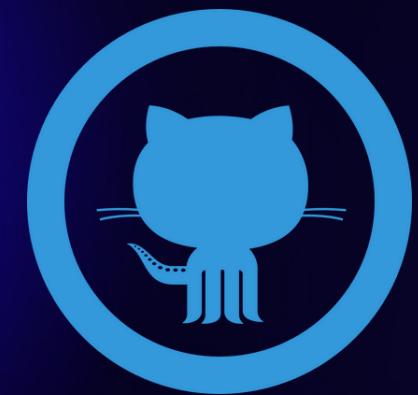




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Git & Github



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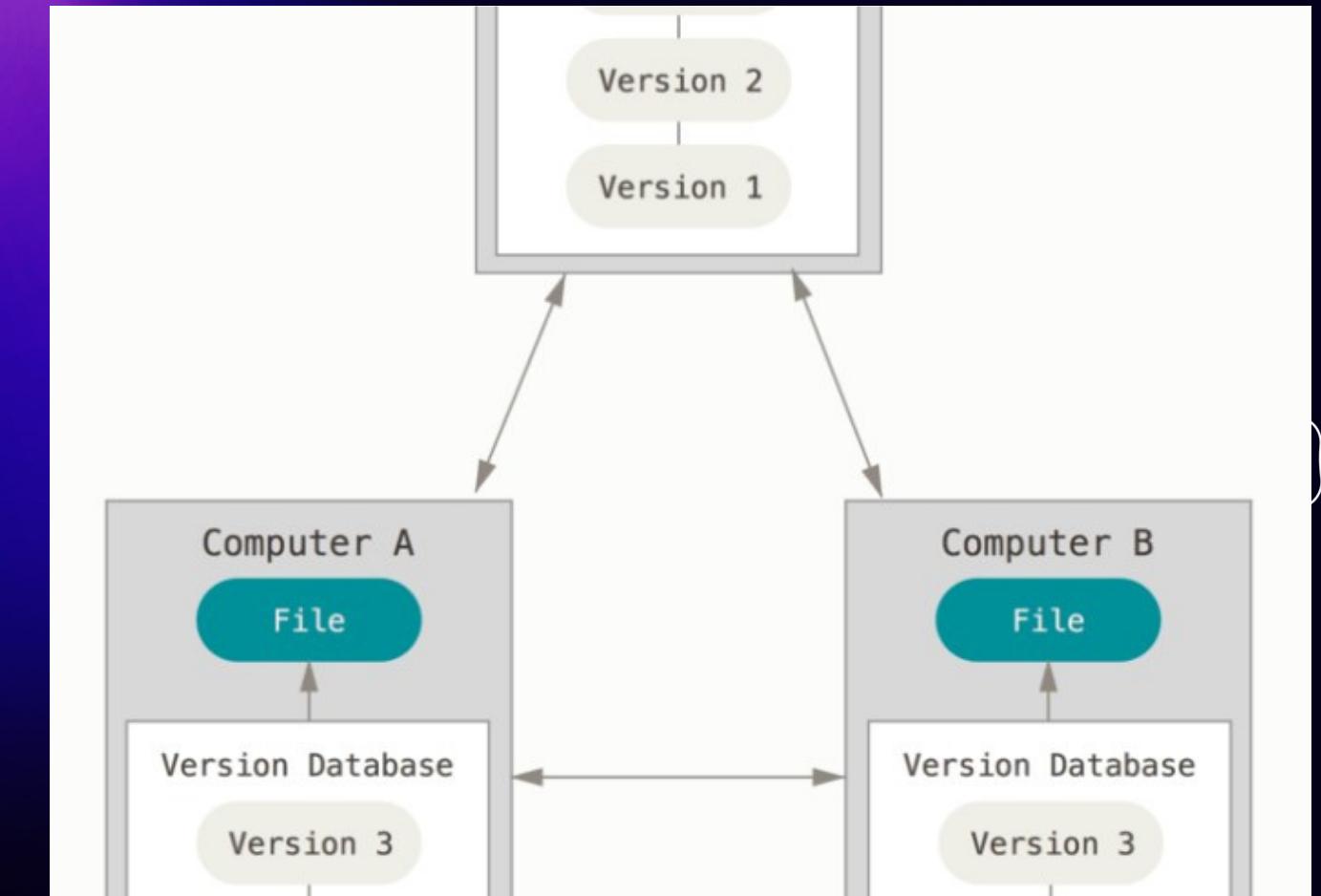
