Version control using
Git and github.com

About Me

- Akinjobi Sodiq
- WordPress Evangelist
- Web developer
- Love teaching math and code

@geektutor @geektutor

Topics

➜ **Version Control**

➜ **Git**.

➜ **Github**

QUICK STORY

> Ade and John are working on a website for UNIBEN

> It has to be ready before christmas, so they decide to start on Dec 1st

> They start working on the front end first(html and css and javascript), they work on different parts, Ade works on html and css, john works on javascript. They use flash drives to share their work

> John has to travel to Kano for an impromptu event which shouldn't take up to a week. He decides to complete the javascript part

> The impromptu stuff takes more time than John expected. It's a week to christmas and the project isn't ready

> Uniben VC contacts Ade about the website. Ade relays this to John, They decide to do massive coding so the project is completed on time

> John comes back 3 days to christmas with 400 extra lines of Javascript and meets ade with 600 extra lines of html and css

> They try to connect their code together and start seeing errors scattered across the codebase

> They get frustrated, start blaming one another and abandoned the project

VERSION CONTROL

Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later.

It allows you to
- Revert files to a previous state
- Revert a project to a previous state
- Keep version of files
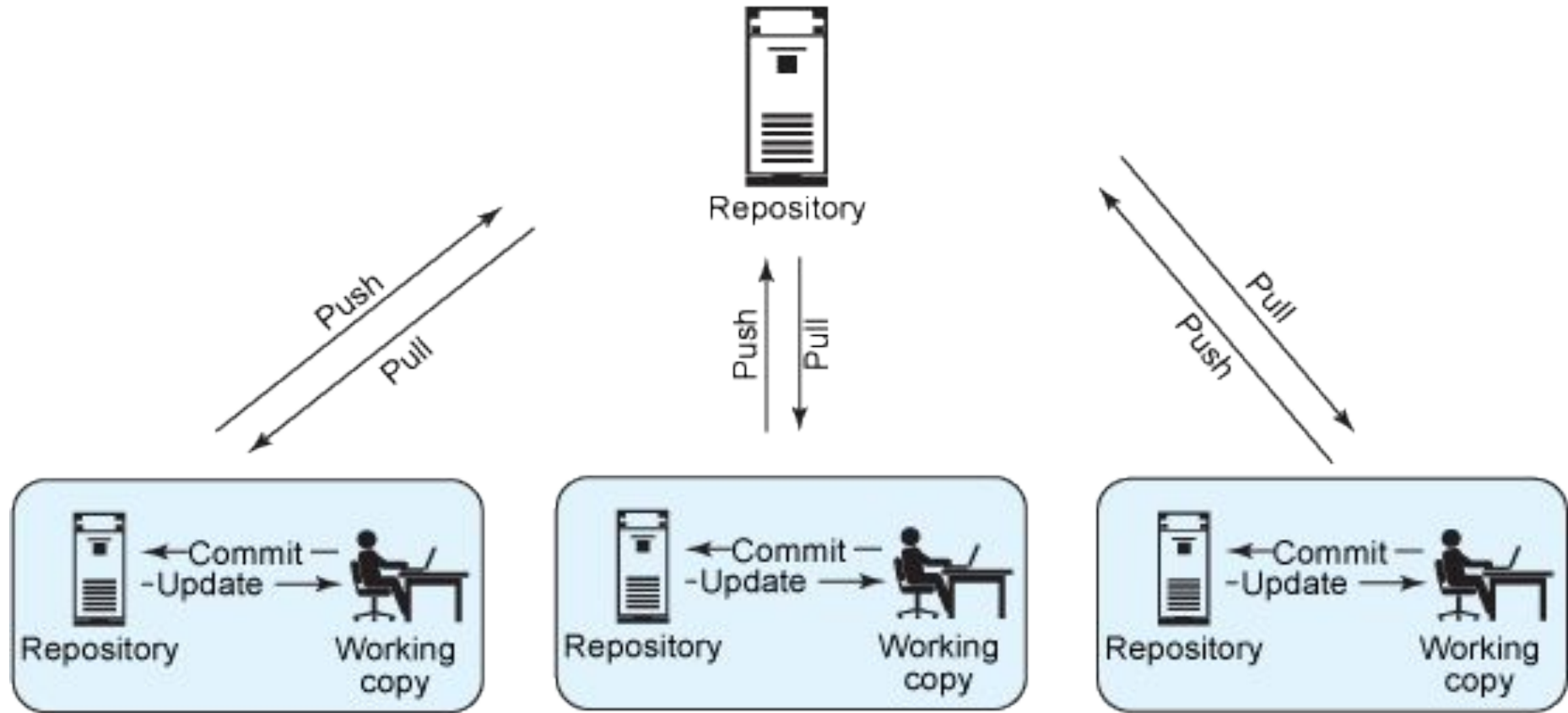- See who modified what? And much more

