

INTRODUÇÃO A GIT E GITHUB

GIT E GITHUB PARA CONTRIBUIÇÃO PARA PROJETOS OPEN
SOURCE



git



GitHub

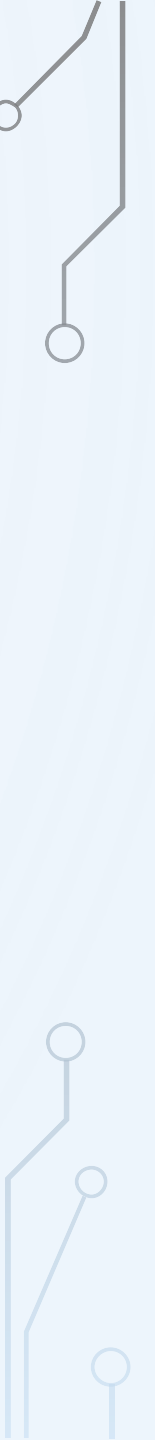

ROTEIRO

- Gerência de Configuração de Software
- Controle de Mudanças
 - Ferramentas de Controle de Mudanças
- Controle de Versão
 - Ferramentas de Versionamento
- Introdução ao Git
 - Comandos Básicos
- Ferramentas gráficas
- Github
- Ramificação (Branch)
- Histórico e conflitos
- Github Pages



GERÊNCIA DE CONFIGURAÇÃO DE SOFTWARE

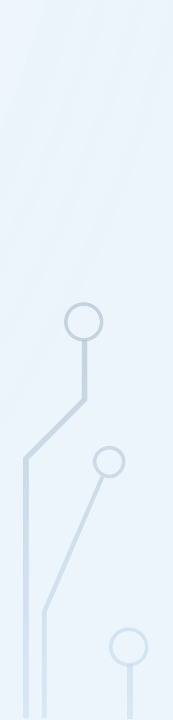

O Gerenciamento de Configuração é o controle da evolução das configurações durante o ciclo de vida do projeto. Identificando, organizando e controlando as modificações do sistema enquanto este está sendo construído.





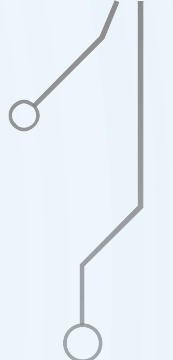

GERÊNCIA DE CONFIGURAÇÃO DE SOFTWARE

“Conjunto de atividades projetadas para controlar as mudanças pela identificação dos produtos do trabalho que serão alterados, estabelecendo um relacionamento entre eles, definindo o mecanismo para o gerenciamento de diferentes versões destes produtos, controlando as mudanças impostas, e auditando e relatando as mudanças realizadas.” (PRESSMAN, 2006, p. 599).


