# **Git Cheat Sheet**



### GIT BASICS

Create empty Git repo in specified directory. Run with no arguments to initialize the current directory as a git repository.
Clone repo located at <repo> onto local machine. Original repo can be located on the local filesystem or on a remote machine via HTTP or SSH.</repo>
Define author name to be used for all commits in current repo. Devs commonly useglobal flag to set config options for current user.
Stage all changes in <directory> for the next commit.  Replace <directory> with a <file> to change a specific file.</file></directory></directory>
Commit the staged snapshot, but instead of launching a text editor, use <message> as the commit message.</message>
List which files are staged, unstaged, and untracked.
Display the entire commit history using the default format. For customization see additional options.
Show unstaged changes between your index and working directory.

# UNDOING CHANGES

git revert <commit></commit>	Create new commit that undoes all of the changes made in <commit>, then apply it to the current branch.</commit>
git reset <file></file>	Remove <file> from the staging area, but leave the working directory unchanged. This unstages a file without overwriting any changes.</file>
git clean -n	Shows which files would be removed from working directory.  Use the -f flag in place of the -n flag to execute the clean.

### **REWRITING GIT HISTORY**

git commit amend	Replace the last commit with the staged changes and last commit combined. Use with nothing staged to edit the last commit's message.
git rebase <base/>	Rebase the current branch onto <base/> . <base/> can be a commit ID, branch name, a tag, or a relative reference to HEAD.
git reflog	Show a log of changes to the local repository's HEAD.  Add —relative—date flag to show date info or —all to show all refs.

# **GIT BRANCHES**

git branch	List all of the branches in your repo. Add a <branch> argument to create a new branch with the name <branch>.</branch></branch>
git checkout -b  oranch>	Create and check out a new branch named <branch>.  Drop the -b flag to checkout an existing branch.</branch>
git merge <branch></branch>	Merge <branch> into the current branch.</branch>

# REMOTE REPOSITORIES

git remote add <name> <url></url></name>	Create a new connection to a remote repo. After adding a remote, you can use <name> as a shortcut for <url> in other commands.</url></name>
git fetch <remote> <branch></branch></remote>	Fetches a specific <branch>, from the repo. Leave off <branch> to fetch all remote refs.</branch></branch>
git pull <remote></remote>	Fetch the specified remote's copy of current branch and immediately merge it into the local copy.
git push <remote> <branch></branch></remote>	Push the branch to <remote>, along with necessary commits and objects. Creates named branch in the remote repo if it doesn't exist.</remote>

