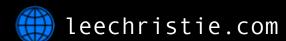
Git and GitHub

Version Control and Social Coding

Dr Lee A. Christie





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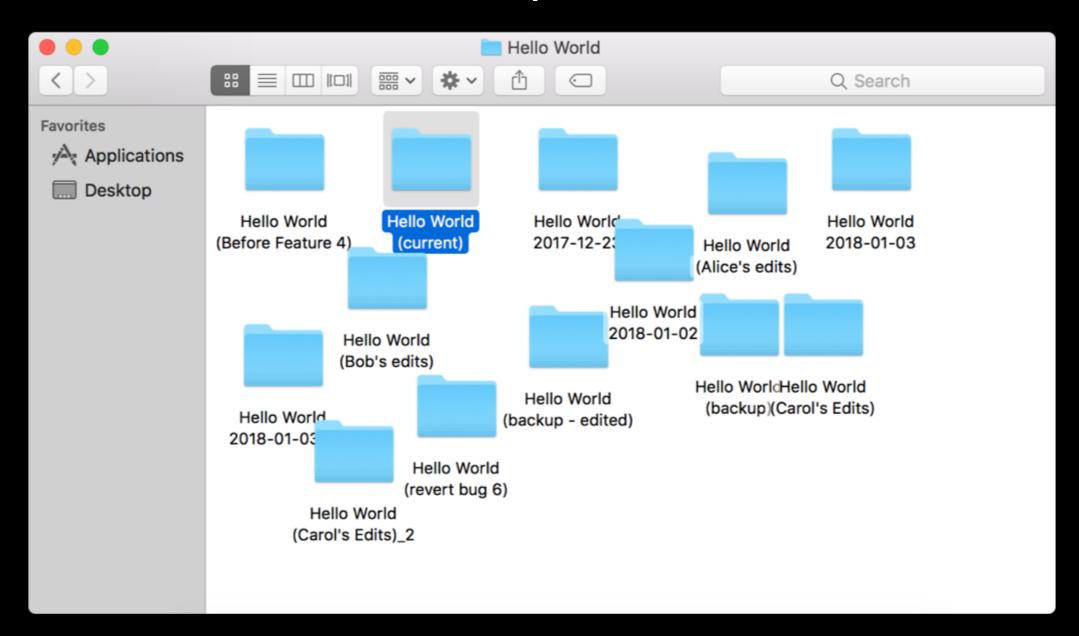
Why Version Control?

Collaborate with multiple developers

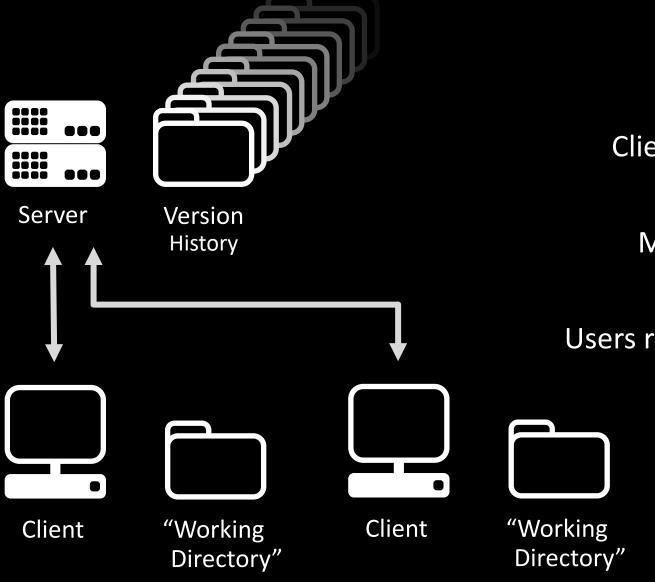
Track changes to project history

Revert changes

A Less-Than Optimal Solution



Centralised Version Control



Server tracks history

Clients "check out" a current copy

Merge changes back to server

Users require server account permissions

Examples

CVS

Subversion

Perforce

Distributed Version Control

Version Version History History "Working "Working Client Client Directory" Directory" Clients keep a version history

