

Instituto Superior de Tecnologias Avançadas do Porto

Curso Técnico Superior Profissional

Ano letivo 2022/2023

Turma Desenvolvimento de Software

RELATÓRIO

DAS

Trabalho prático individual final - Git

https://github.com/DAS-Projeto-NunoPereira/projetodas_np

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janeiro 2023

1. Criação do repositório.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner * **Repository name ***

nunooppereira / projetodas_np ✓

Great repository names are short and memorable. Need inspiration? How about [fictional-winner?](#)

Description (optional)

☒ **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

☒ **Add a README file**
This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore
Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

Choose a license
A license tells others what they can and can't do with your code. [Learn more.](#)

License: None ▾

This will set **main** as the default branch. Change the default name in your [settings](#).

You are creating a public repository in your personal account.

Create repository

Nome do repositório: projetodas_np;

Repositório: Público;

CHECK no “Add a README file” (só para ter um ficheiro readme com o nome do projeto);

Create repository: Para criar o repositório.

Na linha de comandos:

```
md C:\Users\nunop\Desktop\FinalDAS
```

```
cd C:\Users\nunop\Desktop\FinalDAS
```

```
git branch -M main
```

```
git remote add origin https://github.com/nunooppereira/projetodas\_np.git
```

```
git push -u origin main
```

```
git flow init
```

2. Níveis de acesso ao GitHub

Organization account name *

DAS-Projeto-NunoPereira ✓

This will be the name of your account on GitHub.
Your URL will be: <https://github.com/DAS-Projeto-NunoPereira>.

Contact email *


nunofilipepereira.03@gmail.com ✓

This organization belongs to: *

☒ My personal account
Le., nunoopereira (Nuno Pereira)

☐ A business or institution
For example: GitHub, Inc., Example Institute, American Red Cross

Verify your account




☒ I hereby accept the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#).

Next

Dar as permissões:

Criar uma organização, para dar os níveis de acesso ao GITHUB.


 **DAS-Projeto-NunoPereira**

Overview Repositories Projects Packages Teams People Settings

Find a repository... Type Sort New repository

projetodas_np Public

0 0 0 0 Updated 1 hour ago

 **DAS-Projeto-NunoPereira**
Organization account [Switch to another account](#) [Go to your organization profile](#)

General

Access

Billing and plans

Repository roles

Member privileges

Team discussions

Import/Export

Moderation

Code, planning, and automation

Repository

Codespaces

Actions

Webhooks

Discussions

Packages

Pages

Member privileges

Base permissions

Base permissions to the organization's repositories apply to all members and excludes outside collaborators. Since organization members can have permissions from multiple sources, members and collaborators who have been granted a higher level of access than the base permissions will retain their higher permission privileges.

Read

Organization member permissions

No permission
Members will only be able to clone and pull public repositories. To give a member additional access, you'll need to add them to teams or make them collaborators on individual repositories.

☒ **Read**
Members will be able to clone and pull all repositories.

Write
Members will be able to clone, pull, and push all repositories.

Admin

Member privileges

Base permissions

Base permissions to the organization's repositories apply to all members and excludes outside collaborators. Since organization members can have permissions from multiple sources, members and collaborators who have been granted a higher level of access than the base permissions will retain their higher permission privileges.

