Git Cheat Sheet

Download via https://alta3.com/posters/git.pdf

Configure / Set User Information

`git config –global user.name [name]`	
Sets the name to associate with commit actions	
`git config –global user.email [email]`	
Sets the email address to associate with commit actions	
`git config –global color.ui auto`	
Colorize output at the CLI	

Create Repositories

`git init [project name]`
Create a new repo with [project name]
`git clone [url]`
Downloads a project along with its history

Relocating and Removing Version Controlled Files

`git rm [file]`
Delete file from working directory and stage deletion
`git rm --cached [file]`
Removes the file from version control but keeps local
`git mv [file-original] [file-rename]`
Changes the file name and prepare it for commit
`git reset [commit]`
Undoes all commits after the [commit] but keeps local

Building a Commit

`git status`
List all the files staged (ready to be committed)
`git diff`
Shows deltas of files not yet staged
`git add [file]`
Add a file to the staging area
`git diff --staged`
Show differences between staging and last file version
`git reset [file]`
Remove file form the staging area
`git commit -m "[description]"`
Create a new commit and apply the description

Reviewing Commit History

`git log`
Lists version history of the current branch
`git log --follow [file]`
List the version history for the file, including all renames
`git diff [branch] [some other branch]`
Displays differences across branches
`git show [commit]`
Outputs metadata and content changes of commit

Branch Commands

`git branch`
Lists all local branches in the current repo
`git branch [branch-name]`
Creates a new branch
`git checkout [branch-name]`
Switch to a branch and update working directory
`git merge [branch-name]`
Combine specified branch history into current branch
`git branch -d [branch-name]`
Delete a specified branch

Sync Changes Across Repos

`git fetch [bookmark]`
Download all history from the repository bookmark
`git merge [bookmark]/[branch]`
Combines bookmark's branch into a single branch
`git push [alias] [branch]`
Uploads all local branch commits to (GitHub)
`git pull`
Downloads bookmark history and incorporate changes
`git reset –hard [commit]`
Discard all history and changes back to the commit