Download Git
Git version

```
●●●                    📁 mariamenany — -zsh — 80×24

Last login: Sun Apr 30 12:15:32 on console
The specified command ("completion") is invalid. For a list of available options
,
run "ng help".

Did you mean "analytics"?
[mariamenany@Mariams-MacBook-Pro ~ % git --version                              ]
git version 2.37.1 (Apple Git-137.1)
mariamenany@Mariams-MacBook-Pro ~ % ▮
```

Git Help results

```
●●●                       📁 mariamenany — -zsh — 143×44
mariamenany@Mariams-MacBook-Pro ~ % git help
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [--super-prefix=<path>] [--config-env=<name>=<envvar>]
           <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
   clone     Clone a repository into a new directory
   init      Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
   add       Add file contents to the index
   mv        Move or rename a file, a directory, or a symlink
   restore   Restore working tree files
   rm        Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
   bisect    Use binary search to find the commit that introduced a bug
   diff      Show changes between commits, commit and working tree, etc
   grep      Print lines matching a pattern
   log       Show commit logs
   show      Show various types of objects
   status    Show the working tree status

grow, mark and tweak your common history
   branch    List, create, or delete branches
   commit    Record changes to the repository
   merge     Join two or more development histories together
   rebase    Reapply commits on top of another base tip
   reset     Reset current HEAD to the specified state
   switch    Switch branches
   tag       Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
   fetch     Download objects and refs from another repository
   pull      Fetch from and integrate with another repository or a local branch
   push      Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
```
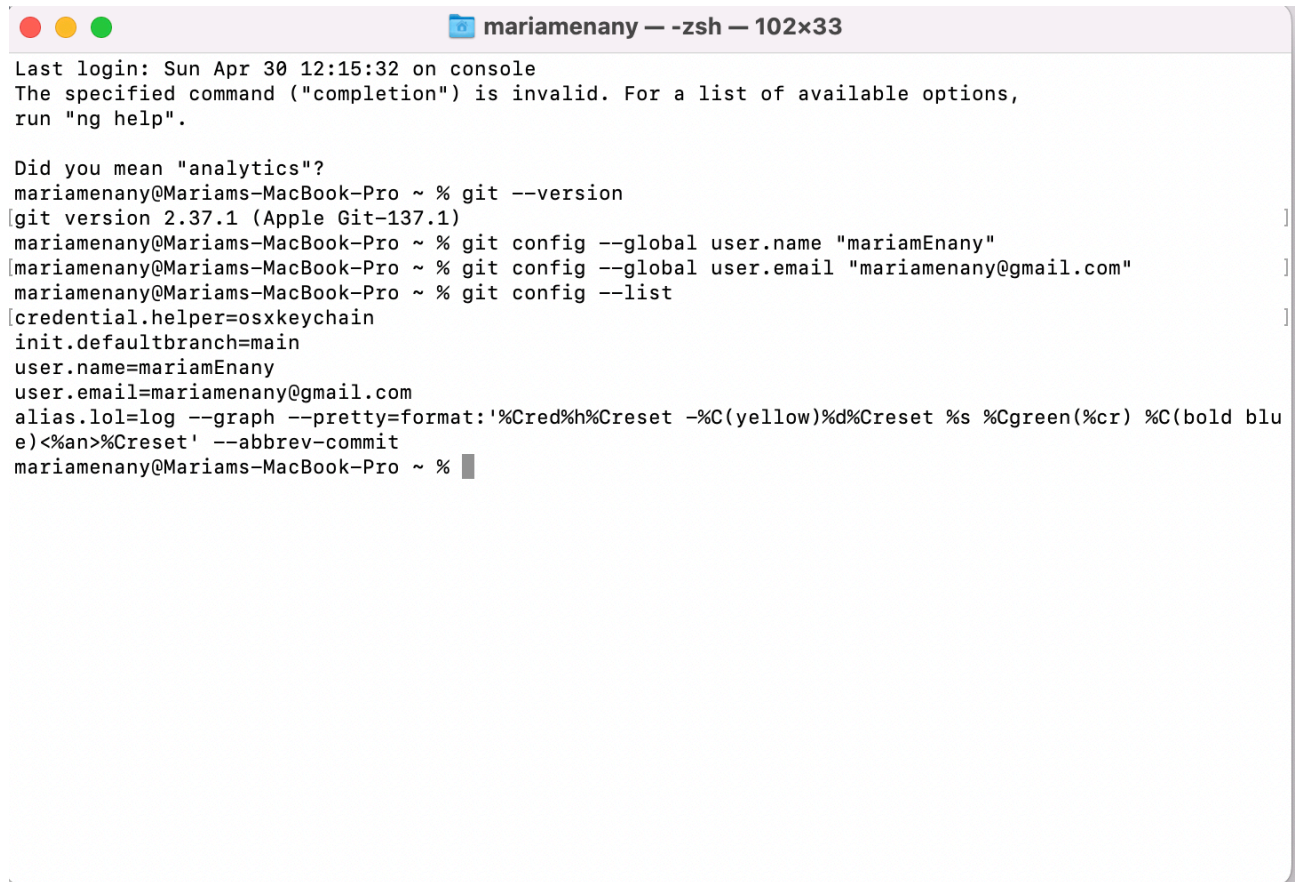
Configured user name and email

```
● ● ●                    🖥 mariamenany — -zsh — 102×33

Last login: Sun Apr 30 12:15:32 on console
The specified command ("completion") is invalid. For a list of available options,
run "ng help".

Did you mean "analytics"?
mariamenany@Mariams-MacBook-Pro ~ % git --version
[git version 2.37.1 (Apple Git-137.1)                                                            ]
mariamenany@Mariams-MacBook-Pro ~ % git config --global user.name "mariamEnany"
[mariamenany@Mariams-MacBook-Pro ~ % git config --global user.email "mariamenany@gmail.com"      ]
mariamenany@Mariams-MacBook-Pro ~ % git config --list
[credential.helper=osxkeychain                                                                   ]
init.defaultbranch=main
user.name=mariamEnany
user.email=mariamenany@gmail.com
alias.lol=log --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr) %C(bold blu
e)<%an>%Creset' --abbrev-commit
mariamenany@Mariams-MacBook-Pro ~ % █
```

