

```
a)
daniel@sh2:~$ git config --global user.name "dacomol920daw2"
daniel@sh2:~$ git config --global user.email dacomol920@gmail.com
daniel@sh2:~$ git config --global core.editor nano
-----

b)
daniel@sh2:~$ mkdir m08uf4pr2
daniel@sh2:~$ cd m08uf4pr2
daniel@sh2:~/m08uf4pr2$ mkdir mitjanana
daniel@sh2:~/m08uf4pr2$ cd mitjanana
daniel@sh2:~/m08uf4pr2/mitjanana$ wget http://www.collados.org/daw2/m08/uf4/mitjanana.c
daniel@sh2:~/m08uf4pr2/mitjanana$ wget http://www.collados.org/daw2/m08/uf4/README
-----

c)
daniel@sh2:~/m08uf4pr2/mitjanana$ git init
Initialized empty Git repository in /home/daniel/m08uf4pr2/mitjanana/.git/
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
#
# Initial commit
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#   README
#   mitjanana.c
nothing added to commit but untracked files present (use "git add" to track)
-----

d)
daniel@sh2:~/m08uf4pr2/mitjanana$ git add mitjanana.c README (o git add *)
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#   new file:   README
#   new file:   mitjanana.c
#
-----

e)
daniel@sh2:~/m08uf4pr2/mitjanana$ nano mitjanana.c
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#   new file:   README
#   new file:   mitjanana.c
#
# 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:   mitjanana.c
#
-----

f)
daniel@sh2:~/m08uf4pr2/mitjanana$ git commit -m "Primer commit del projecte mitjanana"
[master (root-commit) 18cf2c2] Primer commit del projecte mitjanana
 2 files changed, 26 insertions(+)
 create mode 100644 README
 create mode 100644 mitjanana.c
-----

g)
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:   mitjanana.c
#
no changes added to commit (use "git add" and/or "git commit -a")
```

```
h)
daniel@sh2:~/m08uf4pr2/mitjanana$ git add mitjanana.c
daniel@sh2:~/m08uf4pr2/mitjanana$ git commit -m "Segon commit del projecte mitjanana"
[master aa2b779] Segon commit del projecte mitjanana
 1 file changed, 1 insertion(+), 1 deletion(-)
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
nothing to commit (working directory clean)
```

```
i)
gcc mitjanana.c -o mitjanana
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#   mitjanana
nothing added to commit but untracked files present (use "git add" to track)
```

```
j)
nano .gitignore
daniel@sh2:~/m08uf4pr2/mitjanana$ gcc mitjanana.c -save-temps -o mitjana
daniel@sh2:~/m08uf4pr2/mitjanana$ ls
mitjanana mitjanana.c mitjanana.i mitjanana.o mitjanana.s README
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
nothing to commit (working directory clean)
```

```
k)
git add mitjanana
The following paths are ignored by one of your .gitignore files:
mitjanana
Use -f if you really want to add them.
fatal: no files added
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
nothing to commit (working directory clean)
```

```
l)
daniel@sh2:~/m08uf4pr2/mitjanana$ nano mitjanana.c
daniel@sh2:~/m08uf4pr2/mitjanana$ 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:   mitjanana.c
#
no changes added to commit (use "git add" and/or "git commit -a")
daniel@sh2:~/m08uf4pr2/mitjanana$ git add mitjanana.c
daniel@sh2:~/m08uf4pr2/mitjanana$ git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#   modified:   mitjanana.c
#
```

```
m)
daniel@sh2:~/m08uf4pr2/mitjana$ nano mitjanana.c
daniel@sh2:~/m08uf4pr2/mitjana$ git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
```

```
# modified: mitjanana.c
#
# 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: mitjanana.c
#
```

```
-----
n)
daniel@sh2:~/m08uf4pr2/mitjana$ git log
commit aa2b7795673b2997a467a9278805f7291449ccf5 (HEAD -> master)
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:50:22 2019 +0200
```

Segon commit del projecte mitjana

```
commit 18cf2c214ea5b9fe039413a9279d57747fcc5fd3
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:49:12 2019 +0200
```

Primer commit del projecte mitjana

```
-----
o)
daniel@sh2:~/m08uf4pr2/mitjana$ git add mitjanana.c
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git commit -m "Tercer commit del programa mitjanana"
[master db1d145] Tercer commit del programa mitjanana
1 file changed, 1 insertions(+), 1 deletions(-)
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git status
# On branch master
nothing to commit (working directory clean)
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git log
commit db1d145c6072b50c23cb85106a9de2626cc3b863 (HEAD -> master)
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 14:07:20 2019 +0200
```

Tercer commit del programa mitjanana

```
commit aa2b7795673b2997a467a9278805f7291449ccf5
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:50:22 2019 +0200
```

Segon commit del projecte mitjanana

```
commit 18cf2c214ea5b9fe039413a9279d57747fcc5fd3
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:49:12 2019 +0200
```

