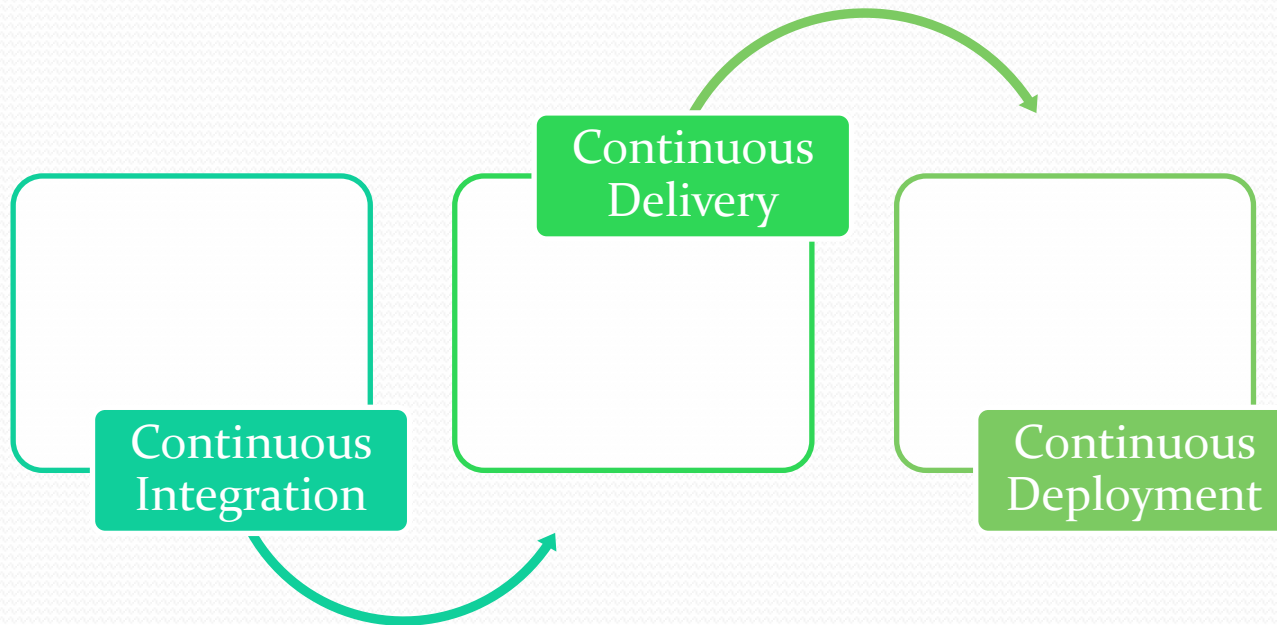


Git Fundamentals

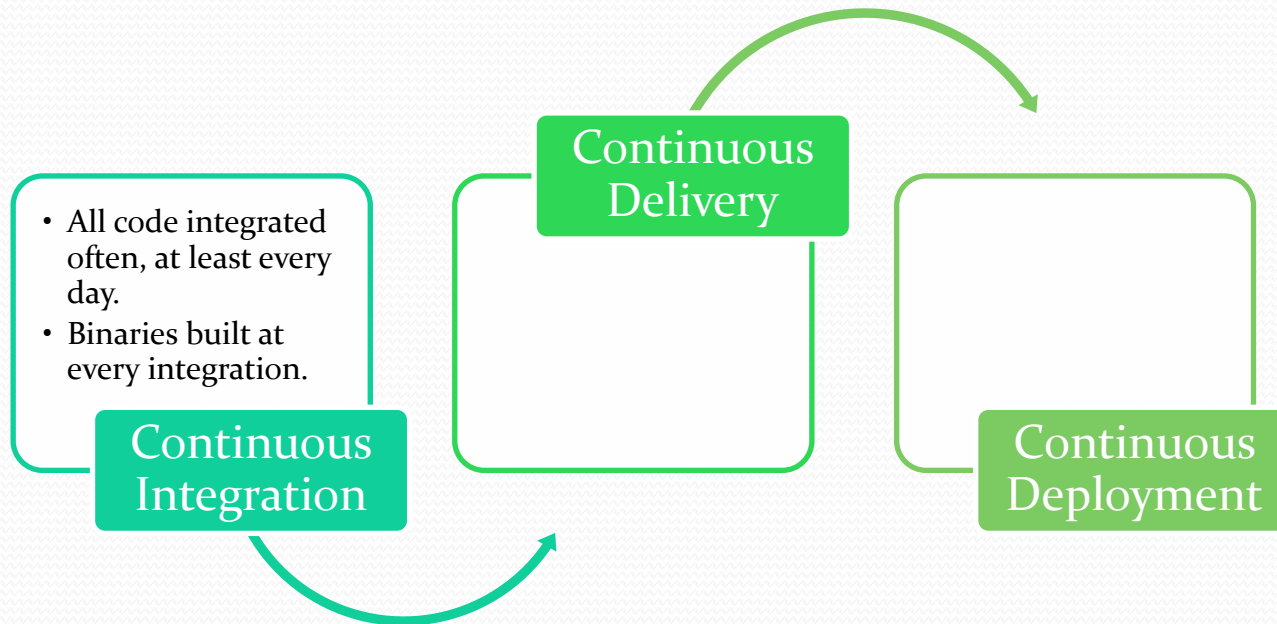
Anju M Dominic



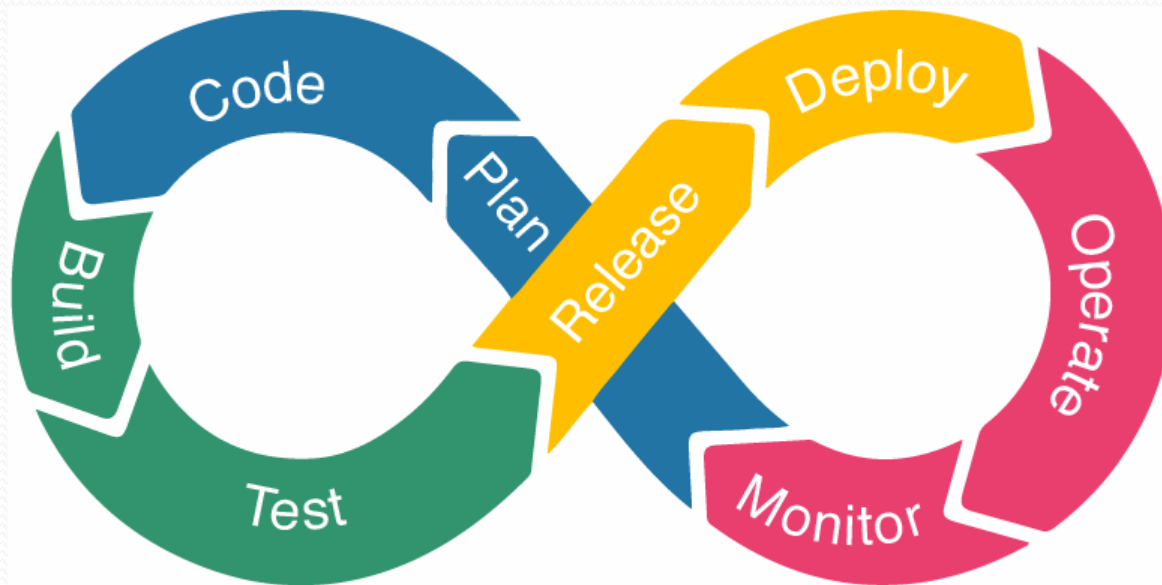
Three Levels of Maturity



Three Levels of Maturity



