

Download for Windows :
<http://git-scm.com>
Ubuntu:
sudo apt-get install git
Mac:
brew install git
or
xcode-select -install

git init .

git status

// added a new file

git status

git add file01.js

git status

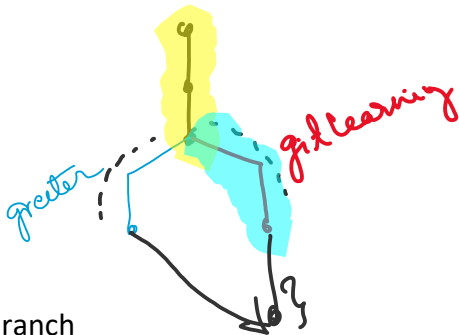
git commit

// wrote commit message and exit

// add new file (file02.js)

git log --oneline --color --graph --decorate

git status

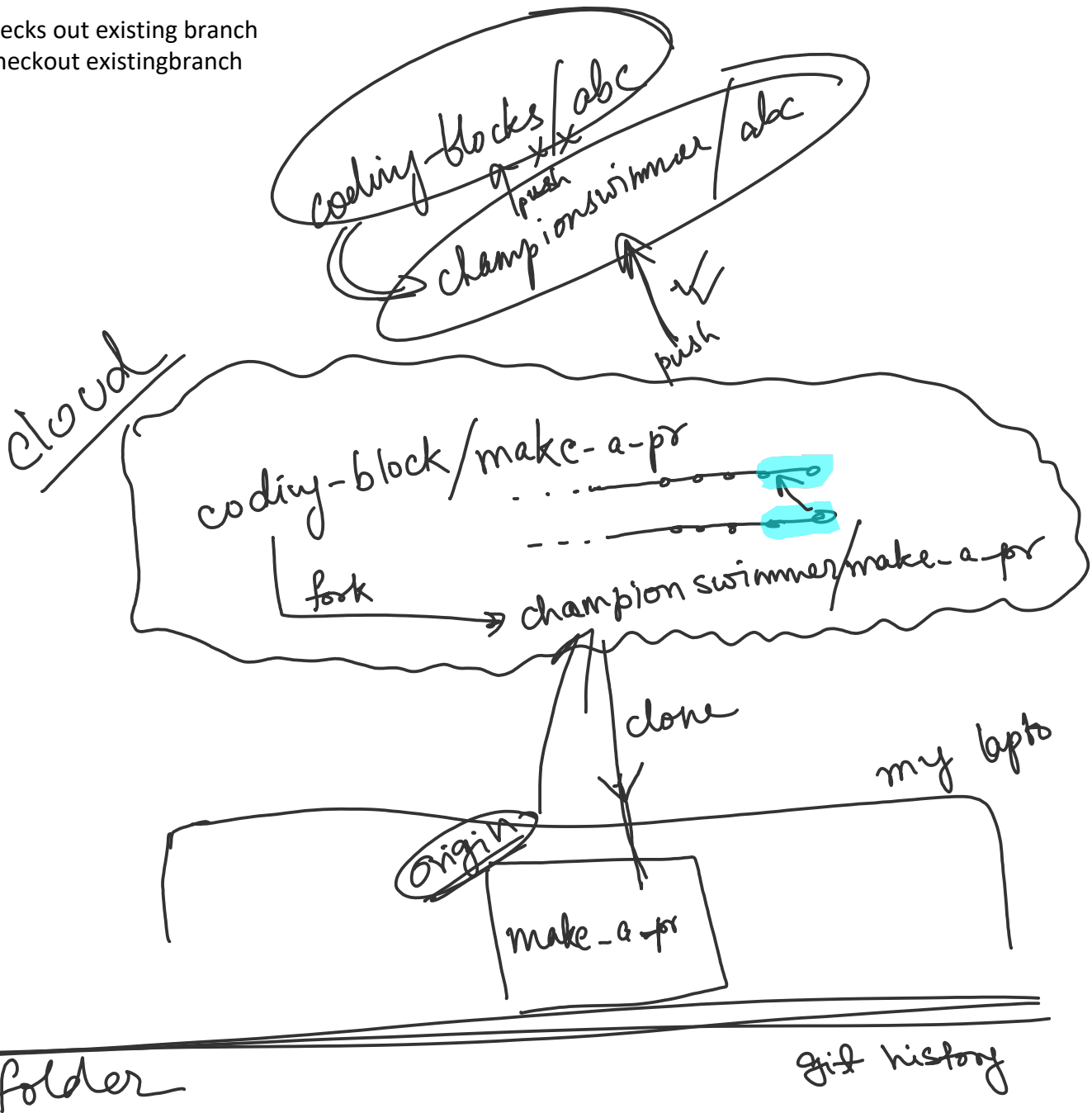


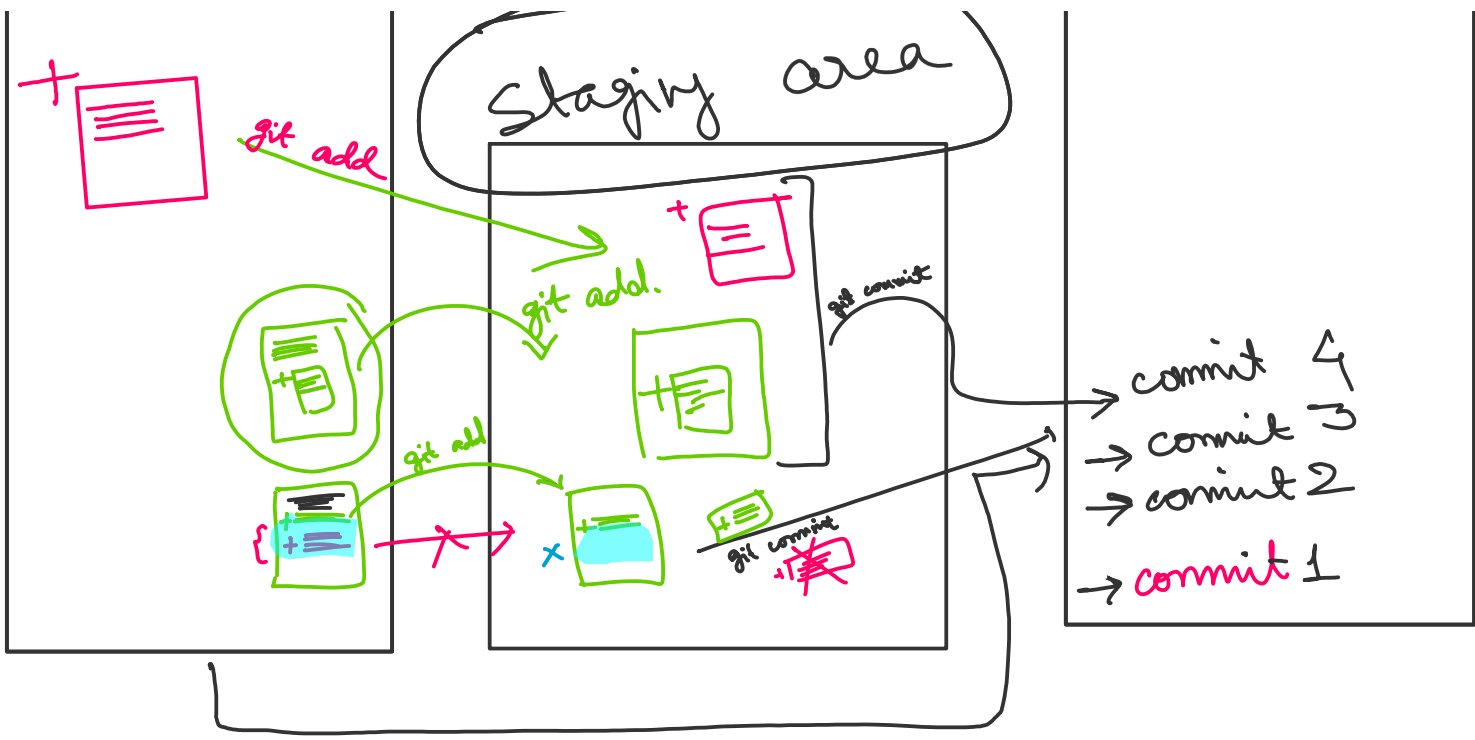
//create new branch

git checkout -b newbranch

