

#### Mini Curso

By David Cardoso;)

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# O QUE É GIT?!

Git pronunciado [git] é um sistema de controle de versão distribuído e um sistema de gerenciamento de código fonte, com ênfase em velocidade. O Git foi inicialmente projetado e desenvolvido por Linus Torvalds para o desenvolvimento do kernel Linux, mas foi adotado por muitos outros projetos.



Git – Wikipédia, a enciclopédia livre https://pt.wikipedia.org/wiki/Git





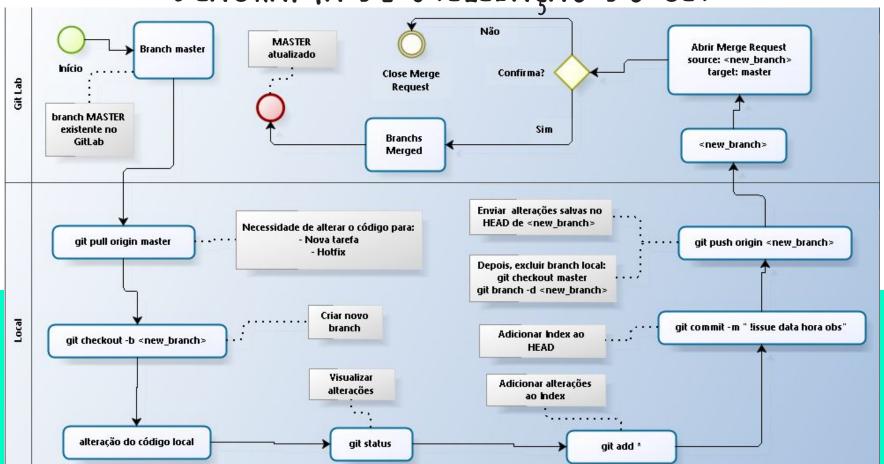
# SERVIÇOS BASEADOS NO GIT

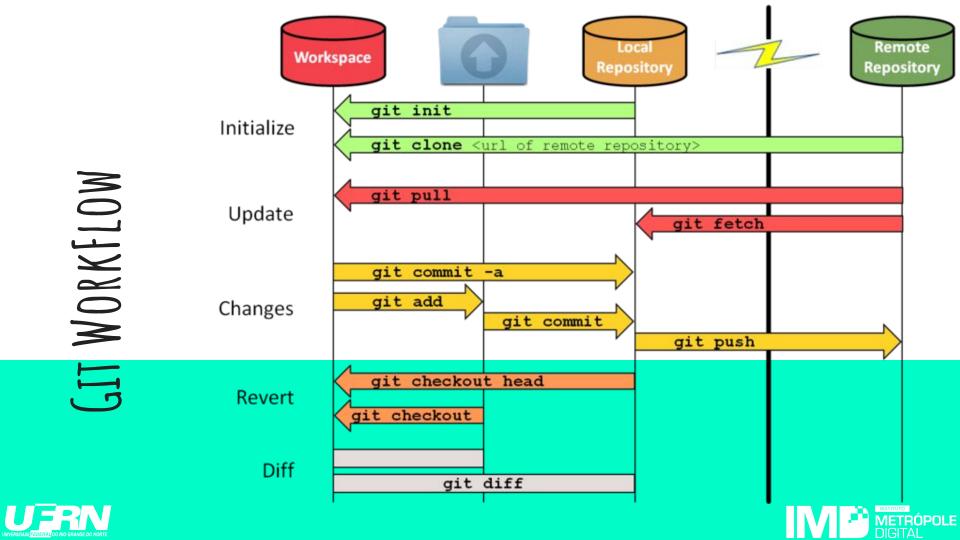




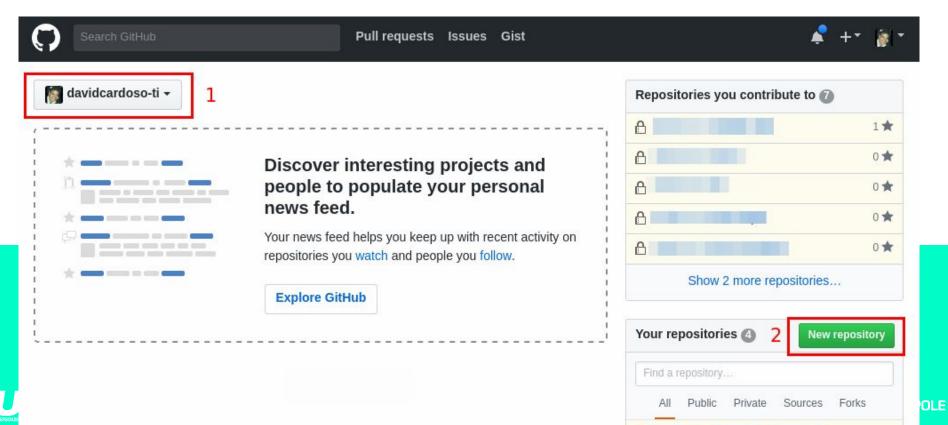


DIAGRAMA DE UTILIZAÇÃO DO GIT





### GITHUB



# REPOSITÓRIOS

#### Create a new repository

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