Create a remote repository
screenshot of the CLI showing the cloning command result

```
mariamenany@Mariams-MacBook-Pro SWCM % git clone https://github.com/MariamEnany/Sprints-SWCM-Task.git
Cloning into 'Sprints-SWCM-Task'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

Commit the local repository
screenshot of the CLI showing the commit history

```
[mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git log                    ]
commit 08c232e41146f43ef89cba9dd68fa8ba3c2df533 (HEAD -> main)
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 12:38:45 2023 +0300

    first commit

commit 6b09c7cbd5fabfc82f6de91dc8554b97ddd801c4 (origin/main, origin/HEAD)
Author: Mariam Enany <57413850+MariamEnany@users.noreply.github.com>
Date:   Sun May 7 11:39:53 2023 +0300

    Initial commit
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % █
```

Push to the remote repository
screenshot of the CLI shows the push command results

```
[mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 293 bytes | 293.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/MariamEnany/Sprints-SWCM-Task.git
   6b09c7c..08c232e  main -> main
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % █
```

Create two branches

screenshot of the CLI shows the commit history

```
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git checkout featureX
Switched to branch 'featureX'
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git log
commit 3673b549914b49da225aa969169b46361b0d97ee (HEAD -> featureX)
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 13:13:07 2023 +0300

    featureX

commit 08c232e41146f43ef89cba9dd68fa8ba3c2df533 (origin/main, origin/HEAD, main)
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 12:38:45 2023 +0300

    first commit

commit 6b09c7cbd5fabfc82f6de91dc8554b97ddd801c4
Author: Mariam Enany <57413850+MariamEnany@users.noreply.github.com>
Date:   Sun May 7 11:39:53 2023 +0300

