

**UNIVERSIDADE FEDERAL DE MATO GROSSO
CAMPUS UNIVERSITÁRIO DE RONDONÓPOLIS – CUR
INSTITUTO DE CIÊNCIAS EXATAS E NATURAIS – ICEN
SISTEMAS DA INFORMAÇÃO**





ALEXANDRE THEBALDI

CONTROLE DE VERSÃO

**RONDONÓPOLIS
2016**

Como muitas pessoas controlam suas versões?

Cópias dos arquivos em outros diretórios.

Nome	^	Data de modificaç...	Tipo	Tamanho
 project - v1		02/08/2016 04:01	Pasta de arquivos	
 project - v2		02/08/2016 04:01	Pasta de arquivos	
 project - v3		02/08/2016 04:01	Pasta de arquivos	
 project - v4		02/08/2016 04:01	Pasta de arquivos	

Sistemas para Controle de Versão

“Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later.”

Git, About Version Control.

Sistemas de Controle de Versão Local

Local Computer

Checkout

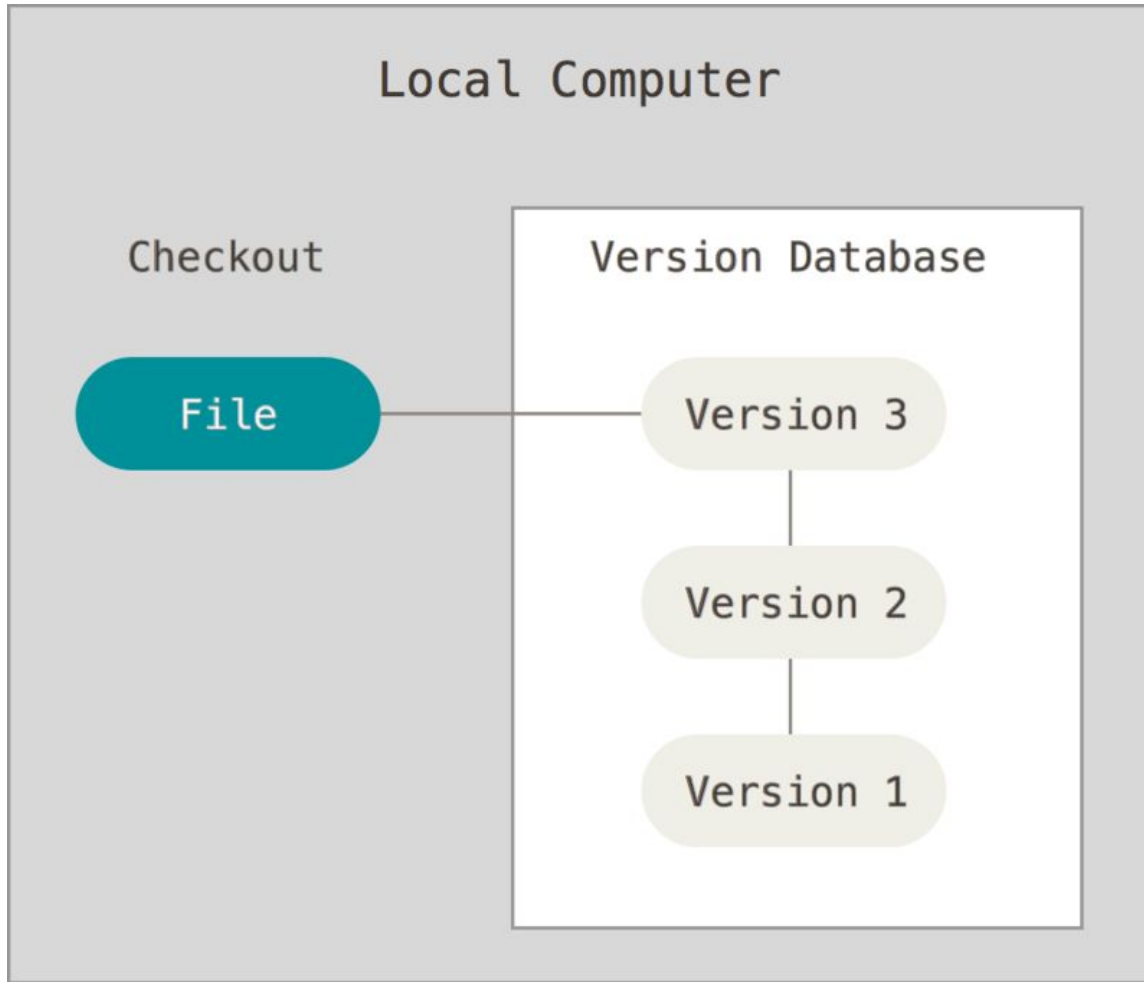
File

Version Database

Version 3

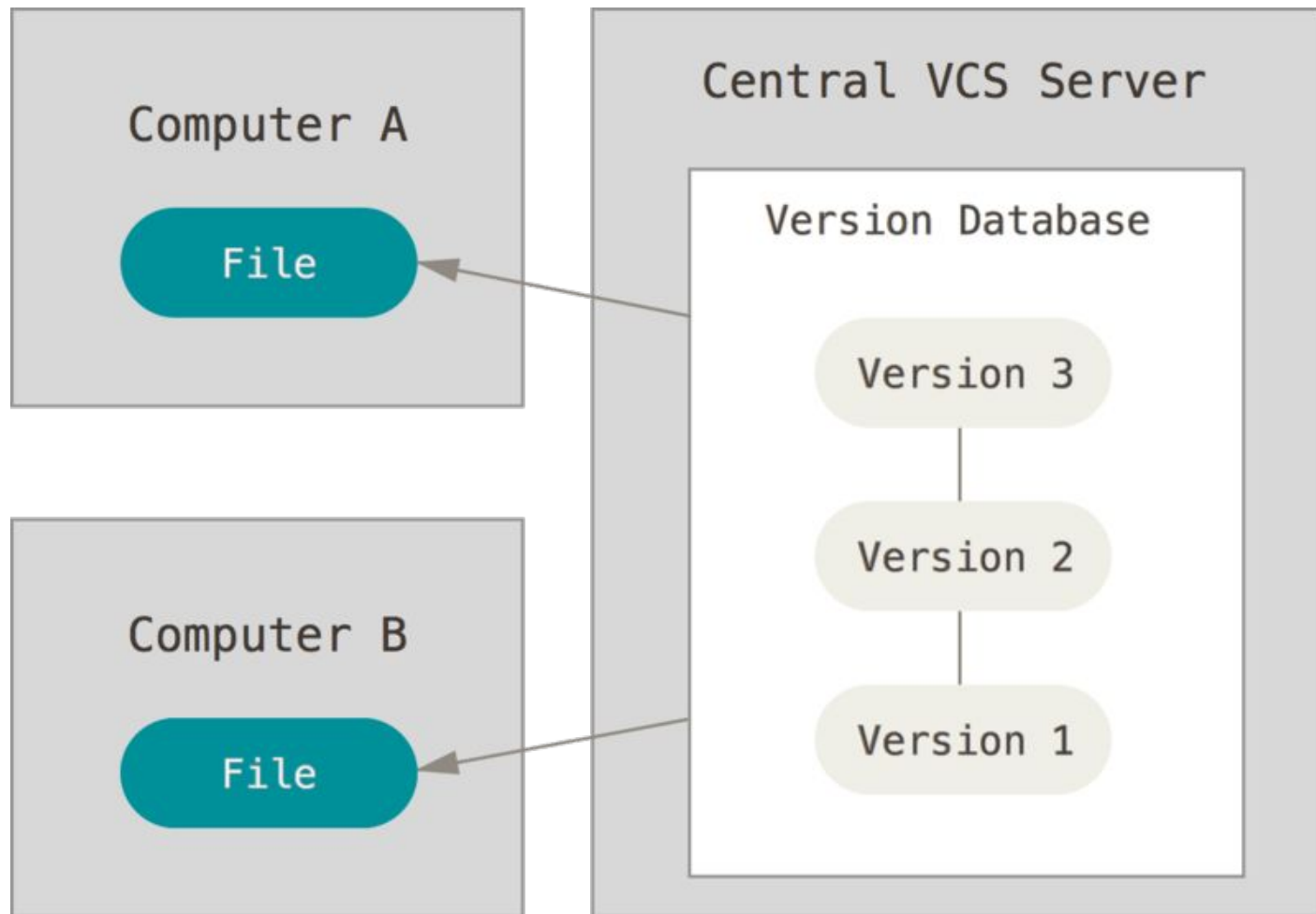
Version 2

Version 1



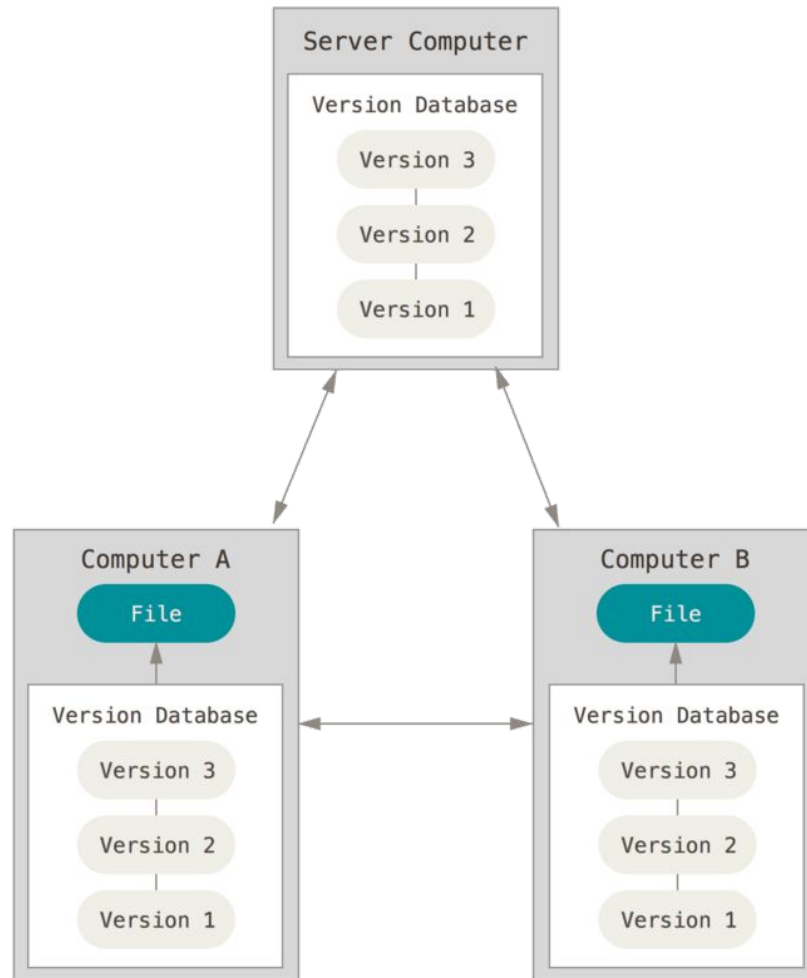
Ferramentas de CVS Local: *Revision Control System (RCS)*

Sistemas de Controle de Versão Centralizado



Ferramentas de CVS Centralizado: *Subversion (TortoiseSVN)* e *Perforce*.

Sistemas de Controle de Versão Distribuído



Ferramentas de CVS Distribuído: Git, *Mercurial*, *Bazaar* e *Darcs*.

