



MONAN

Criando Forks do Repositório

Versão recortada da apresentação realizada no Workshop Interno da DIMNT para início dos trabalhos com o MONAN-ATM/SFC dos dias 2 a 3 de outubro de 2023.

Grupo de Computação Científica - GCC
Divisão de Modelagem Numérica do Sistema Terrestre - DIMNT
Coordenação-Geral de Ciências da Terra - CGCT



MONAN
Model for Ocean-IaNd-Atmosphere prediction

0 Git e GitHub: conceitos iniciais

Fork

- É uma cópia de um projeto na conta pessoal de um desenvolvedor.
- Cada desenvolvedor tem controle total de seu fork e é livre para implementar uma correção ou novo recurso.
- O trabalho concluído no fork é mantido separado ou é retornado para o projeto original por meio de um *pull request*.

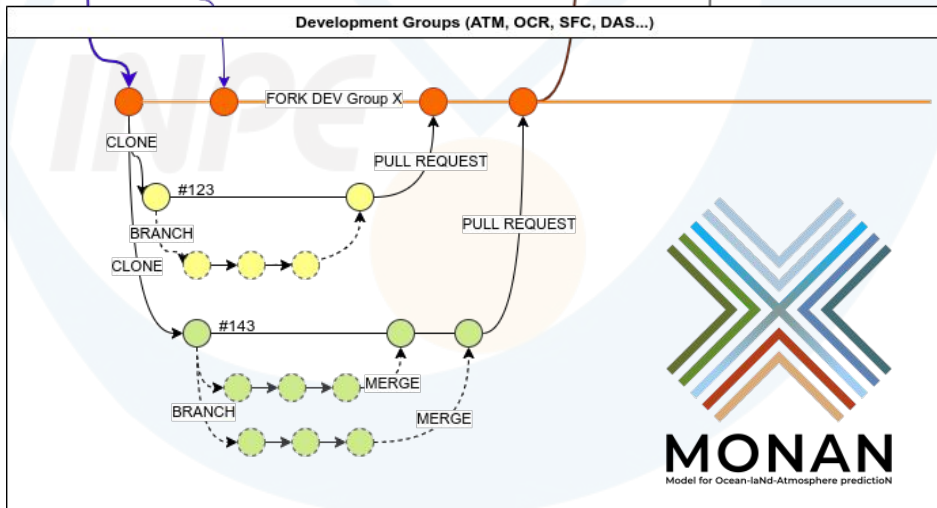
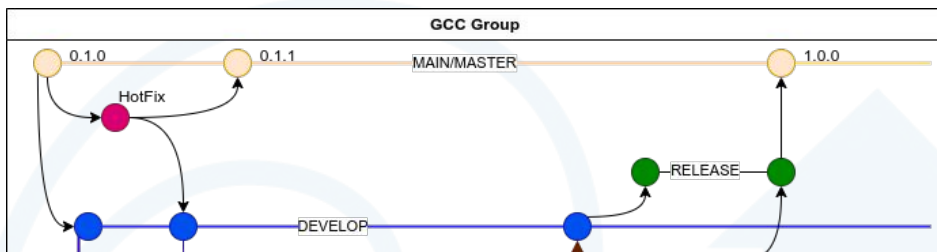
Pull Request

- Uma solicitação que gera uma notificação sinalizando a conclusão do desenvolvimento de uma *feature* qualquer sugerindo um merge.
- Permite ver as diferenças entre o projeto original e o seu *branch* de recurso.

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Evitando quebras e conflitos

Repositório do MONAN - Git flow



- O versionamento usa gitflow, com duas linhas de controle:
 - **main** (ou master) [●]
 - **develop** [●]
- Os grupos devem fazer uma bifurcação (**fork**) do **develop** [●] para seu próprio desenvolvimento.
- De cada bifurcação criam-se **clones** [●●] conforme a necessidade do desenvolvimento.
- Cada clone pode ter um ou mais **branches** [●●] para atender a suas tarefas específicas.
- O grupo GCC cuida do gerenciamento dos pedidos de inserção das versões [↗].
- Bugs do main geram **Hotfix** (●) para manutenção. Releases (●) para testes do GCC (qualidade e performance) e do GAM (funcionalidade) são geradas para aprovação ou não.

