

Software Engineering

Planning

Designing

Development

Testing

Deployment

Maintenance



osama alwajeesh


```
Cmder

E:\software_engneering_osamaalwajeesh
λ git init
Initialized empty Git repository in E:/software_engneering_osamaalwajeesh/.git/

E:\software_engneering_osamaalwajeesh (main)
λ git config --global user.name "Osama Alwajeesh"

E:\software_engneering_osamaalwajeesh (main)
λ git config --global user.email "Osama100alwijh@gmail.com"

E:\software_engneering_osamaalwajeesh (main)
λ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=main
core.editor="C:\Users\Owner\AppData\Local\Programs\Microsoft VS Code\bin\code" --wait
user.email=Osama100alwijh@gmail.com
user.name=Osama Alwajeesh
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true

E:\software_engneering_osamaalwajeesh (main)
λ |
```

Git init
git config --glo user.email "osama100alwijh@gmail.com"
git config --global user.name "osama alwajeesh"



CSPS PROTOCOL

GIT INIT

GIT INIT COMMAND CREATES A NEW
GIT REPOSITORY



٢. إنشاء الملفات وإدارتها



```
Cmdr

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ echo "<!DOCTYPE html> <html> <head> <title>Software Engineering Lab</title> </head> <body> <h1>Welcome to IT4 Lab</h1> </body> </html>" > index.html

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ echo "print('Hello from Django')" > app.py

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ git status
HEAD detached at 9a66ed4
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   index.html
        deleted:    index1.html

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

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

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ git add index.html

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ
```

```
echo "continuct" namefele
```

```
git status
```


٣. إضافة الملفات وعمل Commit

```
Cmder

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

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ git add index.html

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ git add .

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 9a66ed4)
λ git commit -m "create file type websit"
[detached HEAD 27c0453] create file type websit
3 files changed, 2 insertions(+), 13 deletions(-)
create mode 100644 app.py
delete mode 100644 index1.html

E:\software_enigneering_osamaalwajeesh\lab1 (HEAD detached at 27c0453)
λ git log
commit 27c0453683b79fa7270274e5b47c19366888cea9 (HEAD)
Author: Osama Alwajeesh <Osama100alwijh@gmail.com>
Date: Mon Jul 21 00:06:12 2025 +0300

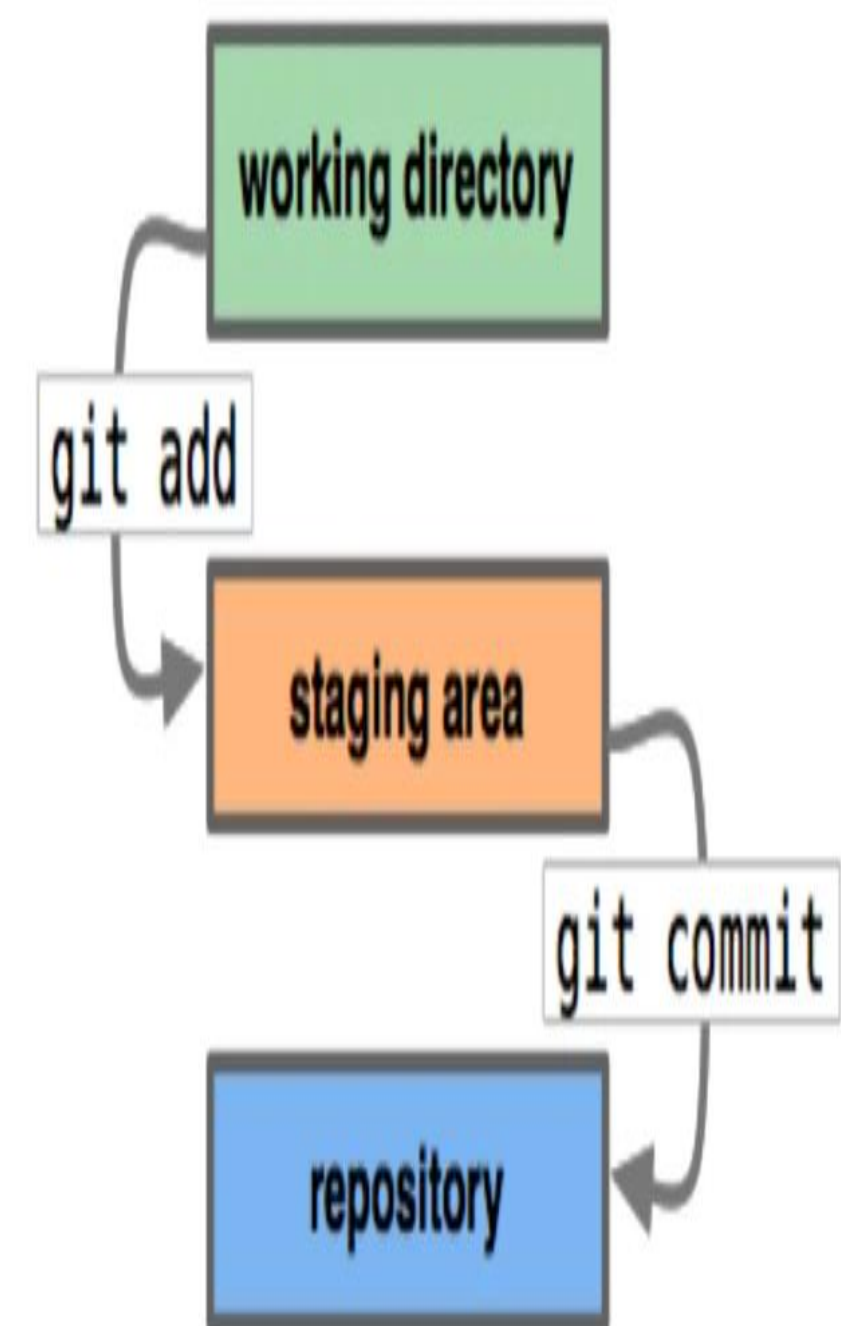
    create file type websit

commit 9a66ed41d12bfbef0ff57e0744b42791001e44cb3 (testing_branch, main)
Author: Osama Alwajeesh <Osama100alwijh@gmail.com>
Date: Sun Jul 20 22:28:23 2025 +0300

    index
```

```
git add firstAssignment.txt
git commit -m "First Assignment"
git log
```