// checks out existing branch

git checkout existingbranch



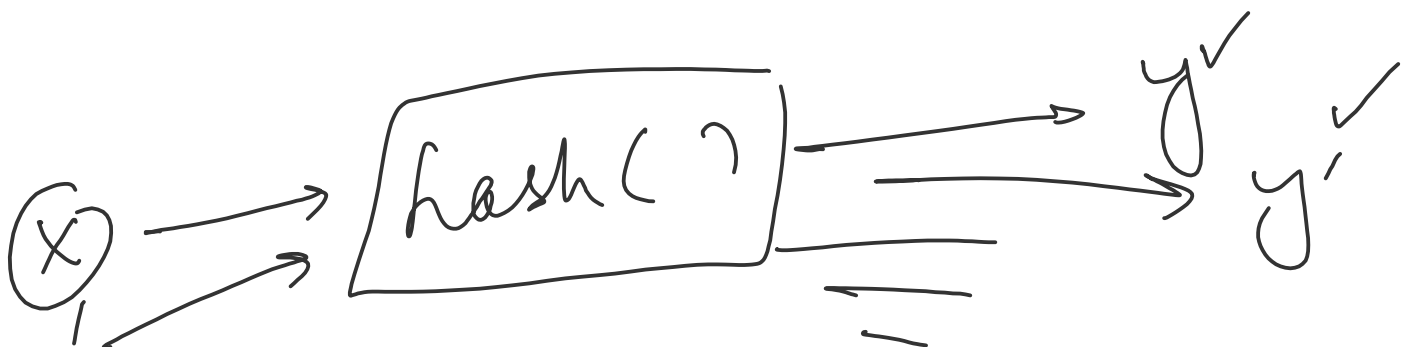
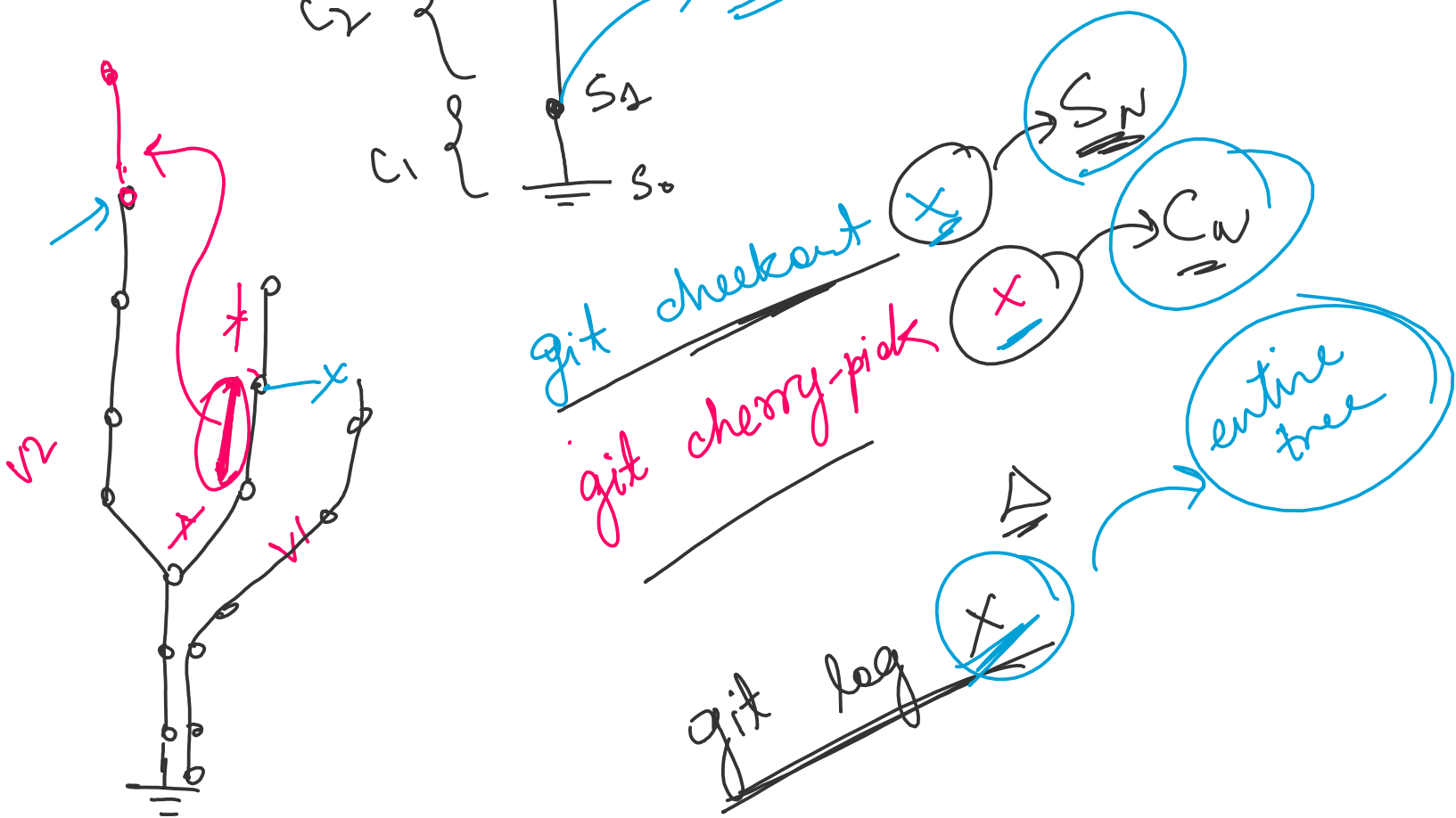
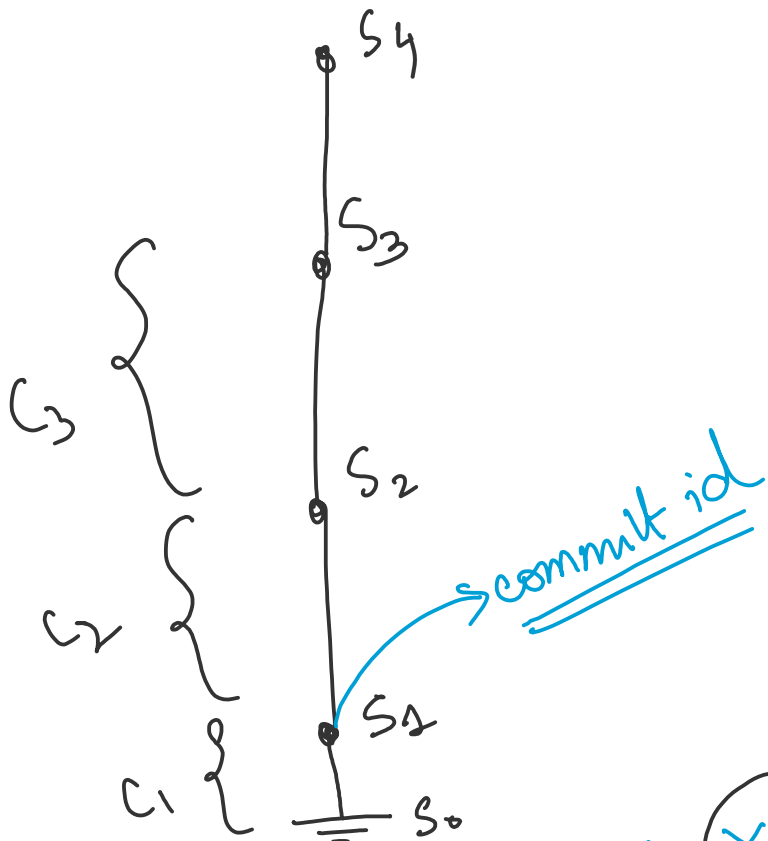


