

14 JANUARY 2025
COUNTDOWN 2030,
ABU DHABI

Pir Muhammad Sadiq

Pir Muhammad Sadiq is a hereditary spiritual leader and the Chairman of the Luaripak Group, a company with diverse interests in agriculture, construction, IT, and power generation. He also leads two welfare organisations in Pakistan: the Sultan Oliya Foundation, where he serves as Chairman, and the Nishat Welfare Organisation (NWO), where he is the Patron-in-Chief. Both organisations focus on empowering women and providing quality education.

Committed to achieving Sustainable Development Goal 8, Pir Muhammad Sadiq works tirelessly to eliminate forced and child labour from agricultural farms and brick kilns in Sindh Province, Pakistan.

Recently, he established a Sufi philosophy institute in Badin, Sindh, and launched a Sufi Art Museum. The museum showcases his inherited collection of Islamic art, artifacts, manuscripts, and ancient Qurans.

THE SUFI INSTITUTE LUARI SHARIF

git GitHub

ONLINE-SESSION

AMBREEN ABDUL RAHEEM
THE DATA ANALYST & WEB DEVELOPER



Git & GitHub

A Complete Educational Guide

Version Control · Collaboration · Open Source





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GIT

Version Control System

Fun Fact

"Git" is British slang for an unpleasant person — Linus Torvalds named it after himself jokingly!

What is Git?

Git is a free, open-source Distributed Version Control System (DVCS) that tracks changes in files over time. It allows multiple people to work on the same project simultaneously without overwriting each other's work.

Track Changes

Records every modification with full history

Branching

Work on features independently without conflicts

Merging

Combine changes from different branches

Works Offline

Full repo on your machine, no internet needed

What is GitHub?

GitHub is a cloud-based platform that hosts Git repositories online. It adds powerful collaboration tools on top of Git — making it easy for teams to review, discuss, and manage code together from anywhere in the world.

Remote Hosting

Store your repositories safely in the cloud

Pull Requests

Review & discuss code before merging

Access Control

Public & private repos with permissions

CI/CD Actions

Automate testing and deployment pipelines



GITHUB

Cloud-based Hosting Platform

100M+ Developers

420M+ Repositories

Git vs GitHub — Key Differences

GIT	GITHUB
Software / Tool	Web-based Platform / Service
Installed locally on PC	Accessed via browser or app
Works 100% offline	Requires internet connection
Tracks file history	Hosts repos in the cloud
Command-line focused	Has a visual web interface
Free & open-source	Free (basic) & Paid plans
No user accounts needed	Requires user account

VS

Think of Git as the engine and GitHub as the car — GitHub uses Git underneath, but adds a whole web interface around it.

Who Can Use Git & GitHub?

The answer is: EVERYONE! Git & GitHub are used across industries and skill levels.

Software Developers

Track code changes, collaborate with team members, manage releases and bug fixes.

Students & Learners

Store coursework, share projects, build portfolios and learn professional workflows.

Data Scientists

Version notebooks, datasets, models and collaborate on ML/AI research projects.

Open Source Community

Contribute to public projects, report issues, submit fixes and learn from others.