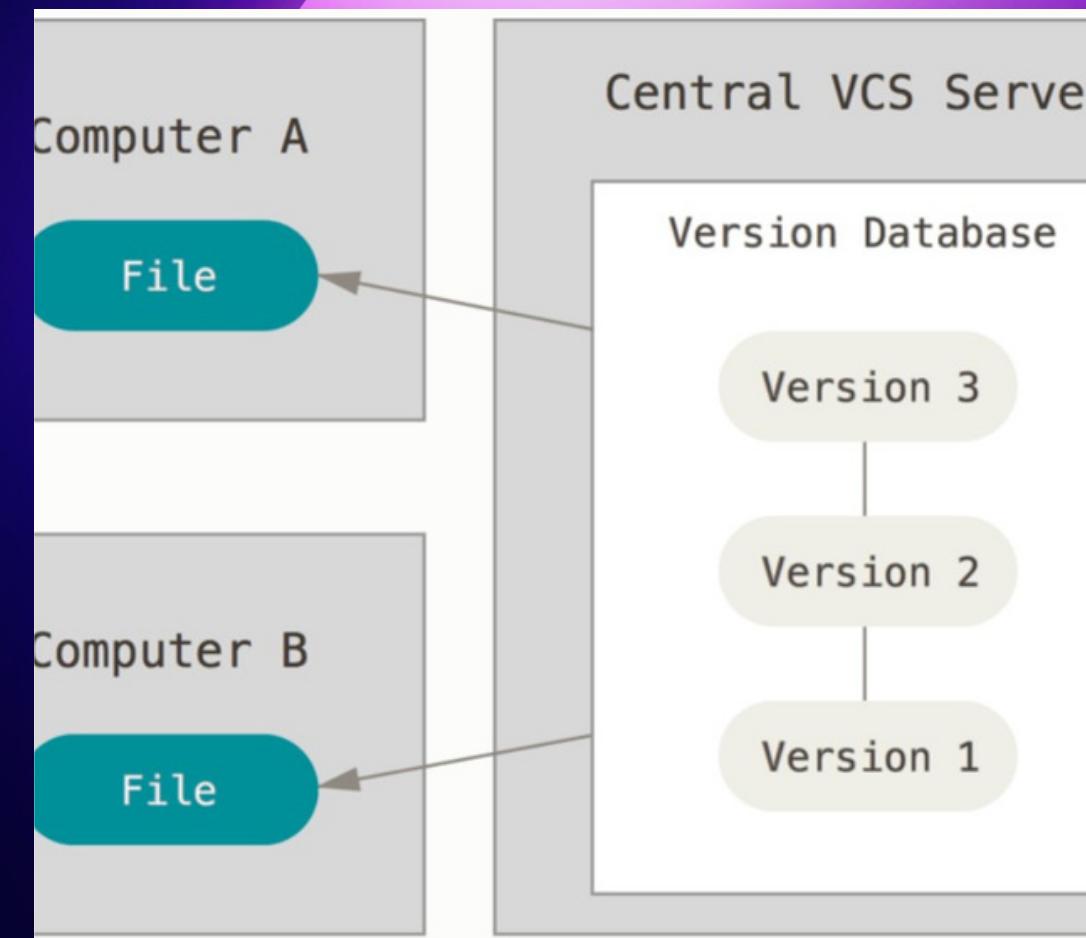
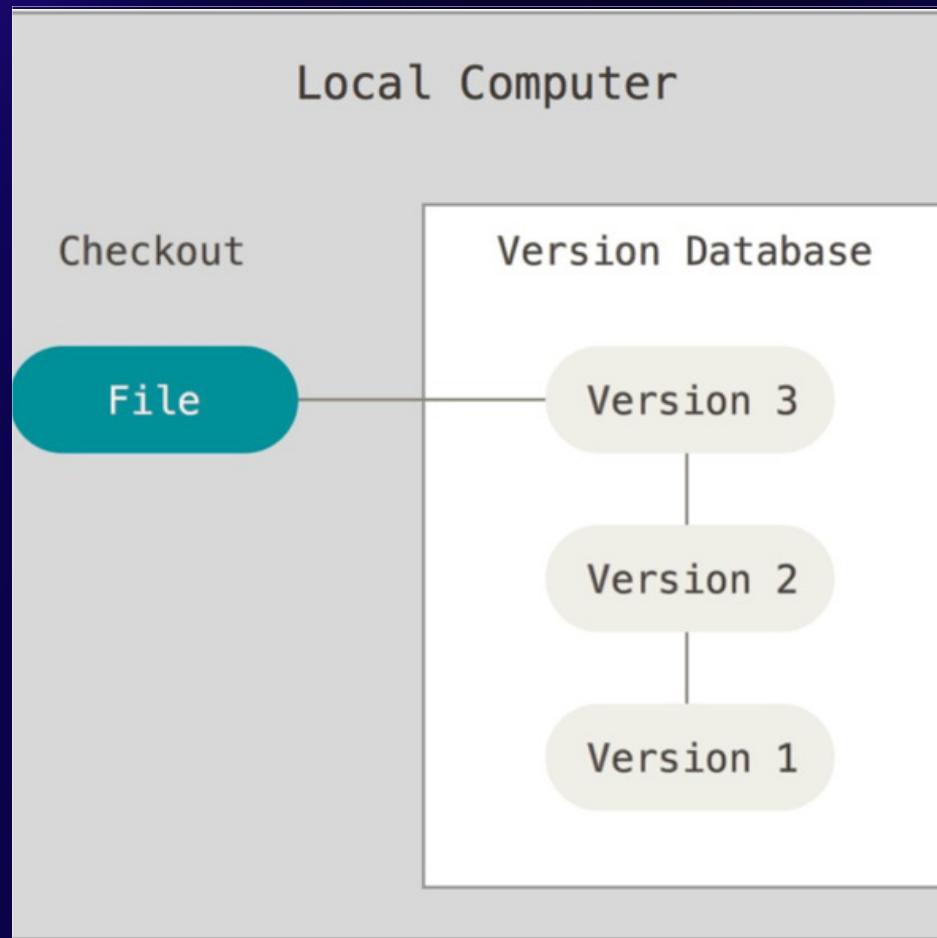


