



Git Cheat Sheet			
<h2>Setup</h2> <p>Set the name and email that will be attached to your commits and tags</p> <pre>\$ git config --global user.name "Danny Adams" \$ git config --global user.email "my-email@gmail.com"</pre>		<h2>Rebasing</h2> <p>Rebase feature branch onto main (to incorporate new changes made to main). Prevents unnecessary merge commits into feature, keeping history clean</p> 	
<h2>Branches</h2> <p>List all local branches. Add -r flag to show all remote branches. -a flag for all branches.</p> <pre>\$ git branch</pre> <p>Create a new branch</p> <pre>\$ git branch <new-branch></pre> <p>Switch to a branch & update the working directory</p> <pre>\$ git checkout <branch></pre> <p>Create a new branch and switch to it</p> <pre>\$ git checkout -b <new-branch></pre> <p>Delete a merged branch</p> <pre>\$ git branch -d <branch></pre> <p>Delete a branch, whether merged or not</p> <pre>\$ git branch -D <branch></pre> <p>Add a tag to current commit (often used for new version releases)</p> <pre>\$ git tag <tag-name></pre>		<h2>Review your Repo</h2> <p>List new or modified files not yet committed</p> <pre>\$ git status</pre> <p>List commit history, with respective IDs</p> <pre>\$ git log --oneline</pre> <p>Show changes to unstaged files. For changes to staged files, add --cached option</p> <pre>\$ git diff</pre> <p>Show changes between two commits</p> <pre>\$ git diff commit1_ID commit2_ID</pre>	
<h2>Start a Project</h2> <p>Create a local repo (omit <directory> to initialise the current directory as a git repo)</p> <pre>\$ git init <directory></pre> <p>Download a remote repo</p> <pre>\$ git clone <url></pre>		<h2>Stashing</h2> <p>Store modified & staged changes. To include untracked files, add -u flag. For untracked & ignored files, add -a flag.</p> <pre>\$ git stash</pre> <p>As above, but add a comment.</p> <pre>\$ git stash save "comment"</pre> <p>Partial stash. Stash just a single file, a collection of files, or individual changes from within files</p> <pre>\$ git stash -p</pre> <p>List all stashes</p> <pre>\$ git stash list</pre> <p>Re-apply the stash without deleting it</p> <pre>\$ git stash apply</pre> <p>Re-apply the stash at index 2, then delete it from the stash list. Omit stash@{n} to pop the most recent stash.</p> <pre>\$ git stash pop stash@{2}</pre> <p>Show the diff summary of stash 1. Pass the -p flag to see the full diff.</p> <pre>\$ git stash show stash@{1}</pre>	
<h2>Make a Change</h2> <p>Add a file to staging</p> <pre>\$ git add <file></pre> <p>Stage all files</p> <pre>\$ git add .</pre> <p>Commit all staged files to git</p> <pre>\$ git commit -m "commit message"</pre> <p>Add all changes made to tracked files & commit</p> <pre>\$ git commit -am "commit message"</pre>		<h2>Undoing Things</h2> <p>Move (&/or rename) a file & stage move</p> <pre>\$ git mv <existing_path> <new_path></pre> <p>Remove a file from working directory & staging area, then stage the removal</p> <pre>\$ git rm <file></pre> <p>Remove from staging area only</p> <pre>\$ git rm --cached <file></pre> <p>View a previous commit (READ only)</p> <pre>\$ git checkout <commit_ID></pre> <p>Create a new commit, reverting the changes from a specified commit</p> <pre>\$ git revert <commit_ID></pre> <p>Go back to a previous commit & delete all commits ahead of it (revert is safer). Add --hard flag to also delete workspace changes (BE VERY CAREFUL)</p> <pre>\$ git reset <commit_ID></pre>	
<h2>Basic Concepts</h2> <p>main: default development branch origin: default upstream repo HEAD: current branch HEAD^: parent of HEAD HEAD~4: great-great grandparent of HEAD By @ Doable Danny</p>		<h2>Merging</h2> <p>Merge branch a into branch b. Add --no-ff option for no-fast-forward merge</p>  <pre>\$ git checkout b \$ git merge a</pre> <p>Merge & squash all commits into one new commit</p> <pre>\$ git merge --squash a</pre>	
		<h2>Synchronizing</h2> <p>Add a remote repo</p> <pre>\$ git remote add <alias> <url></pre> <p>View all remote connections. Add -v flag to view urls.</p> <pre>\$ git remote</pre> <p>Remove a connection</p> <pre>\$ git remote remove <alias></pre> <p>Rename a connection</p> <pre>\$ git remote rename <old> <new></pre> <p>Fetch all branches from remote repo (no merge)</p> <pre>\$ git fetch <alias></pre> <p>Fetch a specific branch</p> <pre>\$ git fetch <alias> <branch></pre> <p>Fetch the remote repo's copy of the current branch, then merge</p> <pre>\$ git pull</pre> <p>Move (rebase) your local changes onto the top of new changes made to the remote repo (for clean, linear history)</p> <pre>\$ git pull --rebase <alias></pre> <p>Upload local content to remote repo</p> <pre>\$ git push <alias></pre> <p>Upload to a branch (can then pull request)</p> <pre>\$ git push <alias> <branch></pre>	