# Git

## Setting up your account

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| 1. | Create an account on Gitlab, Github |
| 2. | Download VS code, then git bash |
| 3. (Paste in Git bash) | git config --global user.email "YOUR\_EMAIL" |
| 4. | Create a destination for your git repo (Any file wherever) |
| 5. | cd (Paste file path for your destination) |
| 6. (IMPORTANT) | cd ~/.ssh |
| 7. (Paste in Terminal) | ssh-keygen -t ed25519 -C "youremail.com" #(Stronger)  #> Action - Press Enter in everything |
| 8. Copy the key | Powershell: Get-Content Git.pub | Set-Clipboard (Same directory) |
| 9. | Paste the key in Profile > Settings > SSH and GPG keys > Add SSH Key |
| 10. | Add key and test with git pull / push |

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| Git command | Niche use case | What it does |
| cd [file] |  | Change directory to the [file] |
| cd .. |  | Change to parent directory |
| ls -la |  | List all files in current directory |
| git add [file] | “git add . “ adds all local modified files | Tells git to prepare which files to commit specifically |
| git commit -m “[text]” -m “[text]” |  | Saves that version of your software as a commit |
| git pull |  | Pulls new updates from your remote repository |
| git fetch |  | Works like git pull, but only displays updates for remote branches without merging, done when you expect conflicts |
| git push |  | Pushes your commits and new updates onto the remote repository |
| git reset |  | Run back on |
| git status |  | Shows the branch you are on and all branches in the repo |
| git branch [name] | -u (set upstream) | Creates a branch away from the branch you are on |
| git merge [branch\_target] |  | Merges the branch you are on with the branch specified; you will see the branch you are on change |
| git checkout -b [name] or [branch\_target] |  | Changes branch you are on to target branch or creates new branch with name specified. |

## Merge conflicts

These are conficts that happen when you try to merge a branch with another, you will tend to resolve it by looking at the conflict and deciding on which changes to keep or remove.