

ATIVIDADE: KATAS

1. Basic Commits

```
git init basic-commits
```

```
cd basic-commits
```

```
echo "Olá Katas" > hello.txt
```

```
git add hello.txt
```

```
git commit -m "Adiciona arquivo hello.txt"
```

```
echo "Segunda linha" >> hello.txt
```

```
git add hello.txt
```

```
git commit -m "Adiciona segunda linha ao hello.txt"
```

```
echo "Outro arquivo" > another.txt
```

```
git add another.txt
```

```
git commit -m "Adiciona another.txt"
```

```
git log --oneline
```

```
    c5d8578 (HEAD -> main) Adiciona another.txt
```

```
    f1e19dd Adiciona segunda linha ao hello.txt
```

```
    fea2b2a Adiciona arquivo hello.txt
```

2. Basic Staging

```
git init basic-staging
```

```
cd basic-staging
```

```
echo "Linha 1" > file1.txt
```

```
echo "Linha 2" > file2.txt
```

```
echo "Linha 3" > file3.txt
```

```
git status
```

```
On branch main
```

```
No commits yet
```

```
Untracked files:
```

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

```
  file1.txt
```

ATIVIDADE: KATAS

file2.txt

file3.txt

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

git add file1.txt

git commit -m "Adiciona file1.txt"

[main (root-commit) 0350633] Adiciona file1.txt

1 file changed, 1 insertion(+)

create mode 100644 file1.txt

git add file2.txt file3.txt

git reset file3.txt

git commit -m "Adiciona file2.txt"

[main ca46725] Adiciona file2.txt

1 file changed, 1 insertion(+)

create mode 100644 file2.txt

git add file3.txt

git commit -m "Adiciona file3.txt"

[main 012e10d] Adiciona file3.txt

1 file changed, 1 insertion(+)

create mode 100644 file3.txt

git log --oneline

012e10d (HEAD -> main) Adiciona file3.txt

ca46725 Adiciona file2.txt

0350633 Adiciona file1.txt

3. Git Tag

git init git-tag

cd git-tag

echo "Versão inicial" > app.txt

git add app.txt

git commit -m "Commit inicial"

[main (root-commit) 133f858] Commit inicial

1 file changed, 1 insertion(+)

create mode 100644 app.txt

ATIVIDADE: KATAS

```
echo "Função A" >> app.txt
```

```
git add app.txt
```

```
git commit -m "Adiciona Função A"
```

```
[main f17b7c5] Adiciona Função A
1 file changed, 1 insertion(+)
```

```
echo "Função B" >> app.txt
```

```
git add app.txt
```

```
git commit -m "Adiciona Função B"
```

```
[main b508622] Adiciona Função B
1 file changed, 1 insertion(+)
```

```
git log --oneline
```

```
b508622 (HEAD -> main) Adiciona Função B
f17b7c5 Adiciona Função A
133f858 Commit inicial
```

```
git tag -a v1.0 133f858 -m "Versão 1.0"
```

```
git tag -a v2.0 -m "Versão 2.0"
```

```
git tag
```

```
v1.0
v2.0
```

```
git show v1.0
```

```
tag v1.0
Tagger: Kensley Oliveira <kensley.oliveira@ufu.br>
Date: Sat Sep 20 23:33:44 2025 -0300
Versão 1.0
commit 133f858d13d32268c53e965df0e810747a178ed5 (tag: v1.0)
Author: Kensley Oliveira <kensley.oliveira@ufu.br>
Date: Sat Sep 20 23:27:33 2025 -0300
    Commit inicial
diff --git a/app.txt b/app.txt
new file mode 100644
index 0000000..f7c633a
--- /dev/null
+++ b/app.txt
@@ -0,0 +1 @@
```

ATIVIDADE: KATAS

```
+ "Versão inicial"
```

```
git tag -f v2.0 HEAD~1
```

```
Updated tag 'v2.0' (was c8c3867)
```

```
git push origin v1.0
```

```
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 376 bytes | 125.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/BSI-UFU/TMS_Katas.git
* [new tag]    v1.0 -> v1.0
```

```
git push origin --tags
```

```
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 288 bytes | 144.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/BSI-UFU/TMS_Katas.git
* [new tag]    v2.0 -> v2.0
```

4. Ignore

```
git init ignore-kata
```

```
cd ignore-kata
```

```
echo "print('Hello World')" > app.py
```

```
echo "Config local" > config.txt
```

```
echo "Log temporário" > debug.log
```

```
mkdir tmp
```

```
echo "arquivo temporário" > tmp/temp.txt
```

```
echo "config.txt" > .gitignore
```

```
echo "*.log" >> .gitignore
```

```
echo "tmp/" >> .gitignore
```

```
git status
```