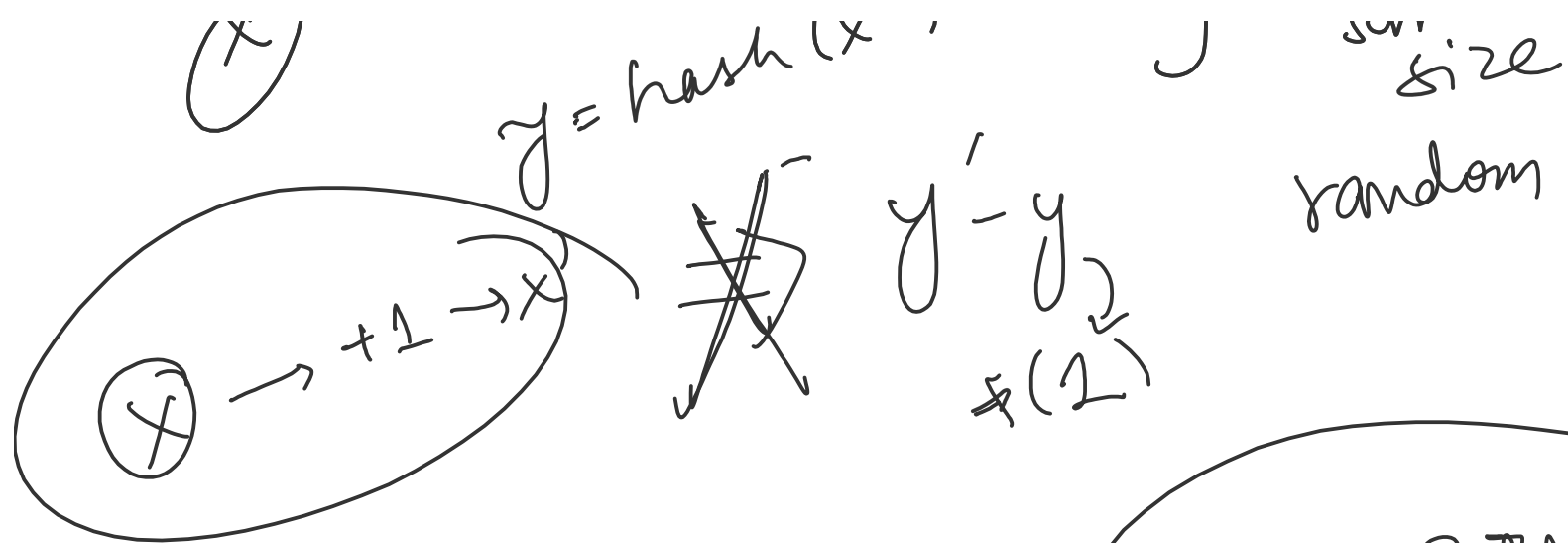
1

$S_N \rightarrow$ state \rightarrow files & lines of code in them

$$C_1 = \Delta S_{0:1} = S_1 - S_0$$

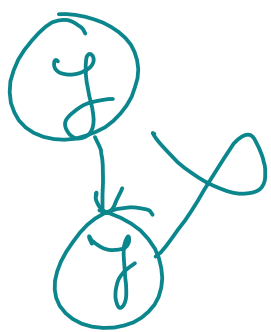
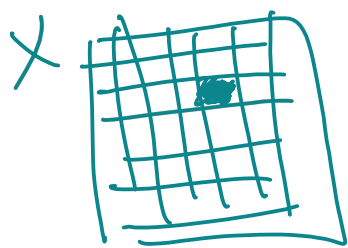
$C_N \rightarrow$ commits
 \hookrightarrow lines added or removed.





