

# Git and Github

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cys first year

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odin#8935

## init:

Cmdr

```
C:\Users\prana\OneDrive\Documents\Cogni
λ git init
Initialized empty Git repository in C:/Users/prana/OneDrive/Documents/Cogni/.git/

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ echo 'the previous command will initialize the folder as repository'
'the previous command will initialize the folder as repository'

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ
```

```
C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git status
On branch master

No commits yet

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

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

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ |
```

## status: & add(stage)

```
C:\Users\prana\OneDrive\Documents\Cogni(master) nellyyapp
λ ls
index.html Kindle Cloud Reader latest study railwire stuff amrita

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git status
On branch master

No commits yet

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

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

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git add .

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git status
On branch master

No commits yet

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

```
C:\Users\prana\OneDrive\Documents\Cogni(master)
λ echo staged the file index.html
staged the file index.html

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ |
```

## commit:

```
C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git commit -m twoheadings
[master (root-commit) 3d07a30] twoheadings
 1 file changed, 7 insertions(+)
 create mode 100644 index.html

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git status
On branch master
nothing to commit, working tree clean

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git log
commit 3d07a30804a9e559c688e49bf125f447906e24bb (HEAD -> master)
Author: pranavp0 <pranavaghoram@gmail.com>
Date:   Mon Feb 14 17:51:26 2022 +0530

    twoheadings

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ echo committed the work
committed the work

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ
```

## log:

```
C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git log
commit 1017b5d757181bc3e8ac53ddb8fa132c9b3a814c (HEAD -> master)
Author: pranavp0 <pranavaghoram@gmail.com>
Date: Mon Feb 14 17:54:38 2022 +0530

    threeheadings

commit 3d07a30804a9e559c688e49bf125f447906e24bb
Author: pranavp0 <pranavaghoram@gmail.com>
Date: Mon Feb 14 17:51:26 2022 +0530

    twoheadings

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git log --oneline'
fatal: unrecognized argument: --oneline'

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git log --oneline
1017b5d (HEAD -> master) threeheadings
3d07a30 twoheadings

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ |
```

Logs of committed history.

**Checkout:**

```

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git checkout 3d07a30
Note: switching to '3d07a30'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 3d07a30 twoheadings
C:\Users\prana\OneDrive\Documents\Cogni(HEAD detached at 3d07a30)
λ git checkout master
Previous HEAD position was 3d07a30 twoheadings
Switched to branch 'master'

```

‘git checkout master’ will revert the code to the last saved code.

```

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git checkout test1
Switched to branch 'test1'

C:\Users\prana\OneDrive\Documents\Cogni(test1)
λ git checkout master
Switched to branch 'master'

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ echo use 'git branch branchname' to create a new branch
use 'git branch branchname' to create a new branch

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ echo use ' git checkout test1' to switch branches
use ' git checkout test1' to switch branches

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ echo use ' git branch -a' to view all the branches
use ' git branch -a' to view all the branches

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ

```

## Checkout -b :

```

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git checkout -b test2
Switched to a new branch 'test2'

C:\Users\prana\OneDrive\Documents\Cogni(test2)
λ git branch -a
  master
  test1
* test2

C:\Users\prana\OneDrive\Documents\Cogni(test2)
λ echo this command 'git checkout -b test2' will create and switch to new branch immediately
this command 'git checkout -b test2' will create and switch to new branch immediately

C:\Users\prana\OneDrive\Documents\Cogni(test2)
λ |

```

## Merge:

```

C:\Users\prana\OneDrive\Documents\Cogni(test1)
λ git status
On branch test1
nothing to commit, working tree clean

C:\Users\prana\OneDrive\Documents\Cogni(test1)
λ git checkout master
Switched to branch 'master'

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git merge test1
Updating 69f76d8..1f1e059
Fast-forward
 readme.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 readme.txt

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ |

```

## push:

```

C:\Users\prana\OneDrive\Documents\Cogni(master)
λ git branch -M main

C:\Users\prana\OneDrive\Documents\Cogni(main)
λ git remote add origin https://github.com/pranavp0/Cognizance.git
error: remote origin already exists.

C:\Users\prana\OneDrive\Documents\Cogni(main)
λ git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 4 threads
Compressing objects: 100% (13/13), done.
Writing objects: 100% (16/16), 1.61 KiB | 823.00 KiB/s, done.
Total 16 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/pranavp0/Cognizance.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ |

```

```

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git push
Everything up-to-date