DevOps Lifecycle





Git – A Source Code Management System





Linux



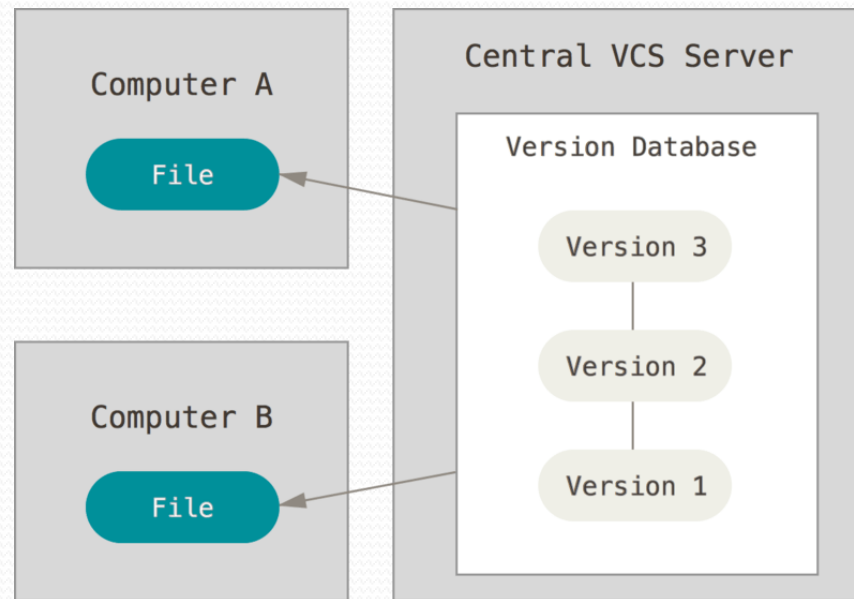
Other popular SCM systems

- SVN
- Clearcase
- Mercurial

Why Git?

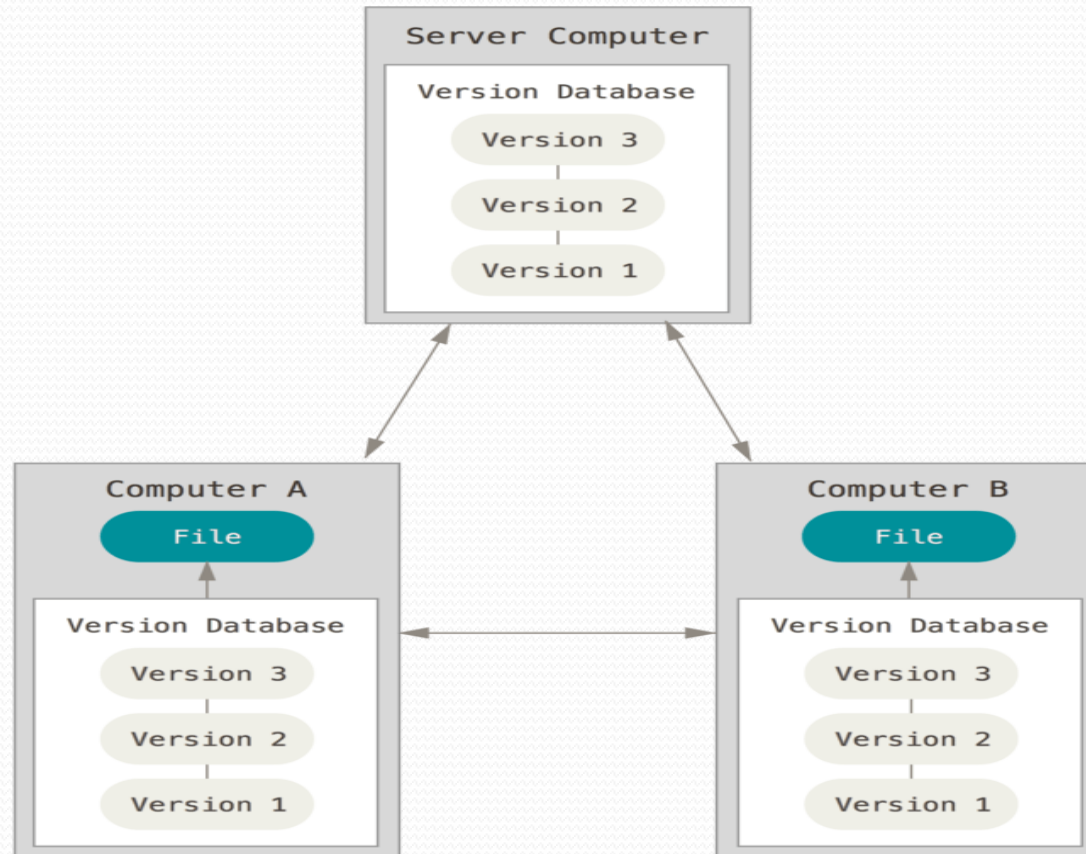
- Distributed version control system
- Open source tool
- Easy branching and merging

CVS




Courtesy:git-scm book

DVS




Courtesy:git-scm book



Among the below options
which one is a distributed
version system?