Introdução ao Git



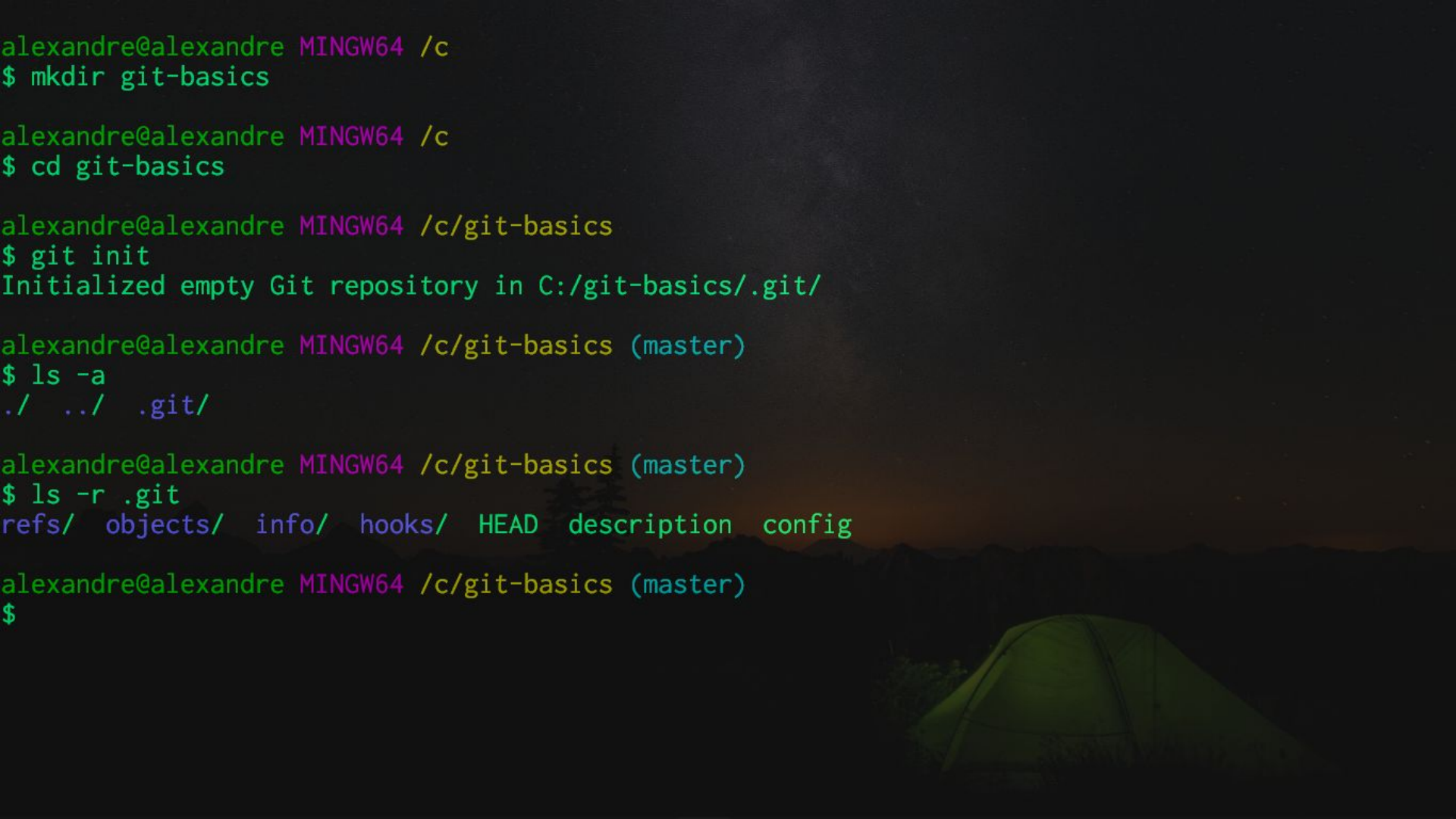
“Git is a version control system that is used for software development and other version control tasks. As a distributed revision control system it is aimed at speed, data integrity, and support for distributed, non-linear workflows. Git was created by Linus Torvalds in 2005 for development of the Linux kernel, with other kernel developers contributing to its initial development.”

Wikipedia, Git (Software).

1. Iniciando um repositório *Git*

1.1. Iniciar um repositório em um diretório existente

```
$ git init
```

A terminal window with a dark background featuring a faint image of a tent and mountains. The terminal text is as follows:

```
alexandre@alexandre MINGW64 /c
$ mkdir git-basics
```

```
alexandre@alexandre MINGW64 /c
$ cd git-basics
```

```
alexandre@alexandre MINGW64 /c/git-basics
$ git init
Initialized empty Git repository in C:/git-basics/.git/
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ ls -a
./ ../ .git/
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ ls -r .git
refs/  objects/  info/  hooks/  HEAD  description  config
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

1.2. Clonar um repositório existente

```
$ git clone [url]
```



This repository Search

Pull requests Issues Gist



ahlechandre / git-basics

Unwatch 1

Star 0

Fork 0

Code

Issues 0

Pull requests 0

Wiki

Pulse

Graphs

Settings

No description or website provided. — Edit

1 commit

1 branch

0 releases

1 contributor

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download



ahlechandre Initial commit

Latest commit 5fcbdd3 14 minutes ago

LICENSE

Initial commit

14 minutes ago

README.md

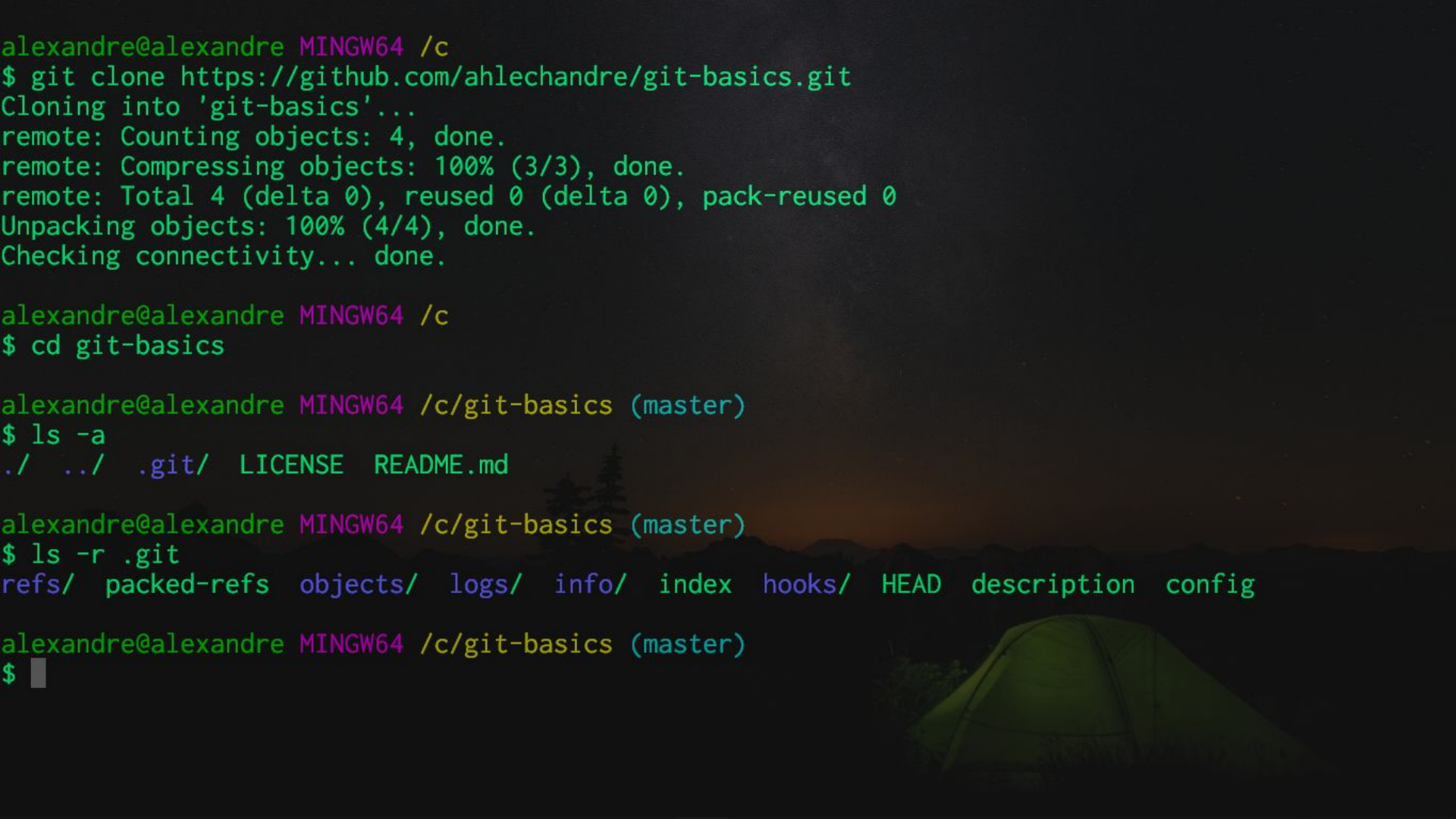
Initial commit

14 minutes ago

README.md

git-basics



The background of the terminal window is a dark, scenic image of a night landscape. It features a dark blue and black sky with some light clouds, a dark green tent pitched on the right side, and silhouettes of trees and mountains in the distance. The terminal text is displayed in a light green monospace font.

```
alexandre@alexandre MINGW64 /c
$ git clone https://github.com/ahlechandre/git-basics.git
Cloning into 'git-basics'...
remote: Counting objects: 4, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
Checking connectivity... done.
```

```
alexandre@alexandre MINGW64 /c
$ cd git-basics
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ ls -a
./ ../ .git/ LICENSE README.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ ls -r .git
refs/ packed-refs objects/ logs/ info/ index hooks/ HEAD description config
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