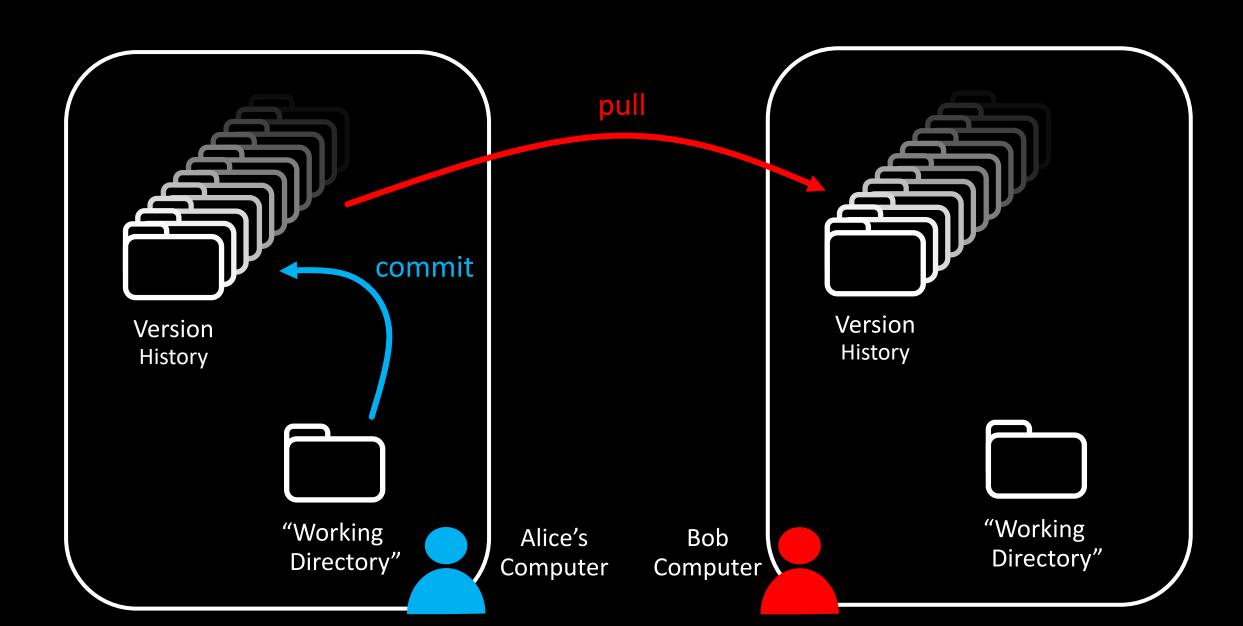
Commit/revert while offline

Re-sync/merge histories

No server accounts needed

Examples
Mercurial
Git

Distributed Version Control



What is GitHub?