Write ▾

Admin repository permissions

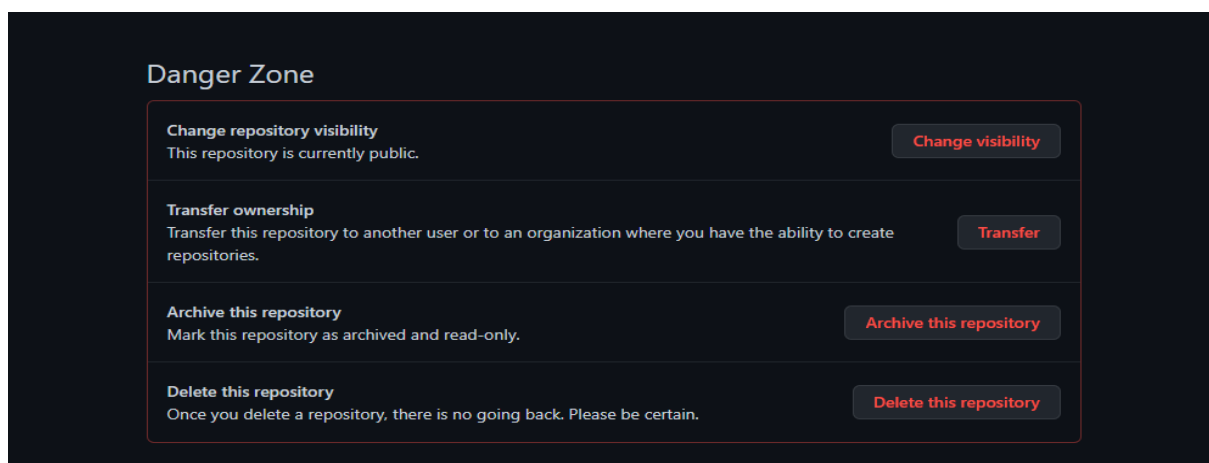
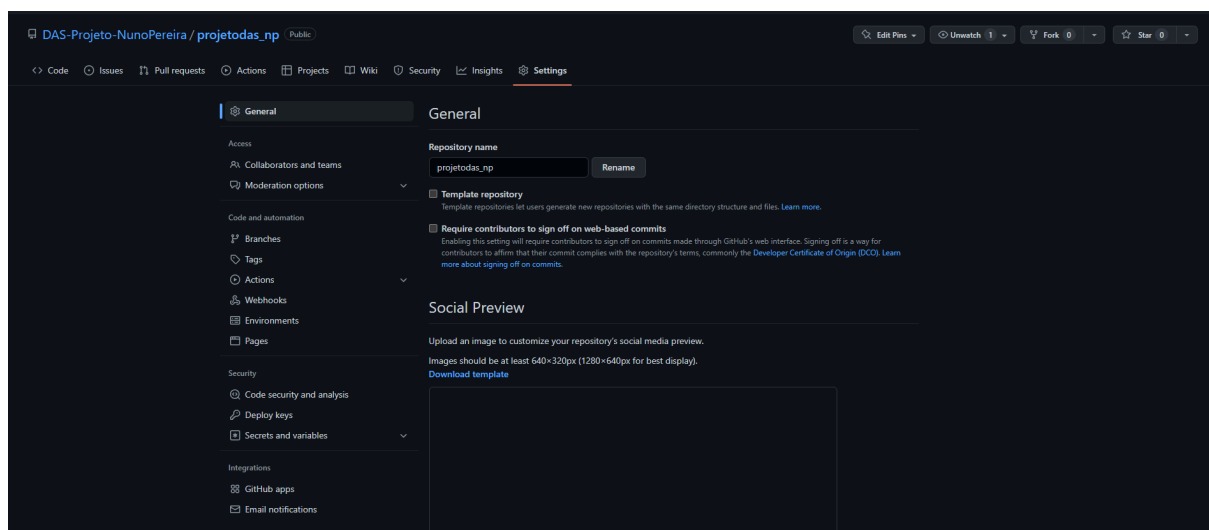
Repository visibility change

☐ **Allow members to change repository visibilities for this organization**

If enabled, members with admin permissions for the repository will be able to change its visibility. If disabled, only organization owners can change repository visibilities.


Save

Para passar o repositório para a organização



Clicar no botão "**Transferir**".

Transfer repository: DAS-Projeto-NunoPereira/projetodas_np

 To understand admin access, teams, issue assignments, and redirects after a repository is transferred, see [Transferring a repository in GitHub Help](#).

Transferring may be delayed until the new owner approves the transfer.