2. Gravando modificações no repositório

Untracked vs. Tracked

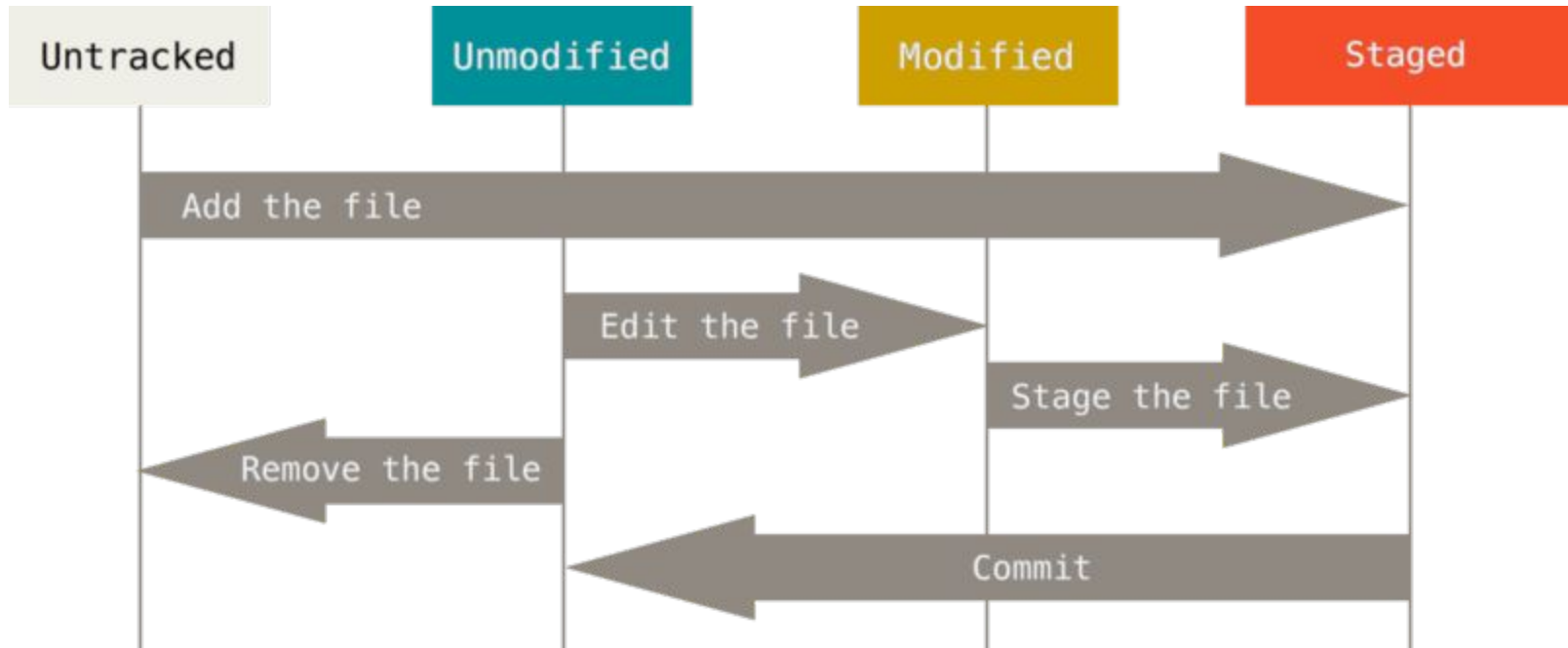
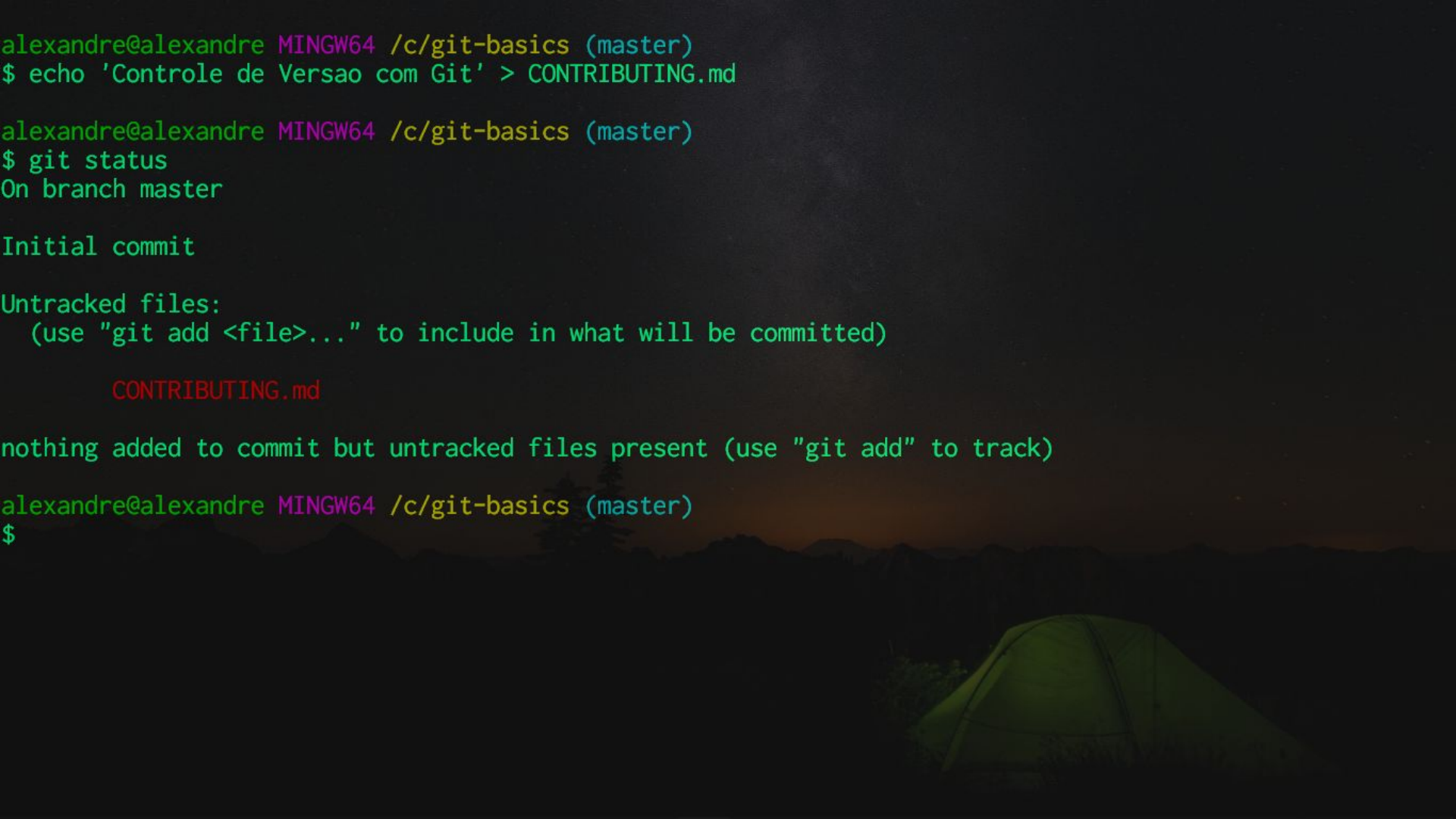


Figura 1. *The lifecycle of the status of your files.*

2.1. Verificar o *status* dos arquivos

```
$ git status
```

A terminal window with a dark background featuring a faint image of a tent and mountains. The terminal text is as follows:

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git' > CONTRIBUTING.md

alexandre@alexandre MINGW64 /c/git-basics (master)
$ git status
On branch master

Initial commit

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

        CONTRIBUTING.md

nothing added to commit but untracked files present (use "git add" to track)

alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

alexandre@alexandre MINGW64 /c/git-basics (master)
\$ echo 'Controle de Versao com Git' > CONTRIBUTING.md

alexandre@alexandre MINGW64 /c/git-basics (master)
\$ git status
On branch master

Initial commit

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

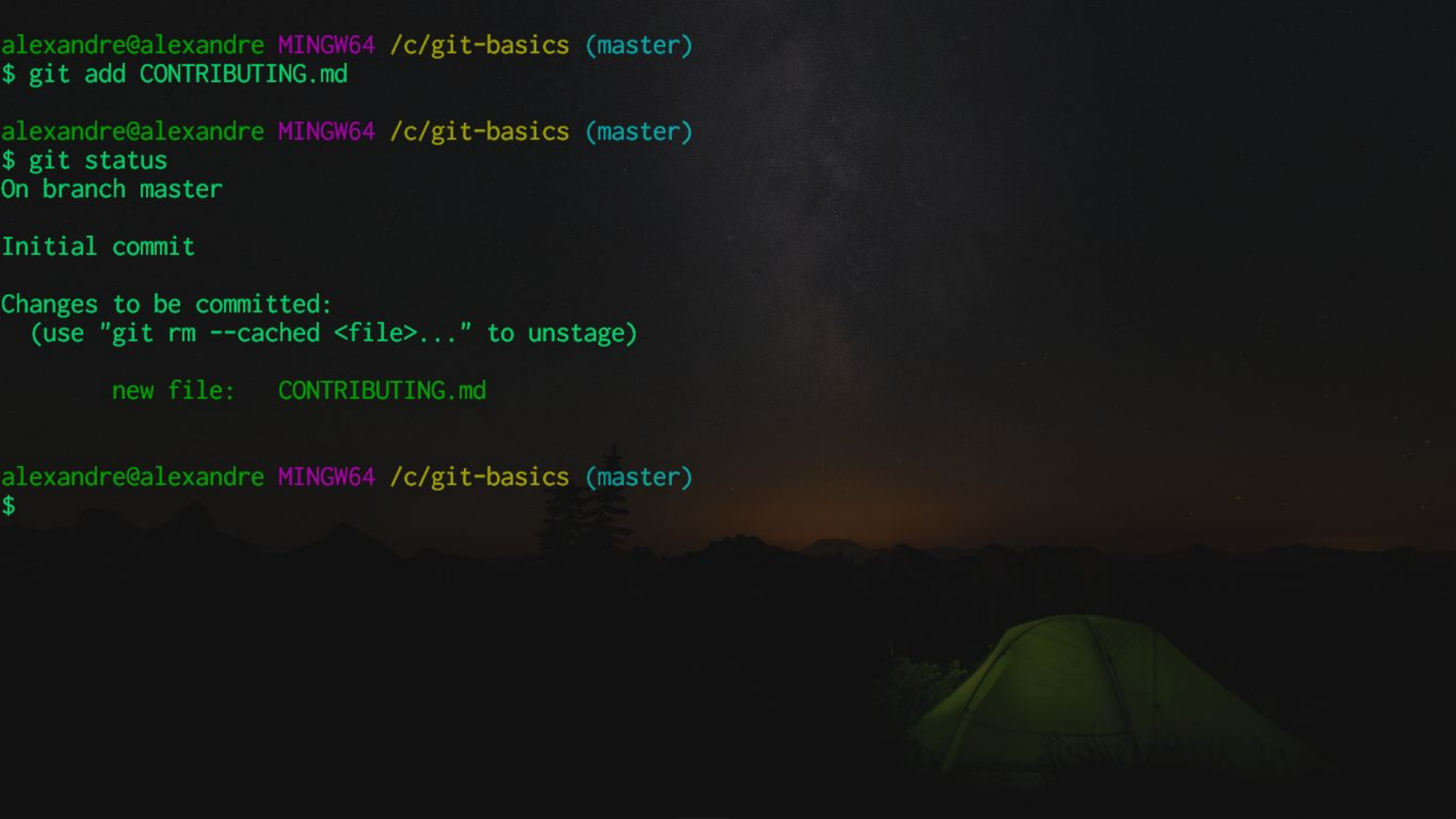
CONTRIBUTING.md

nothing added to commit but untracked files present (use "git add" to track)

alexandre@alexandre MINGW64 /c/git-basics (master)
\$

2.2. *Tracking* (rastreamento) novos arquivos

```
$ git add <file>
```

The background of the terminal window is a dark, atmospheric night landscape. It features a range of dark, silhouetted mountains in the distance. In the foreground, a small, light-colored tent is pitched on the right side. A single, dark evergreen tree stands prominently in the middle ground. The sky is a deep, dark blue with a subtle, wispy texture, suggesting a starry night or a clear sky with light pollution. The overall mood is quiet and serene.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git add CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git status
On branch master
```

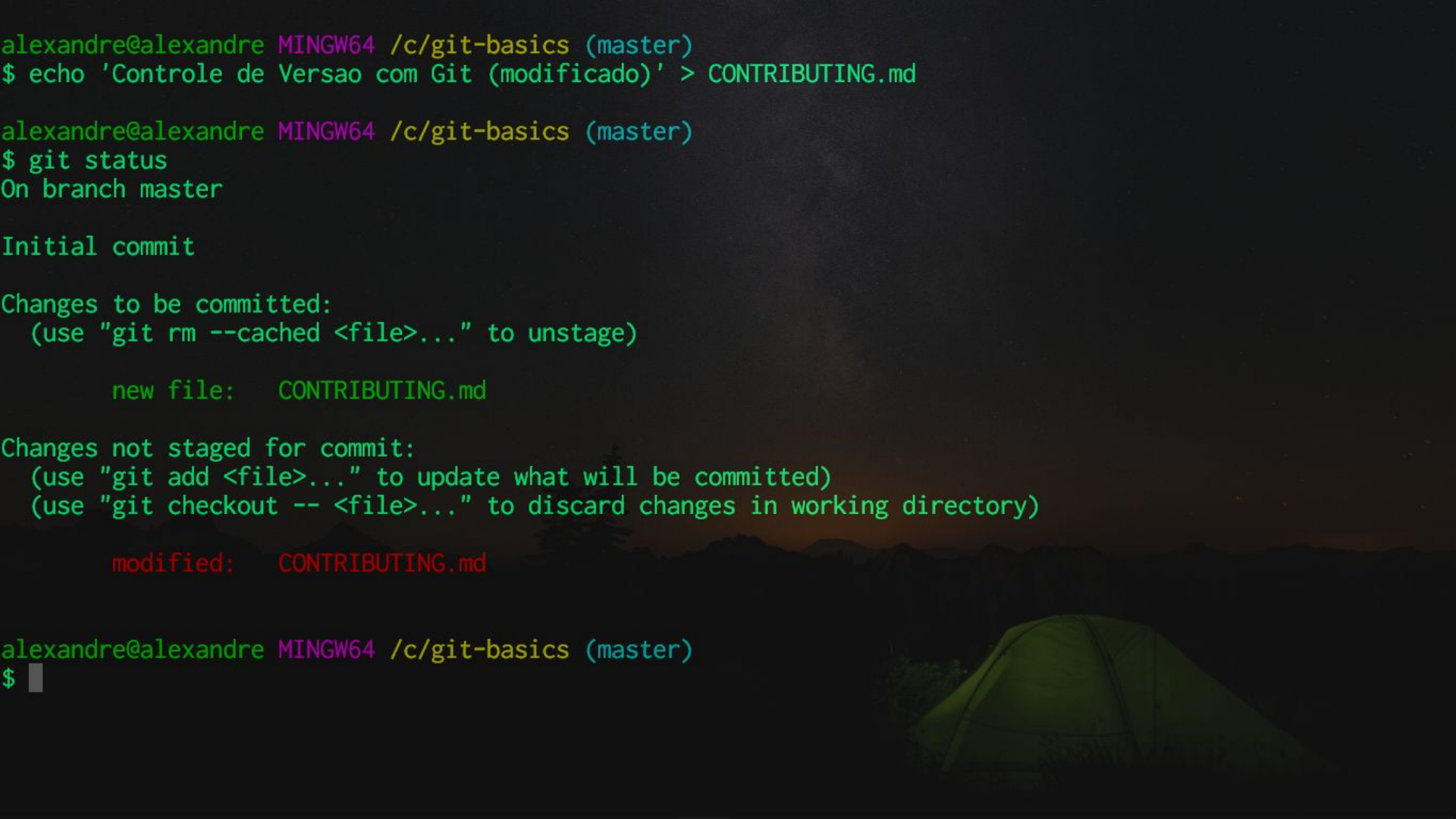
```
Initial commit
```

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

