CMPUT 301

Intro to Version Control (Git)

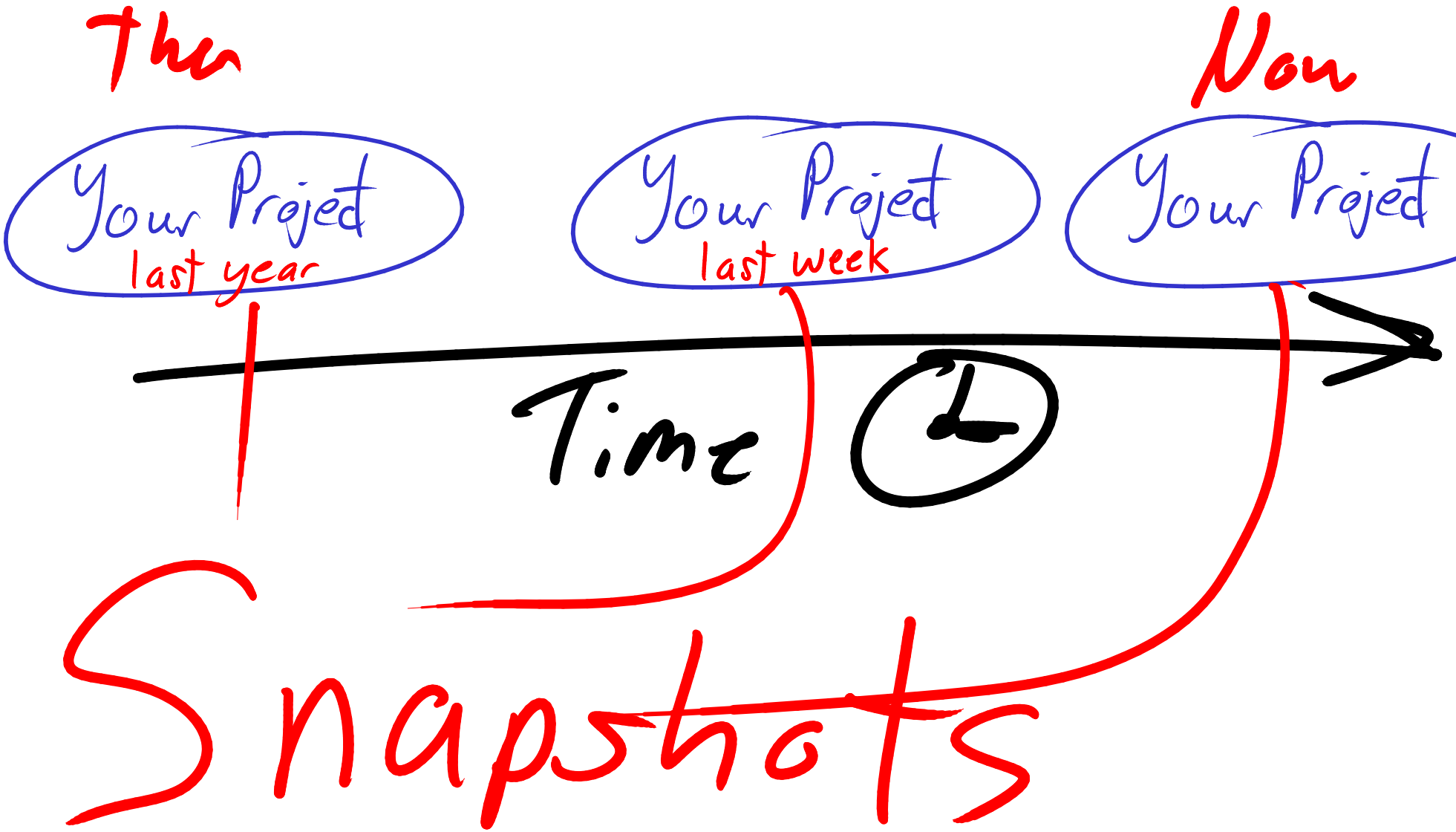
- it runs
- it mostly works

Your Project last week

- Did not fully work.
- But still ran

Your Project last year

- Was the CMPUT 294 project.
- Did something totally Different