ATIVIDADE: KATAS

On branch main

No commits yet

Untracked files:

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

.gitignore

app.py

config.txt

debug.log

tmp/

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

```
git add app.py .gitignore
```

```
git commit -m "Adiciona app.py e .gitignore"
```

[main (root-commit) 133bda5] Adiciona app.py e .gitignore

2 files changed, 4 insertions(+)

create mode 100644 .gitignore

create mode 100644 app.py

```
git status
```

On branch main

Untracked files:

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

config.txt

debug.log

tmp/

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

```
git check-ignore -v config.txt
```

```
git check-ignore -v debug.log
```

```
git check-ignore -v tmp/temp.txt
```

5. Amend

```
git init amend-kata
```

```
cd amend-kata
```

```
echo "Primeiro arquivo" > file.txt
```

```
git add file.txt
```

```
git commit -m "Primeiro commit"
```

[main (root-commit) 9ca6fc6] Primeiro commit

ATIVIDADE: KATAS

```
1 file changed, 1 insertion(+)  
create mode 100644 file.txt
```

```
echo "Alguma modificação" >> file.txt
```

```
git add file.txt
```

```
git commit -m "Mensagem errada"
```

```
error: unknown switch `m'  
usage: git add [<options>] [--] <pathspec>...  
    -n, --[no-]dry-run    dry run  
    -v, --[no-]verbose    be verbose  
    -i, --[no-]interactive  
                        interactive picking  
    -p, --[no-]patch      select hunks interactively  
    -e, --[no-]edit        edit current diff and apply  
    -f, --[no-]force       allow adding otherwise ignored files  
    -u, --[no-]update      update tracked files  
    --[no-]renormalize     renormalize EOL of tracked files (implies -u)  
    -N, --[no-]intent-to-add  
                        record only the fact that the path will be added later  
    -A, --[no-]all         add changes from all tracked and untracked files  
    --[no-]ignore-removal  ignore paths removed in the working tree (same as --no-all)  
    --[no-]refresh         don't add, only refresh the index  
    --[no-]ignore-errors   just skip files which cannot be added because of errors  
    --[no-]ignore-missing  check if - even missing - files are ignored in dry run  
    --[no-]sparse          allow updating entries outside of the sparse-checkout cone  
    --[no-]chmod (+|-)x    override the executable bit of the listed files  
    --[no-]pathspec-from-file <file>  
                        read pathspec from file  
    --[no-]pathspec-file-nul  
                        with --pathspec-from-file, pathspec elements are separated with NUL character
```

```
git commit --amend -m "Mensagem corrigida"
```

```
[main 4d18c92] Mensagem corrigida  
Date: Sat Sep 20 23:45:56 2025 -0300  
1 file changed, 1 insertion(+)  
create mode 100644 file.txt
```

```
echo "Novo arquivo" > newfile.txt
```

```
git add newfile.txt
```

```
git commit --amend --no-edit
```

ATIVIDADE: KATAS

```
[main 1c48b18] Mensagem corrigida
Date: Sat Sep 20 23:45:56 2025 -0300
2 files changed, 2 insertions(+)
create mode 100644 file.txt
create mode 100644 newfile.txt
```

```
git log --oneline
```

```
1c48b18 (HEAD -> main) Mensagem corrigida
```

6. Basic Cleaning

```
git init basic-cleaning
```

```
cd basic-cleaning
```

```
echo "Arquivo 1" > file1.txt
```

```
git add file1.txt
```

```
git commit -m "Adiciona file1.txt"
```

```
[main (root-commit) 1a6554d] Adiciona file1.txt
1 file changed, 1 insertion(+)
create mode 100644 file1.txt
```

```
echo "Arquivo 2" > file2.txt
```

```
git add file2.txt
```

```
git commit -m "Adiciona file2.txt"
```

```
[main 3040779] Adiciona file2.txt
1 file changed, 1 insertion(+)
create mode 100644 file2.txt
```

```
echo "Temp" > temp.txt
```

```
echo "Backup" > backup.txt
```

```
git status
```

```
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    backup.txt
    temp.txt
nothing added to commit but untracked files present (use "git add" to track)
```

ATIVIDADE: KATAS

```
git clean -f
```

```
Removing backup.txt
```

```
Removing temp.txt
```

```
echo "Mudança" >> file1.txt
```

```
git checkout -- file1.txt
```

```
git reset --hard HEAD~1
```

```
HEAD is now at 1a6554d Adiciona file1.txt
```

```
git log --oneline
```

```
1a6554d (HEAD -> main) Adiciona file1.txt
```