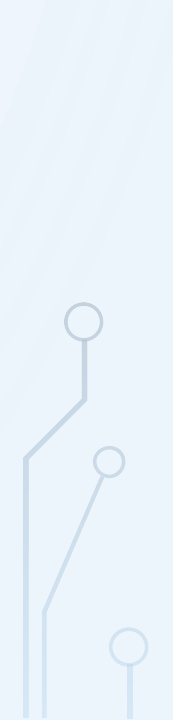


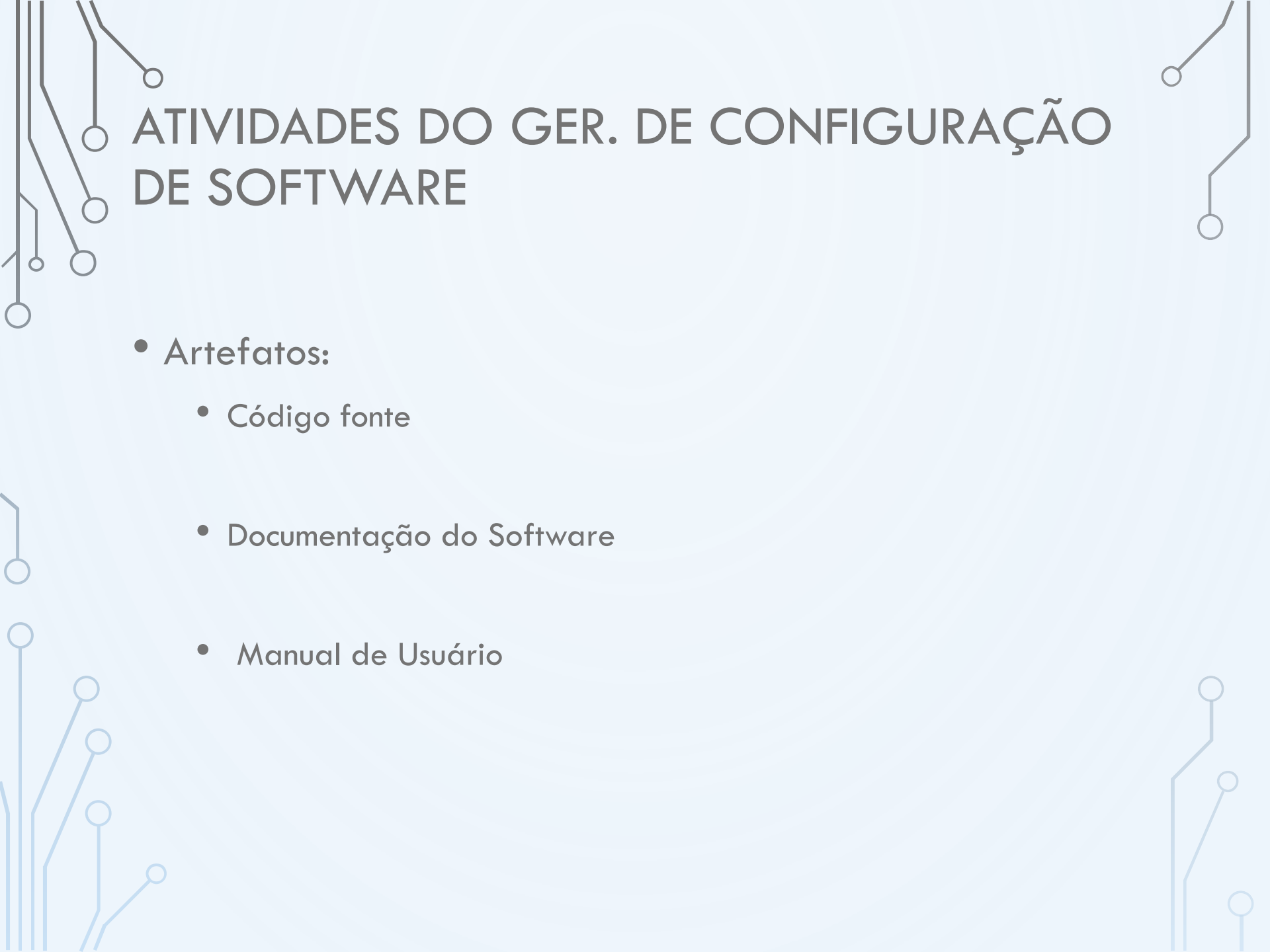
GERÊNCIA DE CONFIGURAÇÃO DE SOFTWARE

- Acompanhar a evolução do software
- Gerenciamento de Mudanças
 - Modificações == perda do controle
- Gerência de Configuração de Software:
 - - **MENOS** retrabalho e erros
 - Redução de Custos
 - - **MAIS** produtividade e eficiência
 - Rapidez na identificação e correção de problemas



ATIVIDADES DO GER. DE CONFIGURAÇÃO DE SOFTWARE

- Gerenciamento de Mudanças
 - Gerenciamento de Versões
 - Construção de Sistemas
 - Gerenciamento de Releases
- 
- 

The slide features a light blue background with a subtle pattern of concentric circles. Overlaid on this are stylized circuit traces in dark grey and light blue. These traces, consisting of lines and small circles at junctions, are positioned along the top, bottom, and side edges of the slide, framing the central content.

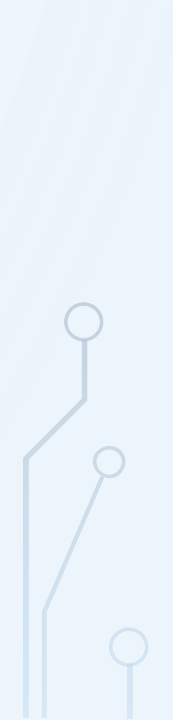

ATIVIDADES DO GER. DE CONFIGURAÇÃO DE SOFTWARE

- **Artefatos:**
 - Código fonte
 - Documentação do Software
 - Manual de Usuário



GERENCIAMENTO DE MUDANÇAS

Envolve manter o acompanhamento das solicitações dos clientes e desenvolvedores por mudanças no software, definir custos e o impactos de fazer tais mudanças, bem como decidir se e quando as mudanças devem ser implementadas.