    Initial commit
```
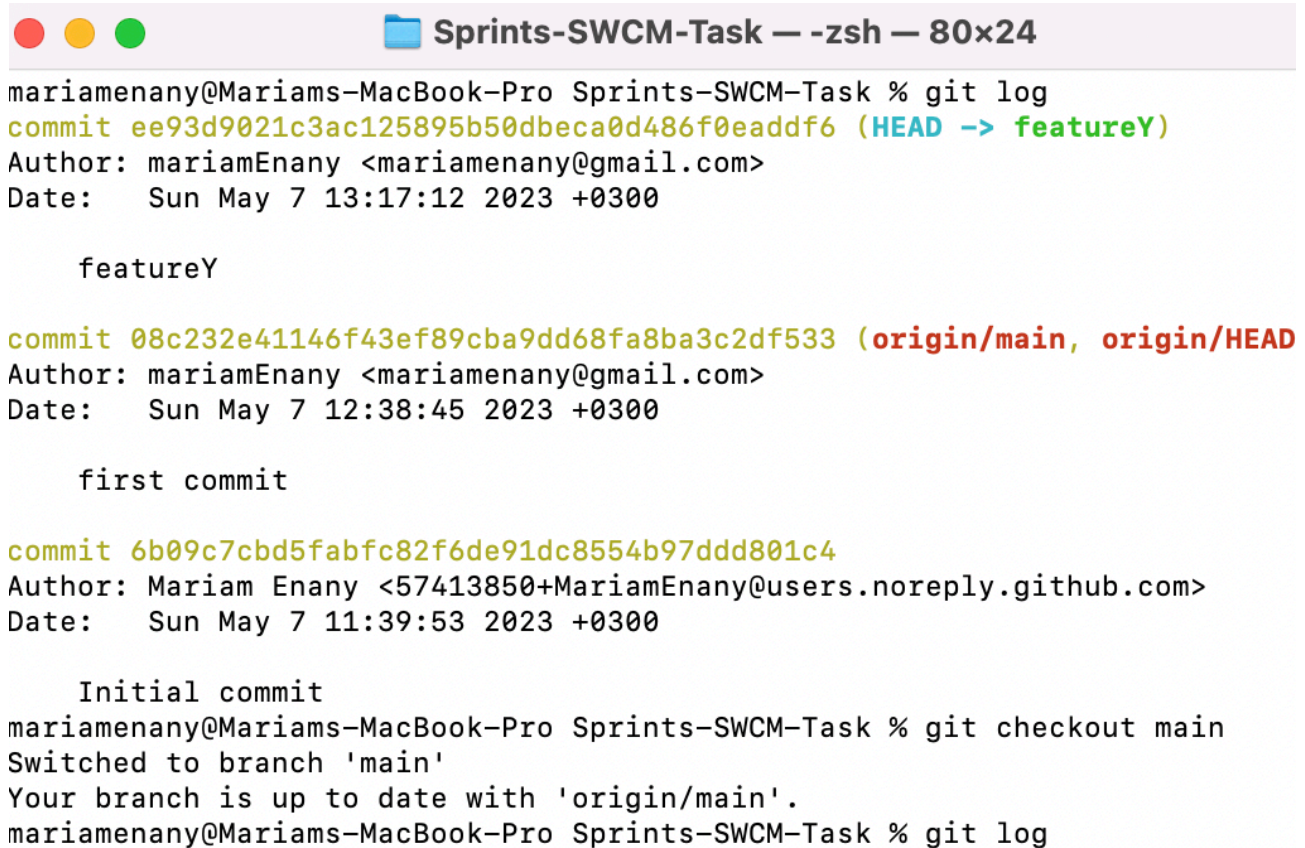
```
● ● ●              📁 Sprints-SWCM-Task — -zsh — 80×24
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git log
commit ee93d9021c3ac125895b50dbeca0d486f0eaddf6 (HEAD -> featureY)
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 13:17:12 2023 +0300

    featureY

commit 08c232e41146f43ef89cba9dd68fa8ba3c2df533 (origin/main, origin/HEAD
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 12:38:45 2023 +0300

    first commit

commit 6b09c7cbd5fabfc82f6de91dc8554b97ddd801c4
Author: Mariam Enany <57413850+MariamEnany@users.noreply.github.com>
Date:   Sun May 7 11:39:53 2023 +0300

    Initial commit
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git log
```

Merge All branches

1. Deliver a screenshot of the CLI after merging the featureX branch

```
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git merge featureX
Updating 08c232e..3673b54
Fast-forward
 .DS_Store  | Bin 0 -> 6148 bytes
 myfile.txt |   1 +
 2 files changed, 1 insertion(+)
 create mode 100644 .DS_Store
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % █
```

2. Deliver a screenshot of the CLI after merging the featureY branch
3. Deliver a screenshot of the CLI after resolving merge conflicts if any

```
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git pull
Already up to date.
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git checkout featureY
Switched to branch 'featureY'
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git merge main
Auto-merging myfile.txt
CONFLICT (content): Merge conflict in myfile.txt
Automatic merge failed; fix conflicts and then commit the result.
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git add .
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git commit -m "resolved conflict"
[featureY f474690] resolved conflict
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git merge master
merge: master - not something we can merge
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git merge main
Already up to date.
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git merge featureY
Updating 3673b54..f474690
Fast-forward
 myfile.txt | 4 +++-
 1 file changed, 3 insertions(+), 1 deletion(-)
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 597 bytes | 597.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/MariamEnany/Sprints-SWCM-Task.git
   3673b54..f474690  main -> main
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git branch --delete featureY
Deleted branch featureY (was f474690).
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % █
```

```
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % git log
commit f47469045b123b923aacc948f2c84be1a572204c (HEAD -> main, origin/main, orig
in/HEAD)
Merge: ee93d90 3673b54
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 14:27:29 2023 +0300

    resolved conflict

commit ee93d9021c3ac125895b50dbeca0d486f0eaddf6
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 13:17:12 2023 +0300

    featureY

commit 3673b549914b49da225aa969169b46361b0d97ee
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 13:13:07 2023 +0300

    featureX

commit 08c232e41146f43ef89cba9dd68fa8ba3c2df533
Author: mariamEnany <mariamenany@gmail.com>
Date:   Sun May 7 12:38:45 2023 +0300

    first commit

commit 6b09c7cbd5fabfc82f6de91dc8554b97ddd801c4
Author: Mariam Enany <57413850+MariamEnany@users.noreply.github.com>
Date:   Sun May 7 11:39:53 2023 +0300

    Initial commit
mariamenany@Mariams-MacBook-Pro Sprints-SWCM-Task % █
```