Git work flow from work to commit





TECADMIN.NET

Git switch VS Checkout

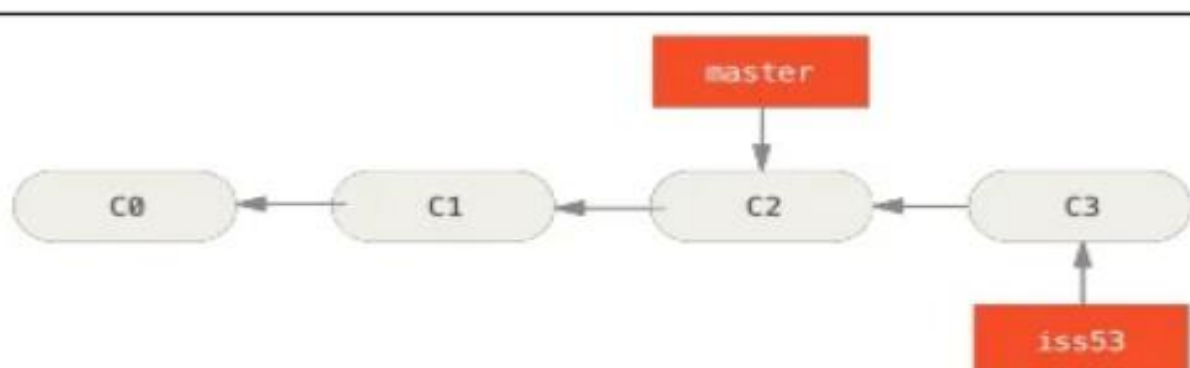
٤. العمل مع الفروع

```
index
E:\software_enigneering_osamaalwajeeh\lab1 (HEAD detached at 27c0453)
λ git branch development
E:\software_enigneering_osamaalwajeeh\lab1 (HEAD detached at 27c0453)
λ git branch
* (HEAD detached from 9a66ed4)
  development
  main
  testing_branch

E:\software_enigneering_osamaalwajeeh\lab1 (HEAD detached at 27c0453)
λ git switch development
Switched to branch 'development'

E:\software_enigneering_osamaalwajeeh\lab1 (development)
λ git switch -c feature/login
Switched to a new branch 'feature/login'
```

Git: Branches



`git branch`

`git switch bratch_name` switched to branch "branch_name"