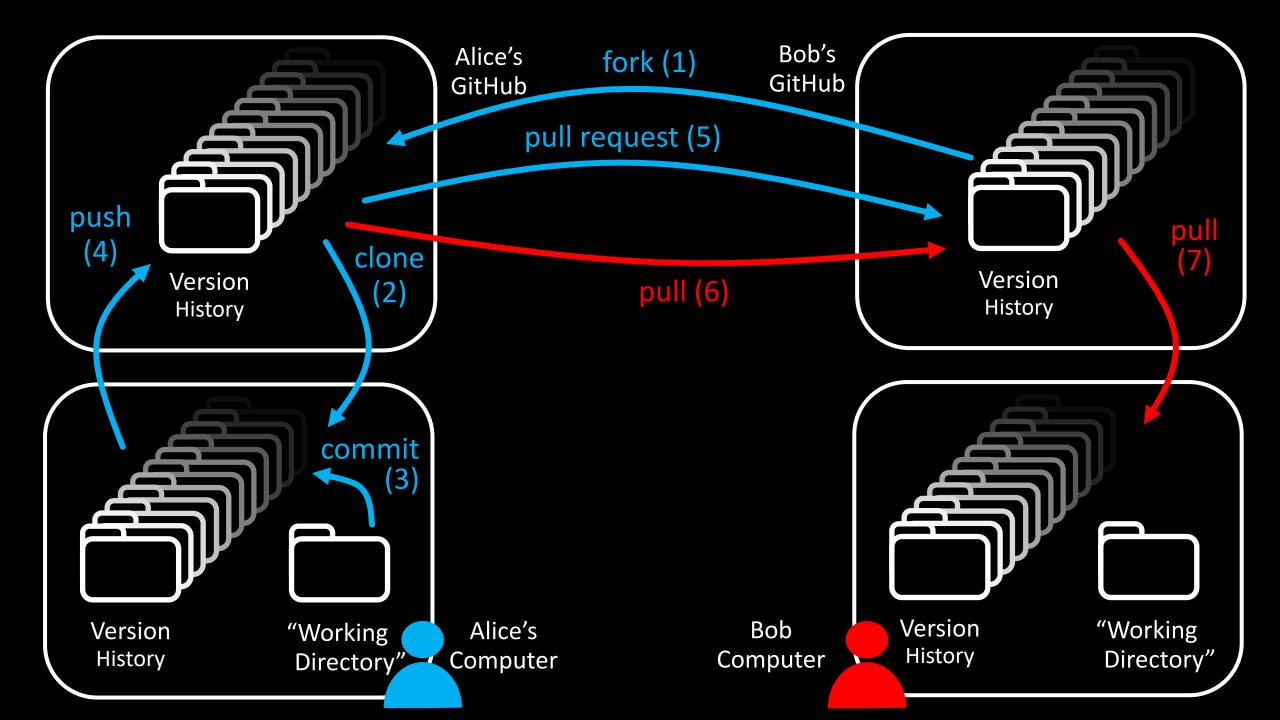
Web hosting for Git repos

Project management tools (Bug tracking, wiki, etc.)

Collaboration via pull requests

Public / OSS projects hosted free

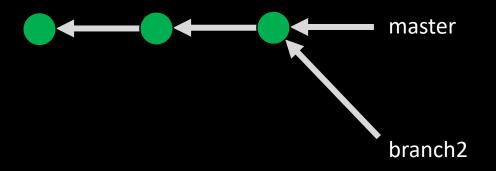
Private projects: \$7/month (free for students with the Student Developer Pack)

