Fourth Session

Minders
Backend

Are you forgetting me?

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01

Django

Installation

- Install pip
- Install suitable version of py: (3.7, 3.8, 3.9, and 3.10)

Install python

Create Environment

Set up Database

Install Django

create Project

create app

Create Environment

- What is environment?
- Why we need it ?
- Create environment:
  → python -m venv [env name]
- Activate and Dactivate venv :

  → [env name]\Scripts\Activate
  → deactivate

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Set up Database

- We can integrate any database engine (my Sql, postgre, mongoDB)
- In Django, there is (SQL Lite) file.
- To connect Database to project:
  - We make migrations

Search???!!!

In the next session

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Install Django

- Install:
  → python -m pip install Django

OR

→ pip install Django

Look out !!! you should make activate before.

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Create Project

→ django-admin startproject [project_name]

- Project Structure Overview:
  - **Manage.py:** Entry-point for executing various Django commands.
  - **<ProjectName>/:** Main project directory containing settings, URLs, and other configurations.
    - **__init__.py:**
      Makes the directory a Python package.
    - **settings.py:**
      Contains project settings.

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Create Project

- **<ProjectName>/:**
  - **urls.py:**
    Maps URLs to views.
  - **wsgi.py:**
    Entry-point for WSGI-compatible web servers.
  - **asgi.py:** Entry-point for ASGI-compatible web servers (for Django Channels).

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Create App

- Notes:
  → cd [ProjectName]

  - Add the app name in InstalledApp in settings file.

→ python manage.py startapp [AppName]

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Create App

- App Structure Overview:
  - **<AppName>/:**
    - **__init__.py**
    - **apps.py**
    - **admin.py**
    - **models.py**
    - **tests.py**
    - **views.py**
    - **migration/**
    - **urls.py**

