**Git Real 1**

**Version Control Systems**

Works for more than one person and merges the files that are getting changed and uploaded unlike FTP.

Distributed Repository

Everyone has a copy.

Centralized Repository

Relies on the server to keep the main copy

**Working with git**

Command line interface

Many GUI tools available

**Git help**

git help

git help theCommandYouWantToSee

**Setting up Git**

Set up your user name

git config --global user.name “Karl Rohr”

Set up your email

git config --global user.email [kjrohr@fullsail.edu](mailto:kjrohr@fullsail.edu)

If you want colors to help readability

git config --global color.ui true

**Starting A Repo**

Open terminal

Make a directory

mkdir directoryName

Change directory

cd directoryName

git init

Initialized empty Git repository in /users/you

This is local, not stored on a remote server

**Git work flow**

Jane creates a readme.txt file

Starts untracked

Add file to staging area

Getting ready to take a picture

Commit changes

A snapshot of those on the stage

Jane modifies README.txt file and adds LICENSE

Add both files to staging area

Commit changes

**Git Commands**

git status

To check what’s changed since the last commit

It shows tracked and untracked files

git add filename

This adds a file to the staging area

git add --all

This adds all files in the directory to the staging area

git commit -m “Commit Message”

This commits the changes to the local repo but not the remote.

git log

This is the entire log for the repo

It shows the author, date, and commit sha key