New owner *

☒ Select one of my organizations

Choose an owner ▾

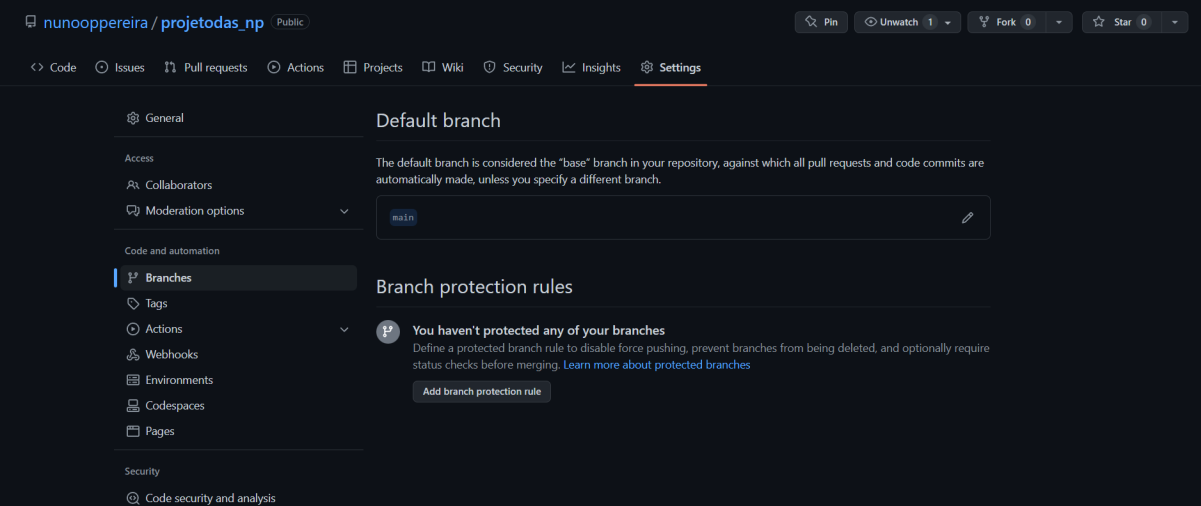
☐ Specify an organization or username

Type `DAS-Projeto-NunoPereira/projetodas_np` to confirm.

I understand, transfer this repository.

Neste caso, já tinha feito a transferência do repositório, mas é só seleccionar na opção “Choose an owner”, escolher a organização, escrever: “**DAS-Projeto-NunoPereira/projetodas_np**” e clicar para transferir o repositório.

3. Tornar obrigatório a Revisão do Código



nunooppereira / **projetodas_np** Public

Code Issues Pull requests Actions Projects Wiki Security Insights **Settings**

General

Access

Collaborators

Moderation options ▾

Code and automation

Branches

Tags

Actions ▾

Webhooks

Environments

Codespaces

Pages

Security


Code security and analysis

Default branch

The default branch is considered the “base” branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

main

Branch protection rules

 **You haven't protected any of your branches**

Define a protected branch rule to disable force pushing, prevent branches from being deleted, and optionally require status checks before merging. [Learn more about protected branches](#)

Add branch protection rule

Branch protection rule

Branch name pattern *

master

Applies to 1 branch

master

Protect matching branches

- ☒ **Require a pull request before merging**
When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.
- ☒ **Require approvals**
When enabled, pull requests targeting a matching branch require a number of approvals and no changes requested before they can be merged.
Required number of approvals before merging: 1
- ☐ **Dismiss stale pull request approvals when new commits are pushed**
New reviewable commits pushed to a matching branch will dismiss pull request review approvals.
- ☐ **Require review from Code Owners**
Require an approved review in pull requests including files with a designated code owner.
- ☐ **Restrict who can dismiss pull request reviews**
Specify people, teams, or apps allowed to dismiss pull request reviews.
- ☐ **Allow specified actors to bypass required pull requests**
Specify people, teams, or apps who are allowed to bypass required pull requests.

Branch protection rules

Add rule

master

Currently applies to 1 branch

Edit Delete

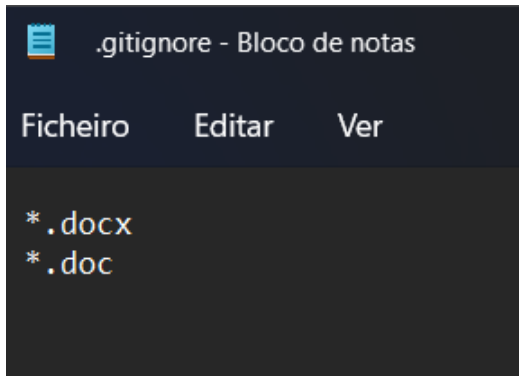
Quando ativado, todos os commits devem ser feitos em um branch não protegido e enviados por meio de uma solicitação pull antes que possam ser mesclados em um branch que corresponda a essa regra.

4. Ficheiro GITIGNORE

```
C:\Users\nunop\Desktop\FinalDAS>git branch -a
* develop
  master

C:\Users\nunop\Desktop\FinalDAS>git checkout master
Switched to branch 'master'
```

```
C:\Users\nunop\Desktop\FinalDAS>notepad .gitignore
```



```
C:\Users\nunop\Desktop\FinalDAS>git add .
```