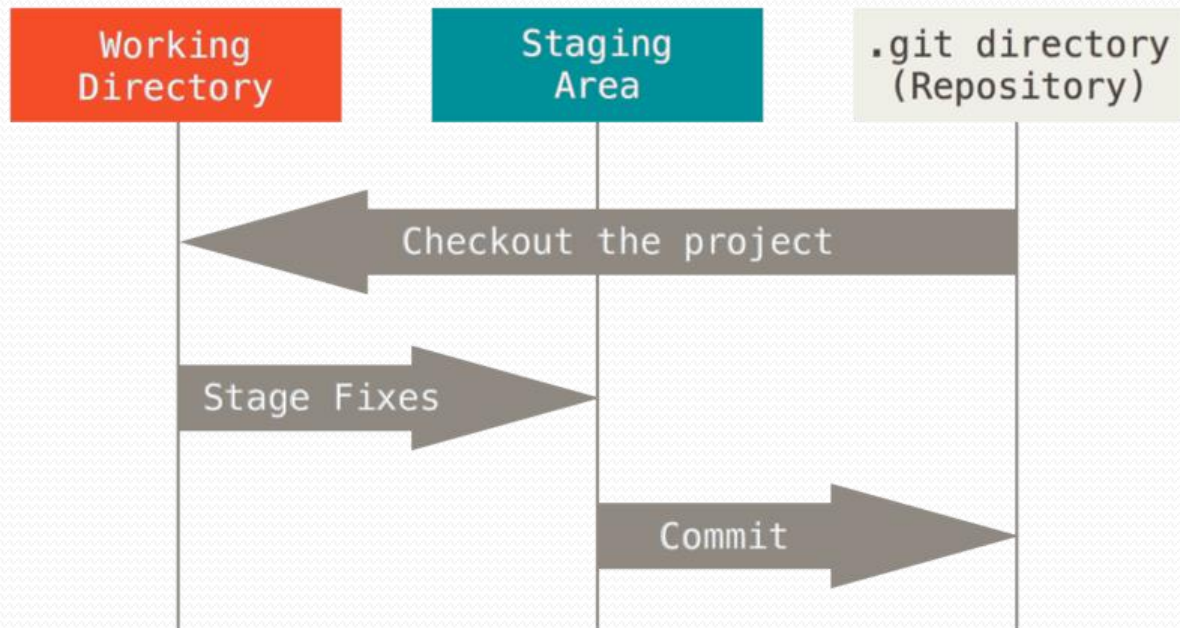
Git vs other SCM systems

- SVN and Clearcase are CVS while Git is DVS
- Mercurial is simpler to learn than Git especially for new developers
- Git has an additional feature where we can alter our version history unlike Mercurial
- Branching is highly complex in Mercurial compared to Git



You are asked to work on existing project with a source code repository . What is the ideal step among the below to start of with?