```
    new file:   CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

2.3. Modificar *staged* files

A terminal window with a dark background featuring a faint image of a tent and trees. The terminal text is as follows:

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git (modificado)' > CONTRIBUTING.md
```

alexandre@alexandre MINGW64 /c/git-basics (master)

```
$ git status
On branch master
```

Initial commit

Changes to be committed:

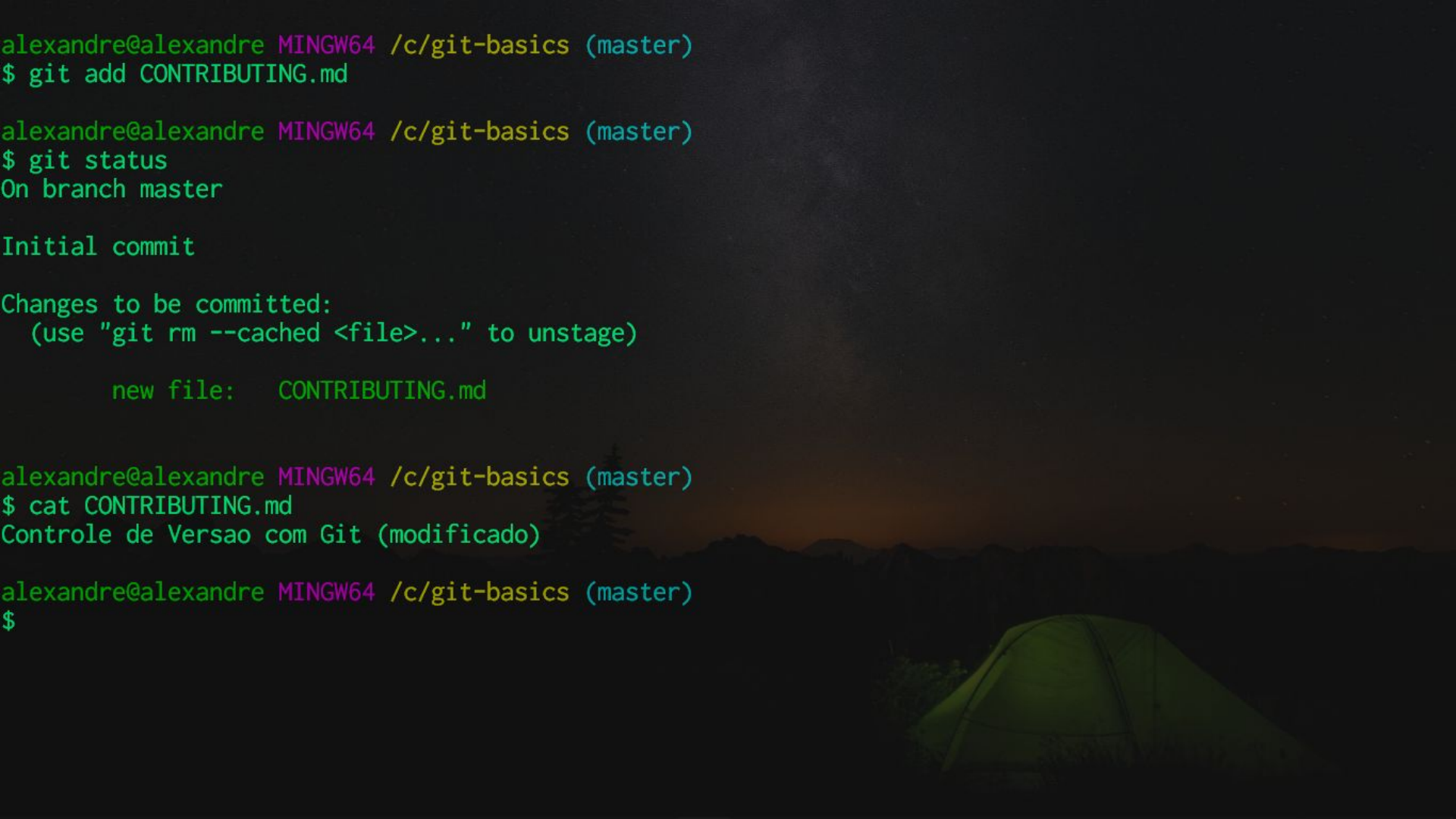
- (use "git rm --cached <file>..." to unstage)
- new file: CONTRIBUTING.md

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: CONTRIBUTING.md

alexandre@alexandre MINGW64 /c/git-basics (master)

```
$
```

The background of the terminal window is a dark, atmospheric night landscape. It features a green tent pitched in the lower right foreground, with silhouettes of trees and distant mountains under a starry night sky.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git add CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git status
On branch master
```

```
Initial commit
```

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

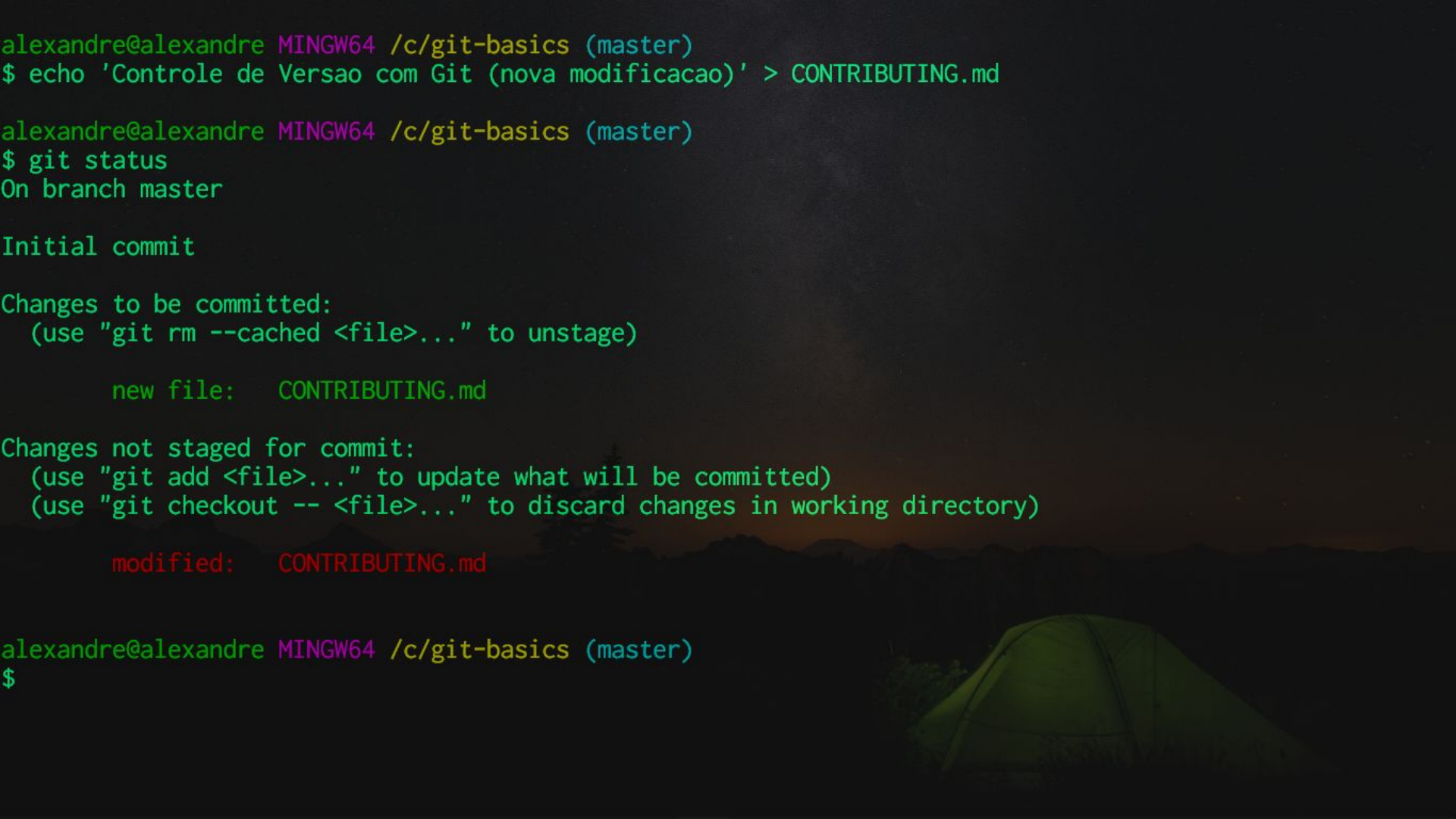
```
    new file:   CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ cat CONTRIBUTING.md
Controle de Versao com Git (modificado)
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

2.4. Mostrar modificações

```
$ git diff <file>
```


The background of the terminal window is a dark, atmospheric photograph of a landscape at dusk or dawn. In the foreground, a green tent is pitched on a grassy field. In the background, there are silhouettes of trees and rolling hills under a sky with soft, warm light from the setting or rising sun.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git (nova modificacao)' > CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git status
On branch master
```