Popular VCS.

- Subversion(SVN)

- Concurrent Version System(CVS)

- Mercurial

- **Git**

GIT

- Developed by Linus Torvalds, creator of Linux operating system, in 2005

- Type of Distributed Version Control

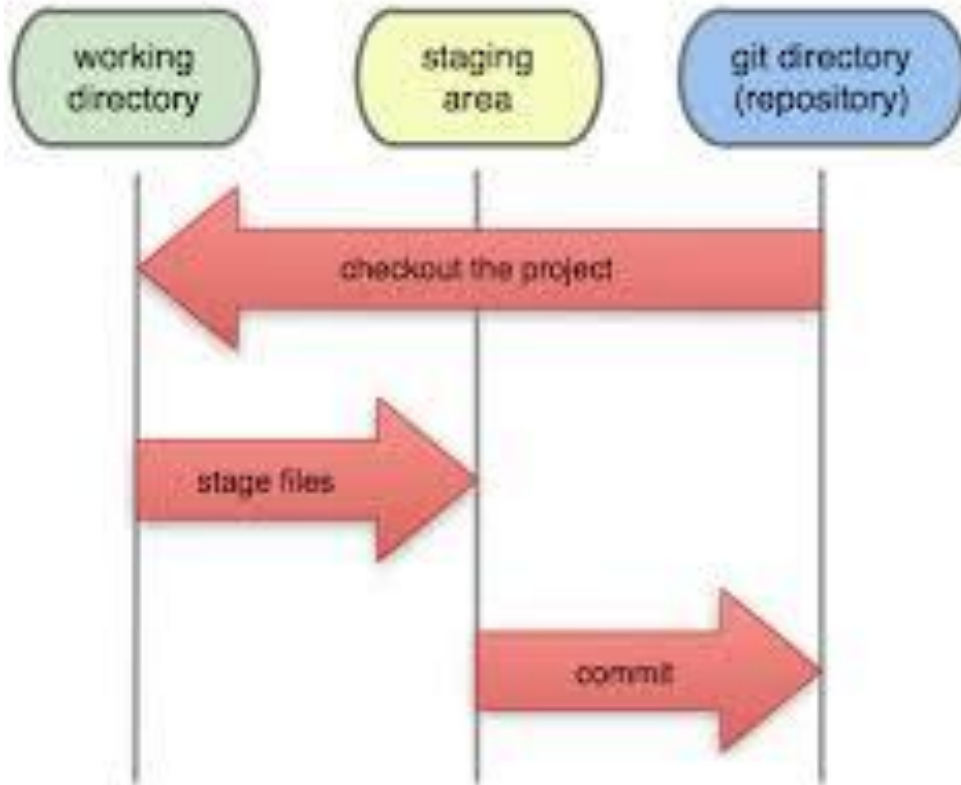- Most popular version control system
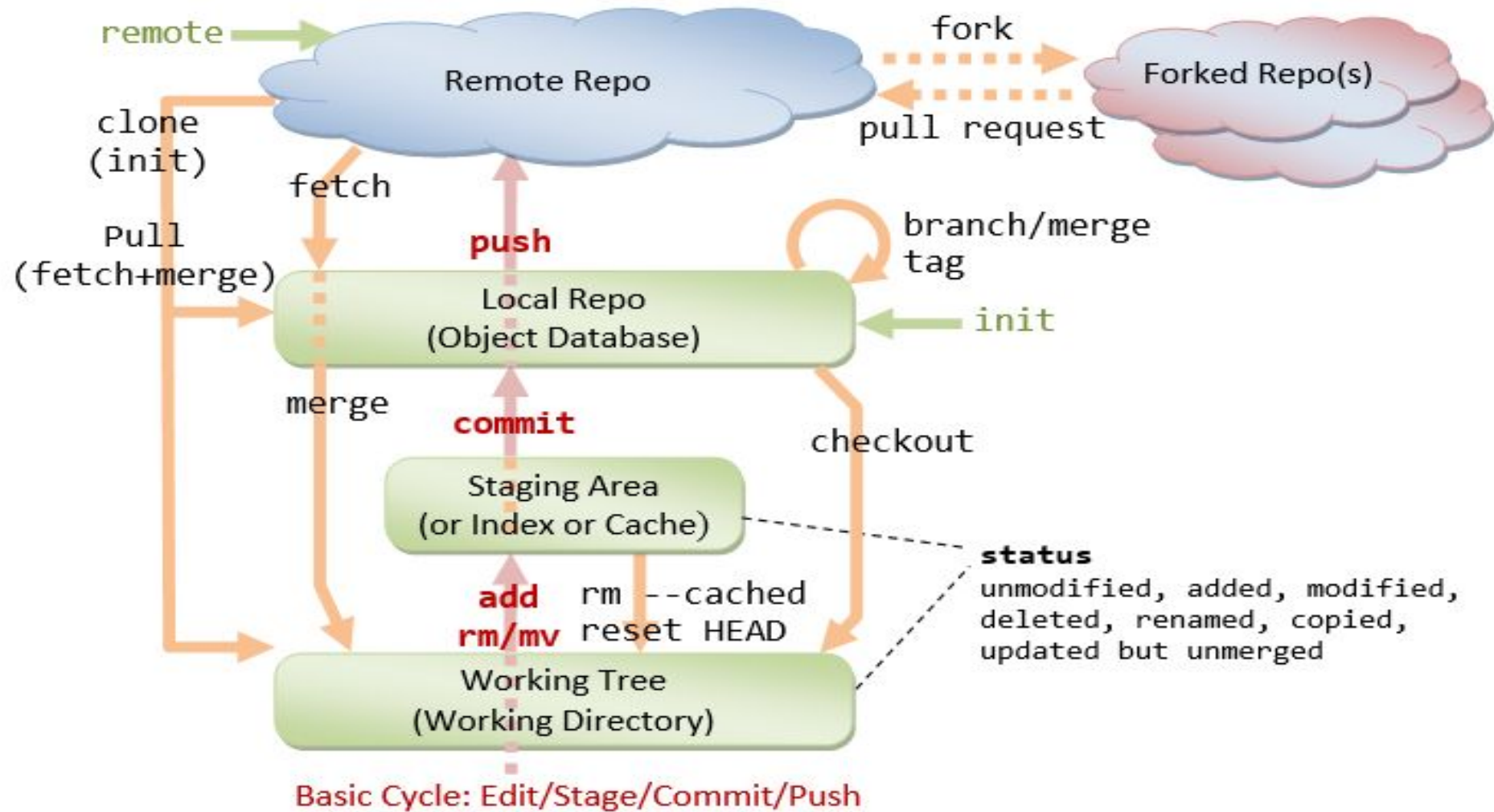
Distributed version control system