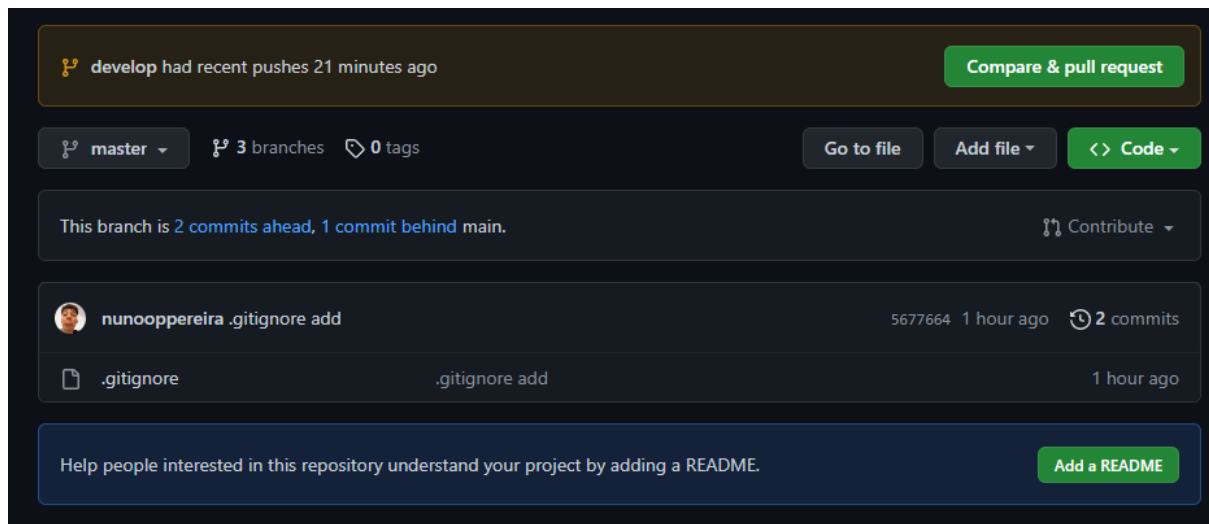
```
C:\Users\nunop\Desktop\FinalDAS>git commit -m ".gitignore add"
[master b0ba9d6] .gitignore add
1 file changed, 2 insertions(+)
create mode 100644 .gitignore

C:\Users\nunop\Desktop\FinalDAS>git push -u origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (5/5), 395 bytes | 197.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote: This repository moved. Please use the new location:
remote:   https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/DAS-Projeto-NunoPereira/projetodas_np/pull/new/master
remote:
To https://github.com/nunooppereira/projetodas_np.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

```
C:\Users\nunop\Desktop\FinalDAS>git checkout develop
Switched to branch 'develop'

C:\Users\nunop\Desktop\FinalDAS>git pull origin master
From https://github.com/nunooppereira/projetodas_np
 * branch            master      -> FETCH_HEAD
Updating 92796b4..b0ba9d6
Fast-forward
 .gitignore | 2 ++
1 file changed, 2 insertions(+)
create mode 100644 .gitignore

C:\Users\nunop\Desktop\FinalDAS>
```



Ao seguir os seguintes passos, o ficheiro “**.gitignore**”, vai ser criado.

5. Controlar versões do relatório

a. 1 Carregamento inicial

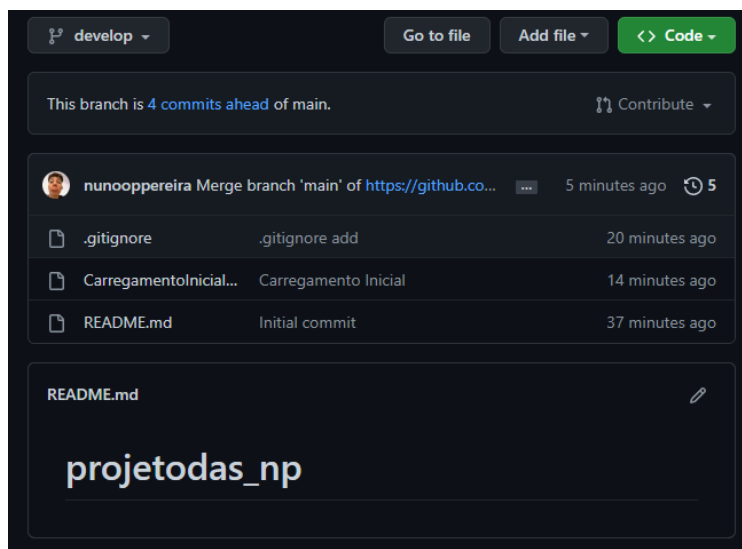
Adicionar o ficheiro à pasta

Executar os comandos:

Git add .

git commit -m "Relatório Inicial"

git push origin develop



b. 5 alterações no próprio branch

Executar os seguintes comando:

git flow feature start “nome que queremos dar”

[COLOCAR AS ALTERAÇÕES NA PASTA]

Continuar a executar os seguintes comandos:

git add .

git commit -m "alterações"

git flow feature finish nome

git push origin develop

```
nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git flow feature start Primeiro
Switched to a new branch 'feature/Primeiro'

Summary of actions:
- A new branch 'feature/Primeiro' was created, based on 'develop'
- You are now on branch 'feature/Primeiro'

Now, start committing on your feature. When done, use:

    git flow feature finish Primeiro

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Primeiro)
$ git add .