#### Owner Repository name 🧑 davidcardoso-ti 🕶 imd-mini-curso Great repository names are short and memorable. Need inspiration? How about miniature-guacamole. Description (optional) Repositório exemplo para o mini curso de GitHub no IMD. Public Anyone can see this repository. You choose who can commit. Private You choose who can see and commit to this repository.

#### Organizar por:

- Projetos
- Disciplinas
- Clientes



Add a license: GNU General Public License v3.0 ▼ (

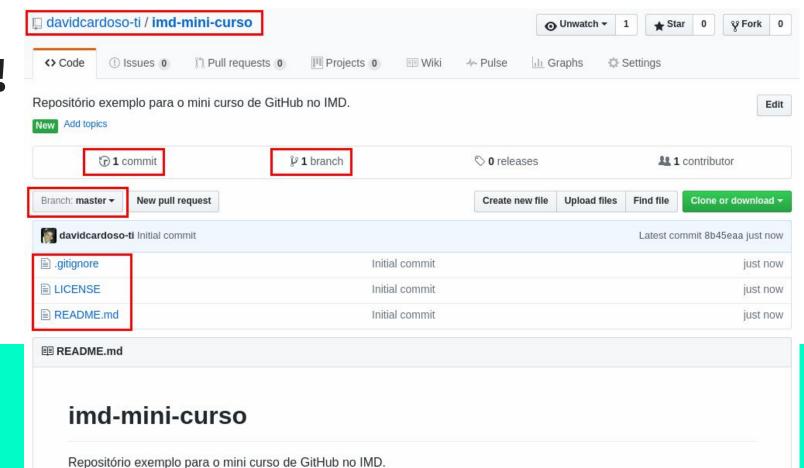
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Initialize this repository with a README 3

Create repository

Add .gitignore: C++ ▼

#### Okay!







### COMMIT



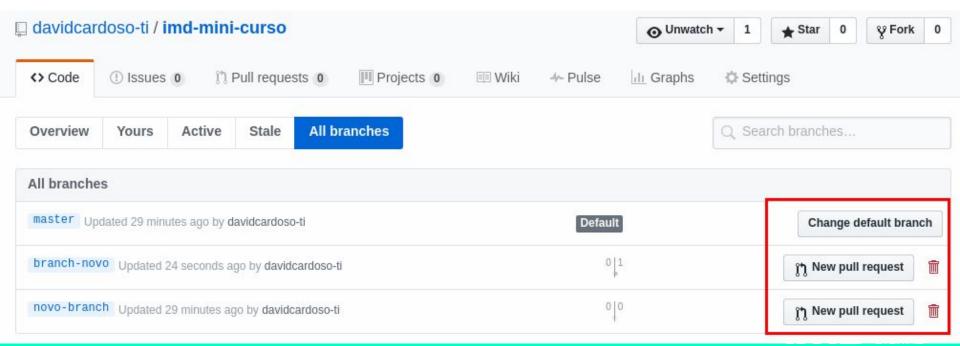




### BRANCH

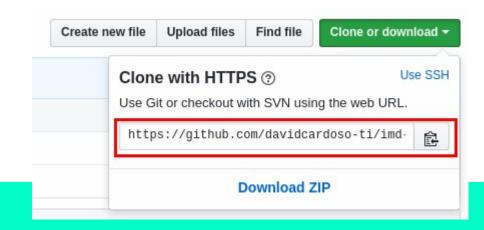
#### Separar por:

- Pessoa
- Tarefa
- Hotfix



### COPIANDO DO REPOSITÓRIO...

- HTTPS
- SSH
- Download





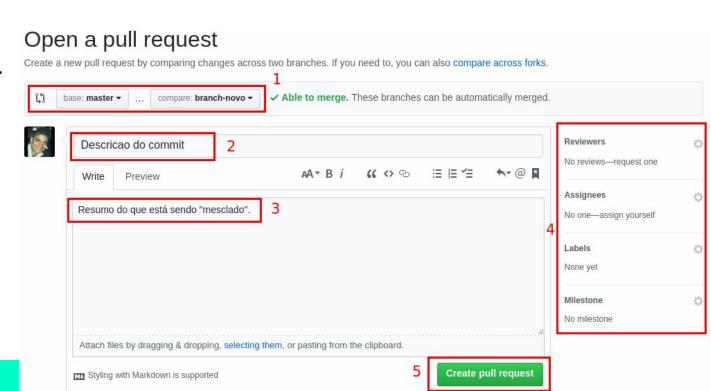


# PULL REQUEST

 Pedido de mesclagem de um branch com outro.

-0-1 commit

Commits on Mar 03, 2017



Q o commit comments

1 file changed

Descricao do commit



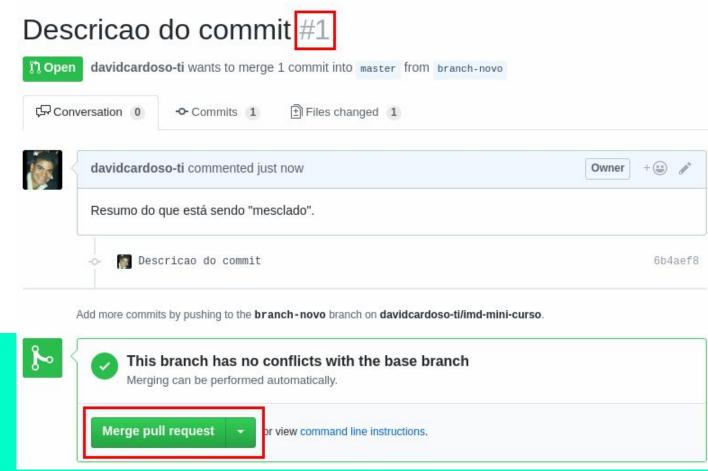


6b4aef8

22 1 contributor

# PULL REQUEST

- PR fica aberto
- PR deve ser validado
- PR precisa ser confirmado ou fechado

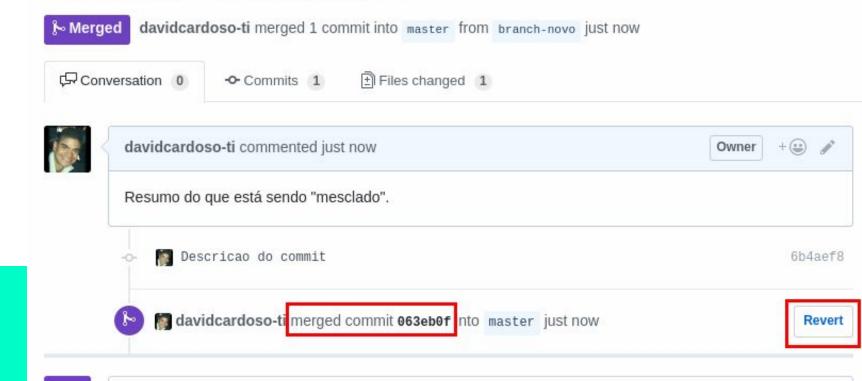






### PR

#### Descricao do commit #1



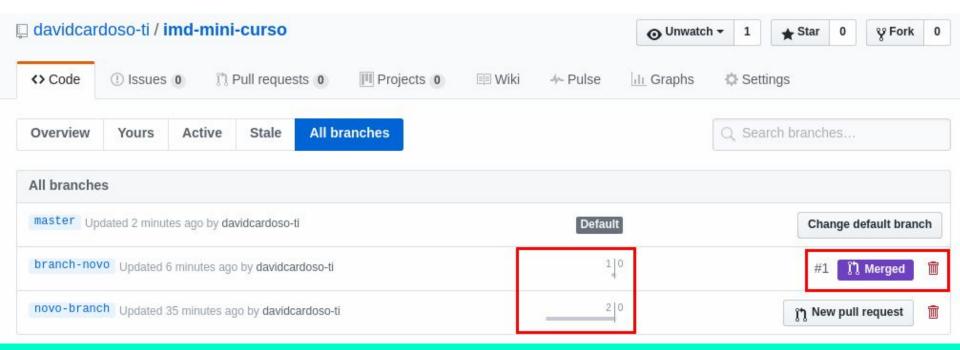


Pull request successfully merged and closed

You're all set—the branch-novo branch can be safely deleted.

ပူ Delete branch

# PULL REQUEST







# GIT CLONE (1)

```
david@localhost:~
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost ~]$ ls
'Area de trabalho' Downloads imd0029 imd0703 Música Vídeos
Documentos Imagens imd0030 Modelos Público
[david@localhost ~]$ pwd
/home/david
[david@localhost ~]$ git clone http://projetos.imd.ufrn.br/davidcardoso-ti/teste.git teste-clone
Cloning into 'teste-clone'...
Username for 'http://projetos.imd.ufrn.br': davidcardoso-ti
Password for 'http://davidcardoso-ti@projetos.imd.ufrn.br':
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
Checking connectivity... done.
[david@localhost ~]$ ls
'Àrea de trabalho' Downloads imd0029 imd0703 Música
                              imd0030 Modelos Público videos
[david@localhost ~]$
```

# GIT CLONE (2)

```