Repository

Push / Pull

Push / Pull

Pull / Push

Repository — Commit — Update → Working copy

Repository — Commit — Update → Working copy

Repository — Commit — Update → Working copy

HOW GIT WORKS

Local Operations

working directory — staging area — git directory (repository)

checkout the project

stage files

commit

Git flow on local system

Basic Cycle: Edit/Stage/Commit/Push

GIT BUZZWORDS

Repository

branch

init

Add

Commit

Push

Pull

Fork

Merge

Pull request

Let's look at that
scary image again

remote

Remote Repo

fork

Forked Repo(s)

clone
(init)

fetch

pull request

Pull
(fetch+merge)

push

branch/merge
tag

Local Repo
(Object Database)

init

merge

commit

checkout

Staging Area
(or Index or Cache)

status
unmodified, added, modified,
deleted, renamed, copied,
updated but unmerged

add
rm/mv

rm --cached
reset HEAD

Working Tree
(Working Directory)

Basic Cycle: Edit/Stage/Commit/Push
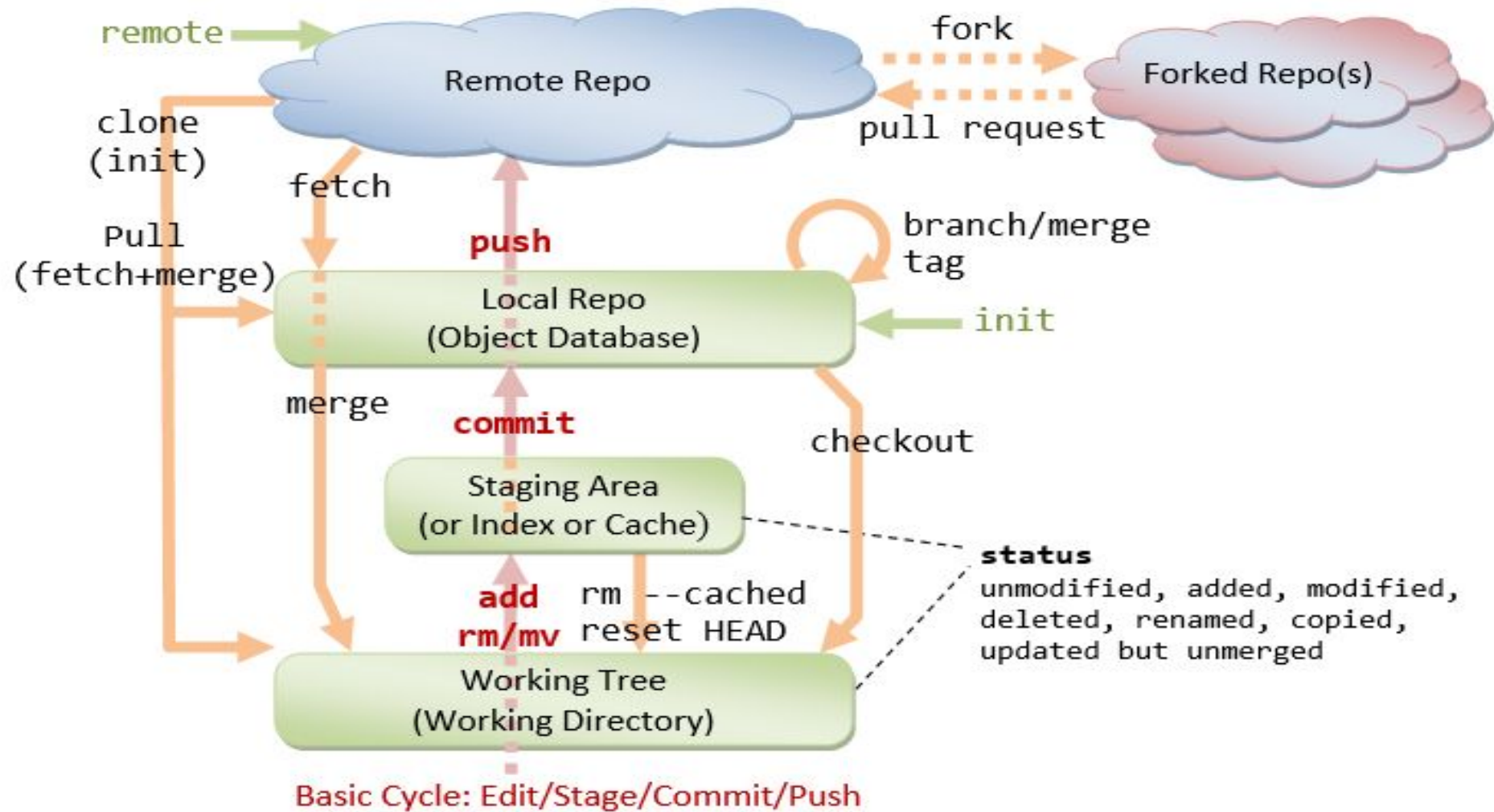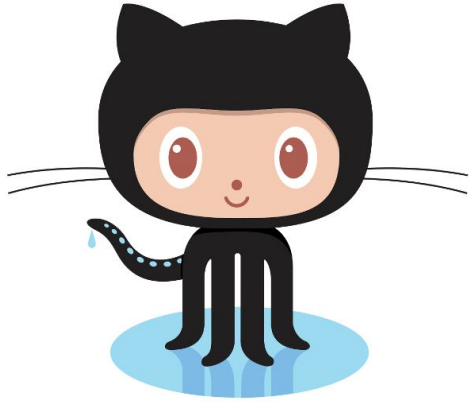
GITHUB