Git stages

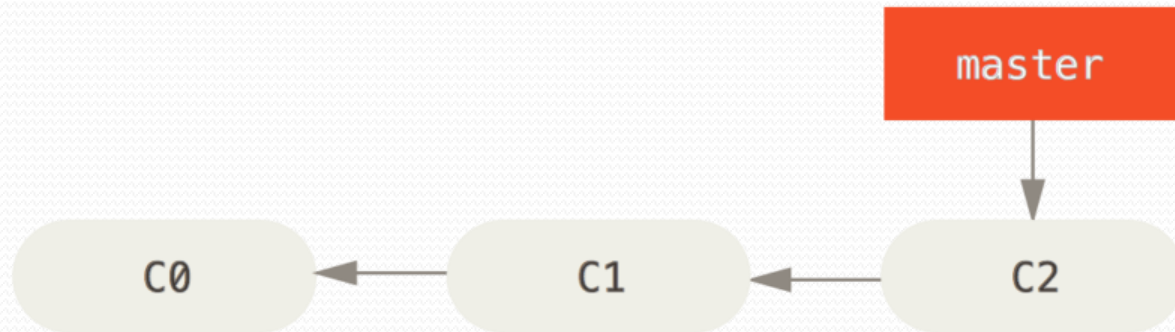




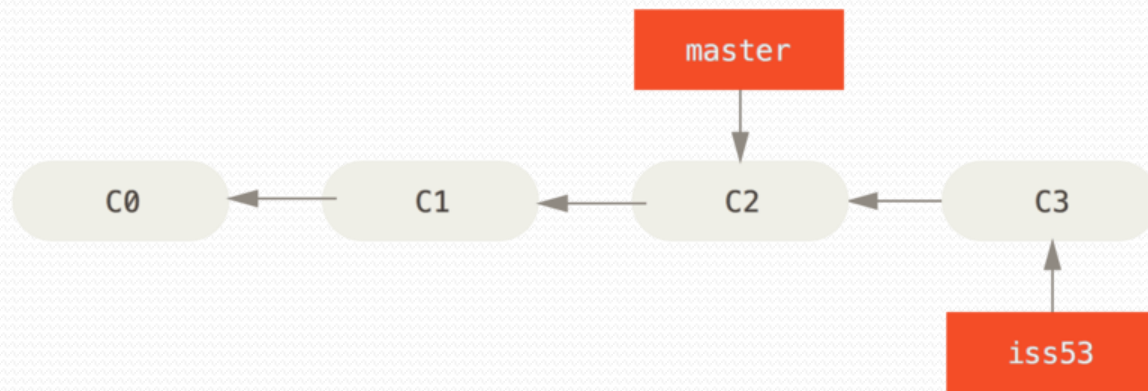
What are the steps in a basic
flow in Git?



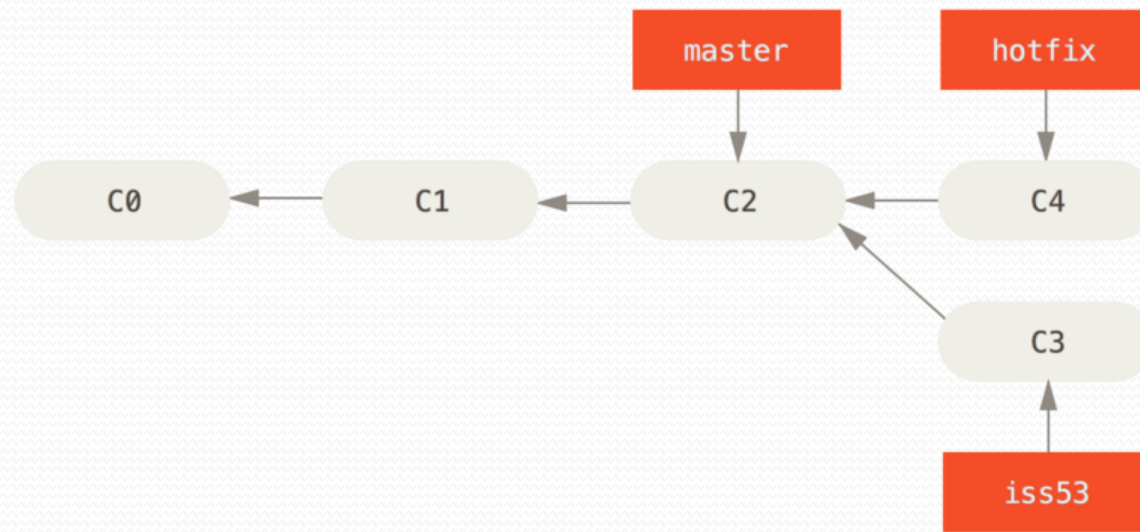
Which feature in Git is used to have parallel line of working?