GERENCIAMENTO DE MUDANÇAS

- Ferramentas

- BitBucket


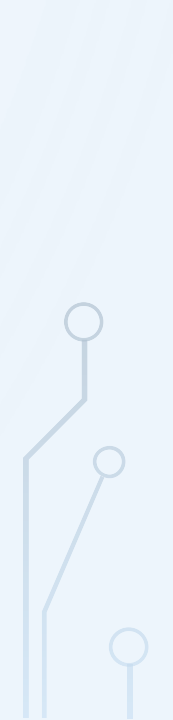
- Bugzilla

- GitHub

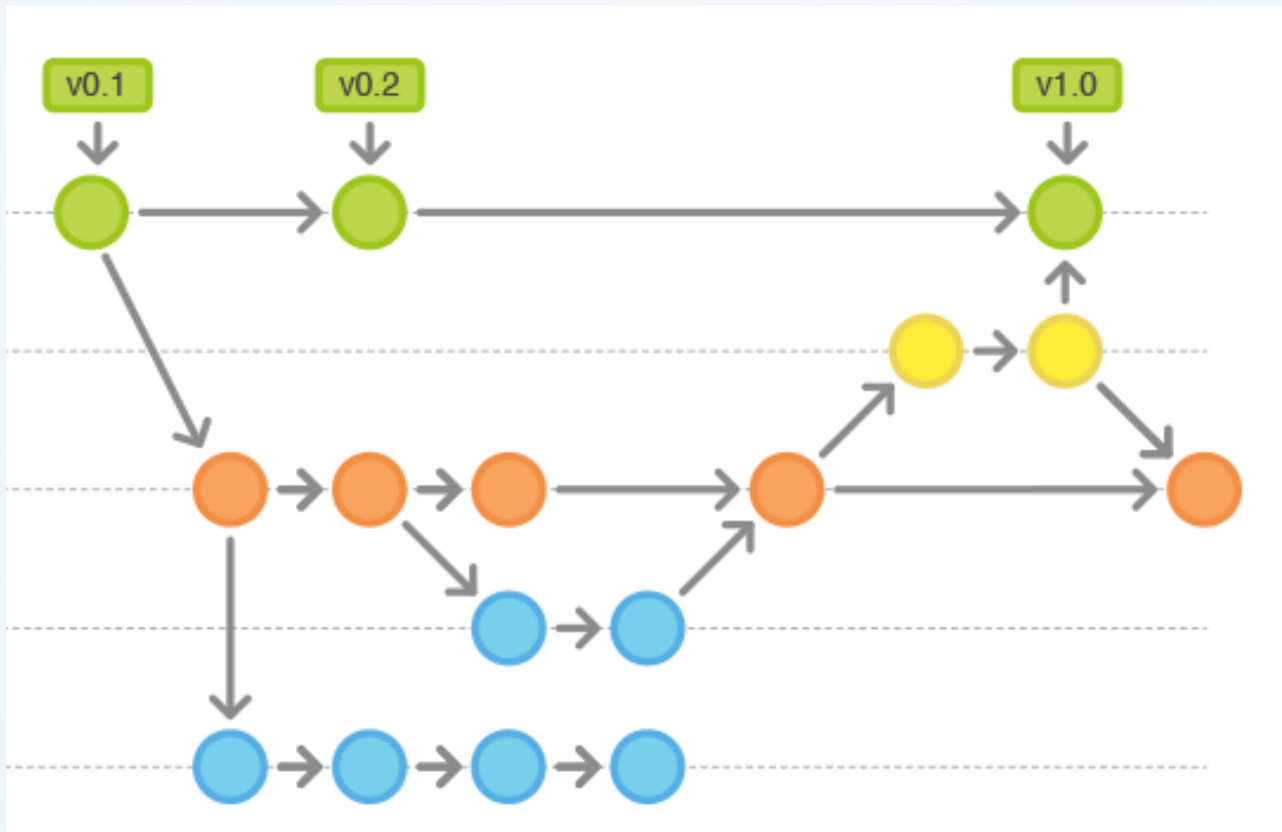
- Jira



GERENCIAMENTO DE VERSÕES


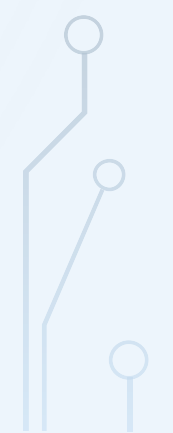
- **Arquitetura distribuída (colaborativo)**
 - Git
 - Mercurial
 - Repositório local (operações no repositório local e sincronização com remoto)
- 
- 

GERENCIAMENTO DE VERSÃO




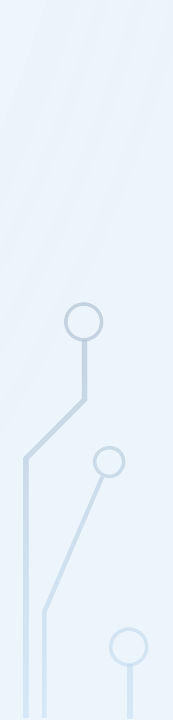


CONTROLE DE VERSÃO

- Git
 - Github
- 
- 



CONTROLE DE VERSÃO

- Subversion (SVN)
 - Mercurial
 - CVS Concurrent Versioning System
 - Bazaar
 - Git
- 
- 

CONTROLE DE VERSÃO

Servidores/suporte	Git	Mercurial	SVN
Github	X		
Bitbucket	X	X	
SourceForge	X	X	X
Google Code	X	X	X