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost ~]$ cd teste-clone/
[david@localhost teste-clone]$ ls
README.md
[david@localhost teste-clone]$
[david@localhost teste-clone]$
[david@localhost teste-clone]$ git branch
| aavig@localhost teste-clone | $
[david@localhost teste-clone]$
[david@localhost teste-clone]$ git log -1
commit ef288a3e/<del>129c0a45b55</del>b21504/545bT5T410e77
Author: David Cardoso <davidcardoso.ti@gmail.com>
Date: Tue Sep 6 12:31:41 2016 -0300
   initial commit
[david@localhost teste-clone]$
[david@localhost teste-clone]$
[david@localhost teste-clone]$ git remote -v
origin http://projetos.imd.ufrn.br/davidcardosc-ti/teste.git (fetch)
origin | http://projetos.imd.ufrn.br/davidcardoso-ti/teste.git (push)
|david@localhost teste-clone|$
```

# GIT INIT (1)

```
david@localhost:~/teste-init
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost ~]$ pwd
/home/david
[david@localhost ~]$ mkdir teste-init
[david@localhost ~]$
[david@localhost ~]$ ls
'Área de trabalho' Downloads imd0029 imd0703 Música teste clone Vídeos
[david@localhost ~]$
[david@localhost ~]$ cd teste-init/
[david@localhost teste-init]$
[david@localhost teste-init]$ git init
Initialized empty Git repository in /nome/david/teste-init/.git/
[david@localhost teste-init]$
[david@localhost teste-init]$ ls -la
total 12
drwxrwxr-x. 3 david david 4096 Set 7 22:01
drwx-----. 31 david david 4096 Set 7 22:01 🦰
drwxrwxr-x. 7 david david 4096 Set
                                    7 22:01 .git
[david@localhost teste-init]$
```