Initial commit

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

new file: CONTRIBUTING.md

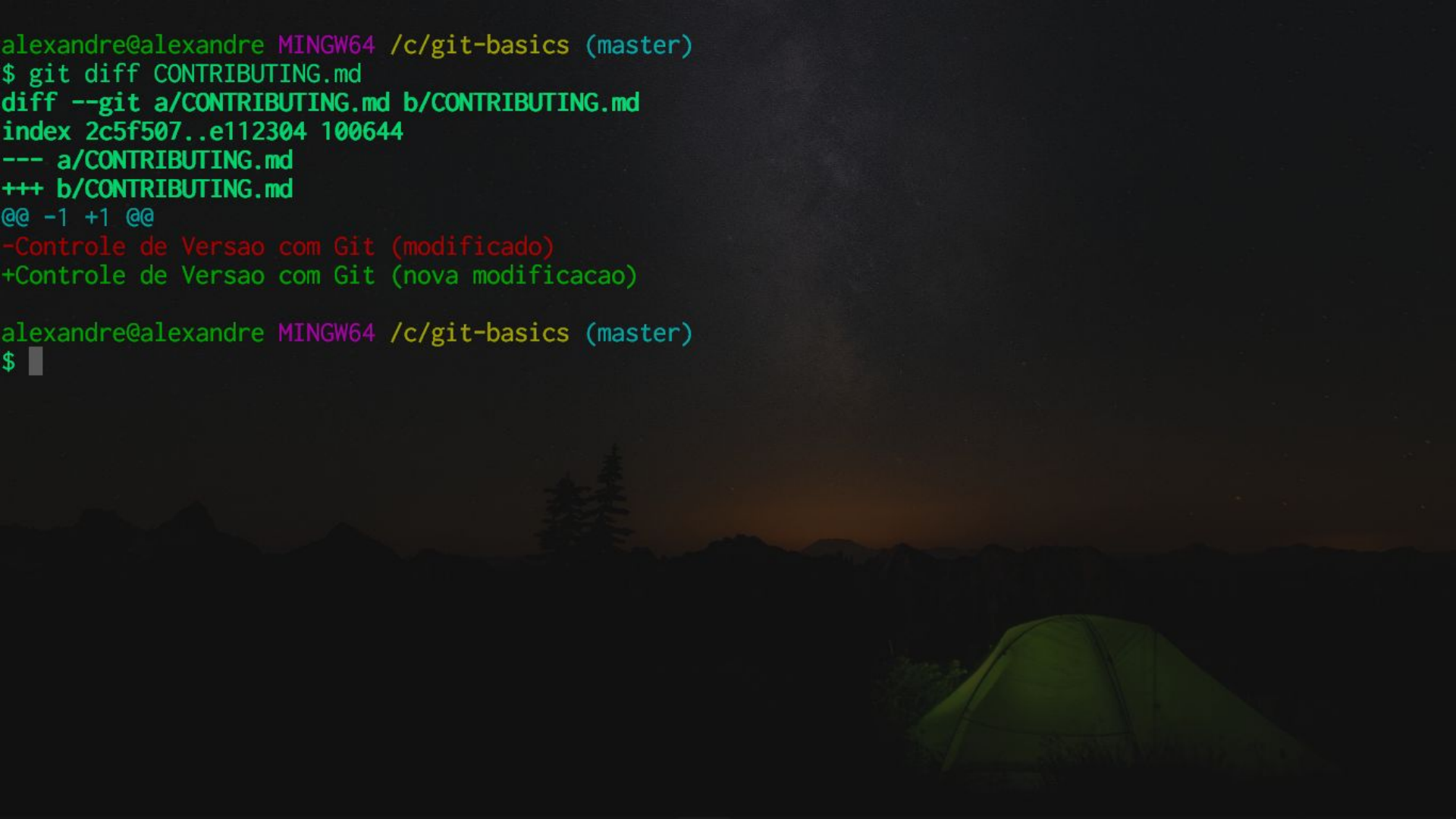
Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)

modified: CONTRIBUTING.md

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

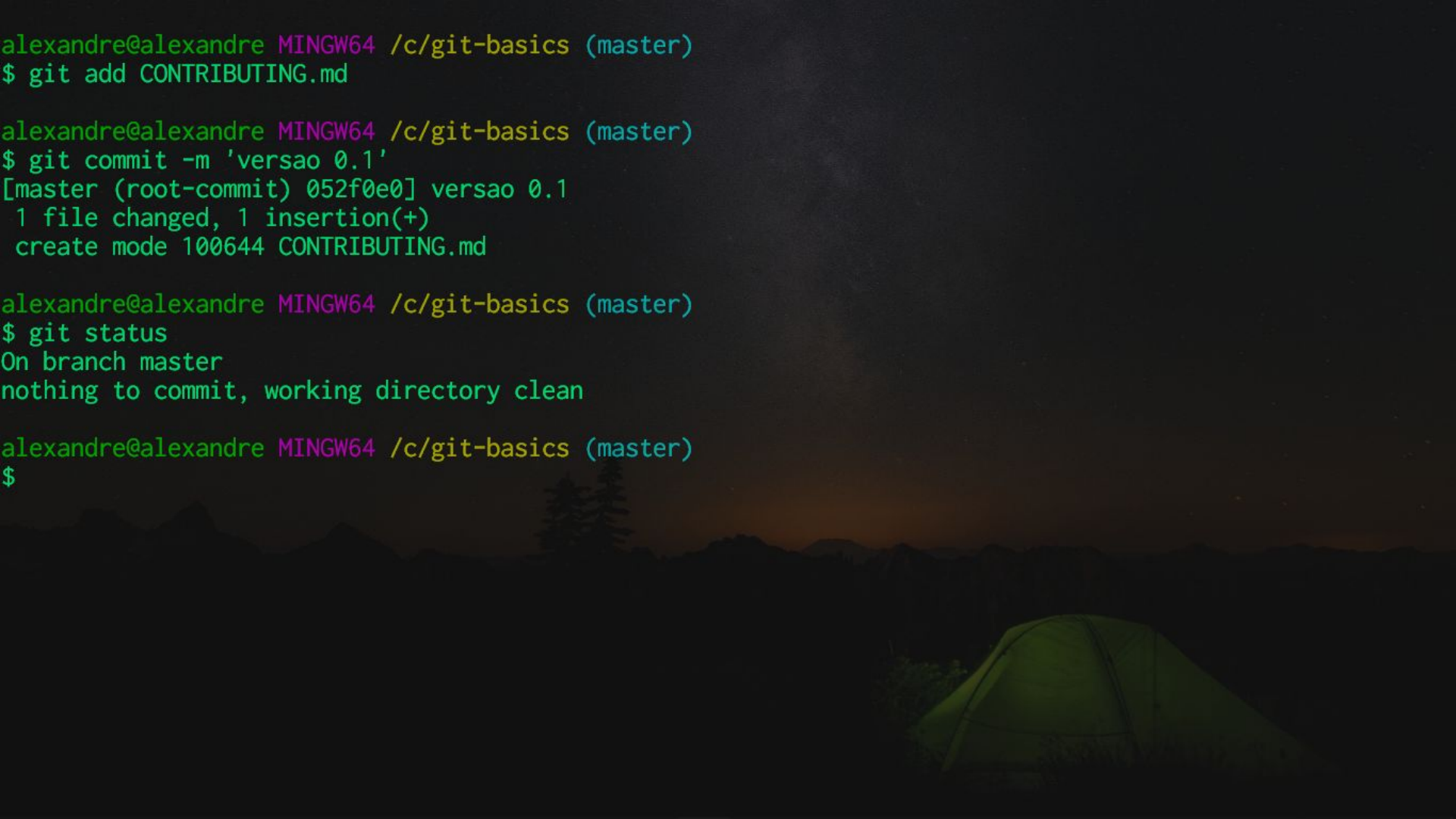
```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git diff CONTRIBUTING.md
diff --git a/CONTRIBUTING.md b/CONTRIBUTING.md
index 2c5f507..e112304 100644
--- a/CONTRIBUTING.md
+++ b/CONTRIBUTING.md
@@ -1,1 @@
-Controle de Versao com Git (modificado)
+Controle de Versao com Git (nova modificacao)

alexandre@alexandre MINGW64 /c/git-basics (master)
$ █
```



2.5. Fazer *commit* das modificações

```
$ git commit
```

A terminal window with a dark background featuring a faint, atmospheric image of a mountain range and a tent in the foreground. The terminal text is displayed in a monospaced font with syntax highlighting: the prompt 'alexandre@alexandre' is green, 'MINGW64' is magenta, and the directory path and branch name are yellow. The command and its output are in white.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
```

```
$ git add CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
```

```
$ git commit -m 'versao 0.1'
```

```
[master (root-commit) 052f0e0] versao 0.1
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
```

```
$ git status
```

```
On branch master
```

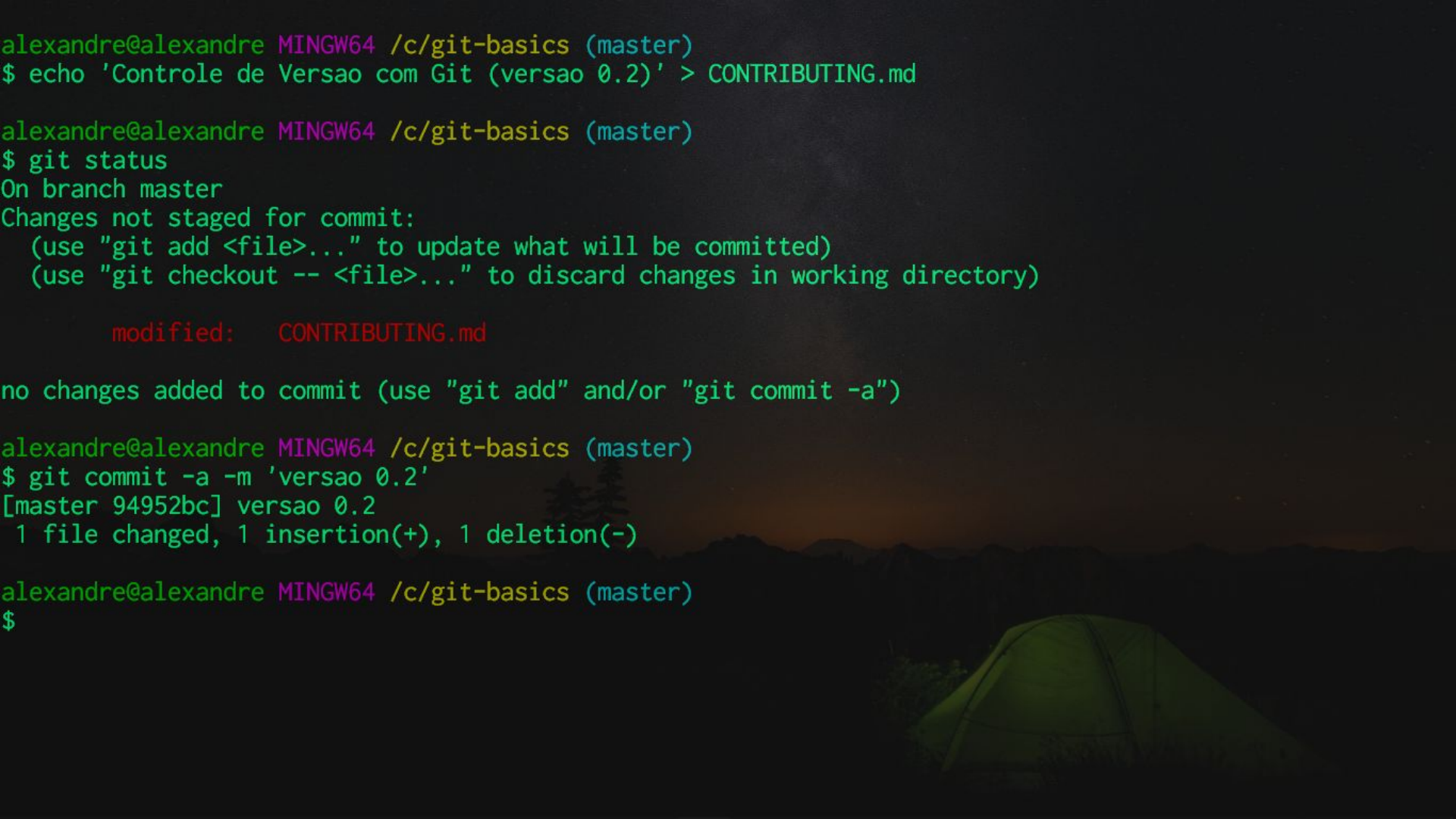
```
nothing to commit, working directory clean
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
```

