## Git notes

## created in 2005

For each version (commit) git shape a snapshot of all the files in the corresponding repo

SHA-1 Checksums - 40 hera decimal digits Git keeps checksums of the files. This is how it tracks changes in the files.

The 3 states

working story Staging commit Git history.

Area Street Aleo Called Inden

Checkent the project

## @ Git Set up [git config.]

git config --global user. name "Rahul"
git config --global user. email "rahul pylegmail"
git config --global core. editor vim

Checking your setting. 9it config -- list

Getting help

git (verb) -- help man git-kverb> (2) Basic git commands git init git and <file names > git commit -m "~message>" Clone < repo path > git clone http:// - - ... git. git done git:1/ ....git I this use SSH Jit Status git status -s (or -- Short) git ignore Standard glob Patterns

1 Todo — avoid recursitivity

Todo/ — treat Todo as a directory

1 Todo — enaptions

What is changed in the working dir. but not yet staged Cgit diff. What change are staged

git diff -- staged or

git diff -- cached Skipping staging before committing git commit -a -m "<meg>" This will automatically stage all the unstaged changes hemoving file rm PROTECT. md git m PROJECT, ma This stage the file removal. The file is no more tracked. It the file is already staged use -f git rm -f PROJECT.md

I need git rm -- cached README

to try be want the file to be the working directory but.

do not want to be tracked. We however have

staged the file.

git mu file from file to

The above is some as

mu file from file to

git rm file from

git add file to

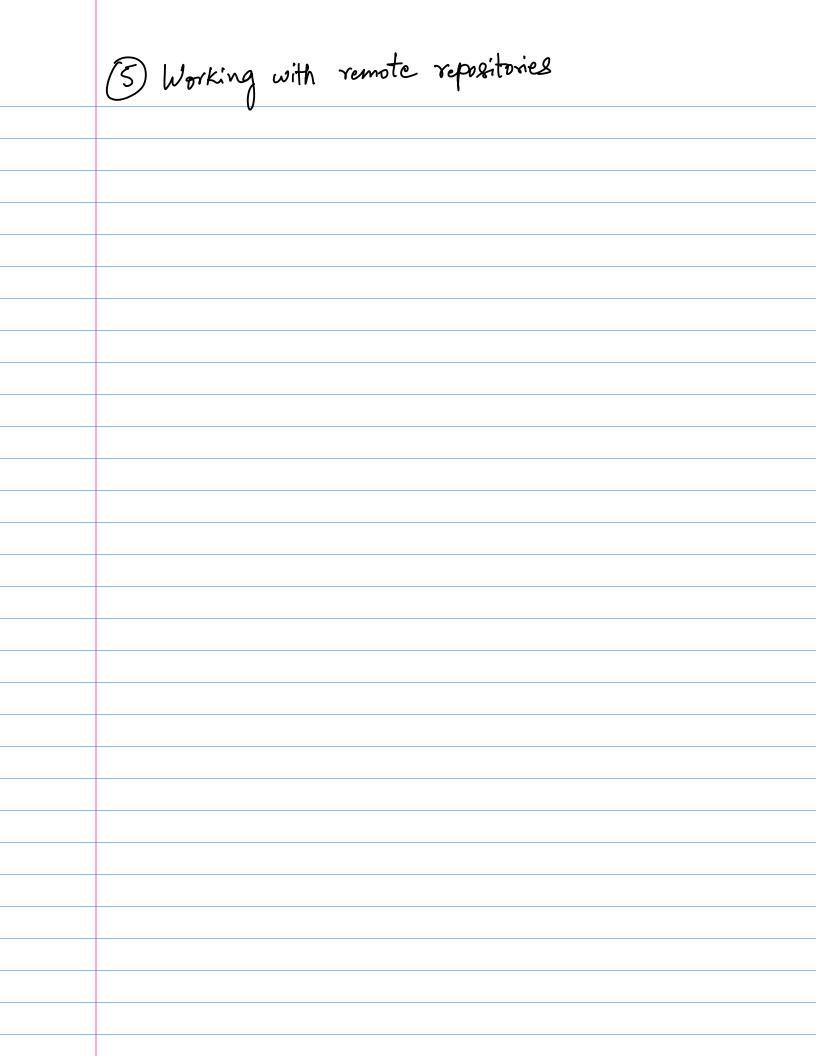
(3) History git log git log -p -2 Show diff of the last 2 commitse git log -- Stat. Tit log -- Pretty = one line git log -- poetly="format: y.h x.s" git log. -- Poetty = "format: 1.h 1.5" --graph Filtering Logs git log -- Since = 2. worke git log -- Since = "2 weekeago"
git log -- Since = "2002-01-15" git log -S (some string) filters -- Since, -- after -- until, -- before -- author -- committer -- greff

(4) Undoing things git commit -- amend. This lets us do 2 things 1) Make changes to the commit contents 2) Make changes to the Commit makage Unstaging Staged changes git root HEAD Lifle> git status command readily provided us the above command Note: git reset -- hard .... is a un size command Undo changes in a modified file git checkant -- <file> Again git status command provides us the slove command Note: The changes lost from the above command are There are some other methods to the same effect at dove method but with an option to recover (1) Stashing A note on data recovery: Any that is committed can almost always be recovered. Eg. Deleted branches or commits that

Anything we lose that was not committed can almost

are overwritten with -- amond

never be recovered.



How to	write	~ 900	d Com	nit mec	sage
.) Separate	Subjec	t from	body	with a	blank
Sometimes	the b	ody is &	simple	that b	ody is not require
		O	·		0

- 2) Limit Subject line to 50 charge
- 3 Capitalize the subject line
- 4) Po not end the subject line with a period
- B Use imerative mood in subject the

Remove depre cated methods

Removed depocated methods X

- 6 Wrap brody at 72 chars
- 1 Use body to explain what and why is how