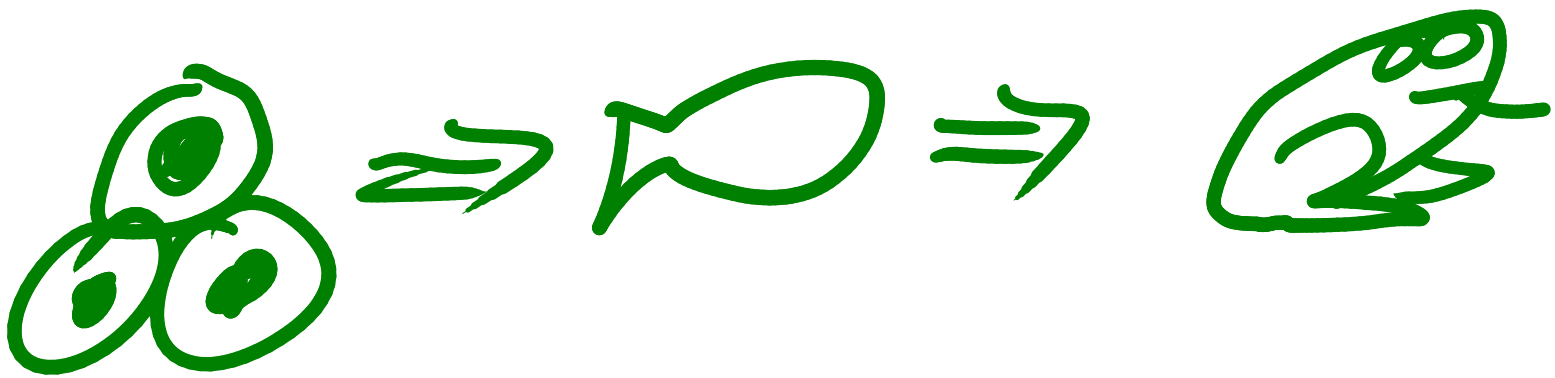

Then
Now
Your Project
last year
Your Project
last week
Your Project
Time
Snapshots

SOFTWARE

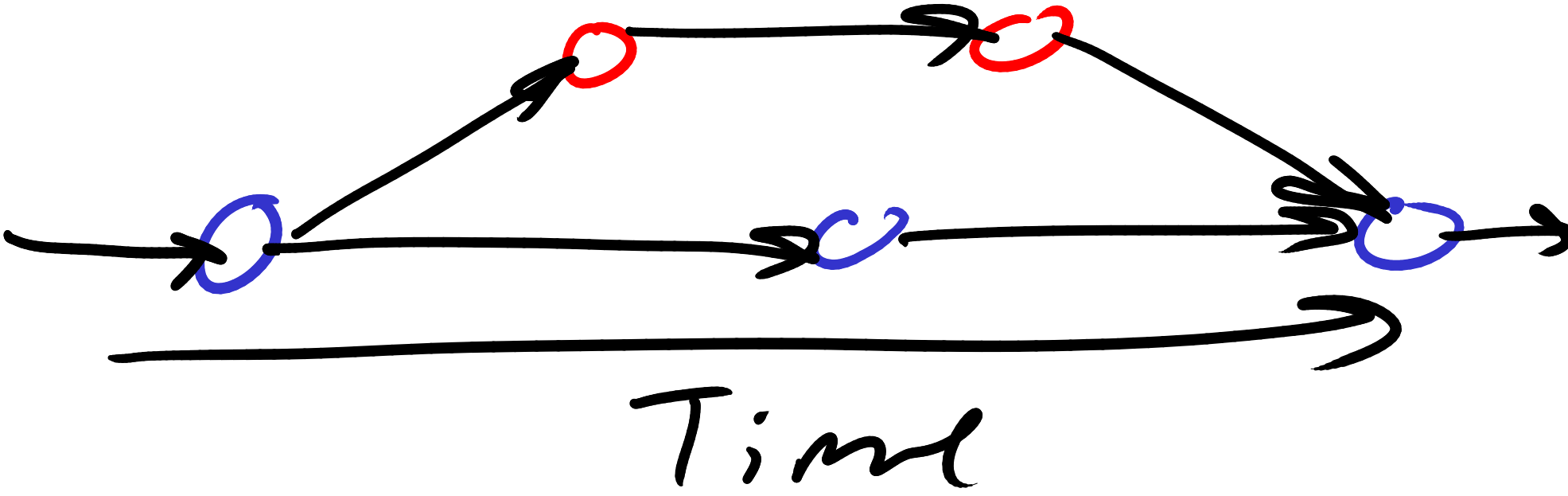
has Context

- Current time
- Current Requirements
- Current Functionality
- Current Issues
- Current Team