- Web based

- repository hosting service for Git

- Relatively free

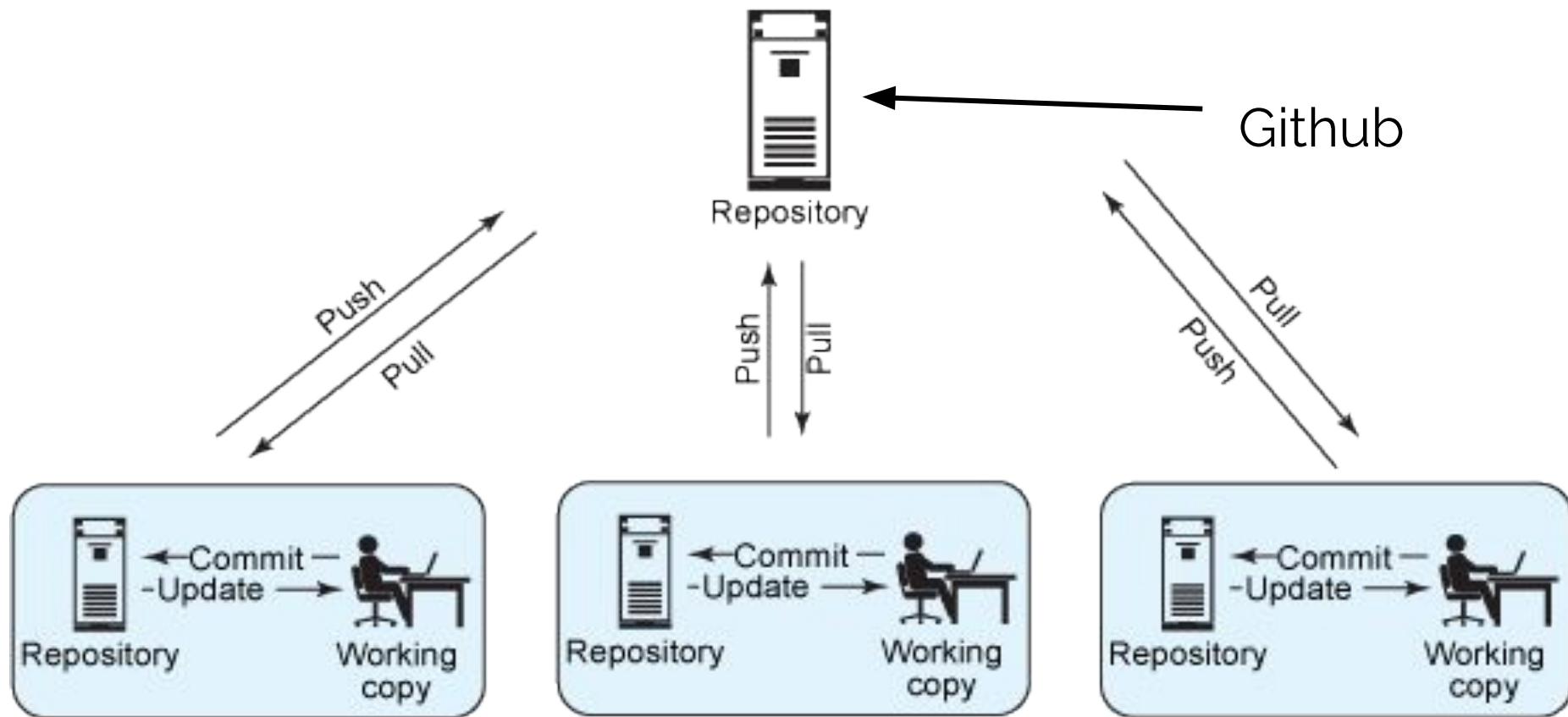Aids in

- Individual development
- Group development

Git

- Example of version control

- command line tool

Github

> repository hosting service for git

> web graphical interface that works on top of git

> social platform for developers

> online CV

Distributed version control system

Github

Overview   Repositories 16   Stars 46   Followers 5   Following 5

Popular repositories

Customize your pinned repositories

wp-rest-theme
Forked from gilbitron/wp-rest-theme

A WordPress theme powered by the WordPress REST API and Vue.js

● Vue

briar
Forked from themejack/briar

Briar, minimalist free WordPress theme

● JavaScript

Shopify-To-WC-Importer
Forked from CrushAgency/Shopify-To-WC-Importer

Shopify To Woocommerce Importer Using PHP [For WP]

● PHP

in-the-beginning
Forked from cdils/in-the-beginning

Mobile-first, Sass starter theme loosely based on the Genesis Sample Theme

● CSS

100-days-of-code
Forked from kallaway/100-days-of-code

image-upload

A simple image pulling code

Sodiq Akinjobi
geektutor

I write and learn to use Android, Java, PHP, JS, CSS, and HTML everyday. I create projects using WordPress. I am The Geektutor.

Edit bio

◎ Lagos, Nigeria

http://www.erupt.online

Search or jump to...

Create a new repository

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

Owner   **Repository name**

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Great repository names are short and memorable. Need inspiration? How about **scaling-fortnight**.

Description (optional)

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** ▾ ⓘ

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<> Code   ⊙ Issues 0   ⑂ Pull requests 0   ▦ Projects 0   ▥ Wiki   ⅼⅼ Insights   ⚙ Settings

No description, website, or topics provided.

Add topics

Edit

⊙ **7** commits   ⑂ **1** branch   ⬷ **0** releases   ⬚ **2** contributors

Branch: **master** ▾   New pull request

Create new file   Upload files   Find file   Clone or download ▾

Preyous added csv, added mailer import   Latest commit 8e35c8f 6 days ago

📁 css	First commit	11 days ago
📁 img	First commit	11 days ago
📁 js	First commit	11 days ago
📁 mail	added csv, added mailer import	6 days ago
📁 v	First commit	11 days ago
📁 vendor	added my mini library and adjusted your file	8 days ago

Resources

> codecademy.com

> help.github.com

> guides.github.com

>https://git-scm.com/book/en/v2/Getting-Started-Installing-Git

>https://www.atlassian.com/git/tutorials/install-git#windows

THANKS