Primer commit del projecte mitjanana

NOTA --> Estem a la branca "master" com es comprova al principi de git status

```
-----
p)
daniel@sh2:~/m08uf4pr2/mitjana$ git remote add origin https://github.com/dacomo1920daw2/mitjanana.git
daniel@sh2:~/m08uf4pr2/mitjana$ git remote -v
origin https://github.com/dacomo1920daw2/mitjanana.git (fetch)
origin https://github.com/dacomo1920daw2/mitjanana.git (push)
```

```
Username for 'https://github.com': dacomo1920daw2
Password for 'https://dacomo1920daw2@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (10/10), 1.14 KiB | 1.14 MiB/s, done.
Total 10 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/dacomo1920daw2/mitjanana.git
* [new branch] master -> master
```

```
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

```
-----
q)
daniel@sh2:~$ mkdir m08uf4pr2_clone
daniel@sh2:~$ cd m08uf4pr2_clone

daniel@sh2:~m08uf4pr2_clone/$ git clone https://github.com/dacomo1920daw2/mitjanana.git mitjanana
Cloning into 'mitjanana'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 10 (delta 2), reused 10 (delta 2), pack-reused 0
Unpacking objects: 100% (10/10), done.
```

```
daniel@sh2:~/m08uf4pr2_clone$ ls -ls
total 4
4 drwxr-xr-x 3 daniel daniel 4096 oct 13 14:34 mitjanana
daniel@sh2:~/m08uf4pr2_clone$ cd mitjanana
daniel@sh2:~/m08uf4pr2_clone/mitjana$ ls -la
total 20
4 drwxr-xr-x 3 daniel daniel 4096 oct 13 14:34 .
4 drwxr-xr-x 3 daniel daniel 4096 oct 13 14:34 ..
4 drwxr-xr-x 8 daniel daniel 4096 oct 13 14:34 .git
4 -rw-r--r-- 1 daniel daniel 449 oct 13 14:34 mitjanana.c
4 -rw-r--r-- 1 daniel daniel 130 oct 13 14:34 README
```

```
daniel@sh2:~/m08uf4pr2_clone/mitjana$ git status
# On branch master
nothing to commit (working directory clean)
daniel@sh2:~/m08uf4pr2_clone/mitjana$ git log
commit db1d145c6072b50c23cb85106a9de2626cc3b863 (HEAD -> master, origin/master, origin/HEAD)
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 14:07:20 2019 +0200
```

Tercer commit del programa mitjanana

```
commit aa2b7795673b2997a467a9278805f7291449ccf5
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:50:22 2019 +0200
```

Segon commit del projecte mitjana

```
commit 18cf2c214ea5b9fe039413a9279d57747fcc5fd3
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:49:12 2019 +0200
```

Primer commit del projecte mitjana

```
-----
r)
daniel@sh2:~/m08uf4pr2_clone/mitjanana$ nano mitjanana.c

daniel@sh2:~/m08uf4pr2_clone/mitjanana$ git add mitjanana.c
daniel@sh2:~/m08uf4pr2_clone/mitjanana$ git commit -m "Quart commit del programa mitjanana"
[master 08cf3d9] Quart commit del projecte mitjanana
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
daniel@sh2:~/m08uf4pr2_clone/mitjanana$ git push -u origin master
Username for 'https://github.com': dacomo1920daw2
Password for 'https://dacomo1920daw2@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/dacomo1920daw2/mitjanana.git
db1d145..08cf3d9 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

```
-----
s)
daniel@sh2:~/m08uf4pr2_clone/mitjana$ cd ..
```

```
daniel@sh2:~/m08uf4pr2_clone$ cd ..
daniel@sh2:~$ cd m08uf4pr2
daniel@sh2:~/m08uf4pr2$ cd mitjana/
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/dacomol1920daw2/mitjana
 * branch          master      -> FETCH_HEAD
   db1d145..08cf3d9 master     -> origin/master
Updating db1d145..08cf3d9
Fast-forward
 mitjana.c | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

t) (Veure exemples al final de <https://git-scm.com/docs/git-diff>)

```
daniel@sh2:~/m08uf4pr2/mitjana$ nano mitjana.c
daniel@sh2:~/m08uf4pr2/mitjana$ git add mitjana.c
daniel@sh2:~/m08uf4pr2/mitjana$ nano mitjana.c
daniel@sh2:~/m08uf4pr2/mitjana$ git status
# On branch master
# Your branch is ahead of 'origin/master' by 1 commit.
#
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#   modified:   mitjana.c
#
# 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:   mitjana.c
#
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git diff --> Diferències entre working directory i index(staged) area
diff --git a/mitjana.c b/mitjana.c
index e539964..9147833 100644
--- a/mitjana.c
+++ b/mitjana.c
@@ -7,7 +7,7 @@ int main() {
     int numero_repeticions=0;
     char consulta='y';

