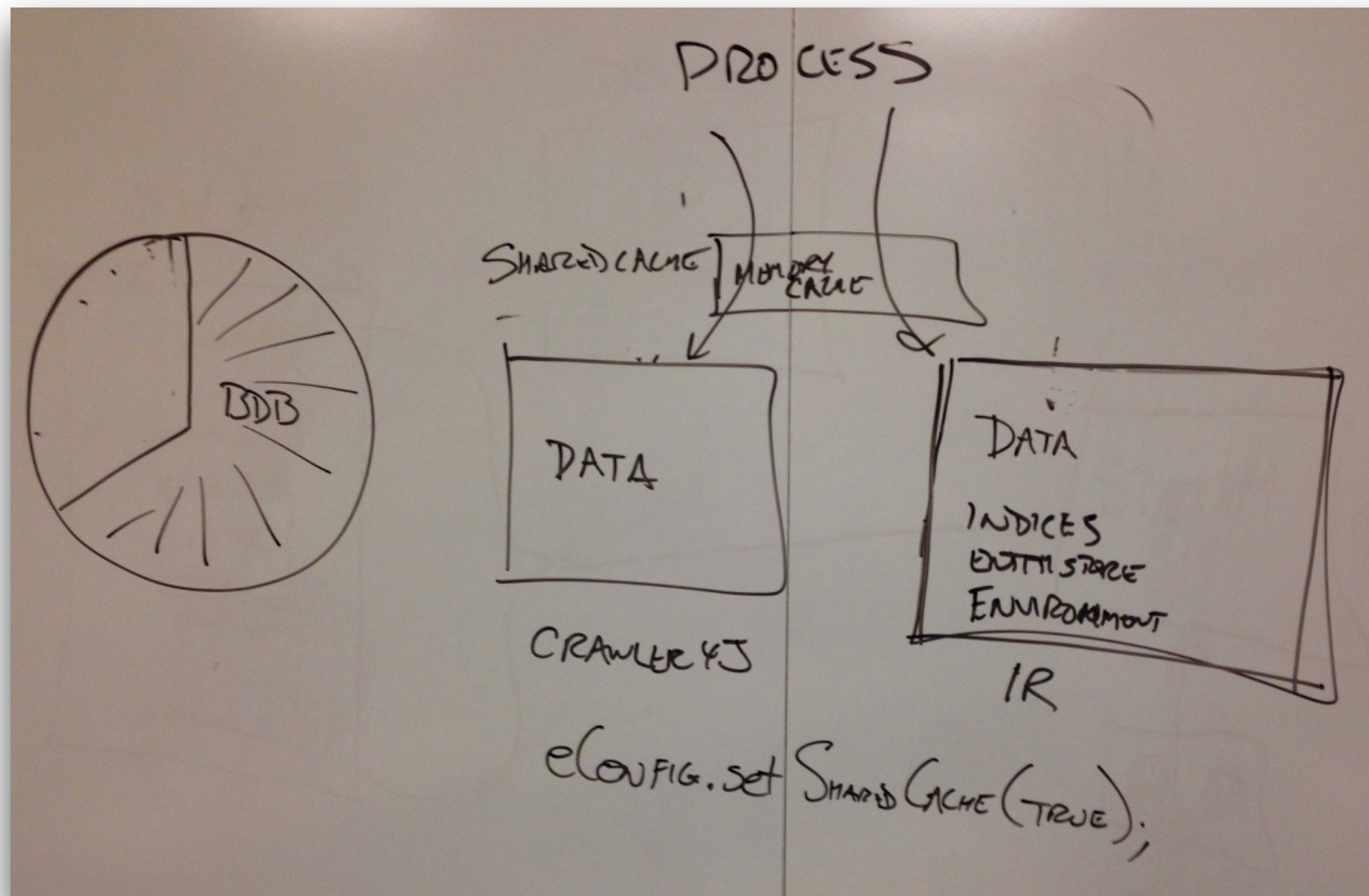


PROJECT GUTENBERG CRAWL NOTE

USE THE SHARED CACHE

- Crawler4j also is using Berkeley DB




GIT TUTORIAL

Software Engineering
CS 130

Donald J. Patterson

Content adapted from Essentials of Software
Engineering 3rd edition by Tsui, Karam, Bernal
Jones and Bartlett Learning