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Primeiro)
$ git commit -m "Primeira alteração"
[feature/Primeiro 7b31383] Primeira alteração
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Relatorio.pdf

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Primeiro)
$ git flow feature finish Primeiro
Switched to branch 'develop'
Updating a21f331..7b31383
Fast-forward
 Relatorio.pdf | Bin 0 -> 672788 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Relatorio.pdf
Deleted branch feature/Primeiro (was 7b31383).

Summary of actions:
- The feature branch 'feature/Primeiro' was merged into 'develop'
- Feature branch 'feature/Primeiro' has been locally deleted
- You are now on branch 'develop'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git push origin develop
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 606.67 KiB | 8.79 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
 a21f331..7b31383 develop -> develop

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ |
```

```
nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git flow feature start Segundo
Switched to a new branch 'feature/Segundo'
M Relatorio.pdf

Summary of actions:
- A new branch 'feature/Segundo' was created, based on 'develop'
- You are now on branch 'feature/Segundo'

Now, start committing on your feature. When done, use:

    git flow feature finish Segundo

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Segundo)
$ git add .

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Segundo)
$ git commit -m "Segundas Alterações"
[feature/Segundo cef9d37] Segundas Alterações
1 file changed, 0 insertions(+), 0 deletions(-)

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Segundo)
$ git flow feature finish Segundo
Switched to branch 'develop'
Updating 7b31383..cef9d37
Fast-forward
 Relatorio.pdf | Bin 672788 -> 731839 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/Segundo (was cef9d37).

Summary of actions:
- The feature branch 'feature/Segundo' was merged into 'develop'
- Feature branch 'feature/Segundo' has been locally deleted
- You are now on branch 'develop'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 56.21 KiB | 3.12 MiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
 7b31383..cef9d37 develop -> develop

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ |
```

```

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git flow feature start Terceira
Switched to a new branch 'feature/Terceira'

Summary of actions:
- A new branch 'feature/Terceira' was created, based on 'develop'
- You are now on branch 'feature/Terceira'

Now, start committing on your feature. When done, use:

    git flow feature finish Terceira

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Terceira)
$ git add .

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Terceira)
$ git commit -m "Terceiras Alterações"
[feature/Terceira 6881161] Terceiras Alterações
1 file changed, 0 insertions(+), 0 deletions(-)

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Terceira)
$ git flow feature finish Terceira
Switched to branch 'develop'
Updating cef9d37..6881161
Fast-forward
 Relatorio.pdf | Bin 731839 -> 789087 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/Terceira (was 6881161).

Summary of actions:
- The feature branch 'feature/Terceira' was merged into 'develop'
- Feature branch 'feature/Terceira' has been locally deleted
- You are now on branch 'develop'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 54.51 KiB | 2.18 MiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
   cef9d37..6881161  develop -> develop

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)

```

```

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git flow feature start Quarta
Switched to a new branch 'feature/Quarta'

Summary of actions:
- A new branch 'feature/Quarta' was created, based on 'develop'
- You are now on branch 'feature/Quarta'

Now, start committing on your feature. When done, use:

    git flow feature finish Quarta

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quarta)
$ git add .

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quarta)
$ git commit -m "Quartas Alterações"
[feature/Quarta 90a1bd8] Quartas Alterações
1 file changed, 0 insertions(+), 0 deletions(-)

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quarta)
$ git flow feature finish Quarta
Switched to branch 'develop'
Updating 6881161..90a1bd8
Fast-forward
 Relatorio.pdf | Bin 789087 -> 845784 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/Quarta (was 90a1bd8).