TERMOS TÉCNICOS

- Repositório
 - Commit
 - Branch
 - Merge
 - Fork
 - Push
 - Pull e Fetch
- 
- 



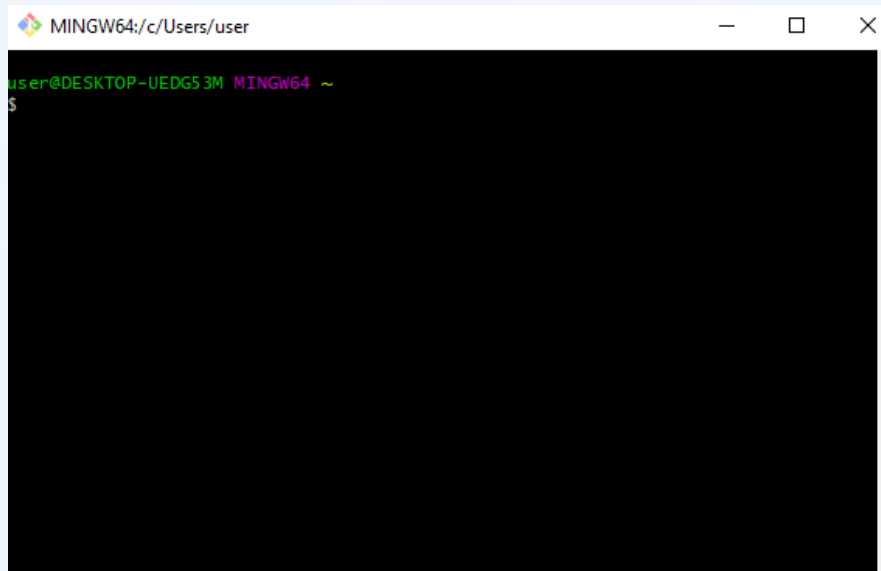
CONFIGURAÇÃO GIT



<https://git-scm.com/downloads>

CONFIGURAÇÃO GIT

- Git Bash





CONFIGURAÇÃO GIT

Configure usuário e e-mail

```
git config global user.name
```

“Meu Nome”

```
git config global user.email
```

```
meuemail@email.com
```



CONFIGURAÇÃO GIT

- `git config --list`

- Editor

```
git config --global core.editor "'c:/program files/sublime  
text 3/subl.exe' -w"
```

```
alias 'subl="C:/Program Files/Sublime Text  
3/sublime_text.exe"
```

CONFIGURAÇÃO GIT

- cd abrir pastas
- Criar pastas

```
MINGW64:/c/Users/user/Documents/dev/minicurso
DADOS          Livro          py
Database1.acdb lucidcode       Python
Database2.acdb MATLAB          Python\ Scripts
Dataset         Meditation_Journal
Dataset_Lifes   Mestrado        teste
desktop.ini     Minhas\ paletas venv
dev             Modelos\ Personalizados\ do\ Office Visual\ Studio\ 2017

user@DESKTOP-UEDG53M MINGW64 ~/Documents
$ cd dev

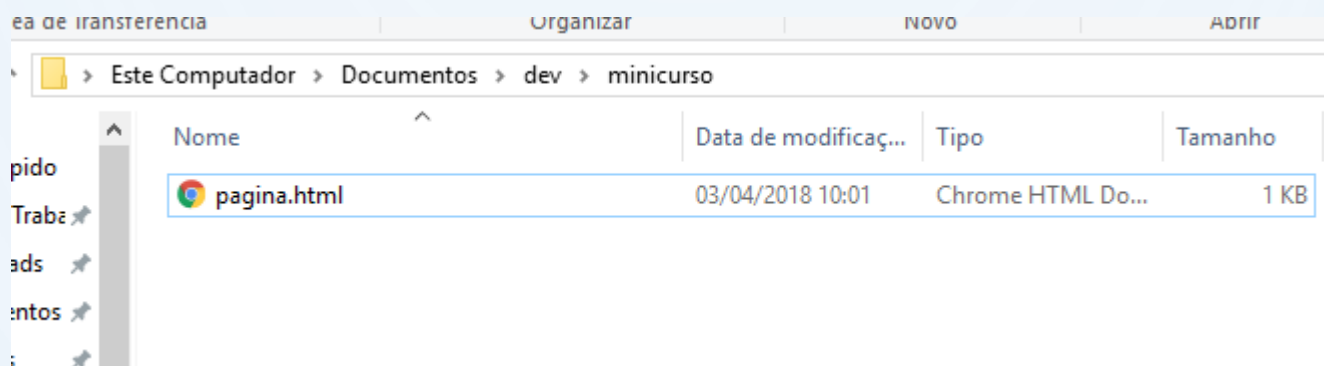
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev
$ dir
Agenda  exemplo  Matlab      Nova\ pasta\ (2)  script      SVM_IRIS  teste2
Emoweb  facs      Nova\ pasta  py               SistemaCores  teste    uiflex

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev
$ cd minicurso

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso
$ dir

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso
$
```

ARQUIVO



ARQUIVO

```
<!DOCTYPE html>
```

```
<html lang="pt-br">
```

```
  <head>
```

```
    <meta charset="utf-8">
```

```
    <meta name="description" content="Página explicando o que é o HEAD">
```

```
    <title>Documento sobre o HEAD de um arquivo HTML</title>
```

```
  </head>
```

```
</html>
```

