Git is the open source distributed version control system that facilitates GitHub activities on your laptop or desktop.

**INSTALL GIT**

**Git for All Platforms**

http://git-scm.com

GIT CHEAT SHEET

**MAKE CHANGES**

Review edits and craft a commit transaction

**$ git status**

Lists all new or modified files to be committed

**$ git add [file]**

Snapshots the file in preparation for versioning

**$ git reset [file]**

Unstages the file, but preserve its contents

**$ git diff**

Shows file differences not yet staged

**$ git diff --staged**

Shows file differences between staging and the last file version

**$ git commit -m "[descriptive message]"**

Records file snapshots permanently in version history

**CONFIGURE TOOLING**

Configure user information for all local repositories

**$ git config --global user.name "[name]"**

Sets the name you want attached to your commit transactions

**$ git config --global user.email "[email address]"**

Sets the email you want attached to your commit transactions

**$ git config --global color.ui auto**

Enables helpful colorization of command line output

**CREATE REPOSITORIES**

Start a new repository or obtain one from an existing URL

**$ git init [project-name]**

Creates a new local repository with the specified name

**$ git clone [url]**

Downloads a project and its entire version history

**GROUP CHANGES**

Name a series of commits and combine completed efforts

**$ git branch**

Lists all local branches in the current repository

**$ git branch [branch-name]**

Creates a new branch

**$ git checkout [branch-name]**

Switches to the specified branch and updates the working directory

**$ git merge [branch]**

Combines the specified branch’s history into the current branch

**$ git branch -d [branch-name]**

Deletes the specified branch

V 1.1.1

SHEET

**SYNCHRONIZE CHANGES**

Register a repository bookmark and exchange version history

**$ git fetch [bookmark]**

Downloads all history from the repository bookmark

**$ git merge [bookmark]/[branch]**

Combines bookmark’s branch into current local branch

**$ git push [alias] [branch]**

Uploads all local branch commits to GitHub

**$ git pull**

Downloads bookmark history and incorporates changes

**REFACTOR FILENAMES**

Relocate and remove versioned files

**$ git rm [file]**

Deletes the file from the working directory and stages the deletion

**$ git rm --cached [file]**

Removes the file from version control but preserves the file locally

**$ git mv [file-original] [file-renamed]**

Changes the file name and prepares it for commit

**REDO COMMITS**

Erase mistakes and craft replacement history

**$ git reset [commit]**

Undoes all commits after [commit], preserving changes locally

**$ git reset --hard [commit]**

Discards all history and changes back to the specified commit

**REVIEW HISTORY**

Browse and inspect the evolution of project files

**$ git log**

Lists version history for the current branch

**$ git log --follow [file]**

Lists version history for a file, including renames

**$ git diff [first-branch]...[second-branch]**

Shows content differences between two branches

**$ git show [commit]**

Outputs metadata and content changes of the specified commit

**SUPPRESS TRACKING**

Exclude temporary files and paths

**$ git ls-files --other --ignored --exclude-standard**

Lists all ignored files in this project

**\*.log**

**build/**

**temp-\***

A text file named .gitignore suppresses accidental versioning of

files and paths matching the specified patterns