- Record changes to a file over time
- Revert selected files to a previous state
- Revert entire project to previous state
- Compare changes over time
- See who last modified something that might be causing a problem
- Can recover lost files





Revolution of VCS





History of git





Git Features



- Amazingly Fast
- Very efficient with large Projects
- Nearly every operation is Local
- You have the entire history of your project right there on your local disk
- Other VCS store files like delta based VCS.
- Git store like series of Snapshots.
- Git is Instantaneous, Even if you are offline still you can work with git
- Git has Integrity(quality of being honest)





Git Workflow



Git commands

- You modify files
- You selectively Stage files
- You do a commit which takes the files as they are in the staging area and stores that snapshot permanently.

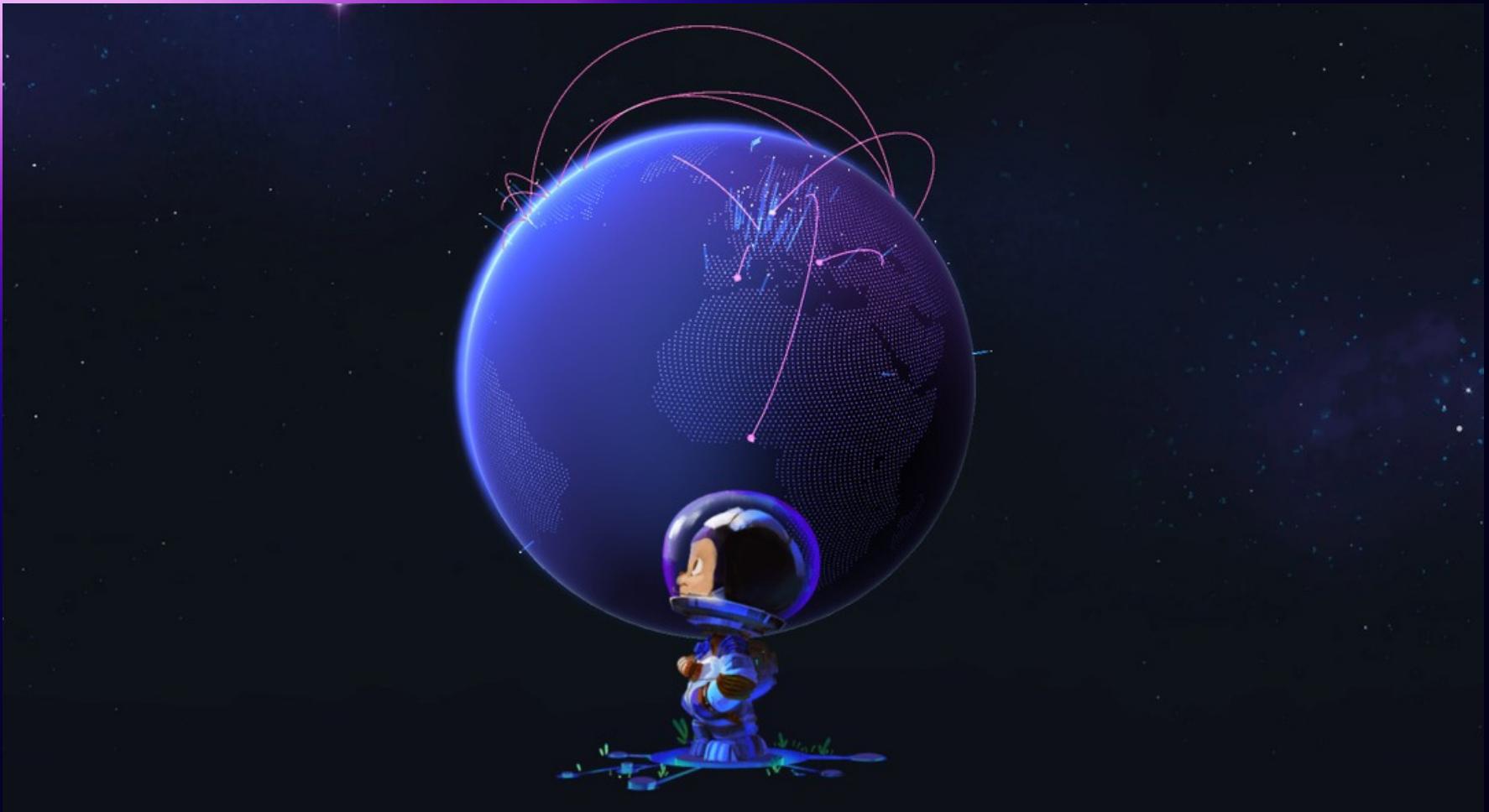
- git
- git init
- git status
- ls
- git add
- git add -A
- git commit -m "message"
- touch filename
- git restore
- git rm -f filename
- git log
- git clone URL
- clear
- git checkout filename





Github

GitHub is a cloud-based service that hosts a version control system (VCS) called Git. It allows developers to collaborate and make changes to shared projects while keeping detailed track of their progress.





References

- <https://git-scm.com/>
- <https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control>
- <https://github.com/>
- <https://pngimg.com/uploads/github>
- <https://tech.bodyfitstation.com/wp-content/uploads/2016/11/git-logo.png>





Thank you





Git installation

≡

← → C git-scm.com/download/win ⌂ Paused :

git --everything-is-local

Search entire site...

About

Documentation

Downloads

- GUI Clients
- Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online](#) for free. Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest (2.39.1) 64-bit version of **Git for Windows**. This is the most recent [maintained build](#). It was released **26 days ago**, on 2023-01-17.

Other Git for Windows downloads

- Standalone Installer**
- [32-bit Git for Windows Setup.](#)
- [64-bit Git for Windows Setup.](#)
- Portable ("thumbdrive edition")**
- [32-bit Git for Windows Portable.](#)
- [64-bit Git for Windows Portable.](#)

Using winget tool

Install [winget tool](#) if you don't already have it, then type this command in command prompt or Powershell.

```
winget install --id Git.Git -e --source winget
```

The current source code release is version 2.39.1. If you want the newer version, you can



Git checkup



```
MINGW64:/c/Users/91709/OneDrive/Desktop/home page
91709@LAPTOP-NKPL151L MINGW64 ~/OneDrive/Desktop/home page (master)
$ git
usage: git [--version] [--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>'
to read about a specific subcommand or concept.
```