```
$
```

2.6. “Pulando” a *Staging area*

```
$ git commit -a
```

A terminal window with a dark background featuring a faint image of a tent and trees. The terminal text is as follows:

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git (versao 0.2)' > CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (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:   CONTRIBUTING.md
```

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

```
alexandre@alexandre MINGW64 /c/git-basics (master)
```

```
$ git commit -a -m 'versao 0.2'
```

```
[master 94952bc] versao 0.2
```

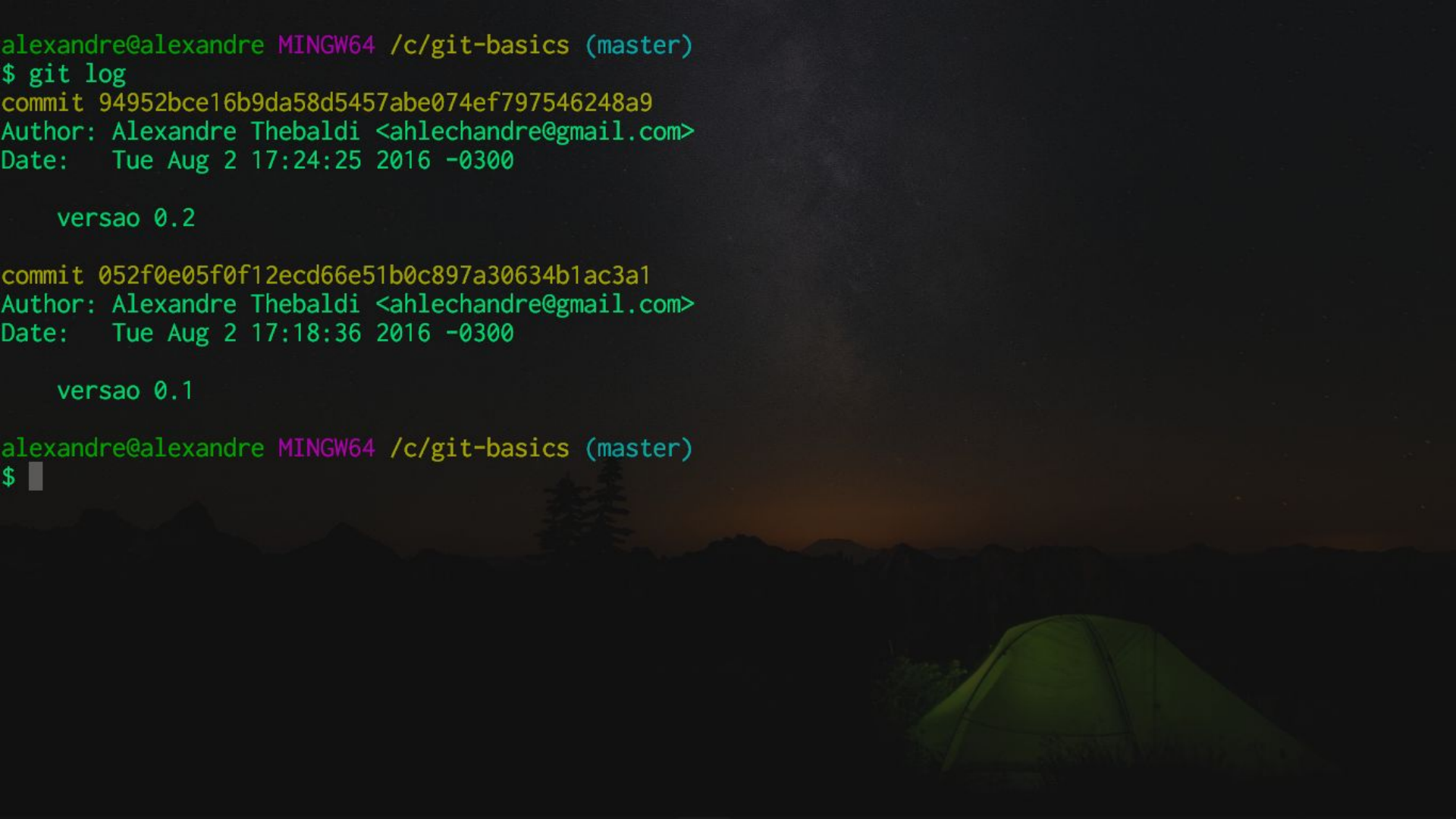
```
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
```

```
$
```

3. Visualizando o histórico de *commits*

```
$ git log
```


The background of the terminal window is a dark, atmospheric night landscape. It features a range of dark, silhouetted mountains in the distance. In the foreground, on the right side, there is a small, illuminated green tent. A few dark evergreen trees are visible in the middle ground. The sky is a deep, dark blue with some faint, wispy clouds. The overall scene is quiet and serene, typical of a night camping scene.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git log
commit 94952bce16b9da58d5457abe074ef797546248a9
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 17:24:25 2016 -0300
```

versao 0.2

```
commit 052f0e05f0f12ecd66e51b0c897a30634b1ac3a1
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 17:18:36 2016 -0300
```

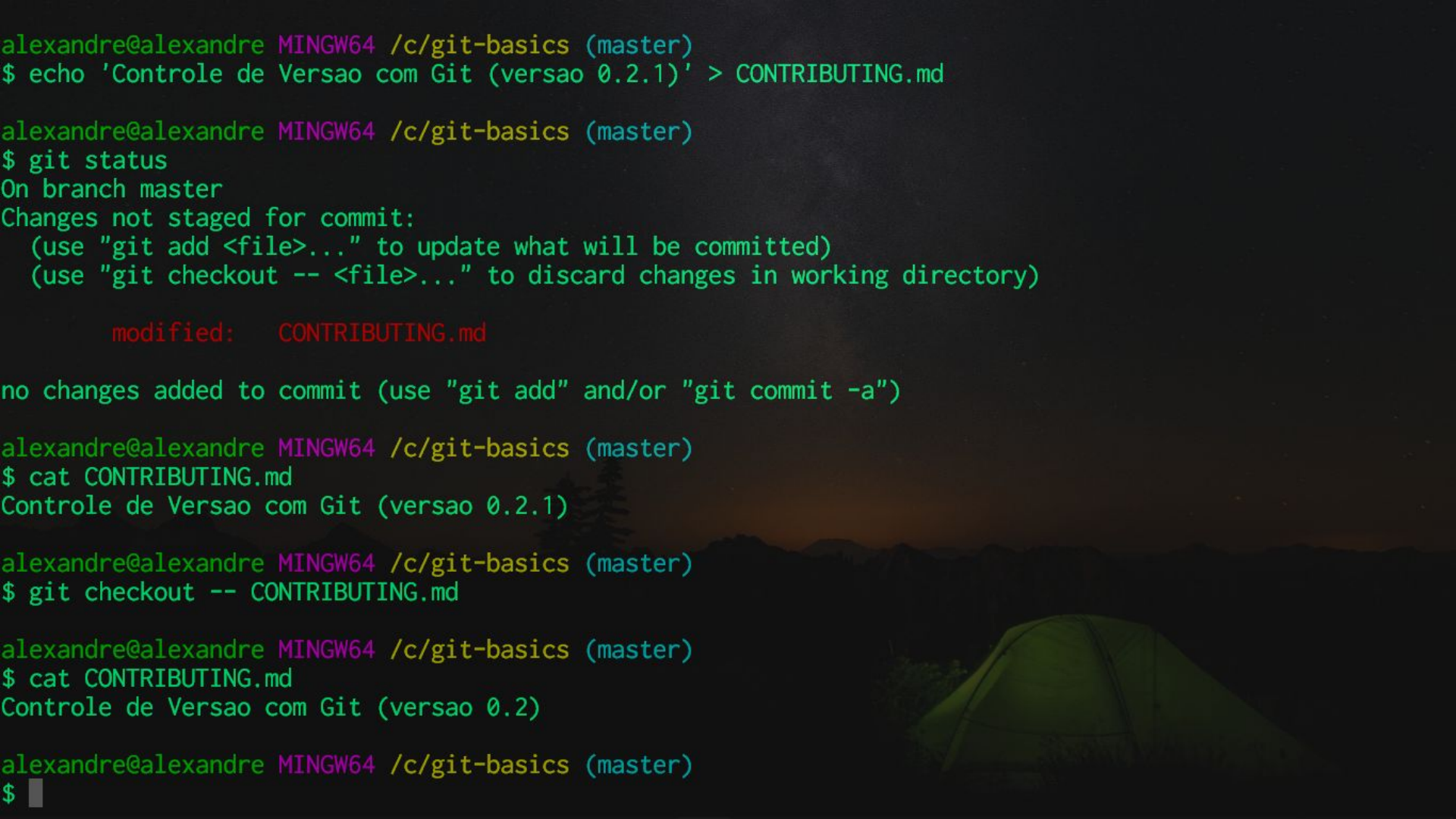
versao 0.1

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```


4. Desfazendo coisas

4.1. Desfazer modificação em arquivo modificado

```
$ git checkout -- <file>
```

A terminal window with a dark background featuring a faint image of a tent and mountains. The terminal text is as follows:

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git (versao 0.2.1)' > CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (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:   CONTRIBUTING.md
```

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

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ cat CONTRIBUTING.md
Controle de Versao com Git (versao 0.2.1)
```

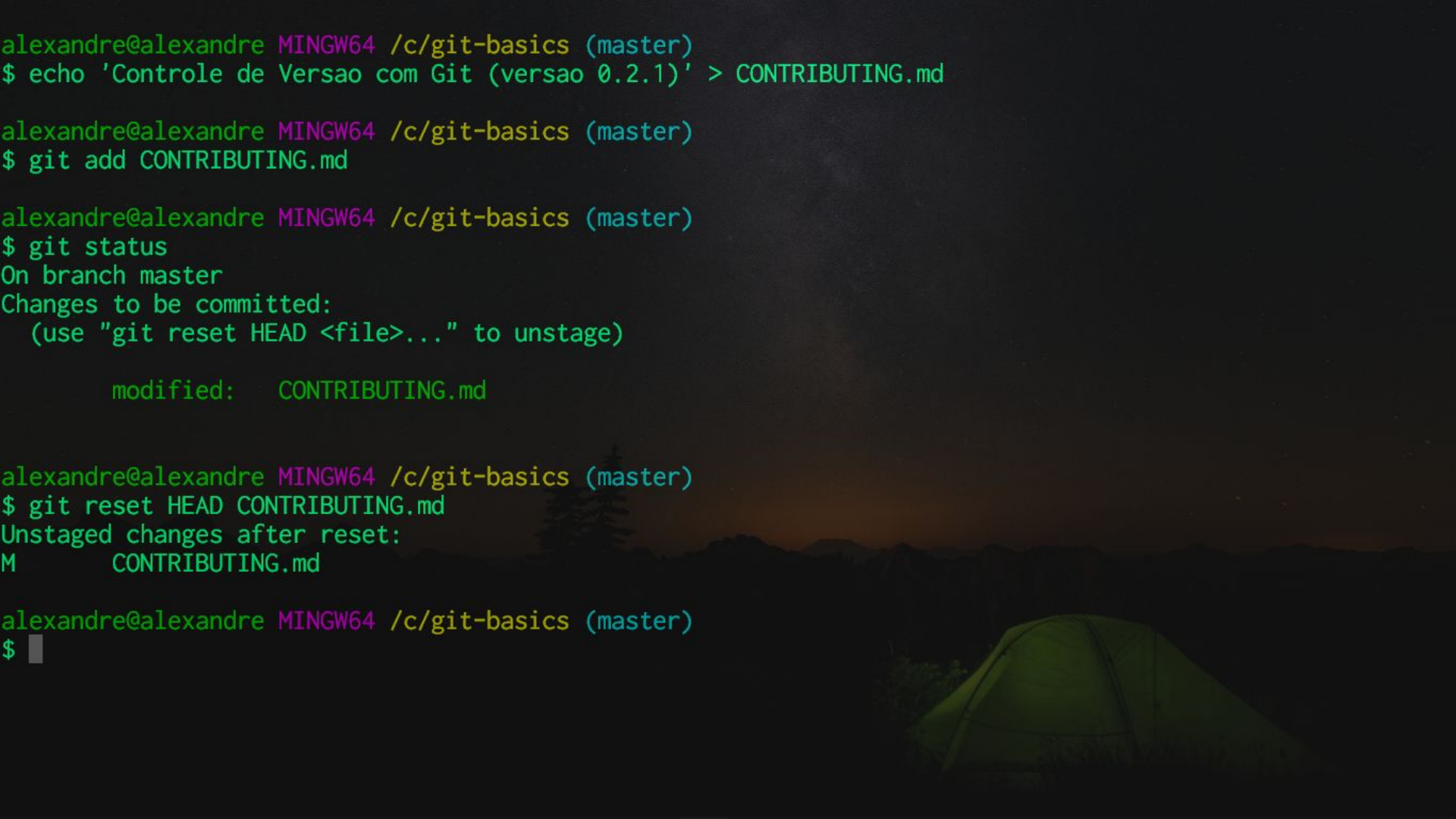
```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git checkout -- CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ cat CONTRIBUTING.md
Controle de Versao com Git (versao 0.2)
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