`git switch -c bratch_name/login`

٥. إجراء تعديلات على الفروع

```
E:\software_enigneering_osamaalwajeesh\lab1 (development)
λ git switch -c feature/login
Switched to a new branch 'feature/login'

E:\software_enigneering_osamaalwajeesh\lab1 (feature/login)
λ echo "def login():\n    return 'Login Page'" > views.py

E:\software_enigneering_osamaalwajeesh\lab1 (feature/login)
λ git add views.py

E:\software_enigneering_osamaalwajeesh\lab1 (feature/login)
λ git commit -m "Add login feature"
[feature/login c136f08] Add login feature
1 file changed, 1 insertion(+)
create mode 100644 views.py

E:\software_enigneering_osamaalwajeesh\lab1 (feature/login)
λ git switch main
Switched to branch 'main'
```

```
git switch branch_name
Echo "continure" name_file
git add name_file
```

Git

switch

vs

Checkout

TECADMIN.NET

Git

switch

VS

Checkout



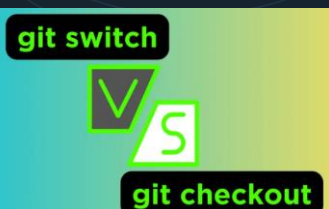
TECADMIN.NET

```
E:\software_engineering_osamaalwajeel\lab1 (main)
λ git merge feature/login -m "Merge login feature"
Updating 9a66ed4..c136f08
Fast-forward (no commit created; -m option ignored)
 app.py      | 1 +
index.html   | 13 +
index1.html  | 1 -
views.py     | 1 +
4 files changed, 3 insertions(+), 1 deletion(-)
create mode 100644 app.py
delete mode 100644 index1.html
create mode 100644 views.py

E:\software_engineering_osamaalwajeel\lab1 (main)
λ git ls-files
app.py
index.html
views.py

E:\software_engineering_osamaalwajeel\lab1 (main)
λ
```

```
git checkout testing_branch
git switch testing_branch
```





Git Clean
command

٦. إدارة التغيرات



```
E:\software_enigneering_osamaalwajeesh\lab1 (main)
λ echo "test content" > test.txt

E:\software_enigneering_osamaalwajeesh\lab1 (main)
λ git clean -dn
Would remove test.txt

E:\software_enigneering_osamaalwajeesh\lab1 (main)
λ git clean -df
Removing test.txt

E:\software_enigneering_osamaalwajeesh\lab1 (main)
λ echo "new content" > index.html git restore index.html

E:\software_enigneering_osamaalwajeesh\lab1 (main)
λ git restore .

E:\software_enigneering_osamaalwajeesh\lab1 (main)
λ
```



```
git clean -dn
git clean -df

git restore .
```



٧. حذف الملفات

```
E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ echo "new content" > index.html git restore index.html

E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ git restore .

E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ git rm app.py
rm 'app.py'

E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ git commit -m "Remove app.py file"
[main 3a05437] Remove app.py file
1 file changed, 1 deletion(-)
delete mode 100644 app.py
```



```
git rm name_file
```

```
git commit -m "message clean"
```

Git RM



٧. حذف الملفات

```
E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ echo "new content" > index.html git restore index.html

E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ git restore .

E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ git rm app.py
rm 'app.py'

E:\software_enigneering_osamaalwajeeh\lab1 (main)
λ git commit -m "Remove app.py file"
[main 3a05437] Remove app.py file
1 file changed, 1 deletion(-)
delete mode 100644 app.py
```



```
git rm name_file
```

```
git commit -m "message clean"
```

Git RM



٧. رفع المستودع الى github

```
F:\software_enigneering_osamaalwajeesh (main)
λ git remote add origin https://github.com/Osama100alwijh/software_enigneering_osamaalwajeesh

F:\software_enigneering_osamaalwajeesh (main)
λ git branch -M main

F:\software_enigneering_osamaalwajeesh (main)
λ git push -u origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 16 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (12/12), 1.04 KiB | 353.00 KiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Osama100alwijh/software_enigneering_osamaalwajeesh
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

F:\software_enigneering_osamaalwajeesh (main -> origin)
λ
```

```
git remote add origin mypath git
git push-u origin
```



Git RM

The End

By:osama alwajeeh



Osama100alwijh



github.com/Osama100alwijh