2 Acessando o repositório do MONAN



Endereço

<https://github.com/monanadmin/MONAN-Model>

Modelo Básico MPAS-v8.0.1

```
MPAS-Model
├── src
│   ├── driver -- Main driver for MPAS in stand-alone mode (Shared)
│   ├── external -- External software for MPAS (Shared)
│   ├── framework -- MPAS Framework (Includes DDT Descriptions, and shared routines. Shared)
│   ├── operators -- MPAS Operators (Includes Operators for MPAS meshes. Shared)
│   └── tools -- Empty directory for include files that Registry generates (Shared)
│       ├── registry -- Code for building Registry.xml parser (Shared)
│       ├── input_gen -- Code for generating streams and namelist files (Shared)
│       └── core_* -- Individual model cores.
├── inc -- Empty directory for include files that Registry generates
├── testing_and_setup -- Tools for setting up configurations and test cases (Shared)
└── default_inputs -- Copies of default stream and namelists files (Shared)
```



MONAN

Model for Ocean-IaNd-Atmosphere prediction

3 Página inicial do MONAN - Repositório


MONAN-Model Public Edit Pins Unwatch 4 Fork 1 Star 0

main 1 branch 0 tags Go to file Add file Code

deniseiras removing file delete me 28290af last month 12 commits

src	removing file delete me	last month
.gitignore	Initial commit	last month
.gitmodules	adding .gitmodules	last month
README.md	Update README.md	last month
licenca-gpl-3.0.pt-br.md	licenses included from monanadmin/monan repository	last month
license-gpl-3.0.eng.md	licenses included from monanadmin/monan repository	last month

README.md



MONAN

Model for Ocean-IaNd-Atmosphere predictionN

MONAN is a community model of the Unified Earth System that has as its main objective, as its name already refers, to be a numerical model that covers all scales, geographical and temporal, of the entire Earth system and its implications. It is "community" because it aggregates efforts from several Brazilian national institutions such as universities, research centers, operational centers and various authorities in the area of meteorology, environment, oceans and others. It also can receive support from international centers and universities as well as support from the private sector.

About

MONAN - Model for Ocean-IaNd-Atmosphere PredictionN

Readme

Activity

0 stars

4 watching

1 fork

Report repository

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Contributors 2

 **deniseiras** Denis Eiras

 **egkhamis** Eduardo Khamis



4 Fazendo Fork do Repositório - Passo 1


MONAN-Model (Public) Edit Pins Unwatch 4 Fork 1 Star 0

main 1 branch 0 tags Go to file Add file Code

deniseiras removing file delete me 28290af last month 12 commits

- src removing file delete me last month
- .gitignore Initial commit last month
- .gitmodules adding .gitmodules last month
- README.md Update README.md last month
- licenca-gpl-3.0.pt-br.md licenses included from monanadmin/monan repository last month
- license-gpl-3.0.eng.md licenses included from monanadmin/monan repository last month

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Clicar na chave Fork



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Fazendo Fork do Repositório - Passo 2

Create a new fork

A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (*).

Owner *



lufiarois

MONAN-Model_lufla

MONAN-Model_lufla is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

MONAN - Model for Ocean-IaNd-Atmosphere Prediction

Copy the main branch only

Contribute back to the original repository by creating your own branch. [Learn more.](#)

You are creating a fork in your personal account.

Create fork

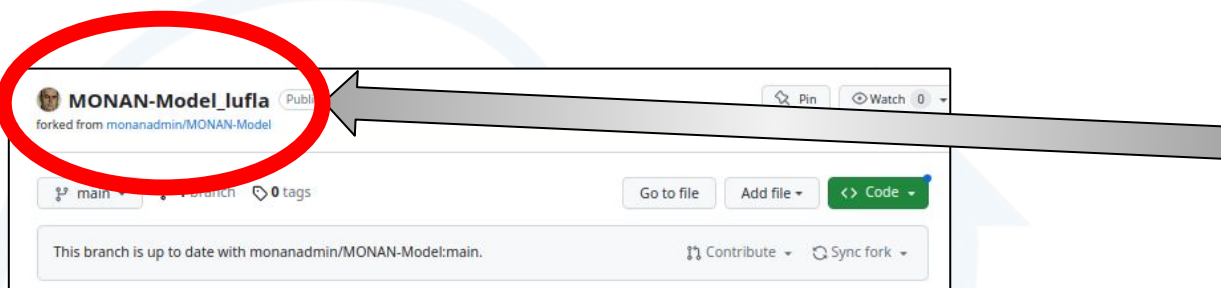
Aponte para quem será o proprietário

O nome do novo repositório pode (e deve) ser mudado - Por exemplo:

MONAN-model_lufla

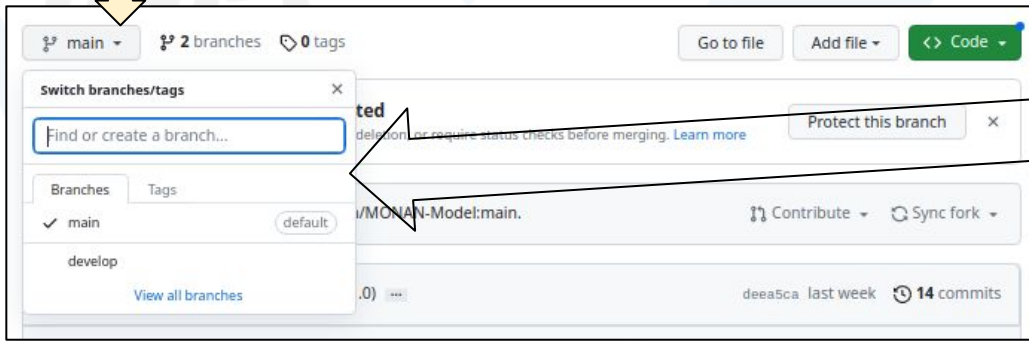
Desmarque a opção **main branch only** !

6 Verificando Fork do Repositório



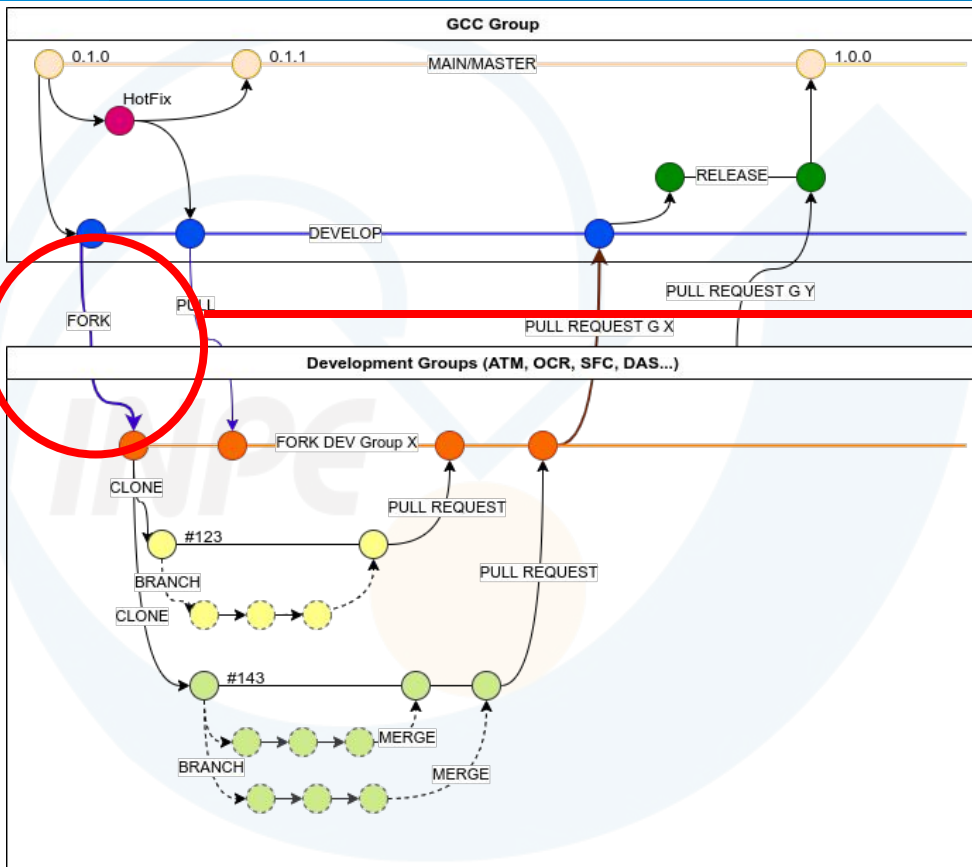
Veja que um novo fork (from monanadmin) foi criado para o proprietário

Clique



Observe que além do branch main (master) existe o branch de desenvolvimento "develop"
Obedece o git flow usado no padrão de versionamento!

Workflow



Fork Criado!