4.2. Remover arquivos da *Staging area*

```
$ git reset HEAD <file>
```

A terminal window with a dark background featuring a faint, atmospheric image of a mountain range at dusk or dawn, with a small tent pitched in the foreground on the right side. The terminal text is displayed in a monospaced font with syntax highlighting: usernames and hostnames are green, operating systems and paths are purple, and branch names are blue.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git (versao 0.2.1)' > CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git add CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
```

```
    modified:   CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git reset HEAD CONTRIBUTING.md
Unstaged changes after reset:
M    CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

4.3. Desfazer o último *commit*

```
$ git reset [--hard] HEAD~1
```

A terminal window with a dark background featuring a faint image of a tent in a forest at night. The terminal text is displayed in a monospaced font with syntax highlighting: usernames and prompts are green, file paths and branch names are purple, and commit hashes and dates are yellow. The text shows a sequence of Git commands and their outputs, including a commit for 'versao 0.3' and a log showing three commits.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ echo 'Controle de Versao com Git (versao 0.3)' > CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git commit -a -m 'versao 0.3'
[master 4b3b177] versao 0.3
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git log
commit 4b3b177f8da7bdb2aacfef6f429df6f3f2226b32
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 18:15:57 2016 -0300
```

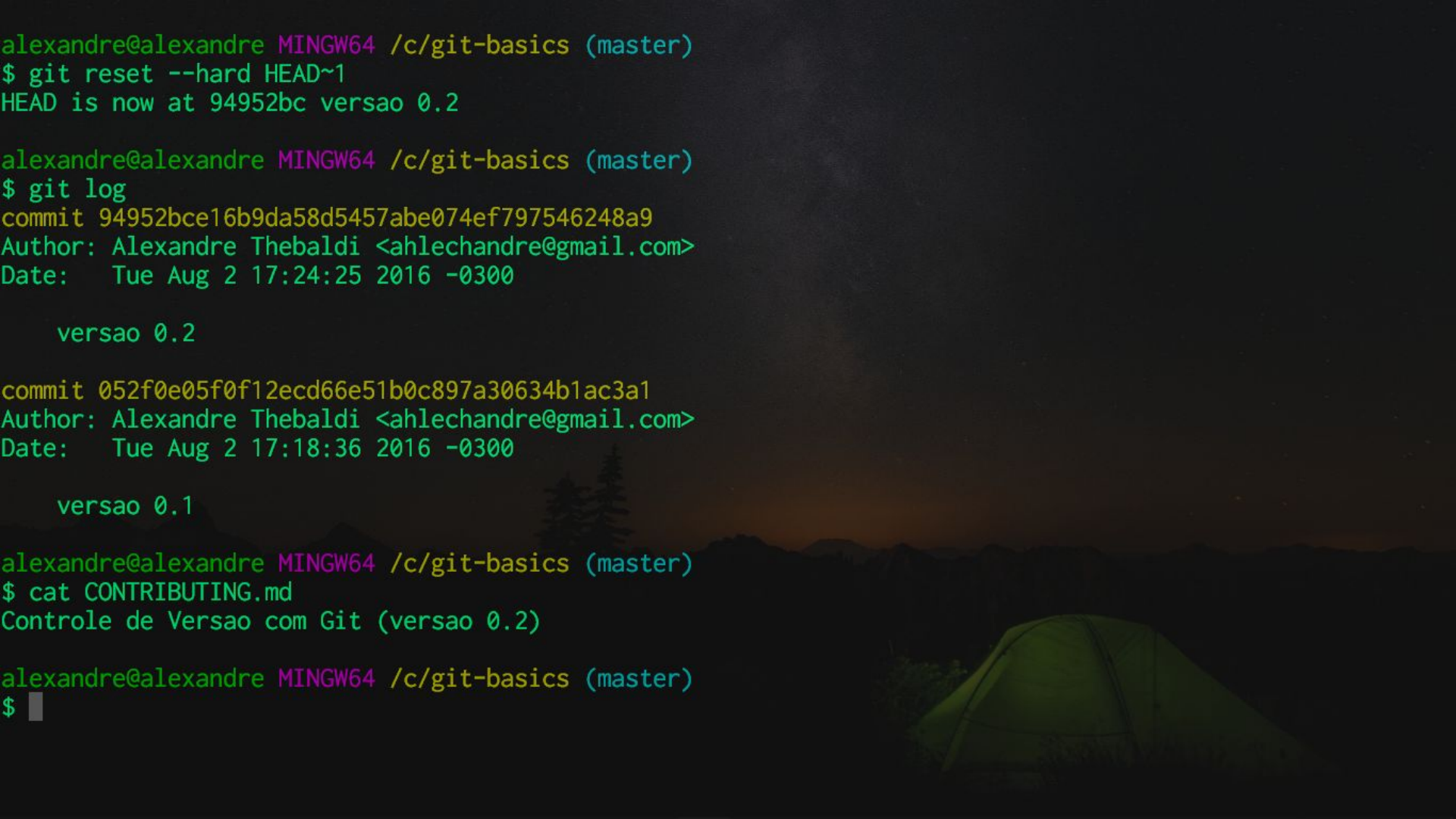
versao 0.3

```
commit 94952bce16b9da58d5457abe074ef797546248a9
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 17:24:25 2016 -0300
```

versao 0.2

```
commit 052f0e05f0f12ecd66e51b0c897a30634b1ac3a1
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 17:18:36 2016 -0300
```

versao 0.1

The background of the terminal window is a dark, atmospheric landscape. It features silhouettes of mountains and evergreen trees under a twilight sky with a hint of orange light on the horizon. In the lower right foreground, a green tent is pitched on a grassy area.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git reset --hard HEAD~1
HEAD is now at 94952bc versao 0.2
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git log
commit 94952bce16b9da58d5457abe074ef797546248a9
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 17:24:25 2016 -0300
```

versao 0.2

```
commit 052f0e05f0f12ecd66e51b0c897a30634b1ac3a1
Author: Alexandre Thebaldi <ahlechandre@gmail.com>
Date: Tue Aug 2 17:18:36 2016 -0300
```

versao 0.1

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ cat CONTRIBUTING.md
Controle de Versao com Git (versao 0.2)
```

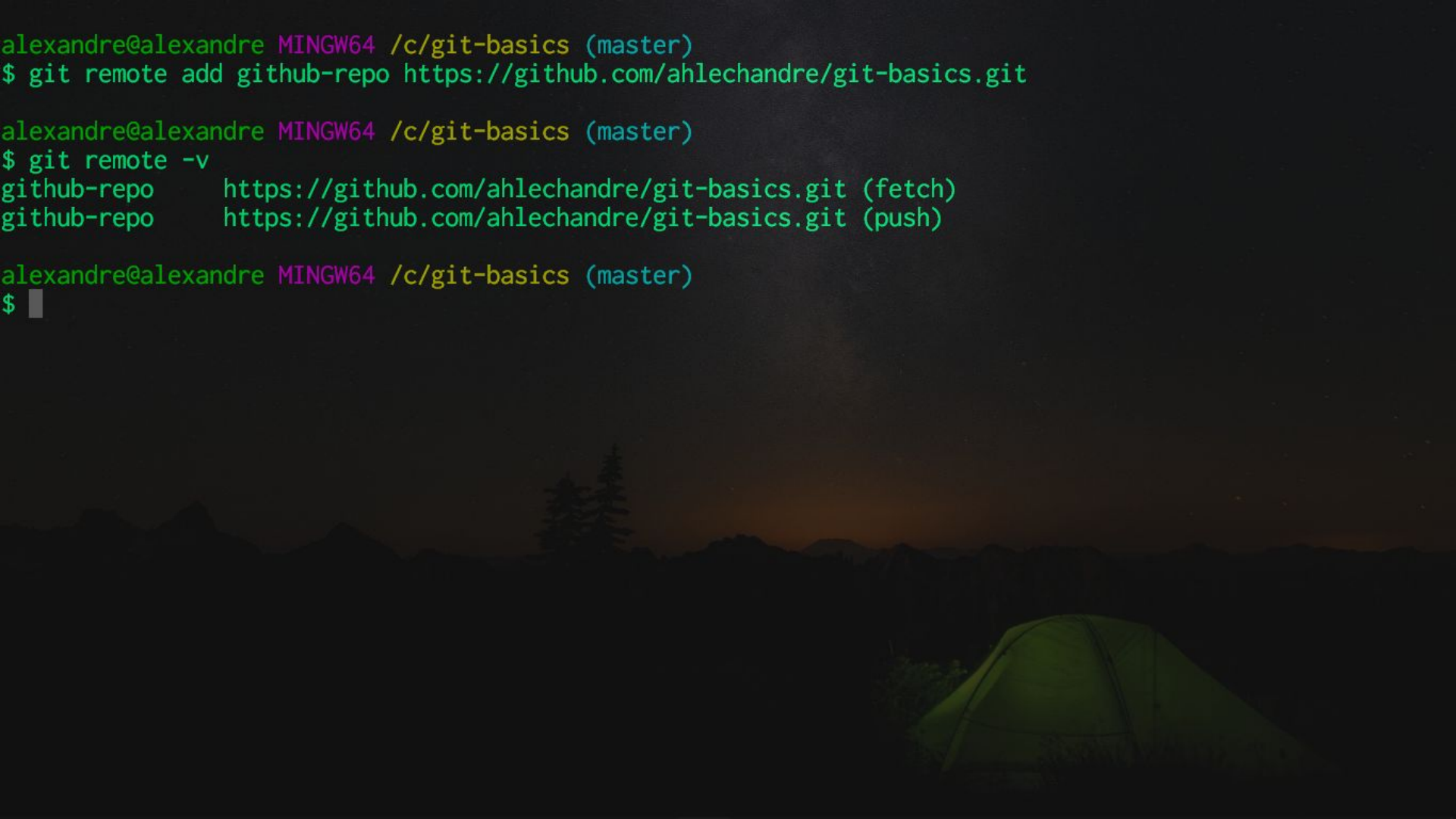
```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```


5. Trabalhando com remotos

```
$ git remote
```

5.1. Adicionando remotos

```
$ git remote add <remote>
```

The background of the terminal window is a dark, atmospheric landscape. It features a range of mountains under a starry night sky. In the foreground, there are silhouettes of evergreen trees and a small, illuminated tent on the right side.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git remote add github-repo https://github.com/ahlechandre/git-basics.git
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git remote -v
github-repo      https://github.com/ahlechandre/git-basics.git (fetch)
github-repo      https://github.com/ahlechandre/git-basics.git (push)
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```