Giving an identity

MINGW64:/c/Users/91709/OneDrive/Desktop/home page

```
91709@LAPTOP-NKPL151L MINGW64 ~/OneDrive/Desktop/home page (master)
$ git config --global user.name "Anil Thakarda"
```



MINGW64:/c/Users/91709/OneDrive/Desktop/home page

```
91709@LAPTOP-NKPL151L MINGW64 ~/OneDrive/Desktop/home page (master)
$ git config --global user.email "anilthakor7007@gmail.com"
```



Giving command Cheatsheet

Create a Repository

From scratch -- Create a new local repository

```
$ git init [project name]
```

Download from an existing repository

```
$ git clone my_url
```

Observe your Repository

List new or modified files not yet committed

```
$ git status
```

Show the changes to files not yet staged

```
$ git diff
```

Show the changes to staged files

```
$ git diff --cached
```

Show all staged and unstaged file changes

```
$ git diff HEAD
```

Show the changes between two commit ids

```
$ git diff commit1 commit2
```

List the change dates and authors for a file

```
$ git blame [file]
```

Show the file changes for a commit id and/or file

```
$ git show [commit]:[file]
```

Working with Branches

List all local branches

```
$ git branch
```

List all branches, local and remote

```
$ git branch -av
```

Switch to a branch, my_branch, and update working directory

```
$ git checkout my_branch
```

Create a new branch called new_branch

```
$ git branch new_branch
```

Delete the branch called my_branch

```
$ git branch -d my_branch
```

Merge branch_a into branch_b

```
$ git checkout branch_b
```

```
$ git merge branch_a
```

Tag the current commit

```
$ git tag my_tag
```

Make a change

Stages the file, ready for commit

```
$ git add [file]
```

Stage all changed files, ready for commit

```
$ git add .
```

Commit all staged files to versioned history

```
$ git commit -m "commit message"
```

Commit all your tracked files to versioned history

```
$ git commit -am "commit message"
```

Unstages file, keeping the file changes

```
$ git reset [file]
```

Revert everything to the last commit

```
$ git reset --hard
```

Synchronize

Get the latest changes from origin (no merge)

```
$ git fetch
```

Fetch the latest changes from origin and merge

```
$ git pull
```

Fetch the latest changes from origin and rebase

```
$ git pull --rebase
```

Push local changes to the origin

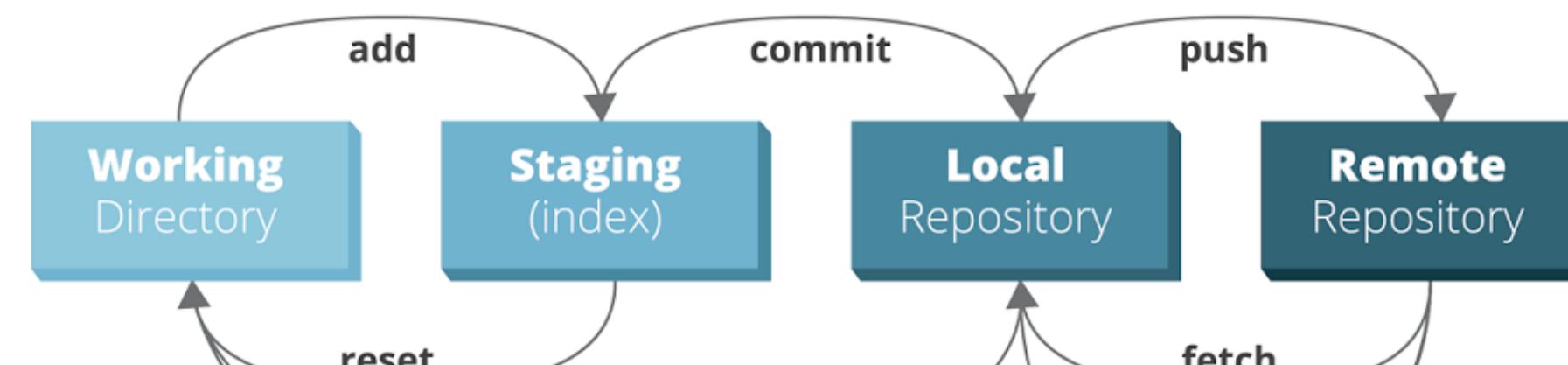
```
$ git push
```

Finally!

When in doubt, use git help

```
$ git command --help
```

Or visit <https://training.github.com/> for official GitHub training.





