	Git Setup		
git init [di	rectory]	create a Git repository from an exi directory	isting
git clone	[repo / URL]	clone / download a repository ont local machine	0
git clone	[URL] [folder]	clone a repository from a remote location into a specified folder [fol on your local machine	der]

	Git B	ranches	
git branch		list all branches in the rep	oository
git branch	-a	list all remote branches	
git branch	[branch]	create a new branch und specified name	er the
git checko	ut [branch]	switch to another branch existing one or by creating one under the specified r	g a new
git branch	-d [branch]	delete a local branch	
git branch [new_bran		rename the branch you a currently working in	ire
git merge	[branch]	merge the specified bran current branch	ch with the

Undoing Changes	
git revert [file/directory]	undo all changes in the specified file/directory by creating a new commit and applying it to the current branch
git reset [file]	unstage the specified file without overwriting changes
git reset [commit]	undo all changes that happened after the specified commit
git clean -n	see which files should be removed from the current directory
git clean -f	remove the unnecessary files in the directory

Git Configuring git config --global user. current user

set an author name that will be name "[your_name]" attached to all commits by the git config --global user. set an email address that will be email " attached to all commits by the [email_address]" current user git config --global set Git's automatic command line color.ui auto coloring create a shortcut (alias) for a Git git config --global alias. [alias_name] command [git_command] git config --system set a default text editor for all the core.editor users on the machine [text_editor] git config --global --edit open Git's global configuration

Rewriting History

git commitamend	replace the last commit with a combination of the staged changes and the last commit combined
git rebase [base]	rebase the current branch with the specified base (it can be a branch name, tag, reference to a HEAD, or a commit ID)
git reflog	list changes made to the HEAD of the local repository

Making Changes

git add [file/directory]	stage changes for the next commit
git add .	stage everything in the directory for an initial commit
git commit -m " [descriptive_message]"	commit the previously staged snapshot in the version history with a descriptive message included in the command

Managing Files

git statu	IS	show the state of the current directory (along with staged, unstaged, and untracked files)
git log		list the complete commit history of the current branch
git log	all	list all commits from all branches
git log [k	oranch1][branch2]	show which commits are on the first branch, but not on the second one
git diff		see the difference between the working directory and the index (which changes have not been commited yet)
get diff	cached	see the difference between the last commit and the index
get diff	HEAD	see the difference between the last commit and the working directory
git show	ı [object]	show the content and metadata of an object (blob, tree, tag, or commit)

Remote Repositories

git remote add [name] [URL]	create a new connection to a remote repository and give it a name to serve as a shortcut to the URL
git fetch [remote_repo] [branch]	fetch a branch from a remote repository
git pull [remote_repo]	fetch the specified repository and merge it with the local copy
git push [remote_repo] [branch]	push a branch to a remote repository with all its commits and objects