# GIT INIT (2)

```
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost teste-init]$
[david@localhost teste-init]$ git remote
[david@localhost teste-init]$
[david@localhost teste-init]$ git remote add origin http://projetos.imd.ufrn.br/davidcardoso-ti/teste.git
[david@localhost teste-init]$
[david@localhost teste-init]$ git remote -v
origin http://projetos.imd.ufrn.br/davidcardoso-ti/teste.git (fetch)
origin http://projetos.imd.ufrn.br/davidcardoso-ti/teste.git (push)
[david@localhost teste-init]$
[david@localhost teste-init]$ git pull origin master
Username for 'http://projetos.imd.ufrn.br': davidcardoso-ti
Password for 'http://davidcardoso-ti@projetos.imd.ufrn.br':
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
From http://projetos.imd.ufrn.br/davidcardoso-ti/teste
* branch
                    master -> FETCH HEAD
* [new branch] master -> origin/master
[david@localhost teste-init]$
[david@localhost teste-init]$ ls
README.md
[david@localhost teste-init]$
```

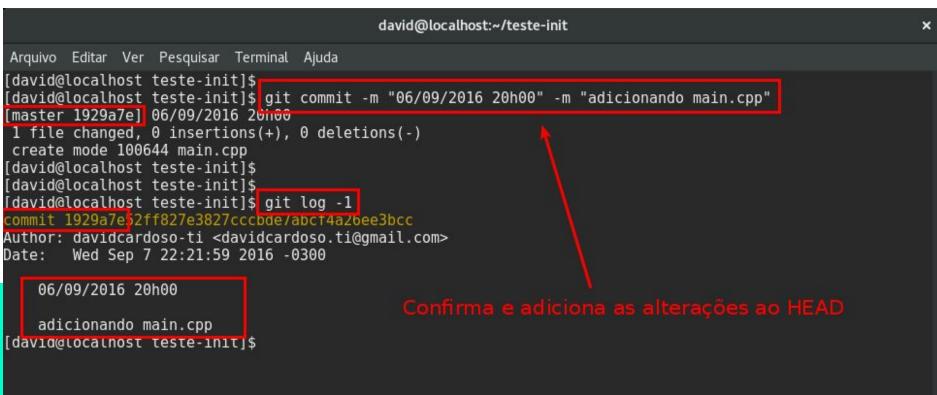
# GIT INIT (3)

```
david@localhost:~/teste-init
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost teste-init]$
[david@localhost teste-init]$ git branch
[david@localhost teste-init]$
[david@localhost teste-init]$
[david@localhost teste-init]$ git log -1
commit ef288a3e/129c0a45b5562150475456f5f410e77
Author: David Cardoso <davidcardoso.ti@gmail.com>
Date: Tue Sep 6 12:31.41 2016 -0300
   initial commit
[david@localhost teste-init]$
[david@localhost teste-init]$
[david@localhost teste-init]$ ls -la
total 16
drwxrwxr-x. 3 david david 4096 Set 7\22:08
drwx-----. 31 david david 4096 Set 7 22:01
drwxrwxr-x. 8 david david 4096 Set 7 22.08 ait
-rw-rw-r--. 1 david david 67 Set 7 22:03 README.md
[david@localhost teste-init]$
```

# GIT ADD ( . OU \* )

```
david@localhost:~/teste-init
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost teste-init]$ touch main.cpp
[david@localhost teste-init]$
[david@localhost teste-init]$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[david@localhost teste-init]$
[david@localhost teste-init]$
[david@localhost teste-init]$ git add .
[david@localhost teste-init]$
[david@localhost teste-init]$_
[david@localhost teste-init]$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
        new file:
```

### GIT COMMIT



### GIT STATUS

```
main.cpp README.md
[david@localhost teste-init]$
[david@localhost teste-init]$ touch arquivo.h
[david@localhost teste-init]$
[david@localhost teste-init]$ touch arquivo.cpp
[david@localhost teste-init]$
[david@localhost teste-init]$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
[david@localhost teste-init]$
[david@localhost teste-init]$ git add .
[david@localhost teste-init]$
[david@localhost teste-init]$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
                    arquivo.h
```

## GIT LOG

```
[david@cocachost teste-init()
[david@localbost_teste-init]$ git commit -m "07/09/2016" -m "adicionando arguivo.h e arguivo.cpp"
[master 9caf11d] 07/09/2016
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 arquivo.cpp
create mode 100644 arquivo.h
[david@localhost teste-init]$
[david@localhost teste-init]$ git log -3
commit 9caf11d35e1bb43135b21ac0010d8c5c3ad6a016
Author: davidcardoso-ti <davidcardoso.ti@gmail.com>
Date:
       Wed Sep 7 22:28:11 2016 -0300
    07/09/2016
    adicionando arquivo.h e arquivo.cpp
commit 1929a7e52ff827e3827cccbde7abcf4a26ee3bcc
Author: davidcardoso-ti <davidcardoso.ti@gmail.com>
Date:
       Wed Sep 7 22:21:59 2016 -0300
    06/09/2016 20h00
    adicionando main.cpp
```

