Instructor Notes:

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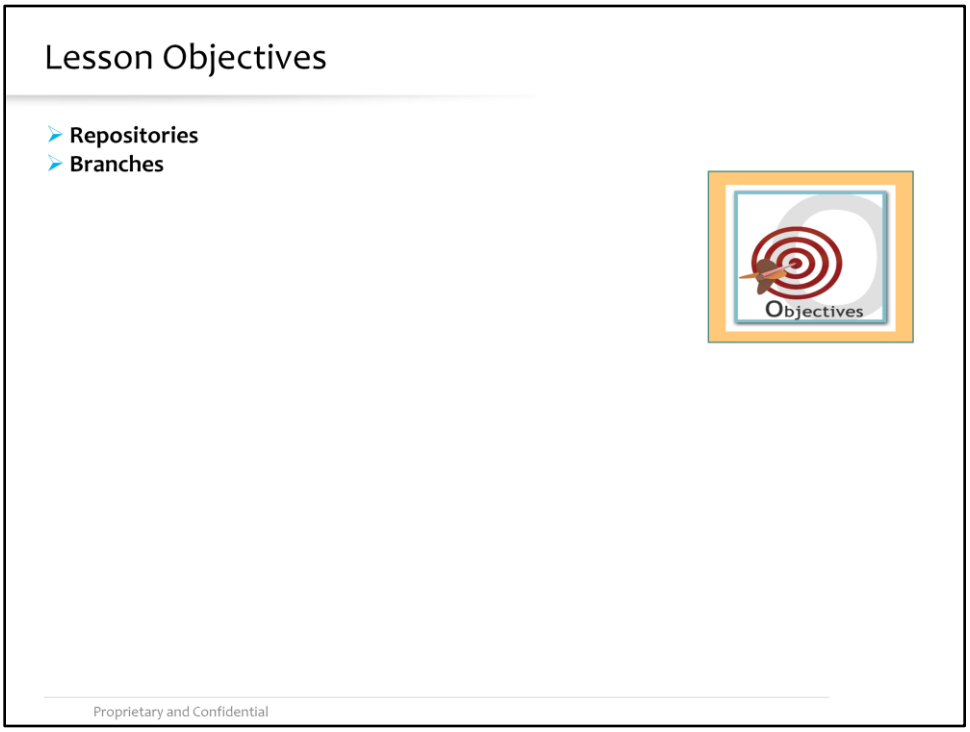

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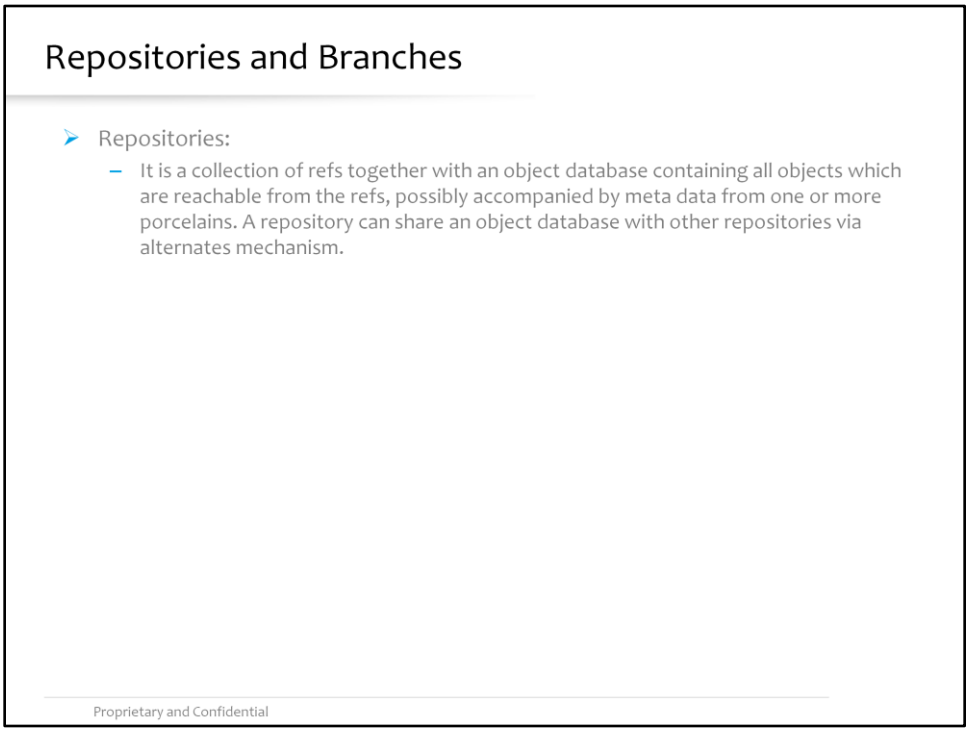