SOFTWARE EVOLVES



Version Control Helps Track Evolution



Commit

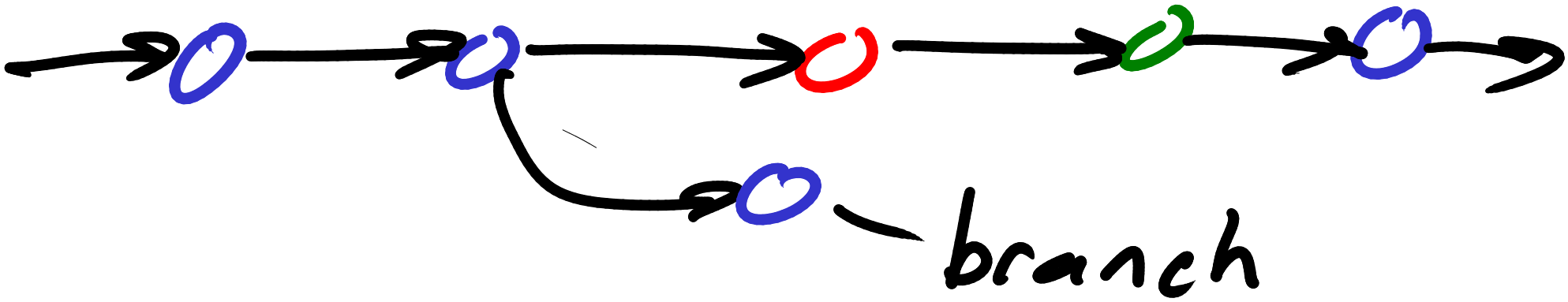
Code Flow

Version Control

- tracks changes
- tracks files
- tracks authors
- tracks time

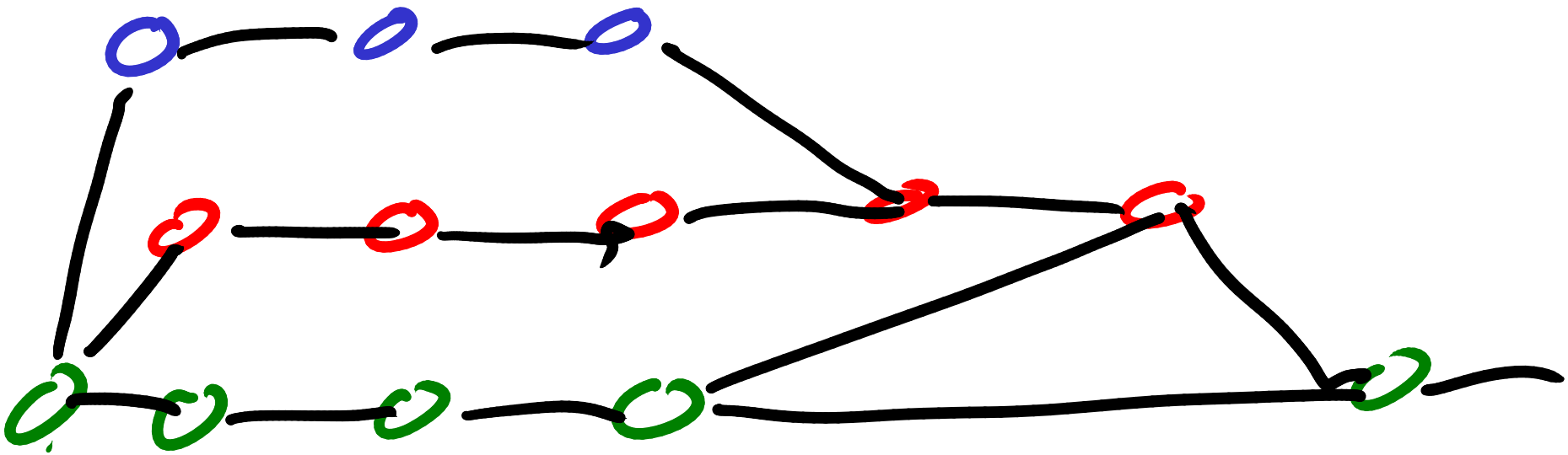
Centralized Version Control

1 repository



Distributed Version Control

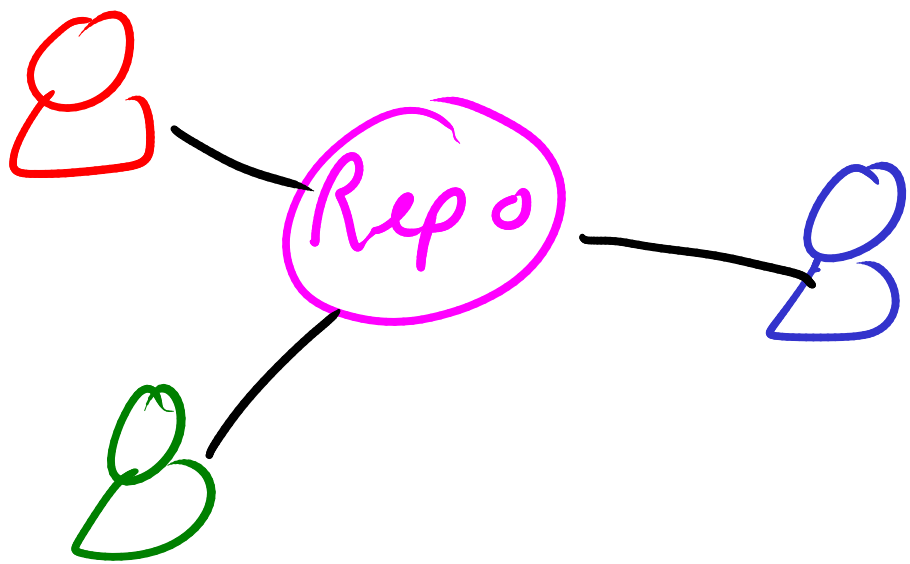
Many Repositories