$x = abcde$

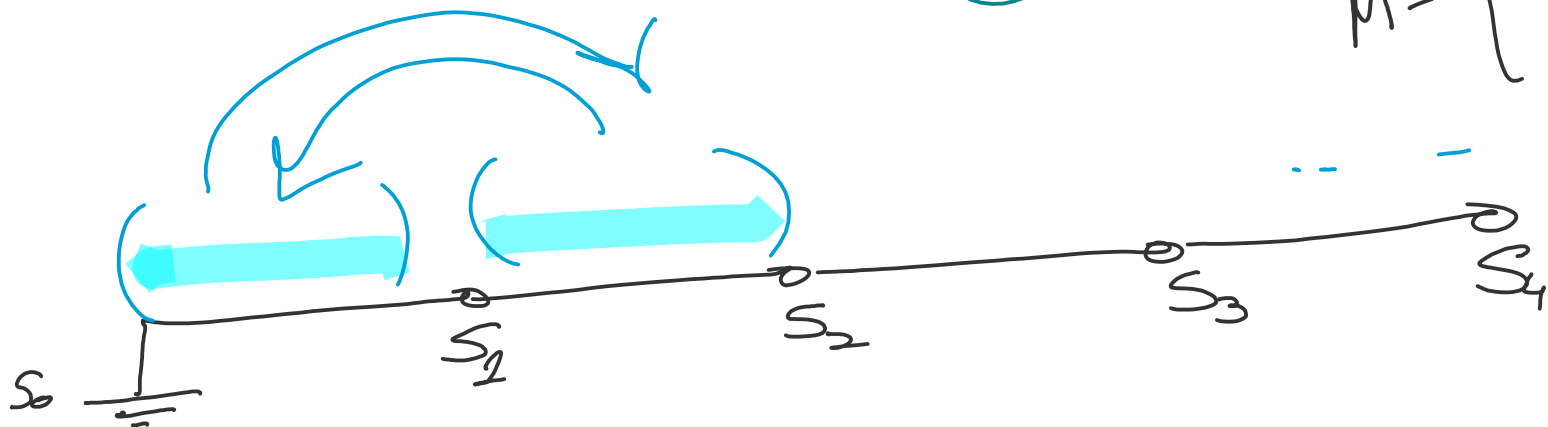
$x_1 = abcdef$



$y = 27Bad$

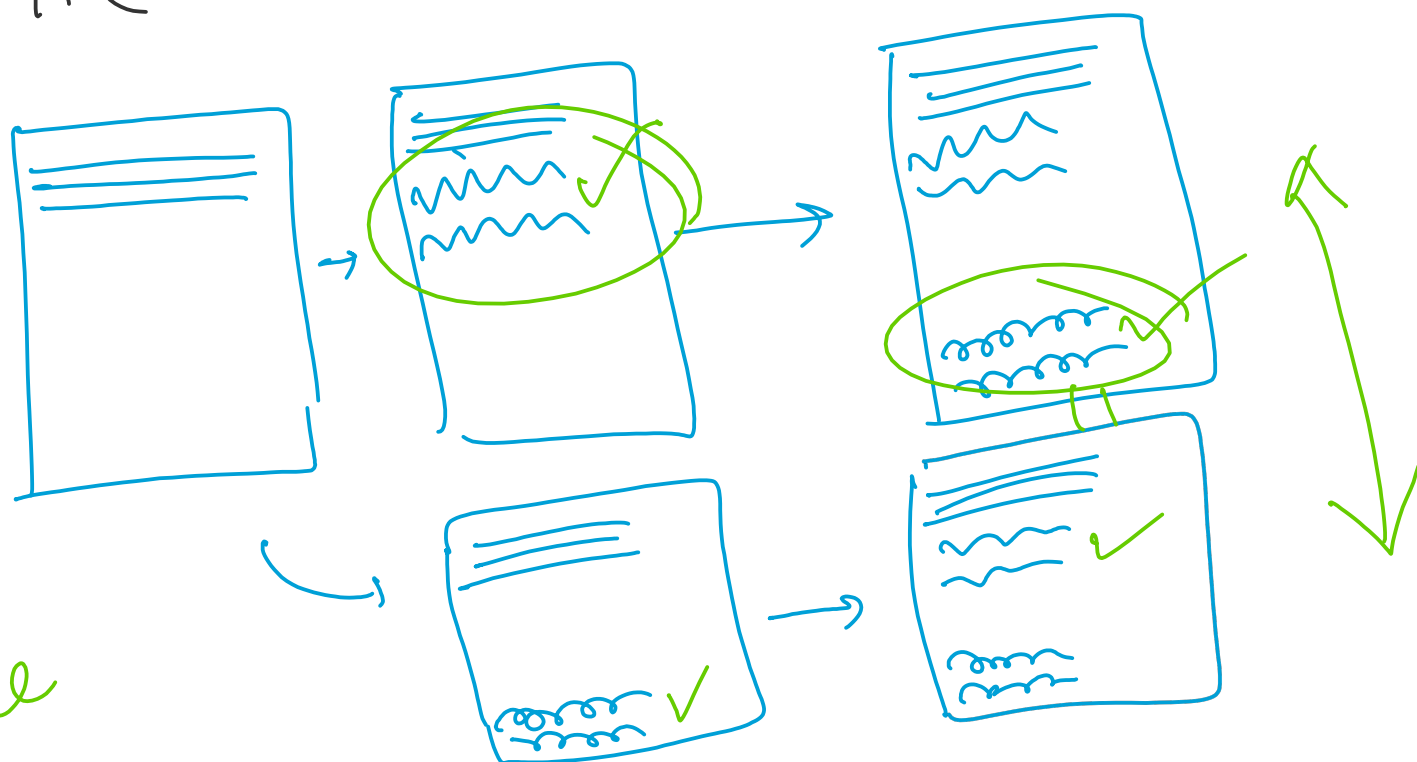
$y' = 3t6hj$

$M = \begin{cases} \text{author} \\ \text{time} \\ \text{info(PC)} \end{cases}$

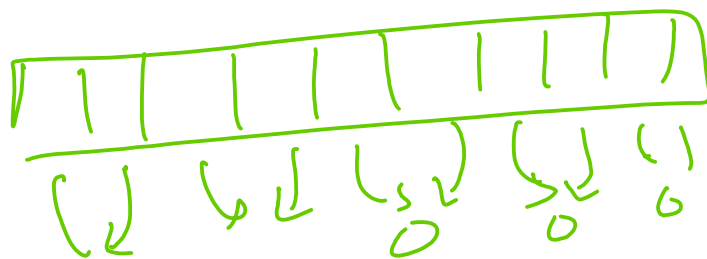


$$C_1 = \#(\Delta S_{0,1})$$

$$C_N = \#(\Delta S_{N-1,N} + C_{N-1} + M_N)$$



Merkle Tree
Merkelization



//