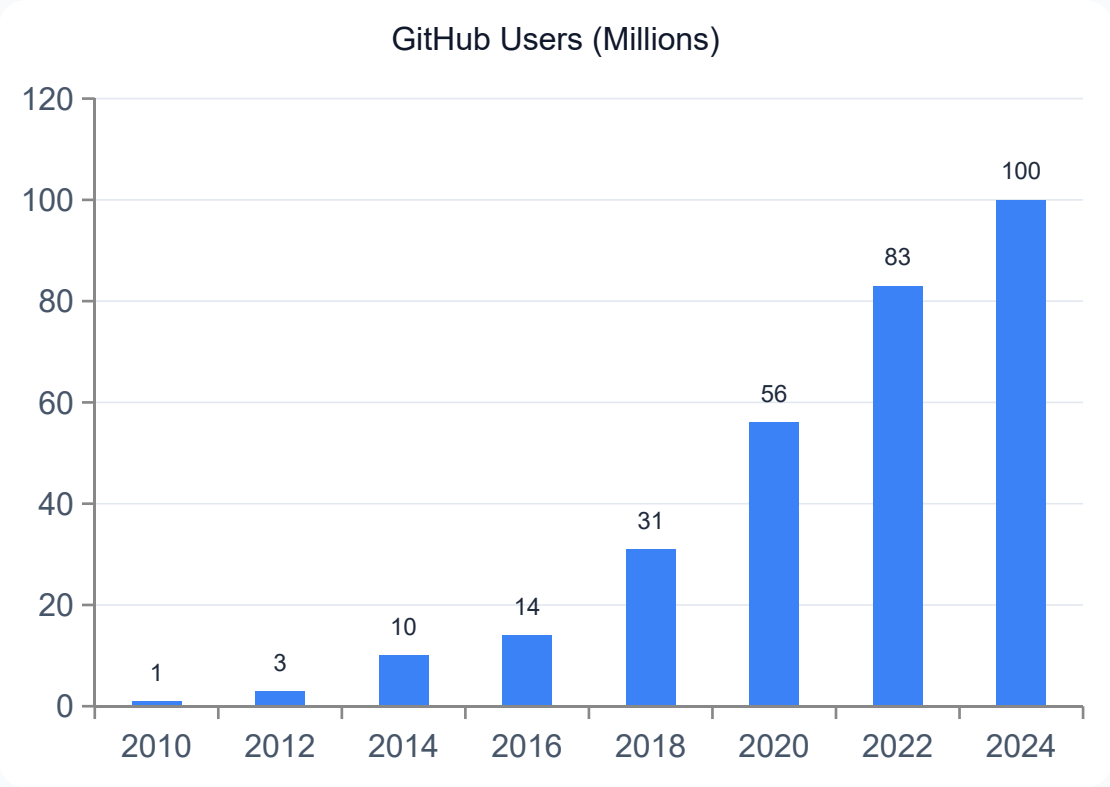
DevOps Engineers

Automate CI/CD pipelines, infrastructure-as-code, and deployment workflows.

Writers & Designers

Track document versions, collaborate on content and manage creative project history.

GitHub's Explosive Growth Over the Years



2008

Year Founded

100M+

Developers (2024)

420M+

Total Repositories

4M+

Organizations Using It

When & Who Created Git & GitHub?

GIT — Created 2005

Creator: Linus Torvalds
Date: April 7, 2005
Why: BitKeeper (used by Linux kernel team) became proprietary — Torvalds built Git in just 2 weeks!

GITHUB — Founded 2008

Founders: Tom Preston-Werner, Chris Wanstrath, PJ Hyett & Scott Chacon
Date: April 10, 2008 (launched)
Acquired by Microsoft in 2018 for $7.5 Billion.

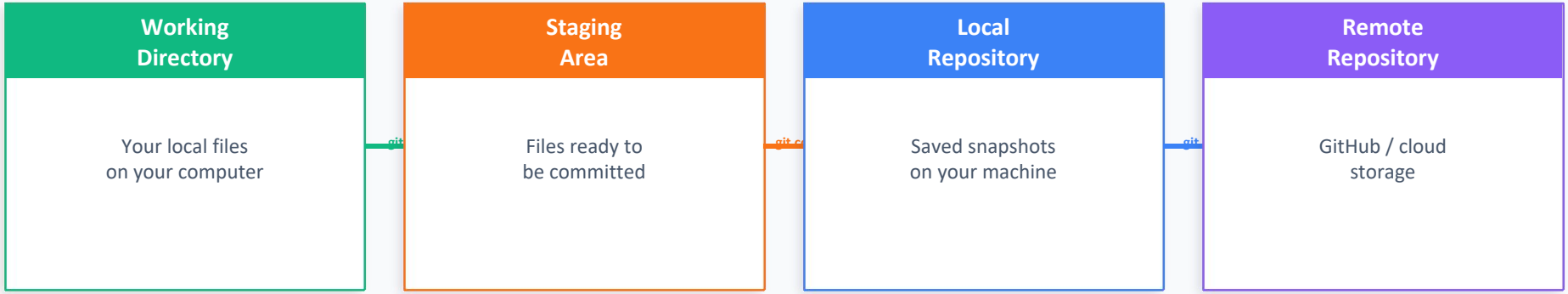
2005

2005 — Linus releases Git v1.0 publicly

2008 — GitHub launches, 46K repos in first year

2018 — Microsoft acquires GitHub for $7.5B

How Git Works — Core Concepts



Repository (Repo)

A folder tracked by Git containing your project files and the entire history of changes.

Branch

A parallel version of your project where you can safely make changes without affecting the main code.

Merge / Pull Request

Combining changes from one branch into another. Pull Requests (PRs) are GitHub's review mechanism.

Commit

A snapshot of your changes saved with a message describing what was changed and why.

Summary & Key Takeaways



Git is a free, distributed version control system that tracks code changes locally on your machine.



GitHub is a cloud platform that hosts Git repositories and adds powerful collaboration features.



Anyone can use Git & GitHub — developers, students, data scientists, writers, and more.



Git was created by Linus Torvalds in 2005; GitHub was founded by Preston-Werner & team in 2008.



Key concepts: repositories, commits, branches, merging, and pull requests — the building blocks.



Learning Git & GitHub is an essential, career-boosting skill for anyone working in technology.

Thank You! · Start your Git journey today at git-scm.com · Explore GitHub at github.com