INICIANDO VERSIONAMENTO

```
MINGW64:/c/Users/user/Documents/dev/minicurso

Dataset_Lifes      Mestrado      teste
desktop.ini        Minhas\ paletas      venv
dev                Modelos\ Personalizados\ do\ Office Visual\ Studio\ 2017

user@DESKTOP-UEDG53M MINGW64 ~/Documents
$ cd dev

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev
$ dir
Agenda  exemplo  Matlab      Nova\ pasta\ (2)  script      SVM_IRIS  teste2
Emoweb  facs     Nova\ pasta  py               SistemaCores  teste    uiflex

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev
$ cd minicurso

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso
$ dir

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso
$ git init
Initialized empty Git repository in C:/Users/user/Documents/dev/minicurso/.git/

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

STATUS

```
MINGW64:/c/Users/user/Documents/dev/minicurso
$ cd minicurso

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso
$ dir

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso
$ git init
Initialized empty Git repository in C:/Users/user/Documents/dev/minicurso/.git/

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master

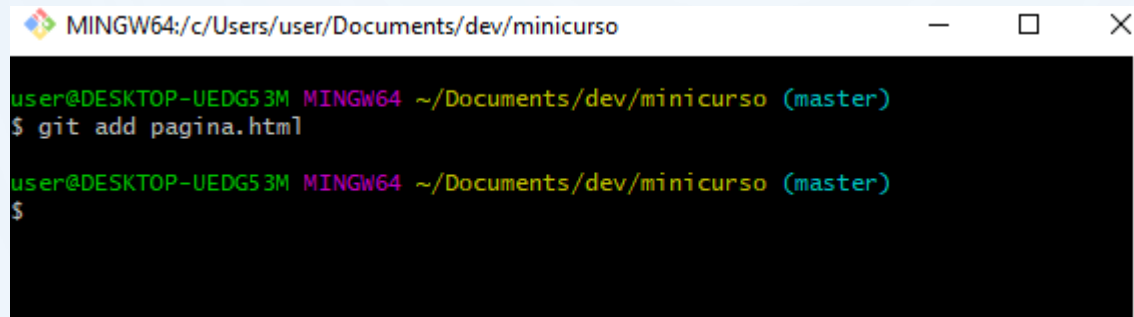
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        pagina.html

nothing added to commit but untracked files present (use "git add" to track)
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```


ADD

A terminal window with a white title bar containing the text 'MINGW64:/c/Users/user/Documents/dev/minicurso' and standard window controls. The terminal has a black background with green text. It shows the prompt 'user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)' followed by the command '\$ git add pagina.html' and a blank line. The prompt is repeated on the next line.

```
MINGW64:/c/Users/user/Documents/dev/minicurso
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git add pagina.html
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

Git add .

GIT STATUS

```
MINGW64:/c/Users/user/Documents/dev/minicurso

user@DESKTOP-UEHG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git add pagina.html

user@DESKTOP-UEHG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   pagina.html

user@DESKTOP-UEHG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

COMMIT

```
MINGW64:/c/Users/user/Documents/dev/minicurso
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git add pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master

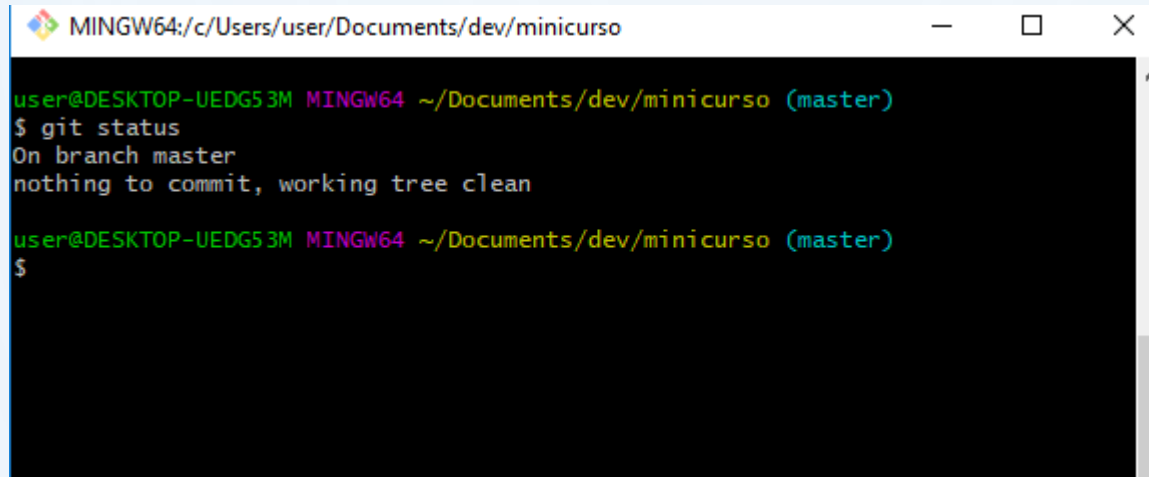
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git commit -m "adicionando pagina"
[master (root-commit) 60614b8] adicionando pagina
 1 file changed, 44 insertions(+)
 create mode 100644 pagina.html
```