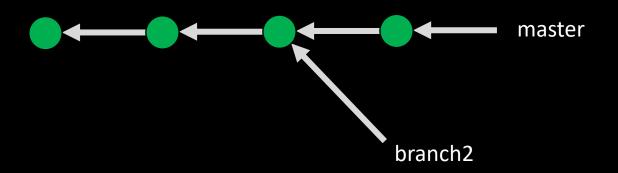


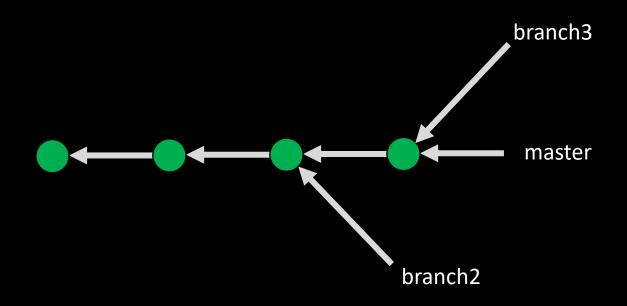


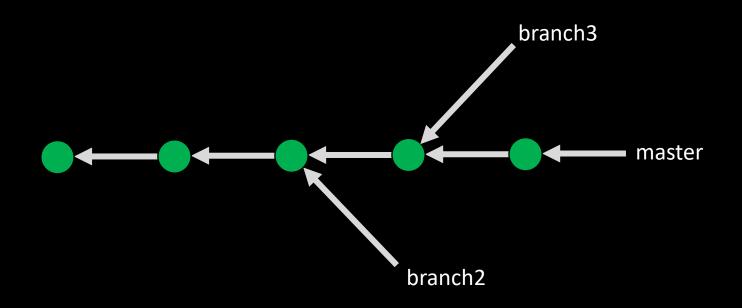


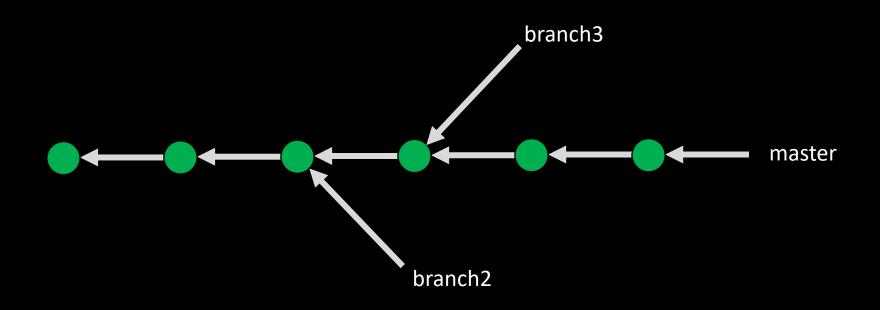


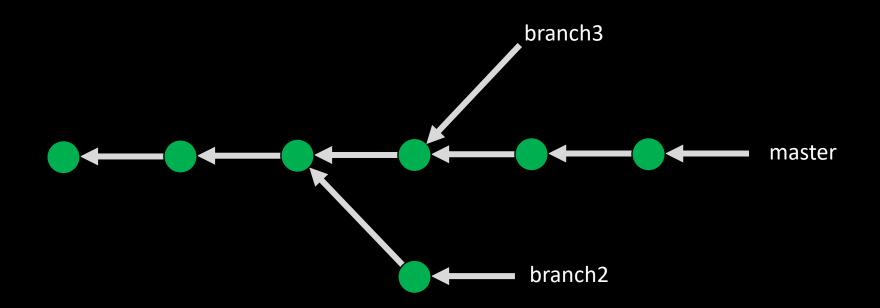