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Development Server

→ python manage.py runserver

- May be difference output because of Migration
- Default port **8000.** you can change server ip later

```
PS D:\Pollapp\mysite> python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
March 10, 2024 - 13:02:29
Django version 4.0.4, using settings 'mysite.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

What is the next ???

Break time!

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@yehiatarek74

بنحل مشاكلنا بكل تفاهم
انا وهي :

02

GitHub

Terminologies

Repo

Branch

Clone

Pull

Push

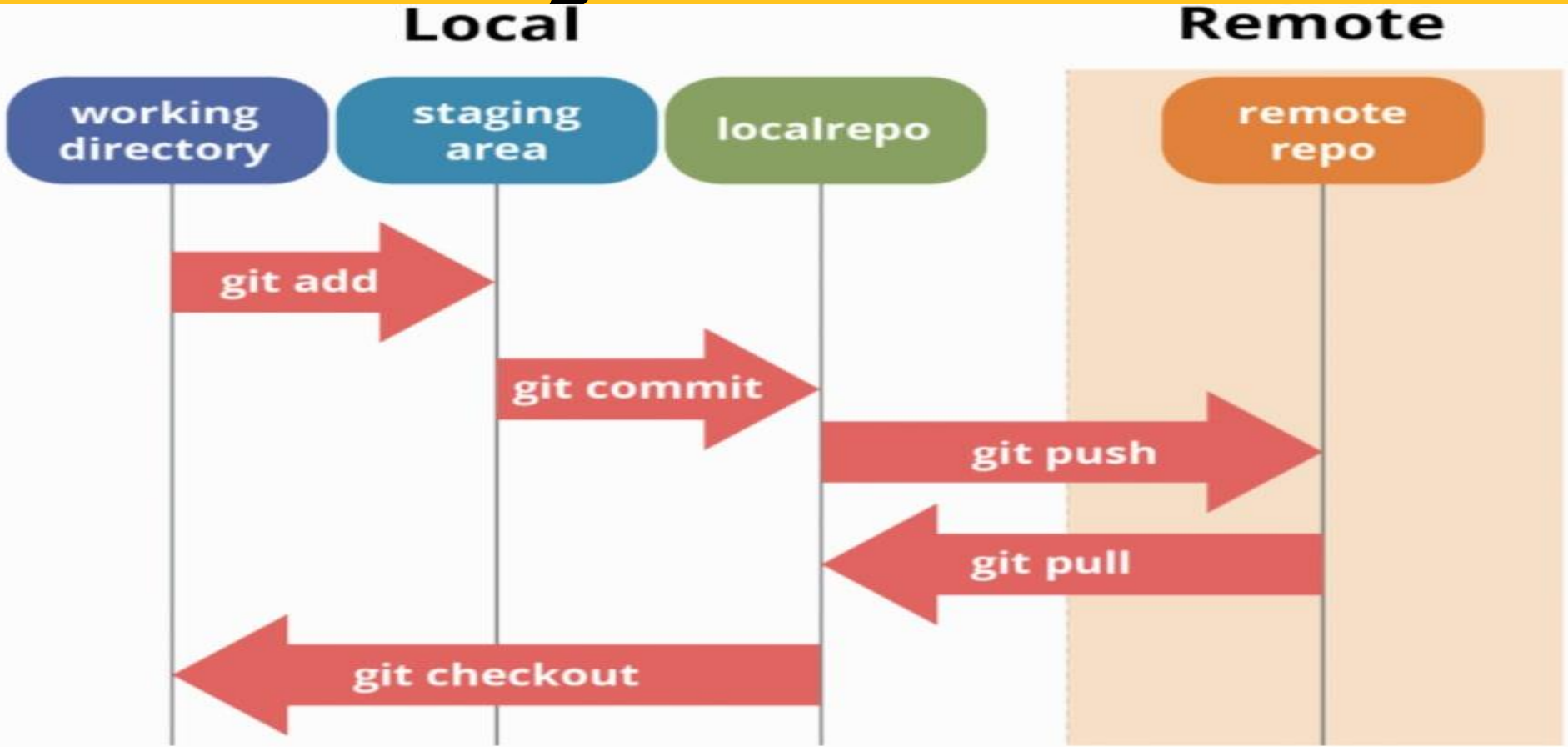
Local Repo

Remote Repo

Commit

Pull Request

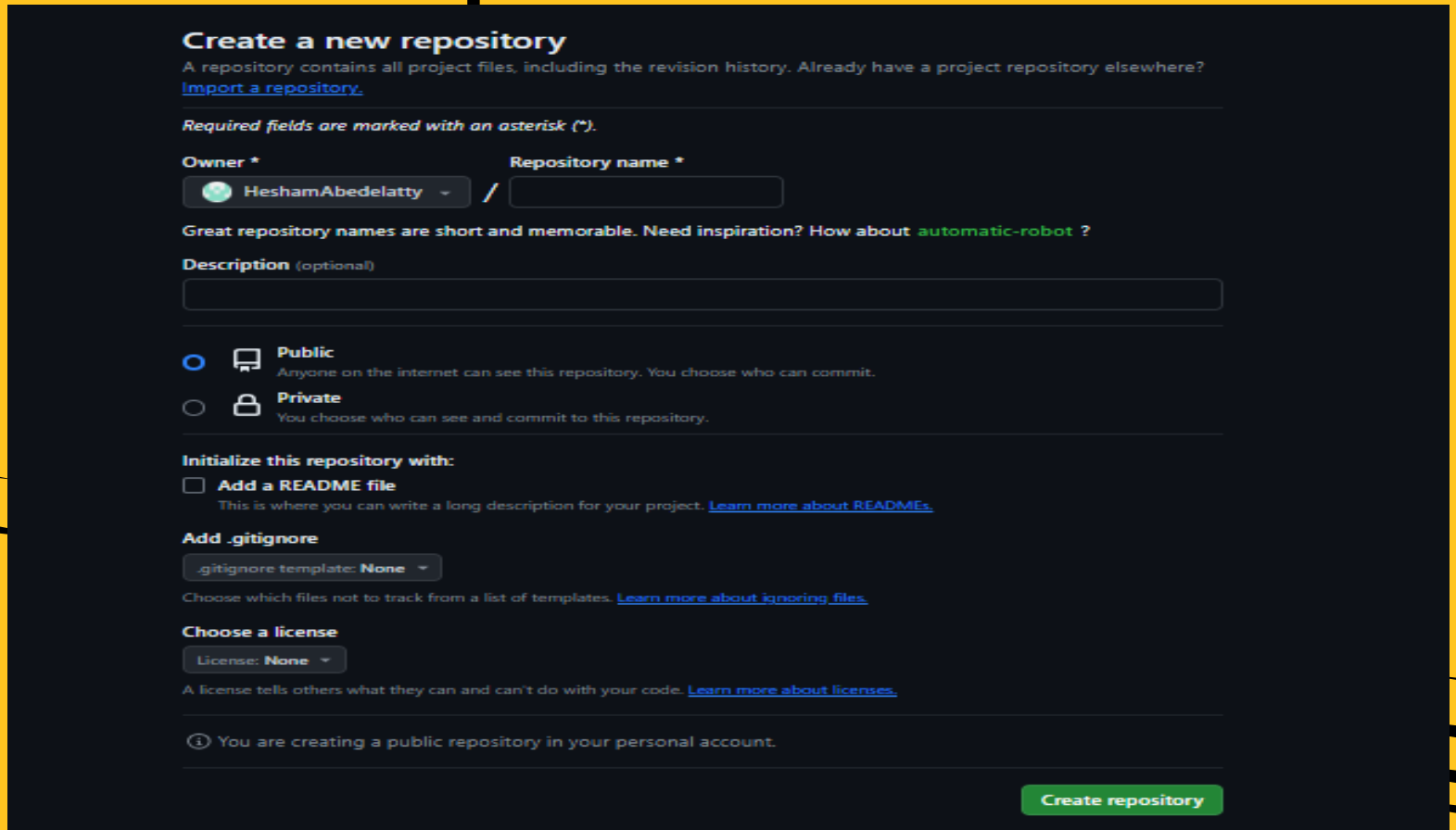
Terminologies



Terminologies