STATUS

A screenshot of a Windows terminal window titled "MINGW64:/c/Users/user/Documents/dev/minicurso". The terminal shows the output of the "git status" command, indicating the repository is on the master branch and the working tree is clean. The prompt is a green dollar sign, and the output is in white text on a black background.

```
MINGW64:/c/Users/user/Documents/dev/minicurso
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
nothing to commit, working tree clean

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

LOG

```
MINGW64:/c:/Users/user/Documents/dev/minicurso

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
nothing to commit, working tree clean

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git log
commit 60614b8d711bb97fcc6e3facc938894cb83378a1 (HEAD -> master)
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 11:49:08 2018 -0300

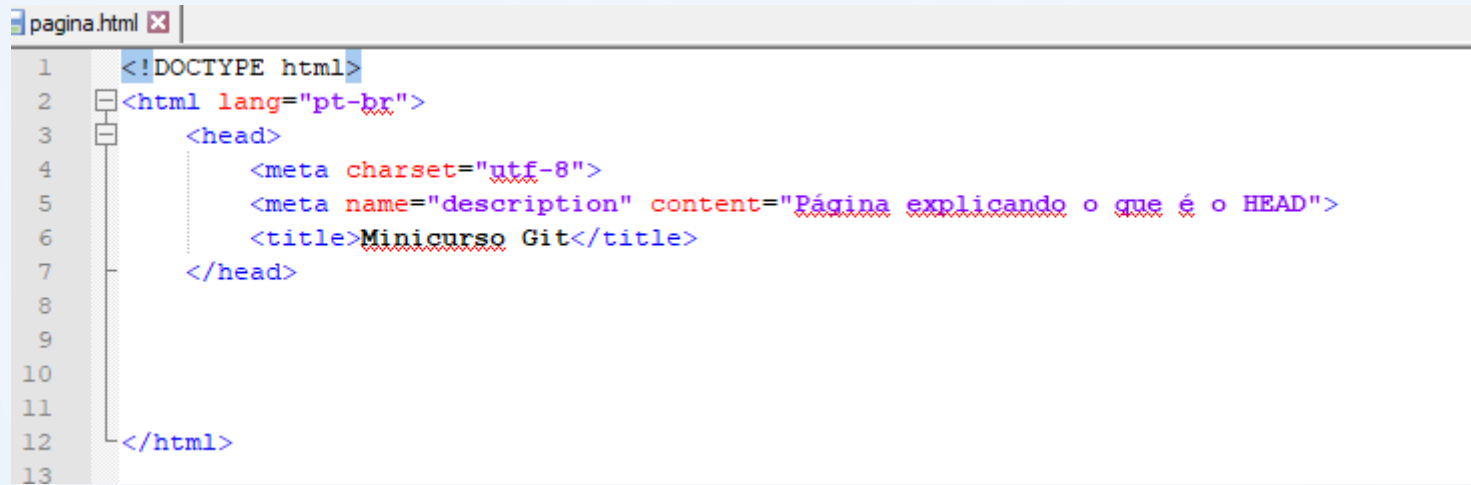
    adicionando pagina

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ |
```

Git shortlog

Git show <>

ALTERAÇÃO



```
1  <!DOCTYPE html>
2  <html lang="pt-br">
3  <head>
4      <meta charset="utf-8">
5      <meta name="description" content="Página explicando o que é o HEAD">
6      <title>Minicurso Git</title>
7  </head>
8
9
10
11
12 </html>
13
```

ALTERAÇÃO

```
user@DESKTOP-UEHG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   pagina.html

no changes added to commit (use "git add" and/or "git commit -a")
user@DESKTOP-UEHG53M MINGW64 ~/Documents/dev/minicurso (master)
```

ADD E COMMIT

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   pagina.html

no changes added to commit (use "git add" and/or "git commit -a")

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git add .

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git commit -m "Minicurso git"
[master ce0854d] Minicurso git
1 file changed, 1 insertion(+), 4 deletions(-)

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
```


LOG

```
MINGW64:/c/Users/user/Documents/dev/minicurso

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
nothing to commit, working tree clean

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git log
commit ce0854df709c44ebc452939774454a03d3557e61 (HEAD -> master)
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 13:25:46 2018 -0300

    Minicurso git

commit 60614b8d711bb97fcc6e3facc938894cb83378a1
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 11:49:08 2018 -0300

    adicionando pagina

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

ALTERAÇÃO

pagina.html

```
<!DOCTYPE html>
<html lang="pt-br">
  <head>
    <meta charset="utf-8">
    <meta name="description" content="Página explicando o que é o HEAD">
    <title>Minicurso Git e Github</title>
  </head>

</html>
```

DIFF

```
MINGW64:/c/Users/user/Documents/dev/minicurso

adicionando pagina

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ subl pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git diff
diff --git a/pagina.html b/pagina.html
index 3f43c70..9bc5f38 100644
--- a/pagina.html
+++ b/pagina.html
@@ -3,7 +3,7 @@
<head>
  <meta charset="utf-8">
  <meta name="description" content="Página explicando o que é o HEAD">
-  <title>Minicurso Git</title>
+  <title>Minicurso Git e Github</title>
</head>

