# Common Room Bangi

Introduction to Git and Github

# What is GIT?

- Git is the software that manages changes to your files.
- By tracking these changes, you will be able to recall specific versions of those files later.
- Using a version control system means that if you break your app, you can hopefully recover easily by reverting to previous versions of the code.
- Git can handle small projects with one developer and large projects with hundreds of developers.

# Install Git

1) Go to https://git-scm.com/downloads
2) Download Git installer, open the installer to start installing it.
3) Whenever being prompt, tick on Install git with CLI as below.
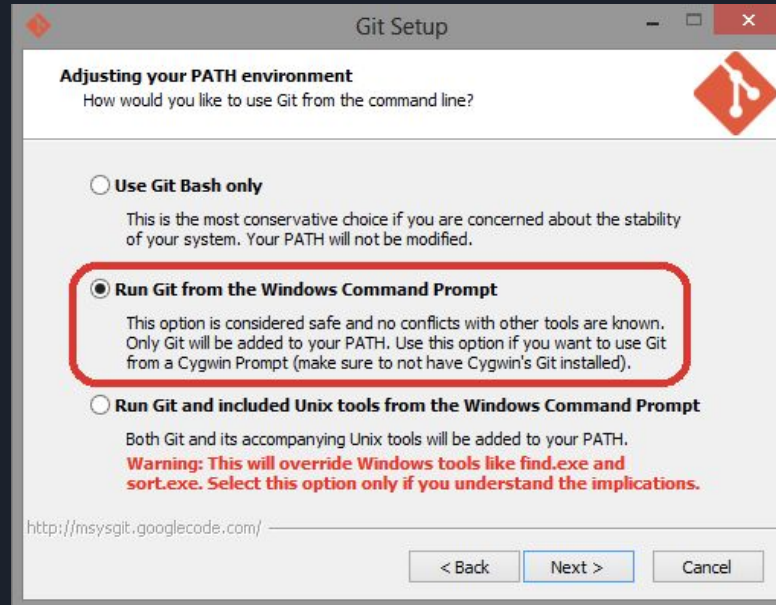
# Creating and Saving project in GIT

1) Create a new Folder, inside the new folder Create an HTML file with Hello World, an image and a tagline.
2) Open Command Prompt or Terminal. Open your project folder using CMD or Terminal
   a) Use use cd (folder name) to change directory
   b) Use dir command to list all the files or folders in the directory
3) Once inside your  project folder, type **git init.** This will initialize your directory as a git project.
4) Type **git add .** to add all your files into a commit list. You may also specify the file by replacing . with the file name, eg: git add index.html
5) Type **git commit -m "First commit"** to commit your change.

# What is Github

- Github is a website that hosts code online.
- It will be there that you hosts your source code of the project.
- Your uploaded code is opened to everyone once you uploaded it to Github, however, there is a paid version that enables you to have private repository.
- If you are in need of private repository, you may check Bitbucket or self host Gitlab (More advanced stuff)

Search GitHub

# Built for developers

GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside millions of other developers.

Username

Pick a username

Email

you@example.com

Password

Create a password

Use at least one letter, one numeral, and seven characters.

**Sign up for GitHub**

By clicking "Sign up for GitHub", you agree to our terms of service and privacy policy. We'll occasionally send you account related emails.

See who's speaking at Universe

# Creating and pushing to Github

1) Create a new repository in github.
2) You will fill in the information, project name and project description inside the page.
3) Follow the instruction given by Github and add it inside your project repository.
4) Push the code to Github using **git push origin master** command.

# Create a new repository

A repository contains all the files for your project, including the revision history.

**Owner**                    **Repository name**

[GO wanmuz86 ▾] / [ hello_world                    ✓ ]

Great repository names are short and memorable. Need inspiration? How about **expert-succotash**.

**Description** (optional)

[ This is my first project pushed from github ]

◉ **Public**
   Anyone can see this repository. You choose who can commit.

○ **Private**
   You choose who can see and commit to this repository.

☐ **Initialize this repository with a README**
   This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

[ Add .gitignore: None ▾ ]    [ Add a license: None ▾ ]  ⓘ

[ **Create repository** ]

📖 wanmuz86 / **hello_world**

<> Code    ⓘ Issues **0**    ⑂ Pull requests **0**    ▦ Projects **0**    📖 Wiki    ⚙ Settings    Insights ▾

## Quick setup — if you've done this kind of thing before

⬇ Set up in Desktop   or   | HTTPS | SSH |   `https://github.com/wanmuz86/hello_world.git`   📋

We recommend every repository include a README, LICENSE, and .gitignore.

### ...or create a new repository on the command line

```
echo "# hello_world" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/wanmuz86/hello_world.git
git push -u origin master
```

### ...or push an existing repository from the command line

```
git remote add origin https://github.com/wanmuz86/hello_world.git
git push -u origin master
```

### ...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

# Important Git command

| Command | Description |
| --- | --- |
| git init | Creating a git repository in the folder. |
| git add . | Add all files into commit list |
| git commit -m "<commit message>" | Commit/Save the change that you have done. |
| git push | Push the change to server. |