- Create **repo** for every **Project.**
- Create new **branch** for every **Feature**.
- Anyone can Bush and Pull depend on permissions.

Create Repo


Create a new repository
A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.
Required fields are marked with an asterisk (*).
Owner *
HeshamAbedelatty
/
Repository name *
Great repository names are short and memorable. Need inspiration? How about automatic-robot ?
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:
Add a README file
This is where you can write a long description for your project. Learn more about READMEs.
Add .gitignore
.gitignore template: None
Choose which files not to track from a list of templates. Learn more about ignoring files.
Choose a license
License: None
A license tells others what they can and can't do with your code. Learn more about licenses.
You are creating a public repository in your personal account.
Create repository

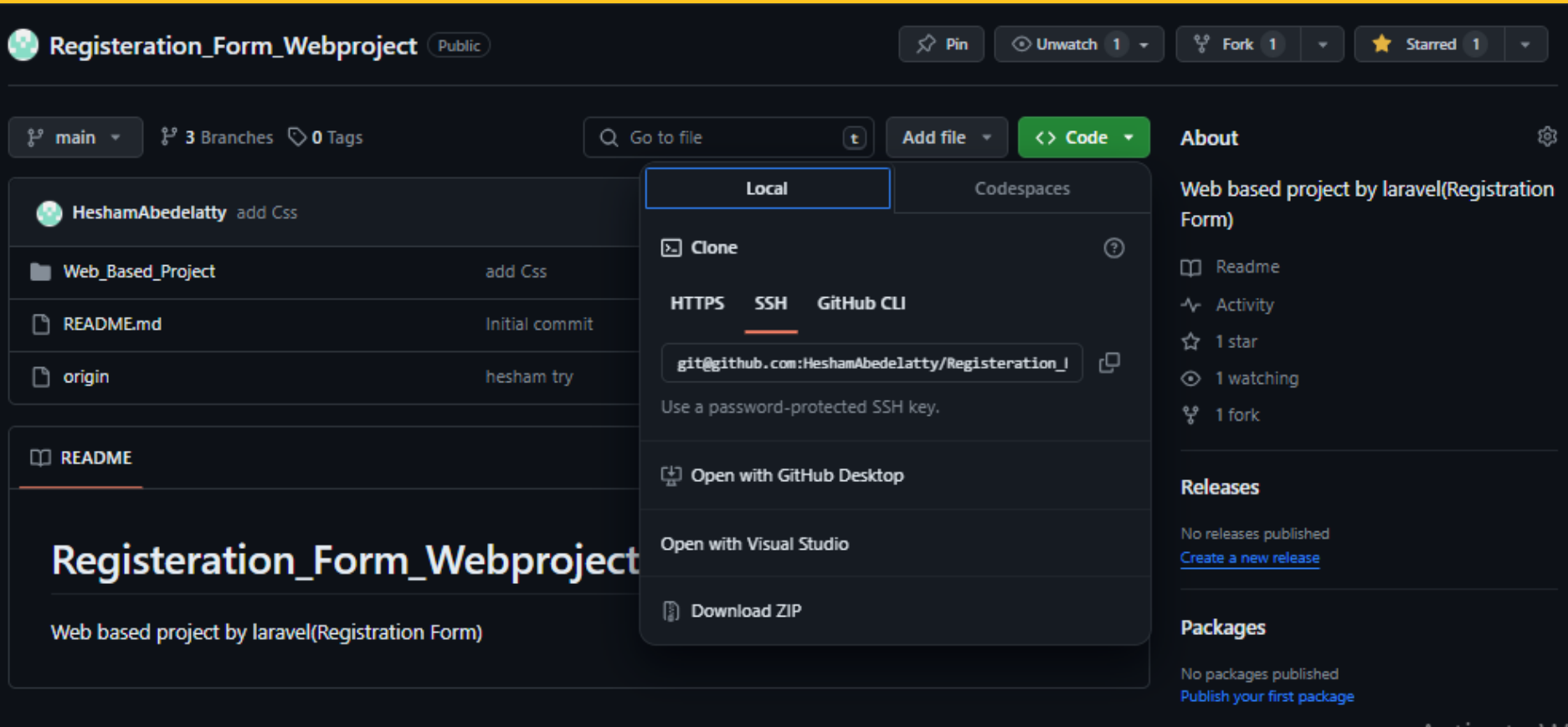
CMD lines

git clone (Repo link)

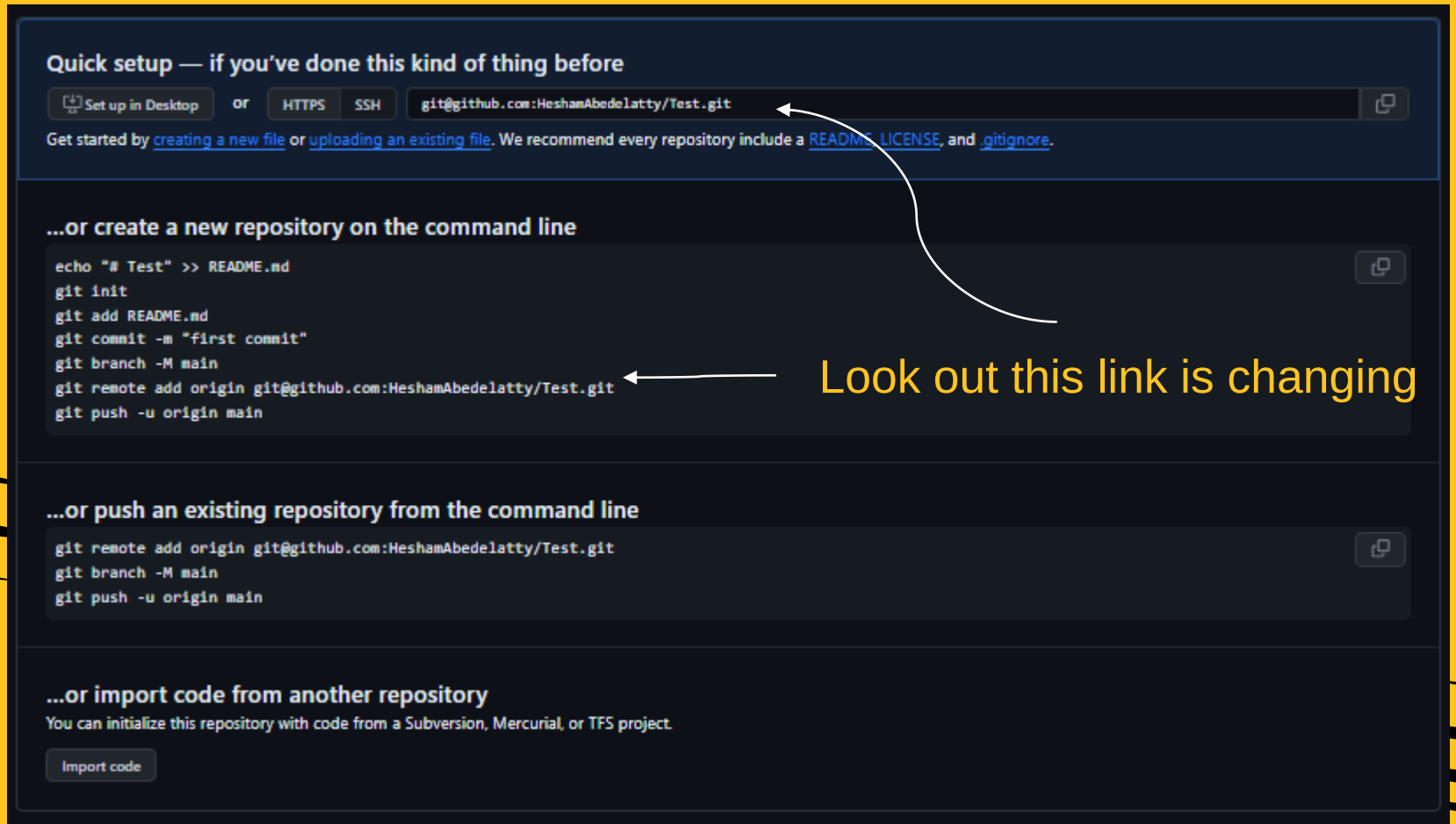
git status

- What happened in repo?

Git Clone


Registeration_Form_Webproject
Public
Pin
Unwatch 1
Fork 1
Starred 1
main
3 Branches
0 Tags
Go to file
t
Add file
Code
HeshamAbedelatty add Css
Web_Based_Project add Css
README.md Initial commit
origin hesham try
README
Registeration_Form_Webproject
Web based project by laravel(Registration Form)
Local
Codespaces
Clone
HTTPS
SSH
GitHub CLI
git@github.com:HeshamAbedelatty/Registeration_
Use a password-protected SSH key.
Open with GitHub Desktop
Open with Visual Studio