Ref : A 40-byte hex representation of a SHA1 or a name that denotes a particular object. They may be stored in a file under $GIT_DIR/refs/ directory, or in the $GIT_DIR/packed-refs file
Reachable: All of the ancestors of a given commit are said to be "reachable" from that commit. More generally, one object is reachable from another if we can reach the one from the other by a chain that follows tags to whatever they tag, commits to their parents or trees, and trees to the trees or blobs that they contain.
Porcelain: Cute name for programs and program suites depending on core git, presenting a high level access to core git. Porcelains expose more of a SCM interface than the plumbing
Alternate object database: Via the alternates mechanism, a repository can inherit part of its object database from another object database, which is called "alternate

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A bare repository is normally an appropriately named directory with a .git suffix that does not have a locally checked-out copy of any of the files under revision control. That is, all of the git administrative and control files that would normally be present in the hidden .git sub-directory are directly present in the repository.git directory instead, and no other files are present and checked out. Usually publishers of public repositories make bare repositories available.
master The default development branch. Whenever you create a git repository, a branch named "master" is created, and becomes the active branch. In most cases, this contains the local development, though that is purely by convention and is not required.

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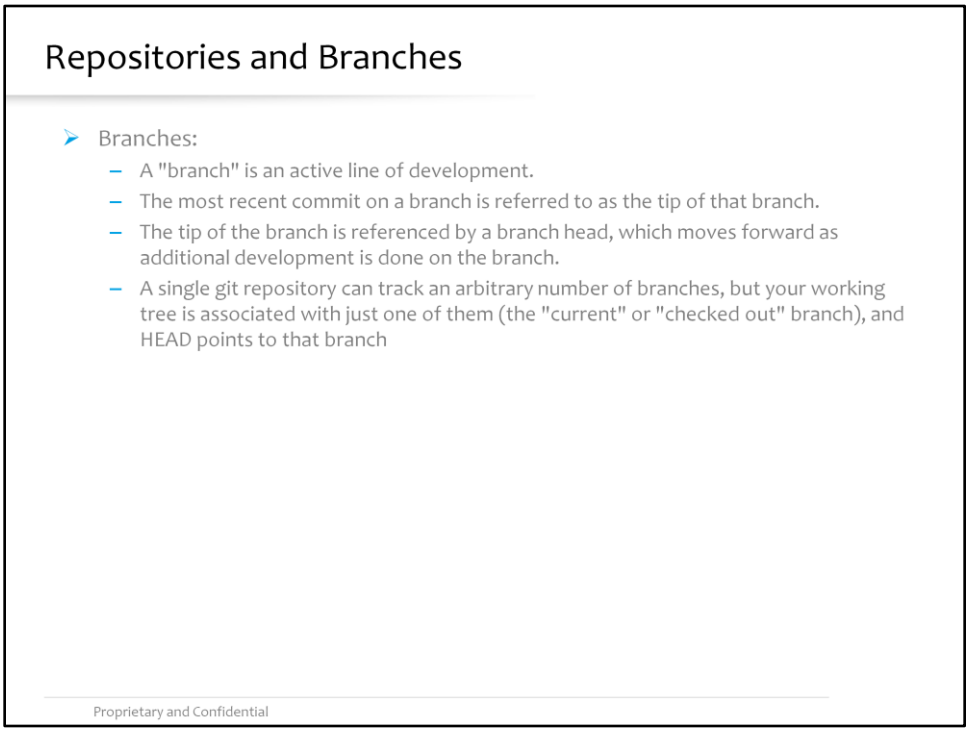