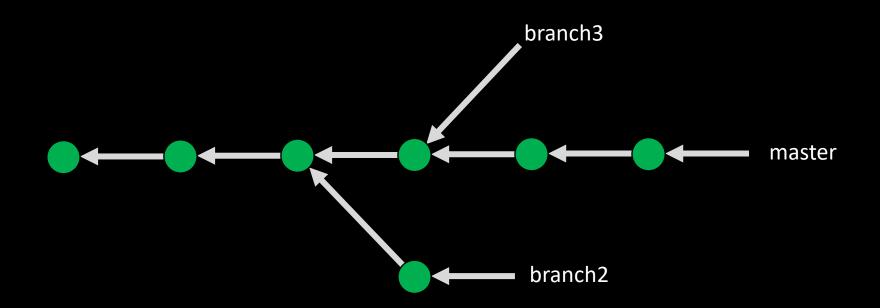


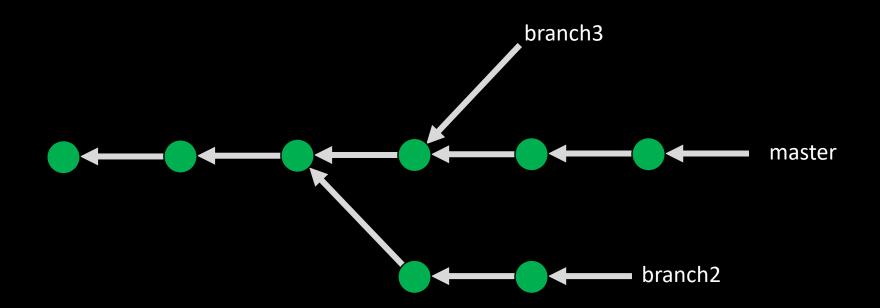


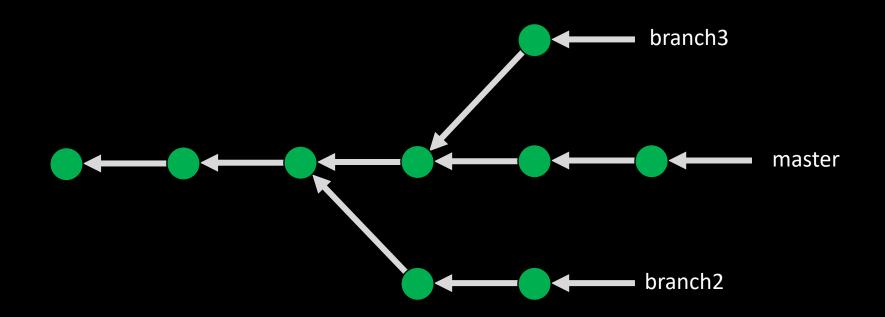


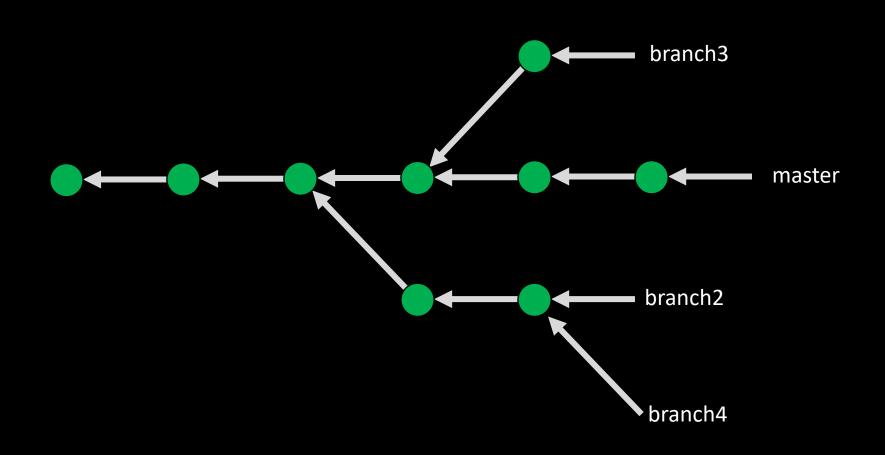


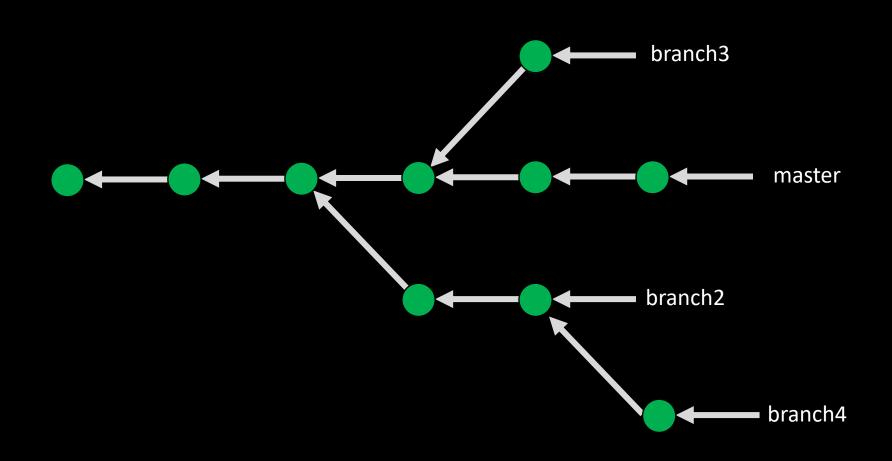


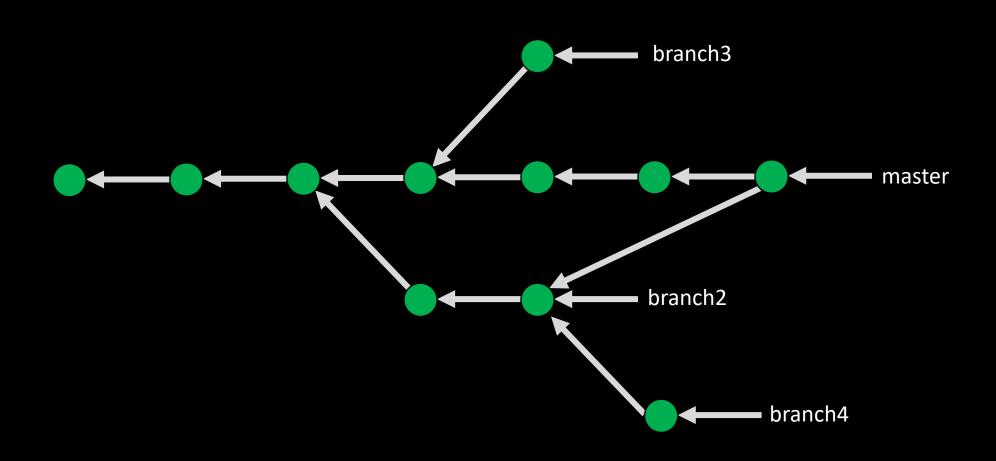