SCM

SOURCE

CODE

MANAGEMENT

- BITKEEPER

- MERCURIAL

- GIT



MOTIVATION

MOTIVATION

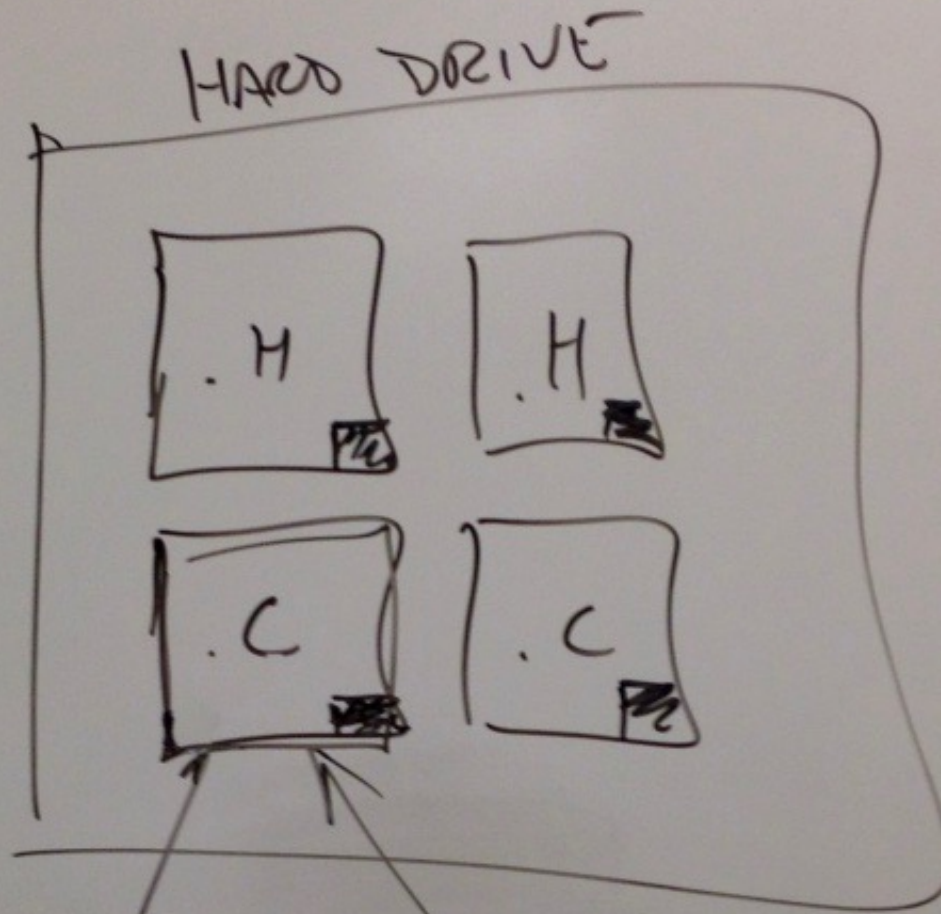
- Why do we need source code repositories?
- Where did git come from?
 - rcs ci/co (cerca 1980)
 - cvs (cerca 1986)
 - svn (cerca 2004)
 - git (cerca 2005)
 - github (cerca 2009)



