Git - Version control System (VCS) - Store the complete revision history of a project - Distributed - When a git repository is cloved, the clove Contains the complete revision history - A close is not field to the original repository, and (400 lasily be hister on different servers or merge)

- Commits

- A commit is a snapshot of the code at a

certain time

- Also contains metadata

- Author

- Time stamp

- Commit message

- Hash

- A revision history is a series of commits

- Every commit besides the initial commit has
at least one parent commit

- Bruches

- Every repository has at least one branch

- New Granches an be created from existing branches

- Different branches can have different hostories that

Fork off the same comment

- Brancher can be weiged to sether

- Best practice for adding a new featur or bas fix

- Creake a new branch

- Work in new branch

- Marge back into master

- Gittes and other Git hosting sites allow brancher

to be marged account repositories (pull regulasts)

Observer Desisa Pattern

- Definer a one to - many relationship among objects - Our subject is observed by many observers - Subject notifier observers of state changes - Subject interface - register_observer() - remove - observer () - notify - observers ()

- Observe interface

- notify ()