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

DESFAZER

```
pagina.html x
1 <!DOCTYPE html>
2 <html lang="pt-br">
3   <head>
4     <meta charset="utf-8">
5     <meta name="description" content="Página explicando o que é o HEAD">
6     <title>Minicurso Git e Github</title>
7     gfdgfdgfd
8   </head>
9
10
11 </html>
```

```
MINGW64:/c/Users/user/Documents/dev/minicurso
Minicurso git

commit 60614b8d711bb97fcc6e3facc938894cb83378a1
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 11:49:08 2018 -0300

    adicionando pagina

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ subl pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   pagina.html

no changes added to commit (use "git add" and/or "git commit -a")

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

DESFAZER

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git diff
diff --git a/pagina.html b/pagina.html
index 9bc5f38..6aa79ca 100644
--- a/pagina.html
+++ b/pagina.html
@@ -4,6 +4,7 @@
     <meta charset="utf-8">
     <meta name="description" content="Página explicando o que é o HEAD">
     <title>Minicurso Git e Github</title>
+    gfdgfdgfd
+  </head>
```

DESFAZER ANTES ADD

- Git checkout <nome arquivo>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git checkout pagina.html
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ |
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git checkout pagina.html
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git diff
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

```
pagina.html x
<!DOCTYPE html>
<html lang="pt-br">
  <head>
    <meta charset="utf-8">
    <meta name="description" content="Página explicando o que é o HEAD">
    <title>Minicurso Git e Github</title>
  </head>
</html>
```

DESFAZER DEPOIS ADD

```
pagina.html x
1 <!DOCTYPE html>
2 <html lang="pt-br">
3   <head>
4     <meta charset="utf-8">
5     <meta name="description" content="Página explicando o que é o HEAD">
6     <title>Minicurso Git e Github</title>
7     ghgfhfghf
8   </head>
9
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git add .

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git diff

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

DESFAZER DEPOIS ADD

Git reset Head <arquivo>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git reset HEAD pagina.html
Unstaged changes after reset:
M      pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```


DESFAZER DEPOIS ADD

Git reset Head <arquivo>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git reset HEAD pagina.html
Unstaged changes after reset:
M   pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git diff
diff --git a/pagina.html b/pagina.html
index 9bc5f38..1b6da64 100644
--- a/pagina.html
+++ b/pagina.html
@@ -4,6 +4,7 @@
     <meta charset="utf-8">
     <meta name="description" content="Página explicando o que é o HEAD">
     <title>Minicurso Git e Github</title>
+    ghgfhfghf
   </head>

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```



O QUE ACONTECE?

Git checkout <nome do arquivo>



DESFAZER DEPOIS DO COMMIT

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ subl pagina.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   pagina.html

no changes added to commit (use "git add" and/or "git commit -a")

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git commit -am "qualquer coisa"
[master a9b654a] qualquer coisa
1 file changed, 1 insertion(+)

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

DESFAZER DEPOIS DO COMMIT

```
MINGW64:/c/Users/user/Documents/dev/minicurso

user@DESKTOP-UEG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git log
commit a9b654af8e07446edec7b20a27c0e9d4deae33a5 (HEAD -> master)
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 14:35:29 2018 -0300

    qualquer coisa

commit a14678793f80878b9f0acf8318ef348c3c34bca3
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 13:48:13 2018 -0300

    alteração title

commit ce0854df709c44ebc452939774454a03d3557e61
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 13:25:46 2018 -0300

    Minicurso git

commit 60614b8d711bb97fcc6e3facc938894cb83378a1
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 11:49:08 2018 -0300
```

DESFAZER DEPOIS DO COMMIT

- --Soft – Retorna para rastreamento
- --mixed – Retorna antes do rastreamento
- --hard – volta para commit anterior
- Um commit antes
- Altera histórico do commit

DESFAZER DEPOIS DO COMMIT

- Git reset --hard <commit>

```
MINGW64:/c/Users/user/Documents/dev/minicurso
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git reset --hard a14678793f80878b9f0acf8318ef348c3c34bca3
HEAD is now at a146787 alteração title

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git log
commit a14678793f80878b9f0acf8318ef348c3c34bca3 (HEAD -> master)
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 13:48:13 2018 -0300

    alteração title

commit ce0854df709c44ebc452939774454a03d3557e61
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 13:25:46 2018 -0300


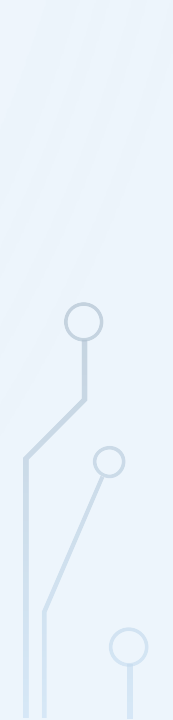
    Minicurso git

commit 60614b8d711bb97fcc6e3facc938894cb83378a1
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 11:49:08 2018 -0300

    adicionando pagina
```



RAMIFICAÇÃO (BRANCH)

- Poder modificar sem alterar o local principal (master)
 - Múltiplas pessoas trabalhando
- 
- 

RAMIFICAÇÃO (BRANCH)

- Criar ramificação
- Git checkout -b <nome>
- Git branch

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git checkout -b teste
Switched to a new branch 'teste'
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git branch
  master
* teste
```