RCS

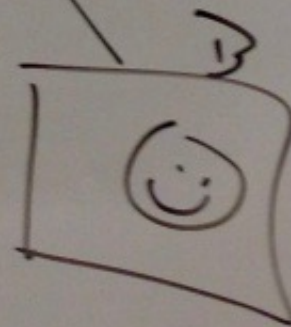
• FILE LEVEL
LOCKING

• SHARED
FILESYSTEM



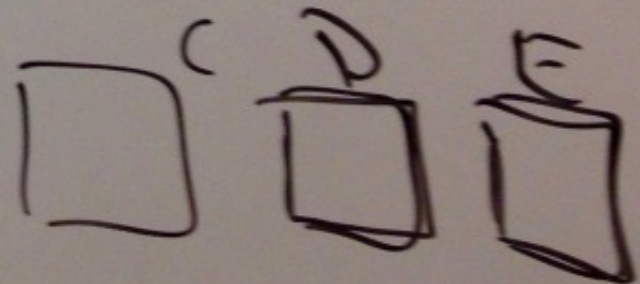
C0

C1



C0
#FAIL

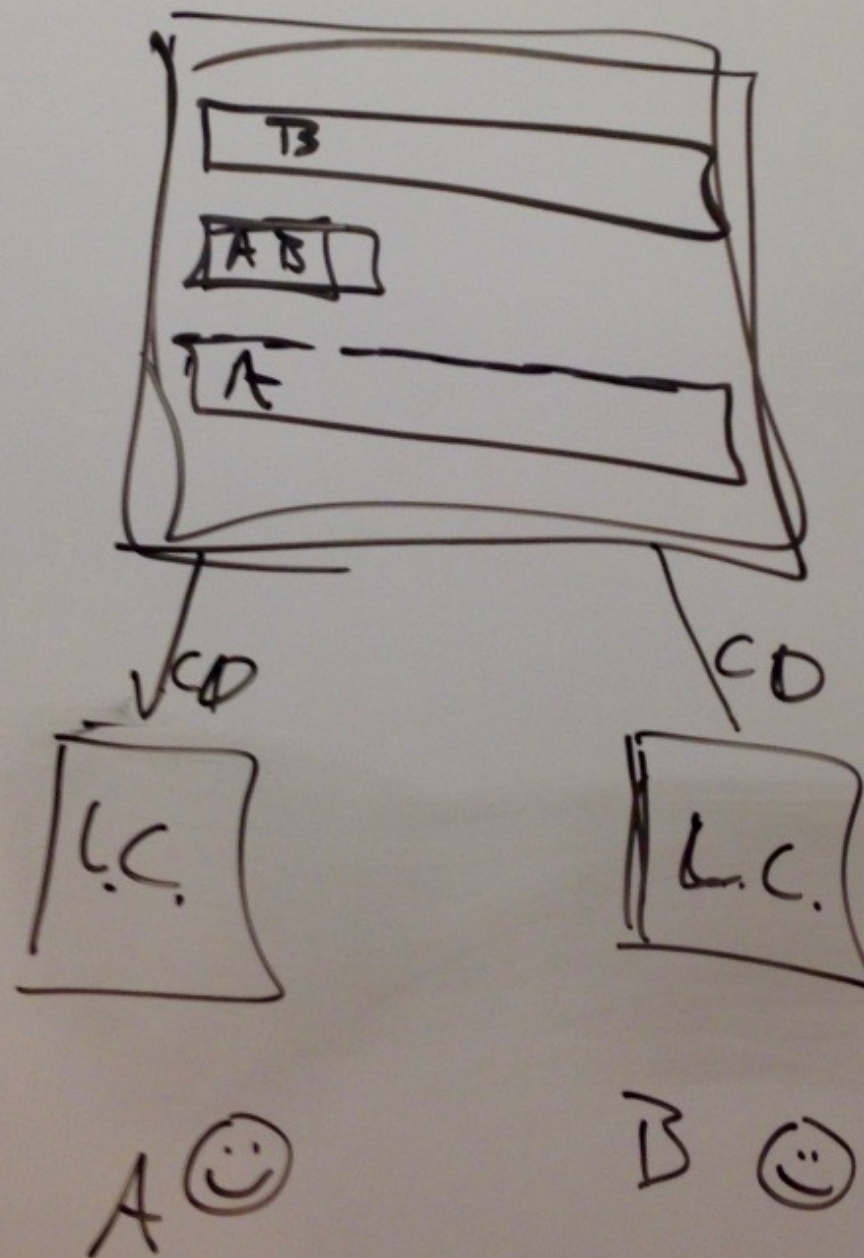
C0
#SUCCESS



CVS

- SMART MERGING
- BRANCHING

DIFF
PATCH

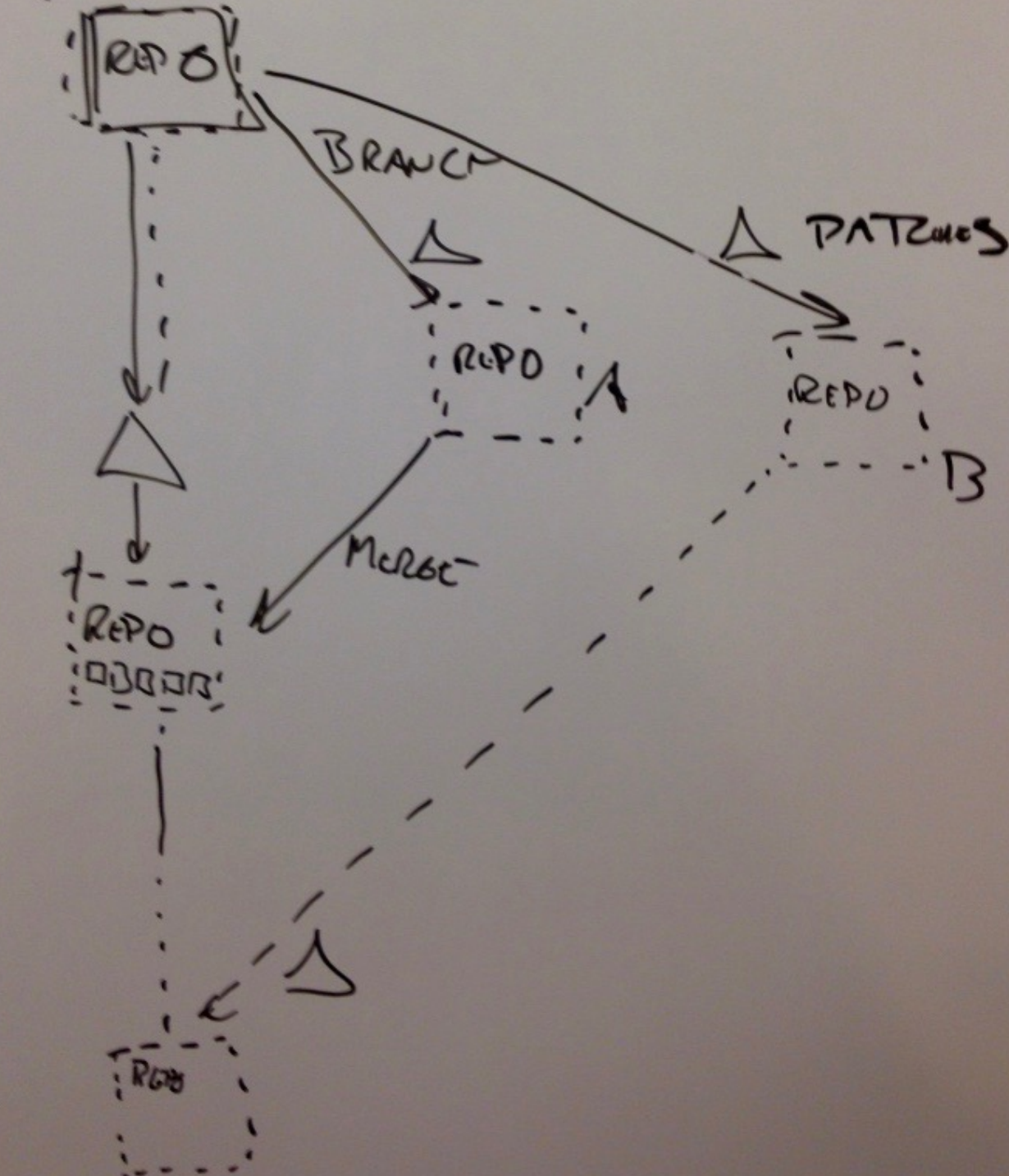


"SUBVERSION"