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ

```

**pull:**

```

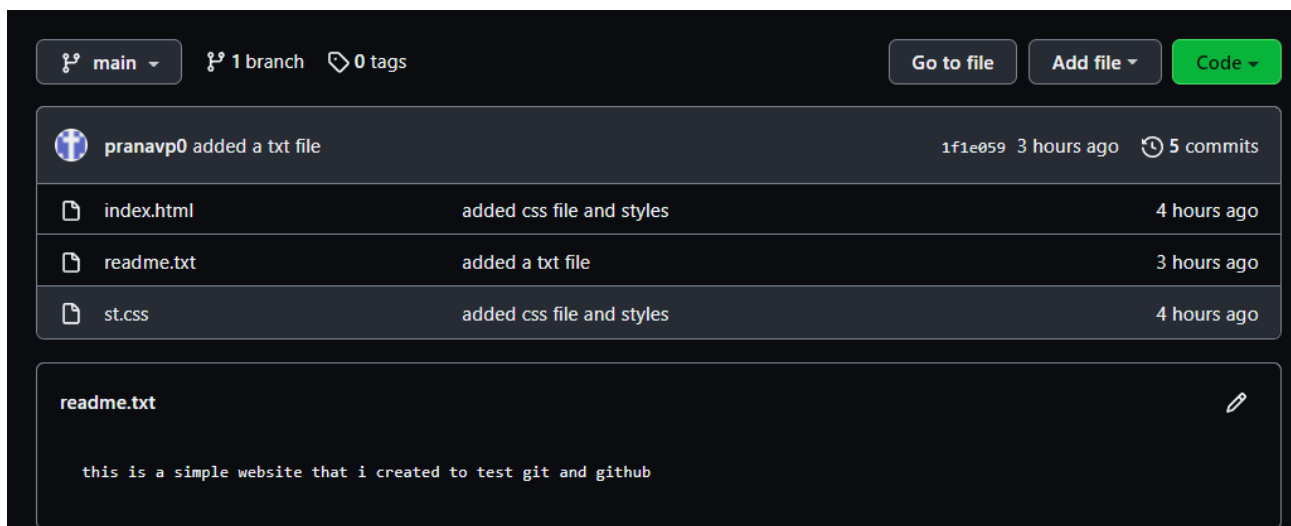
C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ ls
Cognizance/ index.html st.css

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git pull
Updating 69f76d8..1f1e059
Fast-forward
 readme.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 readme.txt

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ ls
Cognizance/ index.html readme.txt st.css

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ

```



**git config --list --show-origin:**



```

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig core.editor="C:\\Program Files\\Notepad++\\notepad++.exe" -multiInst -notabbar -nosession -noPlugin
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttppath=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/prana/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/prana/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/prana/.gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Users/prana/.gitconfig filter.lfs.required=true
file:C:/Users/prana/.gitconfig user.name=pranavp0
file:C:/Users/prana/.gitconfig user.email=pranavaghoram@gmail.com
file:.git/config core.repositoryformatversion=0
file:.git/config core.filemode=false
file:.git/config core.bare=false
file:.git/config core.logallrefupdates=true
file:.git/config core.symlinks=false
file:.git/config core.ignorecase=true
file:.git/config remote.origin.url=https://github.com/pranavp0/Cognizance.git
file:.git/config remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config branch.main.remote=origin
file:.git/config branch.main.merge=refs/heads/main

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ |

```

### ...or create a new repository on the command line

```

echo "# Cognizance" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/pranavp0/Cognizance.git
git push -u origin main

```

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main

1 branch

0 tags

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pranavp0 added a txt file

11e059 3 hours ago 5 commits

index.html

added css file and styles

3 hours ago

readme.txt

added a txt file

3 hours ago

st.css

added css file and styles

3 hours ago

readme.txt

this is a simple website that i created to test git and github

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

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Create a new release

Packages

No packages published

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HTML 76.7%

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connected local repository(git) with remote repository(github).

## Clone:

```
C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git clone https://github.com/pranavp0/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 16, done.
Receiving objects: 100% (16/16), done.
Resolving deltas: 100% (3/3), done.6)Resolving deltas: 0% (0/3)
remote: Counting objects: 100% (16/16), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 16 (delta 3), reused 16 (delta 3), pack-reused 0

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ ls
Cognizance/  index.html  README.md  readme.txt  st.css
```

## Reset:

```
C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git log --oneline
1f1e059 (HEAD -> main, origin/main, test1) added a txt file
69f76d8 (test2) added css file and styles
e31c4df threeheadingscentered
1017b5d threeheadings
3d07a30 twoheadings

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ ls
Cognizance/  index.html  README.md  readme.txt  st.css

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git reset 69f76d8 --hard
HEAD is now at 69f76d8 added css file and styles

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git log --oneline
69f76d8 (HEAD -> main, test2) added css file and styles
e31c4df threeheadingscentered
1017b5d threeheadings
3d07a30 twoheadings

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ ls
Cognizance/  index.html  st.css

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ
```

## rebase:

```
C:\Users\prana\OneDrive\Documents\Cogni(test3)
λ git rebase main
Current branch test3 is up to date.

C:\Users\prana\OneDrive\Documents\Cogni(test3)
λ git checkout

C:\Users\prana\OneDrive\Documents\Cogni(test3)
λ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ git rebase test3
Successfully rebased and updated refs/heads/main.

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ ls
index.html  readme.txt  st.css  test.txt

C:\Users\prana\OneDrive\Documents\Cogni(main -> origin)
λ |
```