Each Repo is like a branch

(Repo, Branch) tuple is a unique branch

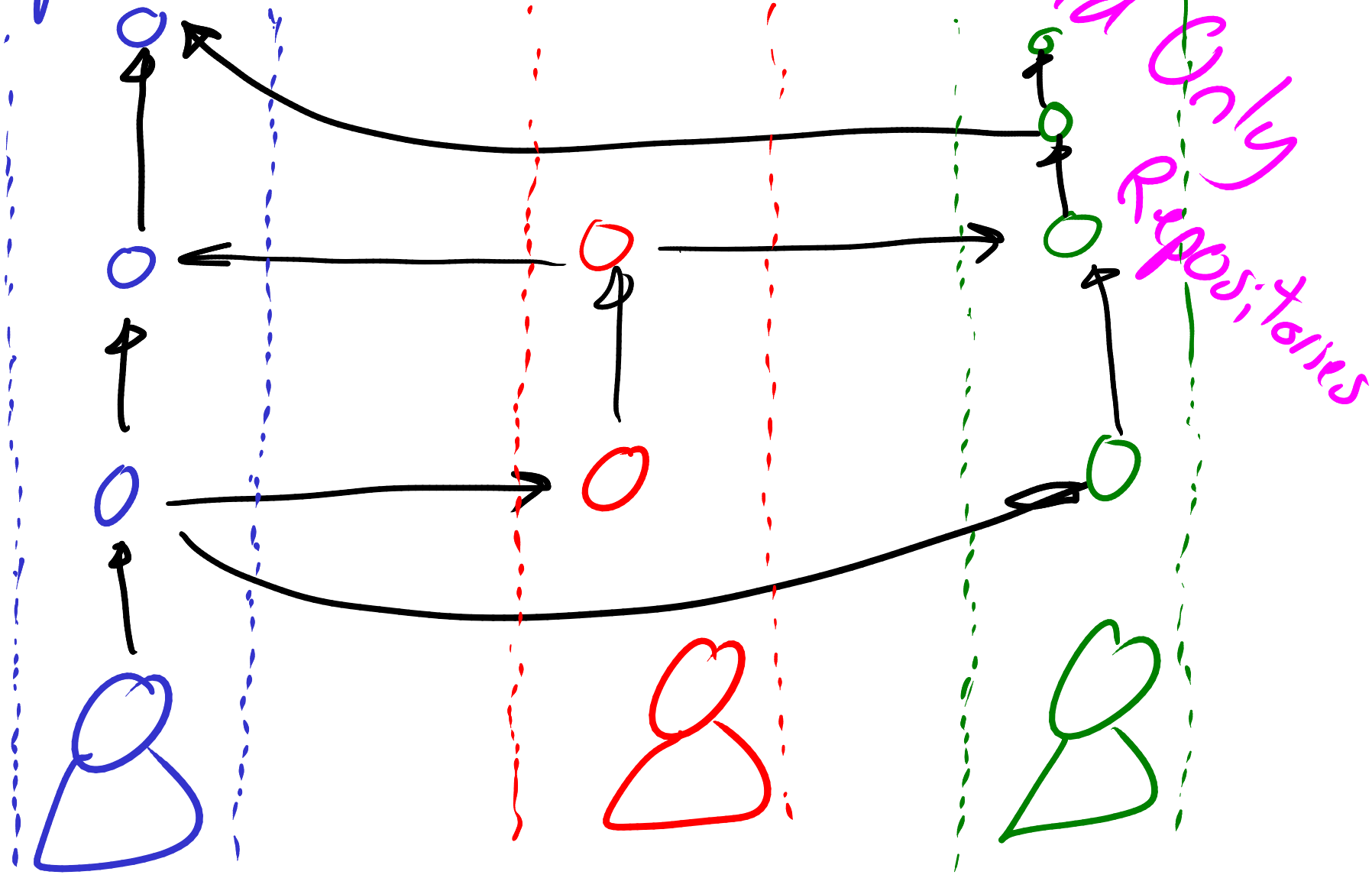
Repository Style
Central Repository



update/
checkout
modify
commit

Repository Style

Seperate towers



Repository Style

Seperate towers

- Only need to give READ access.
- No need to give write Access
- Provide Isolation from change.
- Each Repo is a personal branch