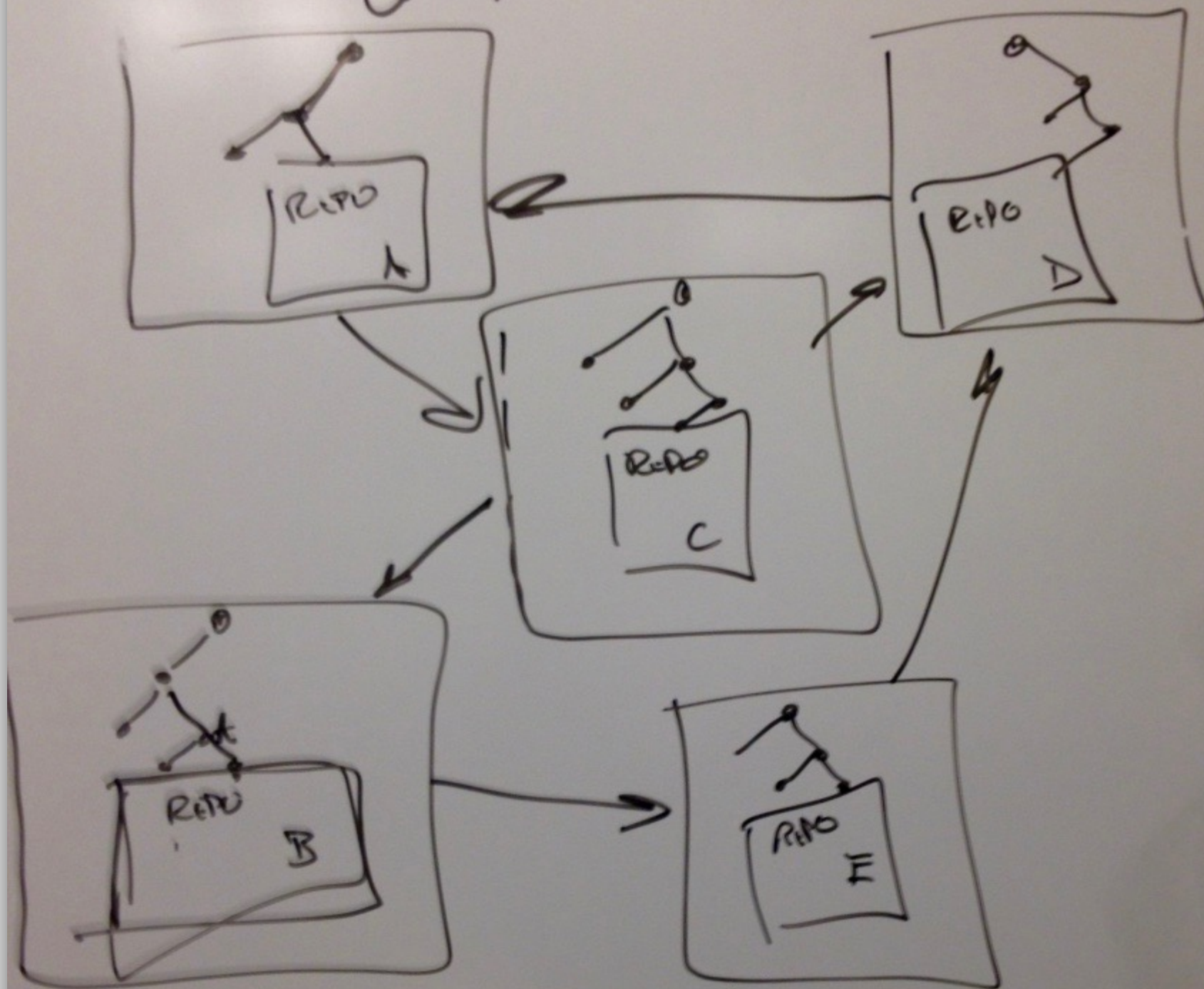
SVN

- TRUNK (WORKFLOW)
- SMART BRANCHING

TRUNK



GIT



- PEER-TO-PEER WORKFLOW
- ENTIRE HISTORY CHECKOUTS



CIT HUB

- WEB HOSTED REPOSITORY STORAGE

- COLLABORATION SITE

- FORUMS DISCUSSING
CHANGES IN REPO HISTORIES

- (CLOUD)

- QUALITY / SECURITY SYSTEM



MOTIVATION

CODE IN THE WILD

- Let's look at a project in the wild
 - bitcoin



MOTIVATION

CODE IN THE WILD

- Let's look at a project in the wild
 - bitcoin



MOTIVATION

DOWNLOAD THE GITHUB CLIENT

- <https://desktop.github.com/>



MOTIVATION

HOW ARE WE GOING TO USE GIT?

- We will establish a project
- All code will be in the same repository
- Each team can make pull requests that focus on their components



EXERCISE

PUT A FILE WITH YOUR NAME INTO OUR REPOSITORY

- <https://github.com/djp3/tenthousand>





WESTMONT **INSPIRED**
— COMPUTING LAB —