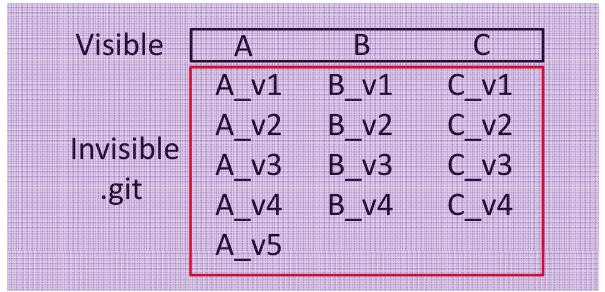
Automated Version Control

Why use git and github

- Better document of changes that you made
- Better collaboration with others
- Github can be your programming portfolio (for job applications)
- Caution to use on binary files: word
- Hard to use on pdf, and pictures(vector picture might be different)

Workflow of version control



Folder without .git

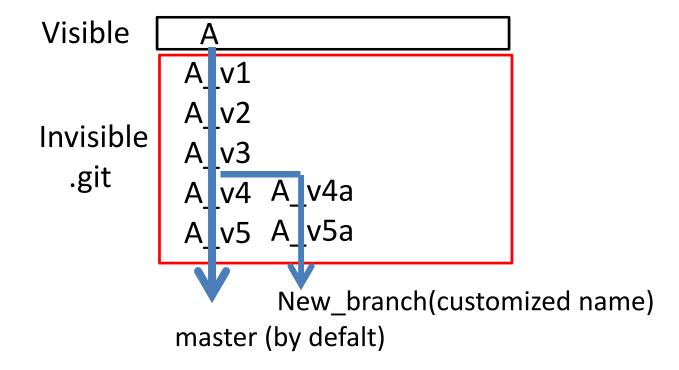
Repository with .git

A_v1-v5: only remembers the difference between A and A_v1-v5 But remembers who, when, why(customizable) make change

Delete A. A_v1-v5 make no sense.

Delete .git. All A_v1-v4 gone. But A=A_v5.

Workflow of version control



Branches: save space. because computer only need to save A_v1-3 once.

syntax

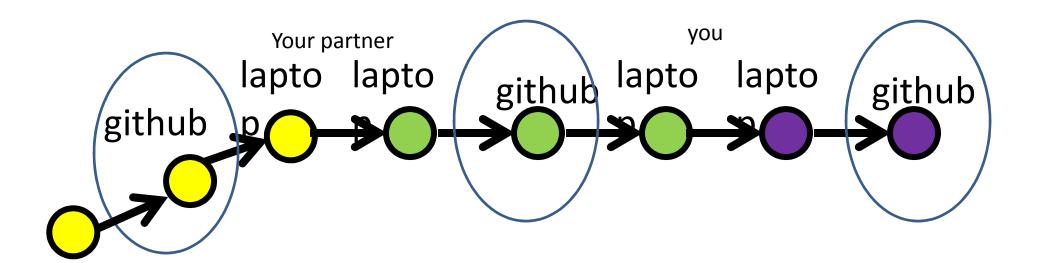
git verb

to save each new version of your file

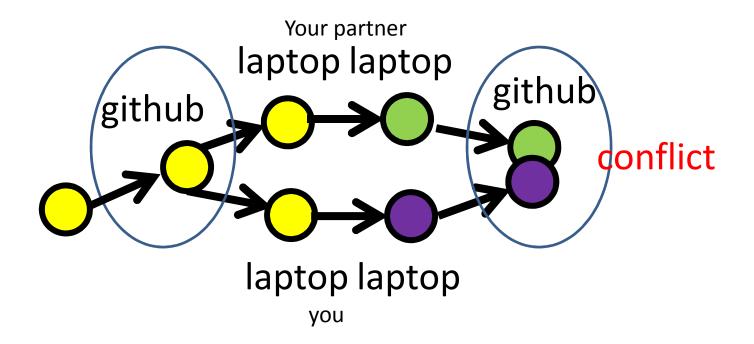
git add git commit git clone git log git status

conflict

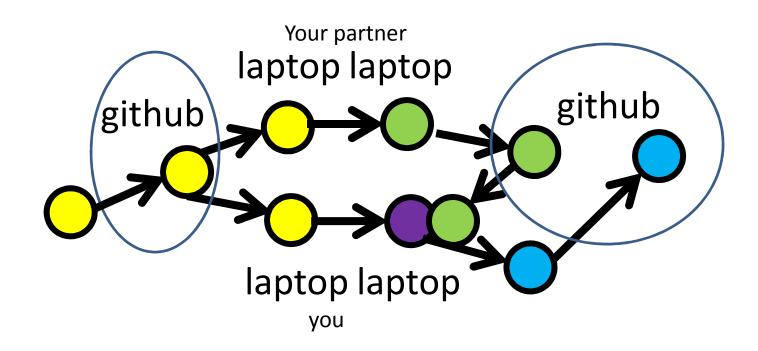
What is conflict



What is conflict



Resolve a conflict



To avoid conflict

- Remember to pull before make changes
- If conflict happens, READ HINT