Summary of actions:
- The feature branch 'feature/Quarta' was merged into 'develop'
- Feature branch 'feature/Quarta' has been locally deleted
- You are now on branch 'develop'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 53.44 KiB | 1.67 MiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
   6881161..90a1bd8  develop -> develop

```

```

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git flow feature start Quinta
Switched to a new branch 'feature/Quinta'

Summary of actions:
- A new branch 'feature/Quinta' was created, based on 'develop'
- You are now on branch 'feature/Quinta'

Now, start committing on your feature. When done, use:

    git flow feature finish Quinta

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quinta)
$ git add .

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quinta)
$ git commit -m "Quinta Alteração"
[feature/Quinta 9e22193] Quinta Alteração
1 file changed, 0 insertions(+), 0 deletions(-)

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quinta)
$ git flow feature finish Quinta
Fatal: Branch 'feature/Quinta' does not exist and is required.

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (feature/Quinta)
$ git flow feature finish Quinta
Switched to branch 'develop'
Updating 90a1bd8..9e22193
Fast-forward
 Relatorio.pdf | Bin 845784 -> 890252 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/Quinta (was 9e22193).

Summary of actions:
- The feature branch 'feature/Quinta' was merged into 'develop'
- Feature branch 'feature/Quinta' has been locally deleted
- You are now on branch 'develop'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 42.39 KiB | 2.35 MiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
   90a1bd8..9e22193  develop -> develop

```

c. Uma release

Executar os seguintes comandos:

```
git flow release start v1.0.0 develop
```

[COLOCAR AS ALTERAÇÕES NA PASTA]

```
git add .
```

```
git commit -m "Teste Release"
```

```
git flow release publish v1.0.0
```

```
git flow release finish v1.0.0 -m "Release 1.0"
```

```
git push origin master
```

```
nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git flow release start v1.0.0 develop
Switched to a new branch 'release/v1.0.0'

Summary of actions:
- A new branch 'release/v1.0.0' was created, based on 'develop'
- You are now on branch 'release/v1.0.0'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish 'v1.0.0'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (release/v1.0.0)
$ git add .

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (release/v1.0.0)
$ git commit -m "Teste release"
[release/v1.0.0 e0b7e81] Teste release
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (release/v1.0.0)
$ git flow release publish v1.0.0
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 30.50 KiB | 2.18 MiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'release/v1.0.0' on GitHub by visiting:
remote:   https://github.com/DAS-Projeto-NunoPereira/projetodas_np/pull/new/release/v1.0.0
remote:
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
 * [new branch]      release/v1.0.0 -> release/v1.0.0
branch 'release/v1.0.0' set up to track 'origin/release/v1.0.0'.
Already on 'release/v1.0.0'
Your branch is up to date with 'origin/release/v1.0.0'.

Summary of actions:
- The remote branch 'release/v1.0.0' was created or updated
- The local branch 'release/v1.0.0' was configured to track the remote branch
- You are now on branch 'release/v1.0.0'

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (release/v1.0.0)
$ git flow release finish v1.0.0 -m "Release 1.0.0"
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
Merge made by the 'ort' strategy.
 CarregamentoInicial.pdf | Bin 0 -> 9778 bytes
 README.md                | 1 +
 Relatorio.pdf             | Bin 0 -> 905757 bytes
3 files changed, 1 insertion(+)
 create mode 100644 CarregamentoInicial.pdf
 create mode 100644 README.md
 create mode 100644 Relatorio.pdf
Already on 'master'
Your branch is ahead of 'origin/master' by 11 commits.
(use 'git push' to publish your local commits)
Switched to branch 'develop'
Merge made by the 'ort' strategy.
 Relatorio.pdf | Bin 904190 -> 905757 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
- [deleted]      release/v1.0.0
Deleted branch release/v1.0.0 (was e0b7e81).

Summary of actions:
- Release branch 'release/v1.0.0' has been merged into 'master'
- The release was tagged 'v1.0.0'
- Release tag 'v1.0.0' has been back-merged into 'develop'
- Release branch 'release/v1.0.0' has been locally deleted; it has been remotely deleted from 'origin'
- You are now on branch 'develop'
```

```
nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
$ git push origin master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 30.63 KiB | 1.46 MiB/s, done.
Total 4 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 2 local objects.
To https://github.com/DAS-Projeto-NunoPereira/projetodas_np.git
 5677664..89438a5  master -> master

nunop@LAPTOP-FK46G5LP MINGW64 ~/desktop/FinalDAS (develop)
```

d. Hotfix

Executar os seguintes comandos:

[Adicionar o ficheiro à pasta]

```
git add .
git commit -m "Hotfix"
git push origin develop
git checkout master
git push origin develop
git checkout master
git pull origin develop
git push origin master
```