**Git Cheat Sheet**

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| **Create** |
| Create a new local repository |
| **$ git init** |
| Download an existing repository with credentials in yellow. |
| **$ git clone https://token@github.com:user/archivo-git.git** |

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| **Configuration** |
| Set a edit user name ( “--global” default) |
| **$ git config user.name [GitHub user name]**  **$ git config --global user.name [GitHub user name]** |
| Set a edit user email ( “--global” default) |
| **$ git config user.email [GitHub email]**  **$ git config --global user.email [GitHub email]** |

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| **Make a change** |
| Add file to staging area (SA) |
| **$ git add [file name]** |
| Add all files to SA |
| **$ git add .** |
| Commit all staged files to versioned history |
| **$ git commit –m “commit message”** |

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| **Status** |
| List new or modified files not yet committed |
| **$ git status** |
| Show the changes to files not yet staged |
| **$ git diff** |
| Show the changes to staged files |
| **$ git diff --cached** |
| Show all staged and unstaged file changes |
| **$ git diff HEAD** |
| Show the changes between two commit ids |
| **$ git diff commit1 commit2** |
| List the change dates and authors for a file |
| **$ git blame [file]** |
| Show the file changes for a commit id and/or file |
| **$ git show [commit]:[file]** |
| Show full change history |
| **$ git log** |
| Show change history for file/directory including diffs |
| **$ git log -p [file/directory]** |

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| **Working with Branches** |
| List all local branches |
| **$ git branch** |
| Create a new branch called new\_branch |
| **$ git branch new\_branch** |
| List all branches, local and remote |
| **$ git branch -av** |
| Switch to a branch, my\_branch, and update  working directory |
| **$ git checkout my\_branch** |
| Delete the branch called my\_branch |
| **$ git branch -d my\_branch** |
| Merge branch\_a into branch\_b |
| **$ git checkout branch\_b**  **$ git merge branch\_a** |
| Tag the current commit |
| **$ git tag my\_tag** |

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| **Remove** |
| Delete file from the directory and puts in the SA |
| **$ git rm [file]** |
| Remove the file from SA, but preserve the file at directory. |
| **$ git rm --cached [file]** |
| **Synchronize** |
| Get the latest changes from origin (no merge) |
| **$ git fetch origin branch\_a** |
| Fetch the latest changes from origin and merge |
| **$ git pull origin branch\_a** |
| Fetch the latest changes from origin and rebase |
| **$ git pull –rebase origin branch\_a** |
| Push local changes to the origin |
| **$ git push -u origin branch\_a** |

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| **Redo commits** |
| Undoes all commits after [commit], preserving changes locally |
| **$ git reset [commit]** |
| Discards all history and changes back to the specified commit |
| **$ git reset --hard [commit]** |

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| **Remote Repository** |
| Show the name of remote repository |
| **$ git remote** |
| Show the url repository vinculated |
| **$ git remote -v** |
| Link the local repository with the remote repository. |
| **$ git remote add origin https://token@github.com:user/file-git.git** |
| Show the remote repositories information |
| **$ git remote show origin** |
| Rename a remote repository |
| **$ git remote rename origin [new\_name]** |
| Unlink a remote repository |
| **$ git remote rm [git\_name]** |