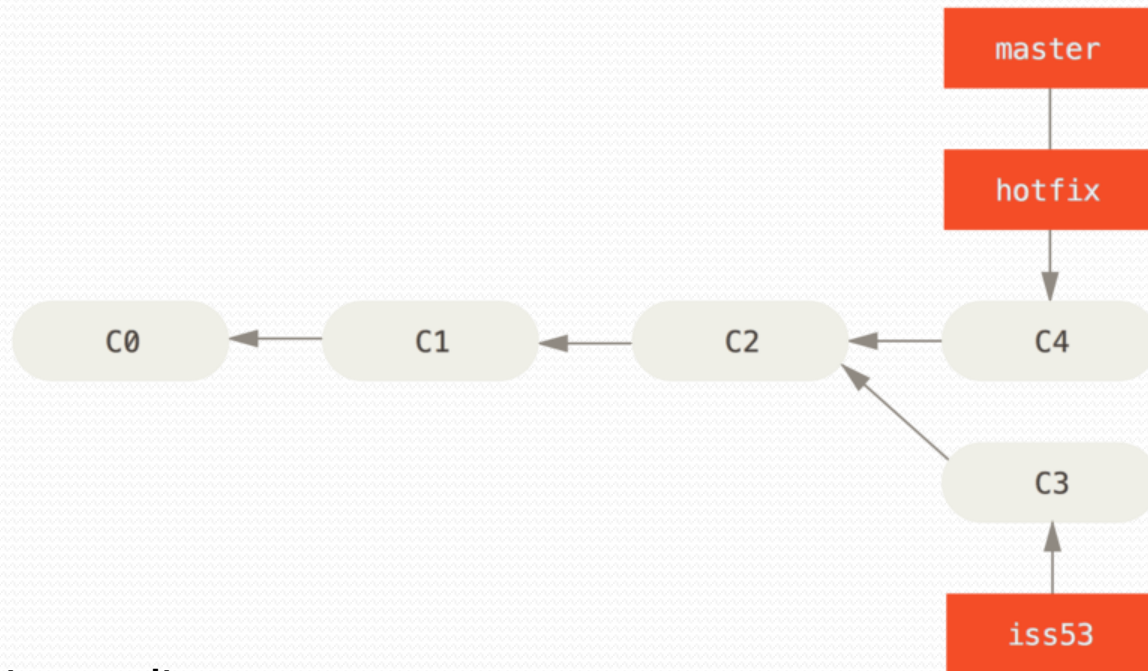
Courtesy: git-scm.com



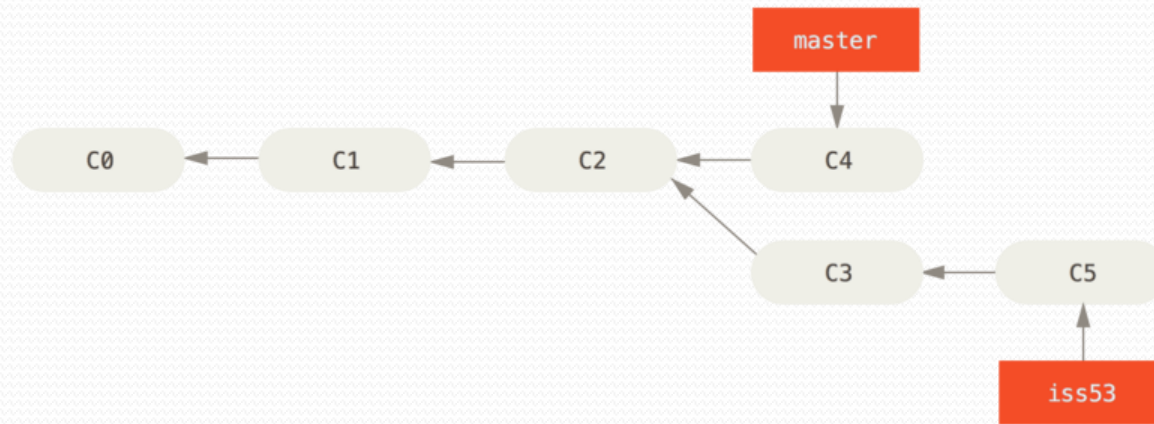
Courtesy: git-scm.com



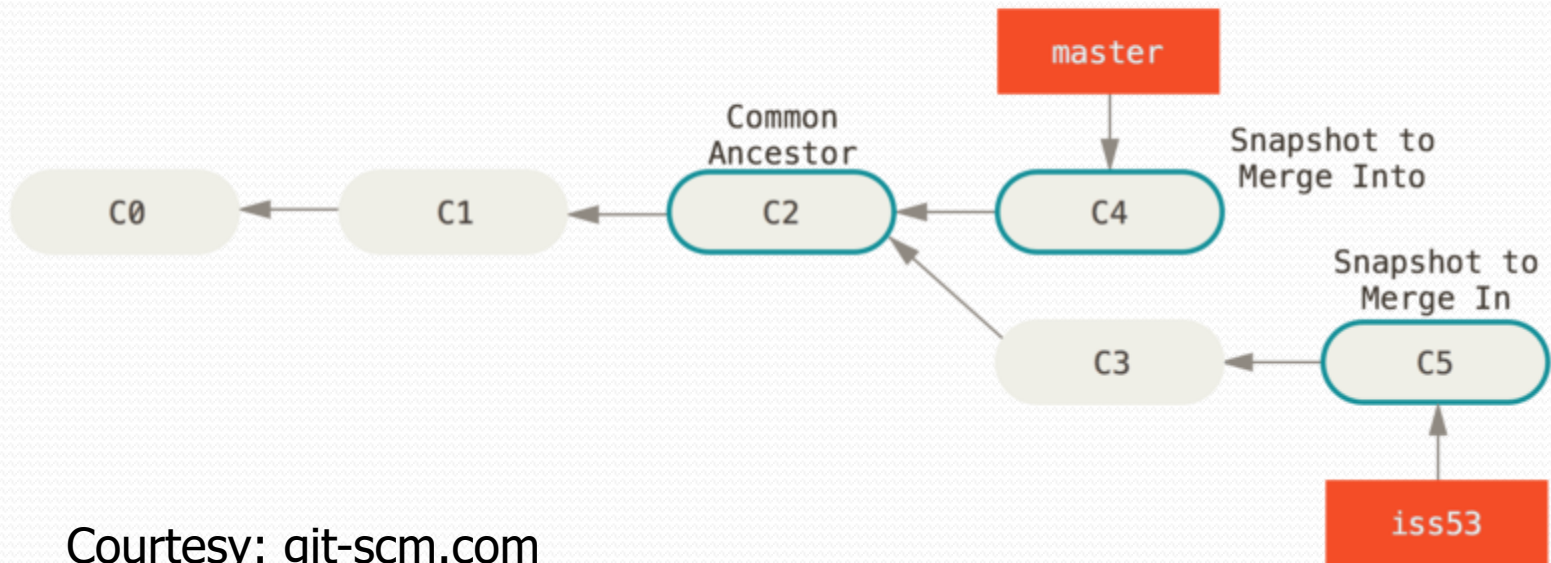
Courtesy: git-scm.com



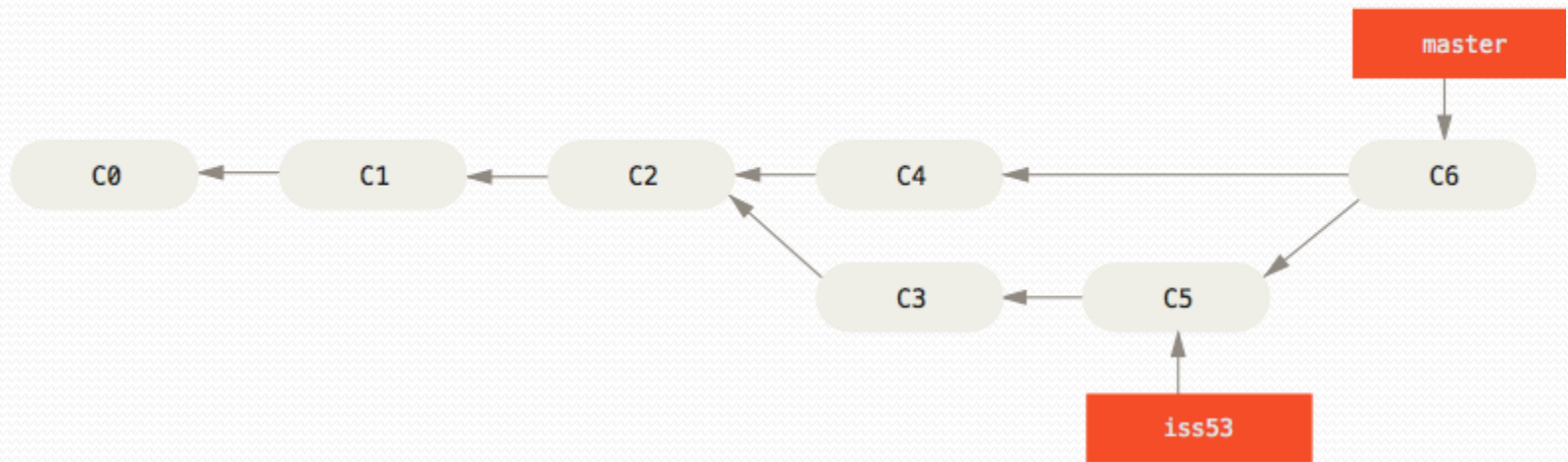
Courtesy: git-scm.com



Courtesy: git-scm.com



Courtesy: git-scm.com



Courtesy: git-scm.com




Which type of merge is done by creating a new commit ?



Which feature in Git is used to squash/merge 10 commits together into one commit?



Which feature in Git inverses the changes done in a commit but retains the older commit in history?



While working on a feature in your project, you had to work on a production issue. What are the sequence of steps involved in stashing?



Which feature in Git helps in
marked version release?



Q& A



Thank You