Creating Github account

The screenshot shows the GitHub homepage with a dark background and a purple header bar. The main heading "Let's build from here" is prominently displayed in large white font. Below it, two descriptive paragraphs read: "Harnessed for productivity. Designed for collaboration." and "Celebrated for built-in security. Welcome to the platform developers love." At the bottom of the main section, there is a sign-up form with fields for "Email address" and "Sign up for GitHub". To the right of the form is a button for "Start a free enterprise trial >". Below the main content, a section titled "Trusted by the world's leading organizations" features logos for Stripe, Pinterest, KPMG, Mercedes-Benz, P&G, and TELUS.

Let's build from here

Harnessed for productivity. Designed for collaboration.
Celebrated for built-in security. Welcome to the platform
developers love.

Email address [Sign up for GitHub](#) [Start a free enterprise trial >](#)

Trusted by the world's leading organizations

stripe [Pinterest](#) [KPMG](#) [Mercedes-Benz](#) [P&G](#) [TELUS](#)



Login Github account

Sign in to GitHub

Username or email address
anilthakor7007@gmail.com

Password [Forgot password?](#)

[Sign in](#)

New to GitHub? [Create an account.](#)

Terms Privacy Security Contact GitHub



After log in page

The screenshot shows the GitHub homepage after logging in. The top navigation bar includes links for Pull requests, Issues, Codespaces, Marketplace, and Explore. The main content area features a "Following" tab, a "For you" section with a "Beta" label, and a "Top Repositories" sidebar. A central callout box encourages users to "Discover interesting projects and people to populate your personal news feed." The "Latest changes" sidebar lists recent updates from maintainers. At the bottom, there's a "Recent activity" summary and a footer with links to Blog, API, Terms, About, Training, Privacy, Shop, Status, Docs, Contact GitHub, Security, and Pricing.

Top Repositories

Find a repository...

code50/95736034
anilthakor7007/contact-form
me50/anilthakor7007
anilthakor7007/get-in-touch_form
anilthakor7007/CSS-Basic-Layout
anilthakor7007/Get-in-touch-form
anilthakor7007/desktop-tutorial

Show more

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Following For you Beta

Discover interesting projects and people to populate your personal news feed.

Your news feed helps you keep up with recent activity on repositories you [watch](#) or [star](#) and people you follow.

Explore GitHub

ProTip! The feed shows you events from people you [follow](#) and repositories you [watch](#) or [star](#).

Subscribe to your news feed

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Blog About Shop Contact GitHub Pricing API Training Status Security Terms Privacy Docs

Paused

Latest changes

- 2 days ago See when a Pull Request is editable by maintainers
- 2 days ago WakaTime is now a GitHub secret scanning partner
- 3 days ago GitHub Projects – February 9th update
- 3 days ago Dependency submission suggestions on Gradle, Maven, Scala and Mill repositories

View changelog →



Creating Github remote repository

github.com/new

Owner * Repository name *

anilthakor7007 / beach-homepage ✓

Great repository names are short and memorable. Need inspiration? How about [cautious-umbrella](#)?

Description (optional)
Here I created home page of a travel on beaches website

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:
Skip this step if you're importing an existing repository.

Add a README file
This is where you can write a long description for your project. [Learn more](#).

Add .gitignore
Choose which files not to track from a list of templates. [Learn more](#).

.gitignore template: [None](#) ▾

Choose a license
A license tells others what they can and can't do with your code. [Learn more](#).

License: [None](#) ▾

This will set main as the default branch. Change the default name in your [settings](#).

ⓘ You are creating a private repository in your personal account.

[Create repository](#)



Pushing local repository on Github

Search or jump to... / Pull requests Issues Codespaces Marketplace Explore

anilthakor7007 / login-form Public Pin Unwatch 1 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master had recent pushes 1 minute ago Compare & pull request

master 2 branches 0 tags Go to file Add file Code

This branch is 1 commit ahead, 1 commit behind main.

anilthakor7007 first commit

markup3.html first commit

script.js first commit

Help people interested in this repository understand your project by adding a

Local Codespaces

Clone HTTPS SSH GitHub CLI https://github.com/anilthakor7007/login-form. Open with GitHub Desktop Download ZIP

About animated login form 0 stars 1 watching 0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

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