RAMIFICAÇÃO (BRANCH)

- Navegar entre ramos
- Git checkout <nome>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git branch
  master
* teste

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git checkout master
Switched to branch 'master'

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

RAMIFICAÇÃO (BRANCH)

- Apagar ramificação
- `Git branch -D <nome>`

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git checkout master
Switched to branch 'master'

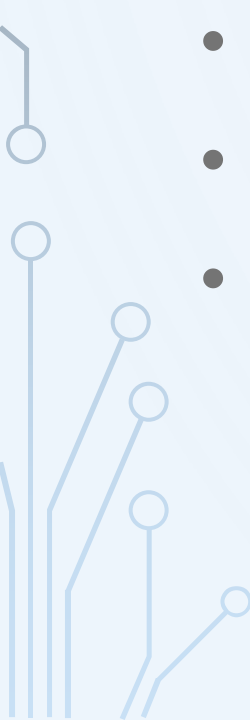
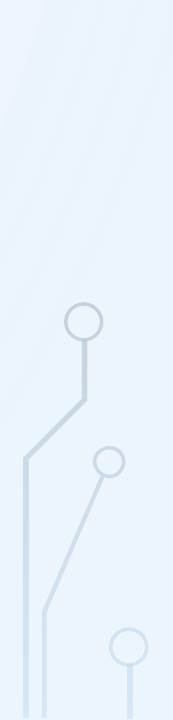
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git branch -D teste
Deleted branch teste (was a146787).

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git branch
* master

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```


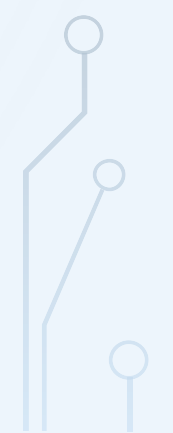


MERGE ENTRE BRANCHES

- Unir branches
 - Rebase
 - Evita comitê extra
 - Histórico linear
 - Perde a ordem cronológica
- 
- 



MERGE ENTRE BRANCHES

- Unir branches
 - Merge
 - Cria commit extra
- 
- 

MERGE ENTRE BRANCHES

- Rebase

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git checkout teste
Switched to branch 'teste'

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ subl pagina5.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git add .

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git commit -m "pagina4"
[teste acf7197] pagina4
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 pagina5.html

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$
```

MERGE ENTRE BRANCHES

- Rebase

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git log
commit b699253f6f232460400eafaa94c06ac20e0fbf32 (HEAD -> master)
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 17:43:06 2018 -0300

    pagina4

commit 44711664bec04daad9b00a0265a3bbe432a58236
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 17:31:17 2018 -0300
```

MERGE ENTRE BRANCHES

- Rebase
- Git rebase <teste>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git rebase teste
First, rewinding head to replay your work on top of it...
Fast-forwarded master to teste.
```



MERGE ENTRE BRANCHES

- Rebase
 - `Git rebase <teste>`
- 
- 

MERGE

MINGW64:/c/Users/user/Documents/dev/minicurso

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ subl pagina2
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git add .
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git commit -m "pagina2"
[teste 42655cf] pagina2
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 pagina2
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ subl pagina3
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git add .
```

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git commit -m "pagina3"
[teste 4471166] pagina3
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 pagina3
```

MERGE

Git merge teste

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git checkout master
Switched to branch 'master'

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git merge teste
Updating a146787..4471166
Fast-forward
 pagina2 | 0
 pagina3 | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 pagina2
 create mode 100644 pagina3

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

MERGE

Git merge <teste>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (teste)
$ git checkout master
Switched to branch 'master'

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git merge teste
Updating a146787..4471166
Fast-forward
 pagina2 | 0
 pagina3 | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 pagina2
 create mode 100644 pagina3

user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$
```

MERGE

Git merge <teste>

```
user@DESKTOP-UEDG53M MINGW64 ~/Documents/dev/minicurso (master)
$ git log
commit b699253f6f232460400eafaa94c06ac20e0fbf32 (HEAD -> master, teste)
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 17:43:06 2018 -0300

    pagina4

commit 44711664bec04daad9b00a0265a3bbe432a58236
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 17:31:17 2018 -0300

    pagina3

commit 42655cf997e9917666ba06cc84c96bc231b5038f
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 17:29:02 2018 -0300

    pagina2

commit a14678793f80878b9f0acf8318ef348c3c34bca3
Author: Isaque Elcio <isaqueelcio@hotmail.com>
Date: Tue Apr 3 13:48:13 2018 -0300
```



GIT HUB