-     while(consulta=='s') { --> en vermell
+     while(consulta=='y') { --> en verd
         printf("Dona la següent dada: ");
         scanf("%f",&nou_valor);
         suma=suma+nou_valor;
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git diff HEAD --> Diferències entre working directory i darrer commit
diff --git a/mitjana.c b/mitjana.c
index f3e680a..9147833 100644
--- a/mitjana.c
+++ b/mitjana.c
@@ -5,9 +5,9 @@ int main() {
     float mitjana=0.0;
     float nou_valor=0.0;
     int numero_repeticions=0;
-     char consulta='s'; --> en vermell
+     char consulta='y'; --> en verd

-     while(consulta=='s') { --> en vermell
+     while(consulta=='y') { --> en verd
         printf("Dona la següent dada: ");
         scanf("%f",&nou_valor);
         suma=suma+nou_valor;
```

```
daniel@sh2:~/m08uf4pr2/mitjana$ git diff --cached --> Diferències entre staged(index) area i darrer
```

```
commit
diff --git a/mitjana.c b/mitjana.c
index f3e680a..e539964 100644
--- a/mitjana.c
+++ b/mitjana.c
@@ -5,7 +5,7 @@ int main() {
    float mitjana=0.0;
    float nou_valor=0.0;
    int numero_repeticions=0;
-   char consulta='s'; --> en vermell
+   char consulta='y'; --> en verd

    while(consulta=='s') {
        printf("Dona la següent dada: ");
```

u) daniel@sh2:~/m08uf4pr2/mitjana\$ git reset mitjana.c (o git reset HEAD mitjana.c)

Unstaged changes after reset:

M mitjana.c

daniel@sh2:~/m08uf4pr2/mitjana\$ git status

On branch master

Your branch is up to date with 'origin/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: mitjana.c

#

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

v) <http://rogerdudler.github.io/git-guide/>

daniel@sh2:~/m08uf4pr2/mitjana\$ git checkout HEAD mitjana.c (o git checkout -- mitjana.c)

daniel@sh2:~/m08uf4pr2/mitjana\$ nano mitjana.c

Comprovo que el fitxer torna a ser el del darrer commit sense els canvis a l'apartat t), de manera que la variable consulta és igual a 's' una altra vegada a la línia 8 i dins del while de la línia 10 es torna a fer la comparació consulta=='s'.

w)NOTA: Recorda que master~1 és el penúltim commit, master~2 l'antepenúltim.....

daniel@sh2:~/m08uf4pr2/mitjana\$ git checkout master~2 mitjana.c

o també

daniel@sh2:~/m08uf4pr2/mitjana\$ git checkout aa2b7795673b2997a467a9278805f7291449ccf5 mitjana.c

daniel@sh2:~/m08uf4pr2/mitjana\$ git checkout aa2b779 mitjana.c (només el 7 primers)

Comprova que ara mitjana.c té el codi del segon commit.

x)

daniel@sh2:~/m08uf4pr2/mitjana\$ git log

commit 08cf3d9a344e2b81108a12783996d05b6080665a (HEAD -> master, origin/master)

Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>

Date: Tue Oct 13 14:32:22 2019 +0200

Quart commit del projecte mitjana

commit db1d145c6072b50c23cb85106a9de2626cc3b863

Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>

Date: Tue Oct 13 14:07:20 2019 +0200

Tercer commit del projecte mitjana

commit aa2b7795673b2997a467a9278805f7291449ccf5

Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>

Date: Tue Oct 13 13:50:22 2019 +0200

Segon commit del projecte mitjana

commit 18cf2c214ea5b9fe039413a9279d57747fcc5fd3

Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>

Date: Tue Oct 13 13:49:12 2019 +0200

Primer commit del projecte mitjana

```
daniel@sh2:~/m08uf4pr2/mitjana$ git reset --hard HEAD~1
HEAD is now at db1d145 Tercer commit del projecte mitjana
```

```
daniel@sh3:~/m08uf4pr2/mitjana$ git log
commit db1d145c6072b50c23cb85106a9de2626cc3b863 (HEAD -> master)
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 14:07:20 2019 +0200
```

Tercer commit del projecte mitjana

```
commit aa2b7795673b2997a467a9278805f7291449ccf5
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:50:22 2019 +0200
```

Segon commit del projecte mitjana

```
commit 18cf2c214ea5b9fe039413a9279d57747fcc5fd3
Author: dacomo1920daw2 <dacomo1920daw2@gmail.com>
Date: Tue Oct 13 13:49:12 2019 +0200
```

Primer commit del projecte mitjana

```
daniel@sh3:~/m08uf4pr2/mitjana$
```

y) En el cas d'incendi o simulacre d'incendi, feu un commit del vostre projecte al dipòsit local del vostre ordinador, pugeu-lo després al vostre dipòsit remot i marxeu de l'edifici.