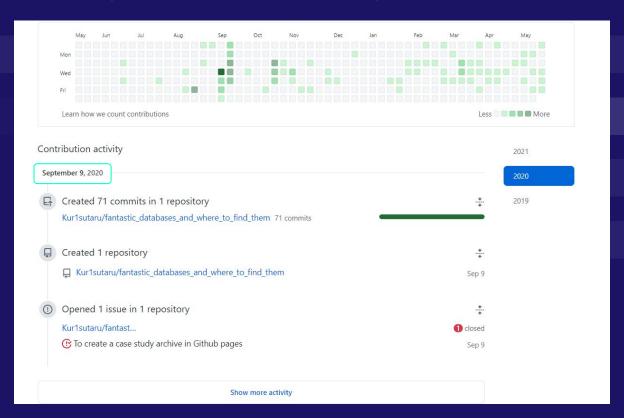


Regra 4: Nomeando Branches e fazendo Commits





Aqui podemos observar uma cientista prestes a publicar e qualificar



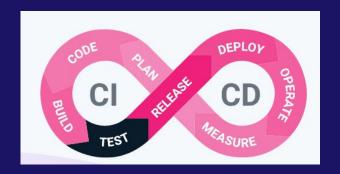


Regra 5: Deixando o GitHub fazer algumas tarefas por nós: Integração

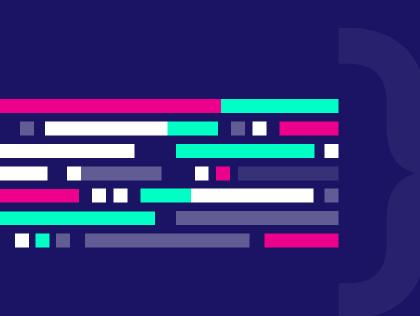
Melhorar a qualidade de um repositório antigo

Testar códigos automaticamente

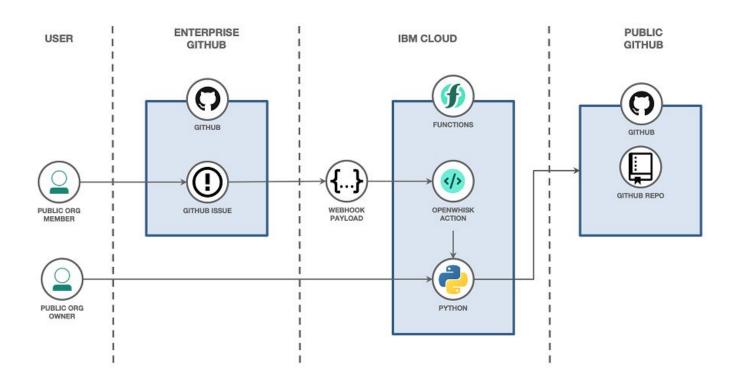
Diminuir o tempo de implementação e runtime



Codecov - The Leading Code Coverage Solution

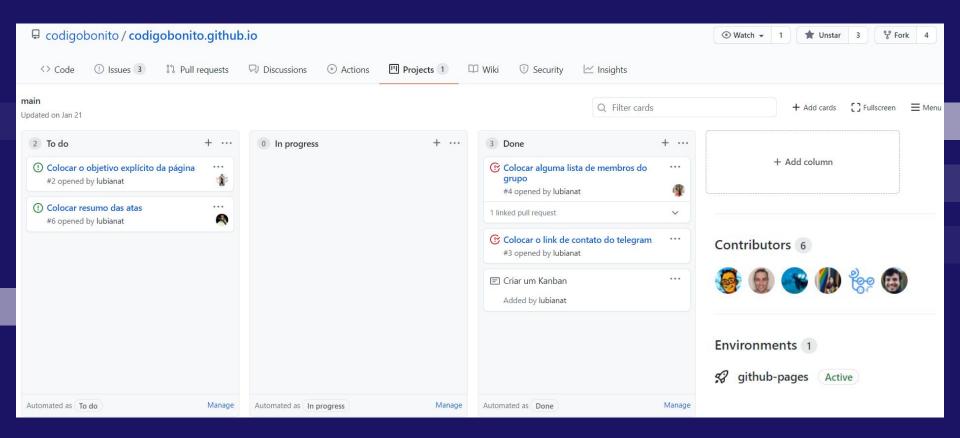


Regra 6: Deixando o GitHub fazer (ainda mais) tarefas por nós: Automação



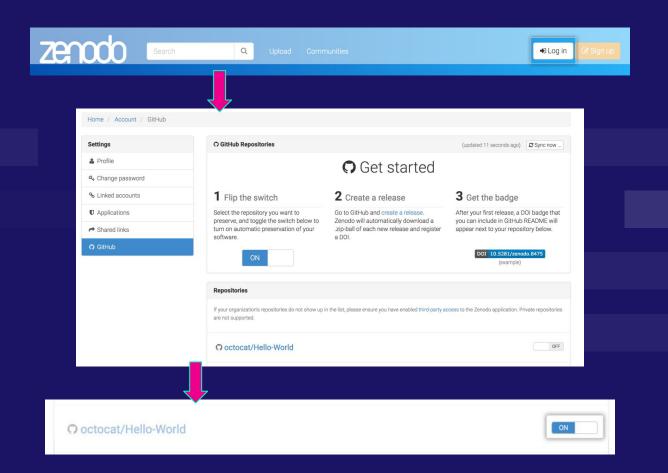


Regra 7: Utilizando o Github como fórum de discussão, criando issues, projetos e insights





Regra 8: Faça seus códigos ficarem reproduzíveis e citados. Cite códigos também!





Regra 9:
Promovendo e
discutindo
projetos: Github
pages



Código Bonito

Um grupo livre para falar sobre ciência aberta, bioinformática e programação

Página inicial.









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fantastic_databases_and_where_to_find_them

Repository of databases for omic data

View on GitHub

Case study: Exploratory *ACE2* analysis using multiomic web tools

Table of contents

- Step 1 Searching basic information on ACE2
- Step 2 Genomic and sequence databases
- Step 3 Searching of ACE2 Gene expression
- Step 4 Searching in Cancer databases



Regra 10: Utilizando o Github como rede social (?)







Algumas razões para usar Github

Ciência Aberta e Controle das Reprodutibilidade

versões

Porfólio: Aprender e Colaborar!







BORA USAR MAIS O GITHUB?



OBRIGADA!

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