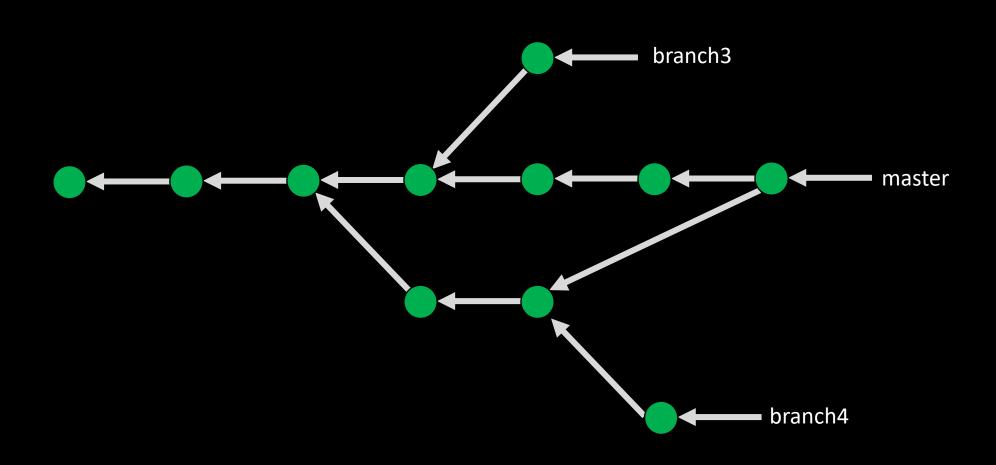


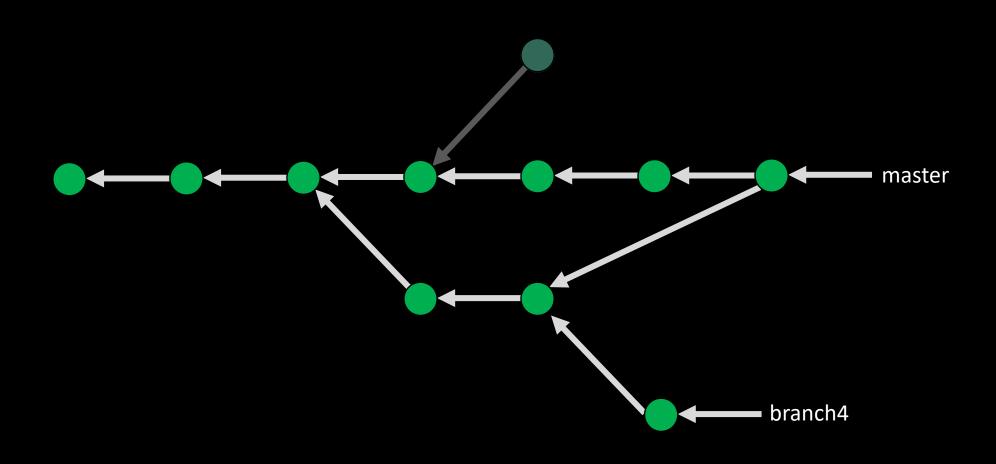


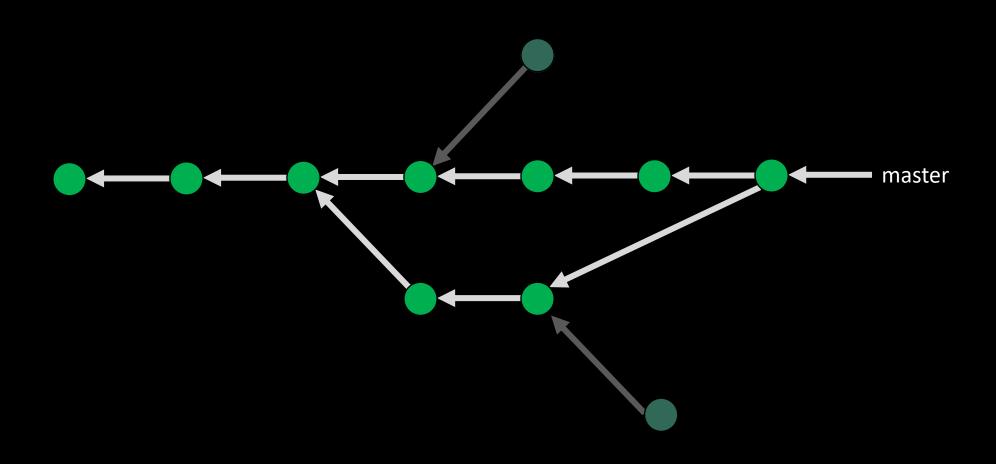












Demo Time...

Thank You

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