
# Terminal, Git and GitHub

*your new friends...*

*“ If the only tool you have is a hammer, you tend to see every problem as a nail ”*

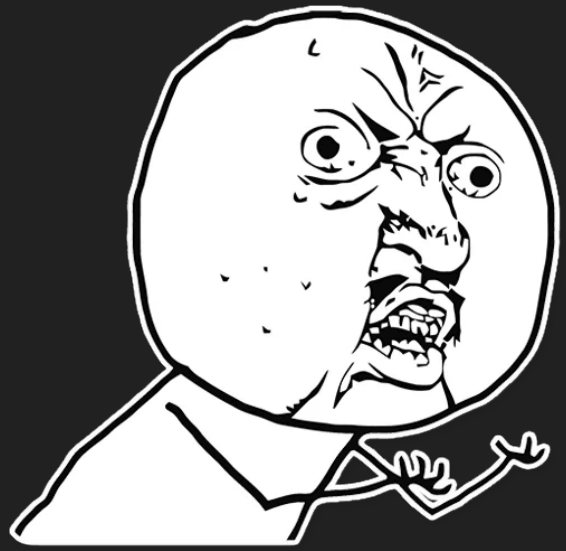
- Abraham Harold Maslow -

# Terminal

# Basic Terminal Commands

| Commands | For? |
| --- | --- |
| `ls` | Same as dir in windows |
| `pwd` | Print working directory |
| `touch` | Create new file |
| `mkdir` | Make directory |
| `cp` | Copy |
| `cd` | Change directory |

| Commands | For? |
| --- | --- |
| `mv` | Move / cut |
| `rm` | Remove |
| `rm -rf` | Remove recursively |
| `clear` | Clear terminal |
| `sudo` | Become powerful  |



Y U NO GUI??

# Versioning

# Versioning

What you humans will do


new.psd

new_final.psd

new_final_final.psd

new_finalest_final.psd

new_finalest_final_forsure.psd

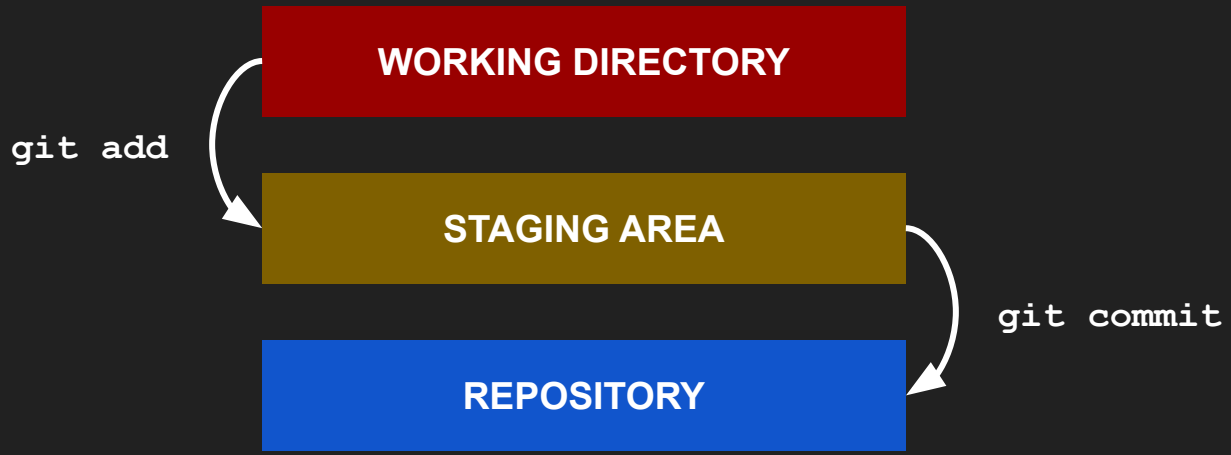
new_finalest_F🙈🙈🙈_this_S🙈🙈🙈_final.psd

# Versioning

What Git will do

Git ≠ GitHub

# How Git Works (Simplified)



# Basic Git Commands (Part 1)

| **`Commands*`** | **For?** |
| --- | --- |
| `init` | Initialize a local directory to be a Git repository |
| `add/reset` | Add/remove something to be tracked by Git, or move it to staging area |
| `commit` | Commit the changes to Git repository |
| `status` | Check the status |
| `log` | View the log, you can get hash code for a specific version from here |
| `show [hash]:[filename]` | Show the content of a file in a specific version (matched by hash code) |
| `checkout [hash]` | Update files in the working tree to match a specific version (matched by hash code) |

* Every command preceded with `git`

# Working Scenario - Local Git Repository

1. Create a local Git repository
2. Create a [file], name it as you please
3. Put some random text in the [file]
4. Commit to your local Git repository
5. Add some more random text in the [file]
6. Commit to your local Git repository
7. Add another random text in the [file]
8. Commit to your local Git repository
9. Revert back the [file]’s state to point 6
10. Commit to your local Git repository

Git ≠ GitHub

# Basic Git Commands (Part 2)

| **`Commands*`** | **For?** |
| --- | --- |
| `remote add origin` | Connect your local Git repository with remote repository |
| `push -u origin master` | Upload local Git repository content to a remote repository |
| `pull` | Update the local repository from a remote repository |
| `clone` | Copies an existing Git repository |
| `fetch` | Get the latest history of a repository |

* Every command preceded with `git`

# Working Scenario - GitHub Repository

**Bob (Client)**

Requests a complicated custom software

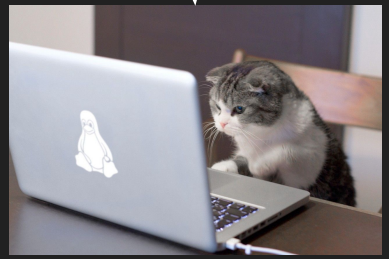
DCSoftware

**Developer**

# Working Scenario - GitHub Repository

GitHub

Dog



Cat

# Working Scenario - GitHub Repository (Dog side 1)

1. Create GitHub repository
2. Create a local Git repository
3. Create a [file]
4. Commit the [file] to local Git repository
5. Connect local Git repository with GitHub repository
6. Push something to GitHub repository

# Working Scenario - GitHub Repository (Cat side)

1. Make a new folder for cloning purpose
2. Clone a GitHub repository to local Git repository
3. Make some changes in [file]
4. Push those changes to GitHub repository
5. Catto tels Doggo that he made some changes to the source code

# Working Scenario - GitHub Repository (Dog side 2)

1. Pull the changes from GitHub repository
2. Done

**Bob said: Thanks**

# Group Project E-Commerce

1. Menggunakan HTML dan CSS,
2. Tidak menggunakan JavaScript dan database,
3. Tidak menggunakan framework,
4. Dikerjakan menggunakan Git (satu repository bersama-sama),
5. Host di GitHub page,
6. Minimal ada 4 HTML yang tidak identik :
    a. Login/Register,
    b. Content Products,
    c. Testimonial,
    d. About Us,
    e. Invoice.

# Tip for Challenges on Den

```
function ubahHuruf(kata) {
  // you can only write your code here!
}

// Written test cases only help you to check your program.
// Passing all test cases doesn't always mean your program 100%
// correct. Try to break your own program by making your own test
// cases.
console.log(ubahHuruf('wow'));         // xpx
console.log(ubahHuruf('developer'));   // efwfmpqfs
console.log(ubahHuruf('javascript')); // kbwbtdsjqu
console.log(ubahHuruf('keren'));       // lfsfo
console.log(ubahHuruf('semangat'));    // tfnbohbu
```