Author: David Cardoso <davidcardoso.ti@gmail.com>

commit ef288a3e7b29c0a45b5562150475456f5f410e77

#### GIT PUSH

```
david@localhost:~/teste-init
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost teste-init]$
[david@localhost teste-init]$ git branch
[david@localhost teste-init]$
[david@localhost teste-init] git checkout -b novo-branch
Switched to a new branch 'novo-branch'
|david@localnost teste-init|$
[david@localhost teste-init]$ git push origin novo-branch
Username for 'http://projetos.imd.ufrn.br': davidcardoso-ti
Password for 'http://davidcardoso-ti@projetos.imd.ufrn.br':
Counting objects: 5, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 500 bytes | 0 bytes/s, done.
Total 5 (delta 1), reused 0 (delta 0)
To http://projetos.imd.ufrn.br/davidcardoso-ti/teste.git
* [new branch] novo-branch -> novo-branch
[david@localhost teste-init]$
[david@localhost teste-init]$ git branch
 master
[david@localhost teste-init]$
```

# GIT DOCUMENTAÇÃO

Para obter informações mais completas sobre o Git, acesse o link da documentação:

https://git-scm.com/doc





## BONUS: ARQUIVO GITIGNORE

```
Arquivo Editar Ver Pesquisar Terminal Ajuda
[david@localhost teste-clone]$ ls -la
total 20
drwxrwxr-x. 3 david david 4096 Set 8 00:56
drwx-----. 31 david david 4096 Set 8 01:03 ...
drwxrwxr-x. 8 david david 4096 Set 7 21:27 git
-rw-rw-r--. 1 david david 249 Set 8 00:56 gitignore
-rw-rw-r--. 1 david david 67 Set 7 21.27 README.md
[david@localhost teste-clone]$
```

```
Documentação: <a href="http://goo.gl/p8oujJ">http://goo.gl/p8oujJ</a>
```

```
Arquivo Editar Ver Pesquisar Terminal
# Compiled Object files
 .slo
 .lo
 .0
*.obj
 Precompiled Headers
 .gch
*.pch
# Compiled Dynamic libraries
*.50
*.dylib
*.dll
# Fortran module files
 . mod
*.smod
```





### BONUS: MERGE CONFLICTS

Ferramentas auxiliares para resolução de conflitos:

• Smartgit: <a href="http://goo.gl/PJb1Hr">http://goo.gl/PJb1Hr</a>

Atom: <a href="http://goo.gl/10jHAz">http://goo.gl/10jHAz</a>





#### BONUS: PLUGINS P/ SUBLIME TEXT 3

```
https://packagecontrol.io/
  PackageControl:
                       http://goo.gl/RlUujn
  DocBlockr:
• C++11:
                       http://goo.gl/2ofikx
  C++ Snippet:
                       http://goo.gl/31oKMf
 C++ Builder:
                       http://goo.gl/sCIeun
                       http://goo.gl/h18NiO
• Git:
• SublimeCodeIntel:
                       http://goo.gl/2QLIwe
• SublimeLinter:
                       http://goo.gl/FQCOSR
 Alignment:
                       http://goo.gl/2P0h6k
  BracketHighlighter:
                       http://goo.gl/d960uv
  Terminal:
                       http://goo.gl/AVXxNw
```





#### OBRIGADO!

#### David Cardoso Gomes da Silva

```
Github: <a href="https://github.com/davidcardoso-ti">https://github.com/davidcardoso-ti</a>
```

Gitlab: <a href="http://projetos.imd.ufrn.br/u/davidcardoso-ti">http://projetos.imd.ufrn.br/u/davidcardoso-ti</a>

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Skype: davidcardoso.ti

Twitter: davidcardosoti

Link desta apresentação:

https://goo.gl/0wUl0r