5.2. Removendo remotos

```
$ git remote rm <remote>
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git remote -v
github-repo      https://github.com/ahlechandre/git-basics.git (fetch)
github-repo      https://github.com/ahlechandre/git-basics.git (push)
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git remote rm github-repo
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git remote -v
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```



5.3. “Puxando” os arquivos do repositório remoto

```
$ git pull <remote> <local>
```



This repository Search

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1 commit

1 branch

0 releases

1 contributor

Branch: master ▾

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[ahlechandre](#) Initial commit

Latest commit 5fcbdd3 14 hours ago

[LICENSE](#)

Initial commit

14 hours ago

[README.md](#)

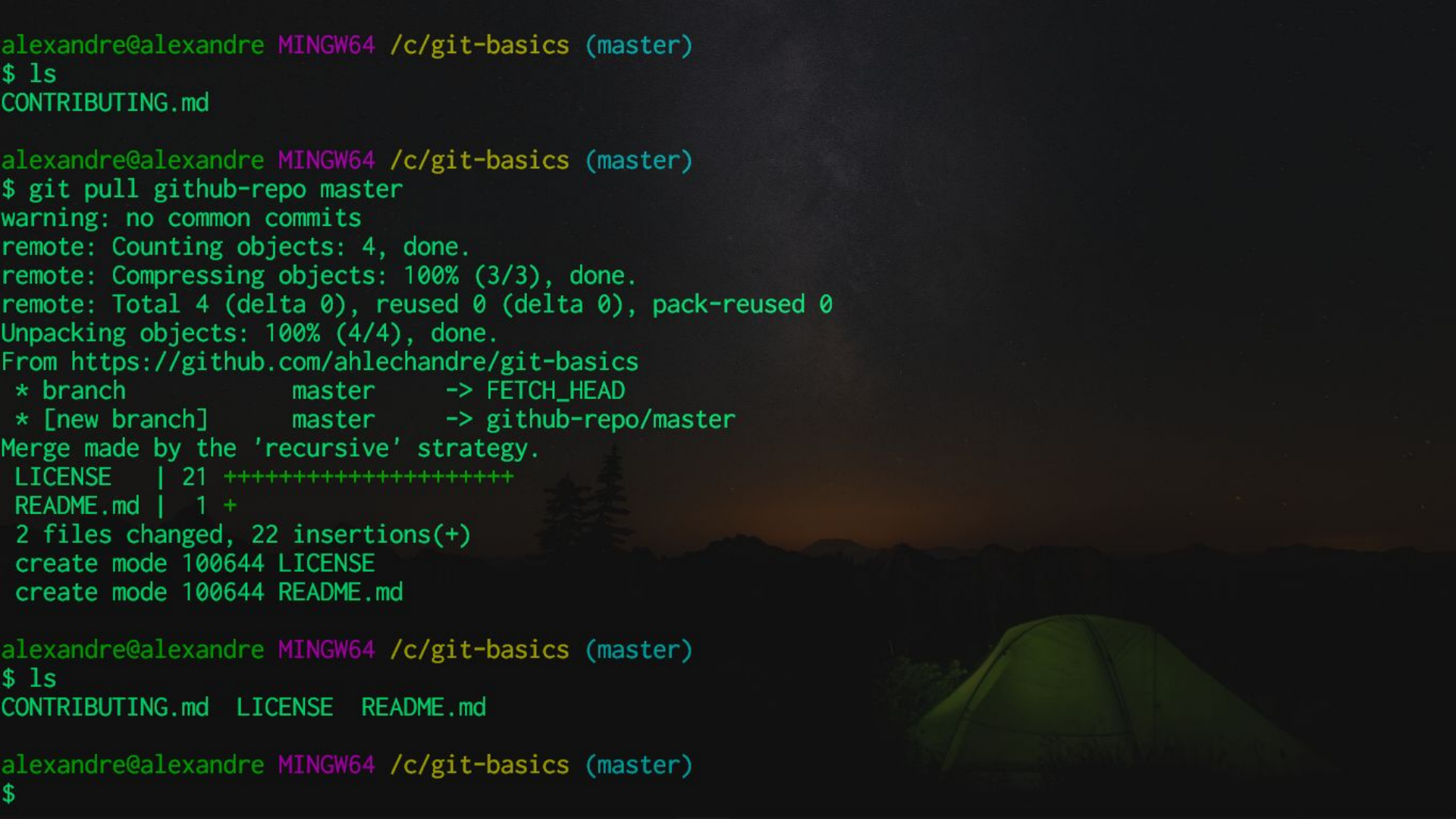
Initial commit

14 hours ago

[README.md](#)

git-basics



The background of the terminal window is a dark, atmospheric photograph of a mountain range at dusk or dawn. In the foreground, a green tent is pitched on the right side, and a few evergreen trees are visible on the left. The overall scene is dimly lit, with a warm glow from the horizon.

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ ls
CONTRIBUTING.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git pull github-repo master
warning: no common commits
remote: Counting objects: 4, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
From https://github.com/ahlechandre/git-basics
 * branch          master      -> FETCH_HEAD
 * [new branch]     master      -> github-repo/master
Merge made by the 'recursive' strategy.
 LICENSE   | 21 ++++++
 README.md |  1 +
 2 files changed, 22 insertions(+)
 create mode 100644 LICENSE
 create mode 100644 README.md
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ ls
CONTRIBUTING.md  LICENSE  README.md
```

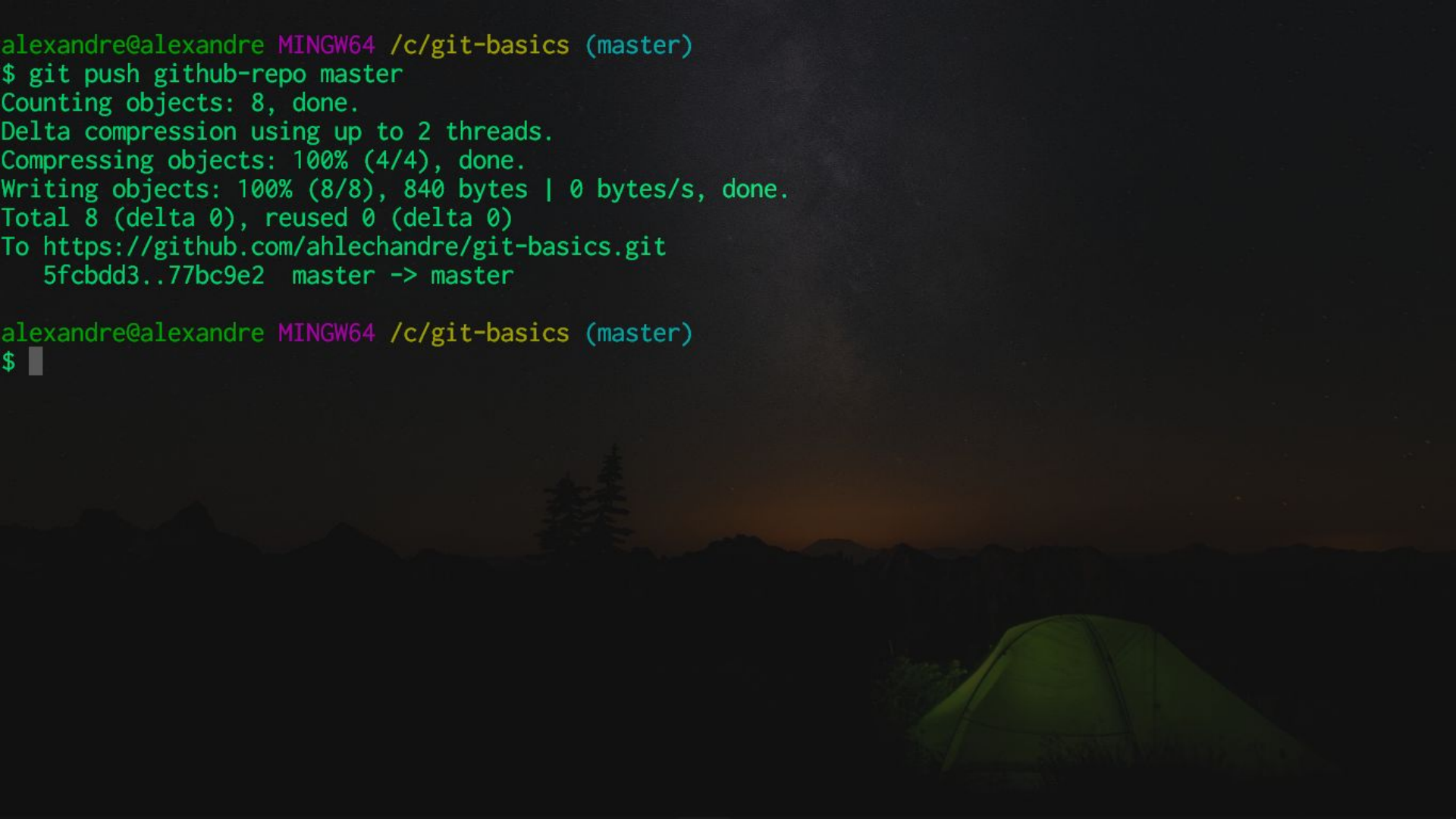
```
alexandre@alexandre MINGW64 /c/git-basics (master)
$
```


5.4. “Empurrando” os arquivos para repositório remoto

```
$ git push <remote> <local>
```

```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ git push github-repo master
Counting objects: 8, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (8/8), 840 bytes | 0 bytes/s, done.
Total 8 (delta 0), reused 0 (delta 0)
To https://github.com/ahlechandre/git-basics.git
5fcbdd3..77bc9e2  master -> master
```

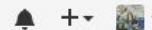
```
alexandre@alexandre MINGW64 /c/git-basics (master)
$ █
```





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[git-basics](#) / CONTRIBUTING.md

Find file

Copy path



ahlechandre versao 0.2

94952bc an hour ago

1 contributor

2 lines (1 sloc) | 40 Bytes

Raw

Blame

History



Controle de Versao com Git (versao 0.2)




6. *Deploy* com Git

6.1. VINT (grupo de pesquisa e extensão)

<http://vint.roo.ufmt.br>

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Computação Visual e Interativa

nosso grupo de pesquisa e

o VINT – Computação Visual e Interativa



Entre em contato

Fale conosco caso você tenha alguma dúvida ou esteja interessado por algo que conheceu aqui



os do VINT

Os programas



vint

ACTIONS

- Clone
- Create branch
- Create pull request
- Compare
- Fork

NAVIGATION

- Overview
- Source
- Commits
- Branches
- Pull requests
- Downloads
- Settings

Alexandre Thebaldi / vint

Source

master vint /

+ New file

- config
- plugins/vint
- themes/vint

.gitignore	241 B	2016-06-06	pre-install configs
README.md	2.5 KB	2016-06-05	pre-install

Installation wizard for October

The wizard installation is a recommended way to install October. It is simpler than the command-line installation and doesn't require any special skills.

1. Prepare a directory on your server that is empty. It can be a sub-directory, domain root or a sub-domain.
2. [Download the installer archive file.](#)
3. Unpack the installer archive to the prepared directory.
4. Grant writing permissions on the installation directory and all its subdirectories and files.
5. Navigate to the `install.php` script in your web browser.
6. Follow the installation instructions.

Minimum System Requirements

October CMS has a few system requirements:

- PHP 5.4 or higher
- PDO PHP Extension
- cURL PHP Extension
- MCRYPT PHP Extension
- ZipArchive PHP Library

Referências

Git, Book. Disponível em: <<https://git-scm.com/book/en/v2>>. Acesso em 2 de agosto de 2016.

Wikipedia, Git (software). Disponível em: <[https://en.wikipedia.org/wiki/Git_\(software\)](https://en.wikipedia.org/wiki/Git_(software))>. Acesso em 2 de agosto de 2016.