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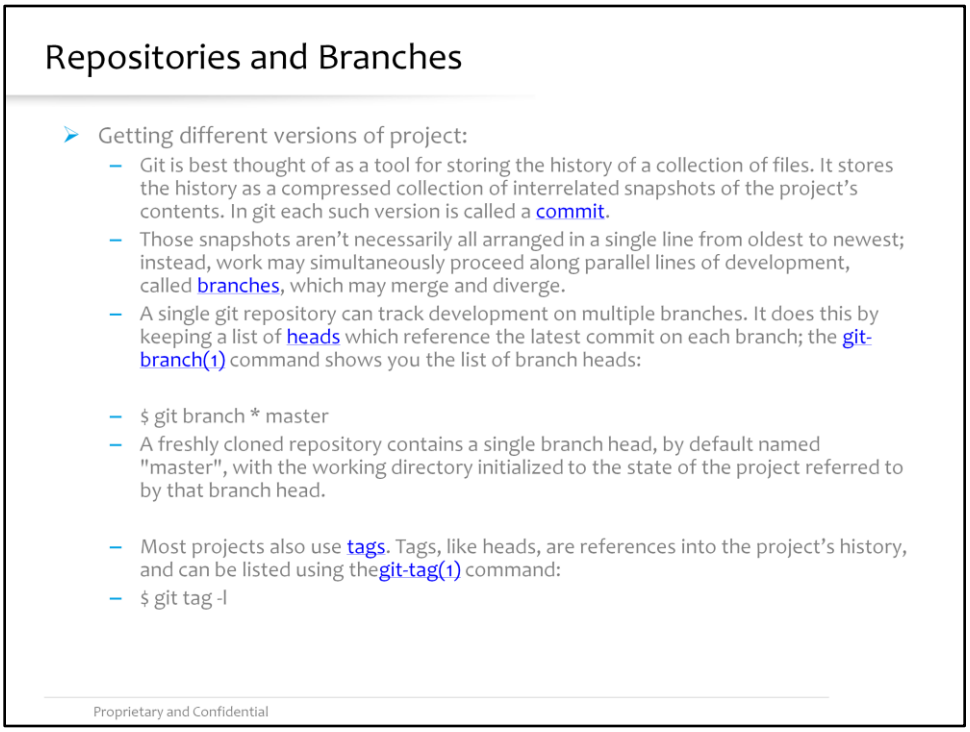

HEAD: The current branch. In more detail: Your working tree is normally derived from the state of the tree referred to by HEAD. HEAD is a reference to one of the heads in your repository, except when using a detached HEAD, in which case it directly references an arbitrary commit.

detached HEAD: Normally the HEAD stores the name of a branch. However, git also allows you to check out an arbitrary commit that isn't necessarily the tip of any particular branch. In this case HEAD is said to be "detached".

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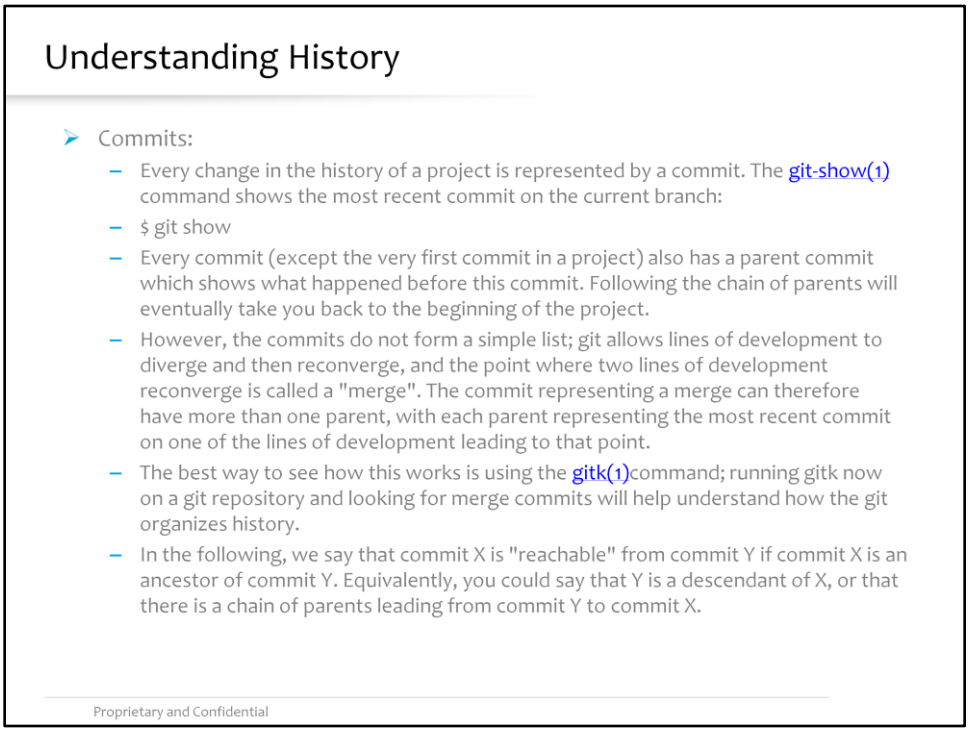

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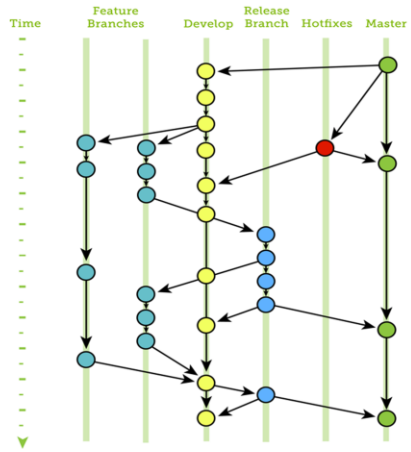
Understanding History

- History Diagrams:
  - We will sometimes represent git history using diagrams like the one below:



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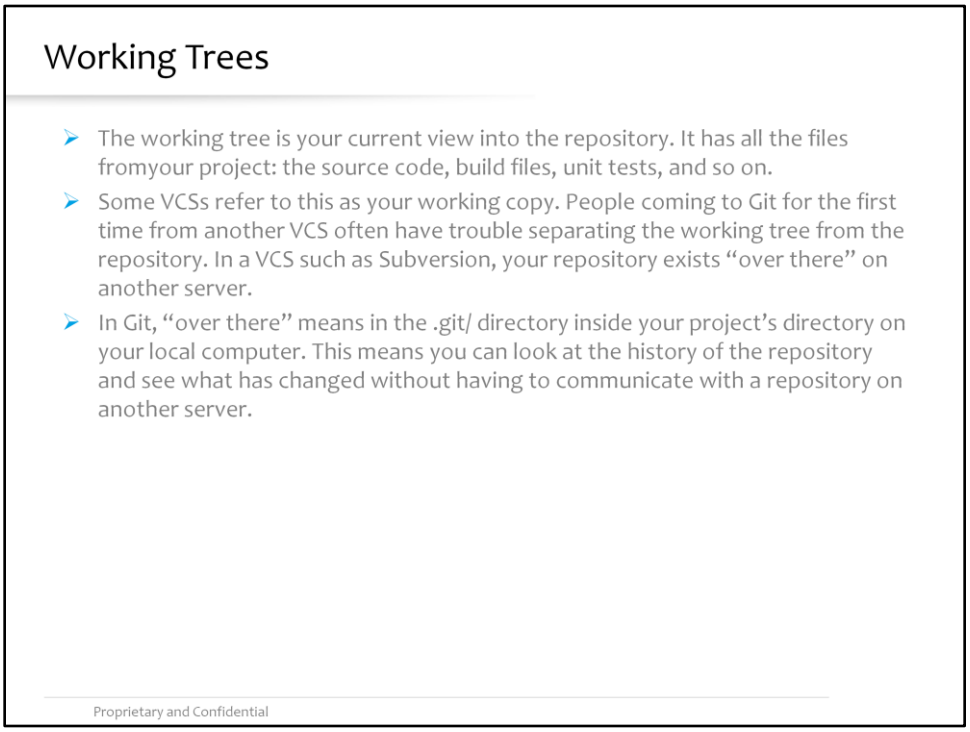

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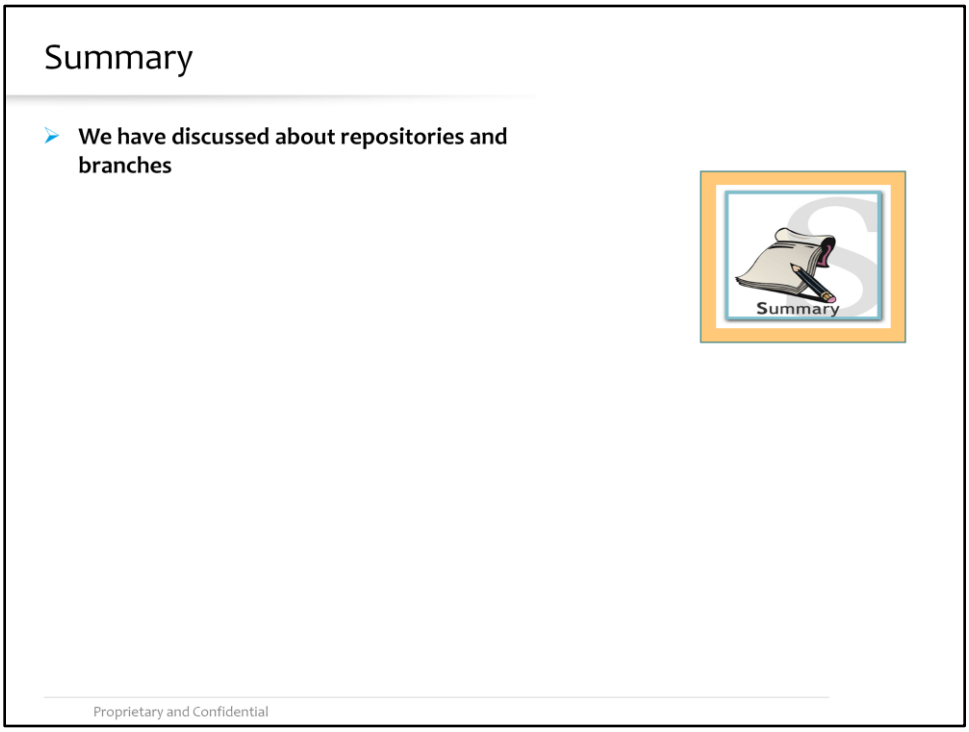

Add the notes here.