Download ZIP
About
Web based project by laravel(Registration Form)
Readme
Activity
1 star
1 watching
1 fork
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package

Git init


Quick setup — if you've done this kind of thing before
Set up in Desktop
or
HTTPS
SSH
git@github.com:HeshamAbedelatty/Test.git
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.
...or create a new repository on the command line
echo "# Test" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:HeshamAbedelatty/Test.git
git push -u origin main
Look out this link is changing
...or push an existing repository from the command line
git remote add origin git@github.com:HeshamAbedelatty/Test.git
git branch -M main
git push -u origin main
...or import code from another repository
You can initialize this repository with code from a Subversion, Mercurial, or TFS project.
Import code

CMD lines

- git add *
- git add [folderName]
- git add [folderName\filename.ext]

CMD lines

- git commit -m “description”
  You must add description

- git push [Remote Name] [Branch Name]

- git pull [Remote Name]

CMD lines

- git branch (get all branches you have)
- git remote -v

CMD lines

Branching:

- git branch [branch name] (create branch)
- git checkout [branch name] (switch branch)
- git checkout -b [branch name] (create and switch)
- git branch -m [new name] (rename Branch)

CMD lines

We have two ways for to merge:

- Merge branch to main before pushing:
  1. switch to main
  2. git merge [branchname]
  3. push

CMD lines

We have two ways for to merge:

- Push and create pull request:
  1. switch branch
  2. add, commit, push to remote
  3. make pull request

Search ??????

References

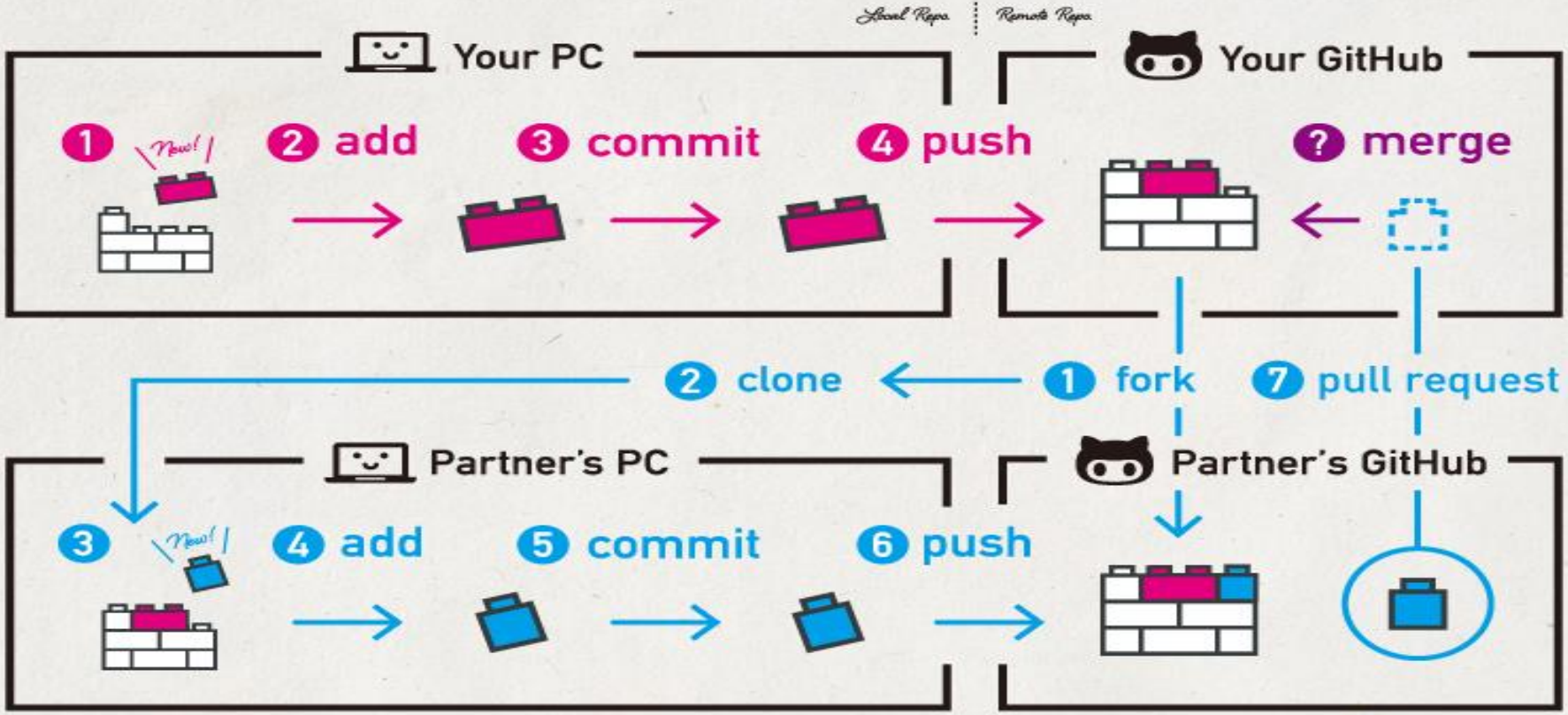
Git : https://git-scm.com/docs/

Readme file: https://docs.github.com/en/get-started/writing-on-github/getting-started-with-writing-and-formatting-on-github/basic-writing-and-formatting-syntax

.gitignore: https://www.atlassian.com/git/tutorials/saving-changes/gitignore#git-ignore-patterns

Git / GitHub

How to "Pull Request"



designless.net

03

Summary

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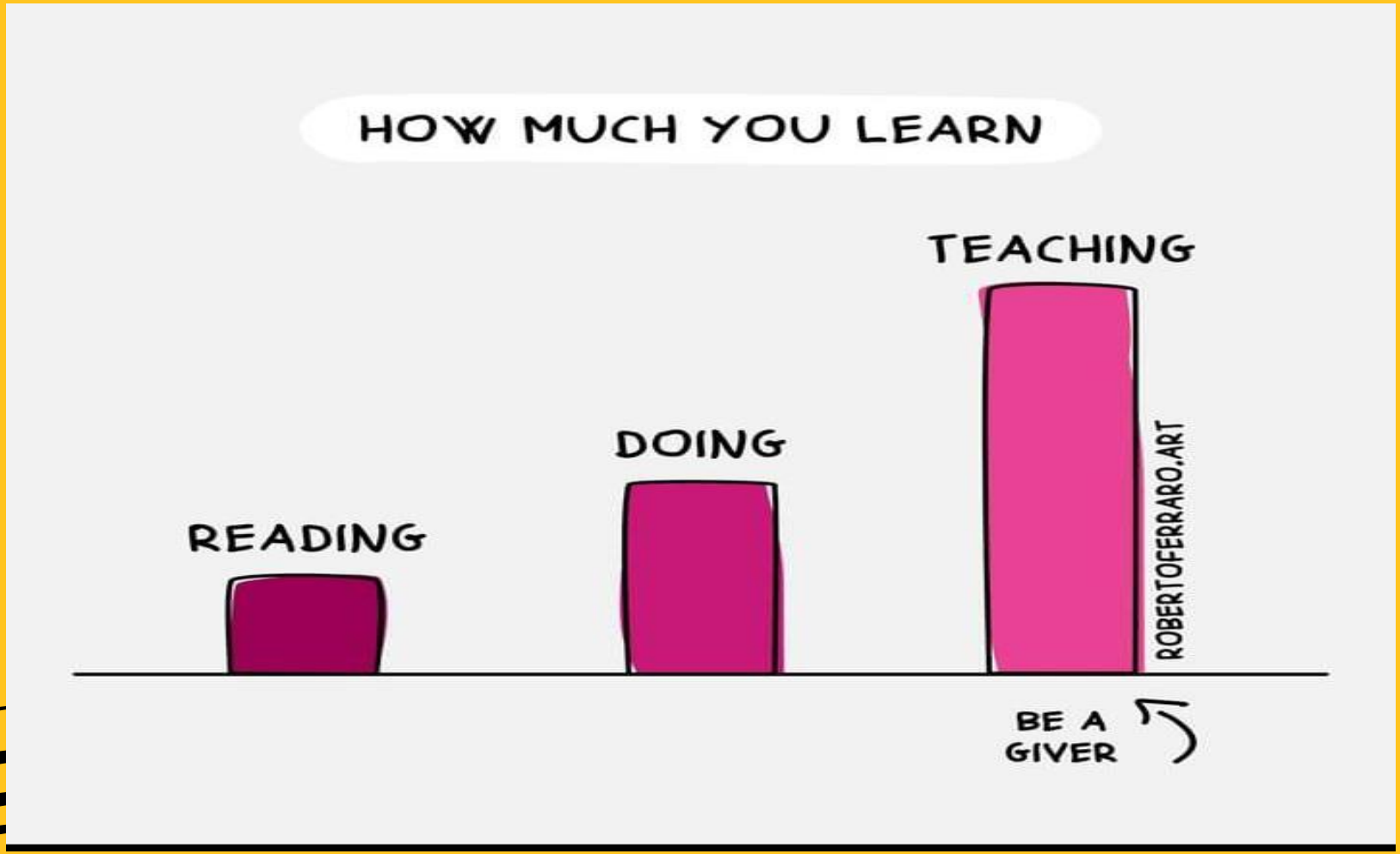
#FISTFIGHT

Advice

لو اخطأت قل

"متأسف خطئ هذا لن يتكرر"


HOW MUCH YOU LEARN
TEACHING
DOING
READING
ROBERTOFERRARO.ART
BE A
GIVER

THANKS

Do you have any questions?