

Day - 1

- - Understanding version control
 - The history of Git
 - About distributed version control
 - Who should use Git?
 - - Installing Git on a Mac
 - Installing Git on Windows
 - Installing Git on Linux
 - Configuring Git
 - Exploring Git auto-completion
 - **Using Git help**
 - - o Initializing a repository
 - o Understanding where Git files are stored
 - o Performing your first commit
 - o Writing commit messages
 - o Viewing the commit log
- - o Exploring the three-trees architecture
 - o The Git workflow
 - o Using hash values (SHA-1)
 - o Working with the HEAD pointer
 - - o Adding files
 - o Editing files
 - o Viewing changes with diff
 - o Viewing only staged changes
 - o Deleting files
 - o Moving and renaming files
 - o Using Git with a Real Project
 - o Introducing the Explore California web site
 - o Initializing Git
 - o Editing the support phone number
 - o Editing the backpack file name and links
- - o Undoing working directory changes
 - o Unstaging files
 - o Amending commits
 - o Retrieving old versions
 - o Reverting a commit
 - o Using reset to undo commits
 - o Demonstrating a soft reset
 - o Demonstrating a mixed reset
 - o Demonstrating a hard reset
 - o Removing untracked files
 - - o Using .gitignore files
 - o Understanding what to ignore
 - o Ignoring files globally
 - o Ignoring tracked files
 - o Tracking empty directories

- - o Referencing commits
 - o Exploring tree listings
 - o Getting more from the commit log
 - o Viewing commits
 - o Comparing commits

- - o Branching overview
 - o Viewing and creating branches
 - o Switching branches
 - o Creating and switching branches
 - o Switching branches with uncommitted changes
 - o Comparing branches
 - o Renaming branches
 - o Deleting branches

- - o Merging code
 - o Using fast-forward merge vs. true merge
 - o Merging conflicts
 - o Resolving merge conflicts
 - o Exploring strategies to reduce merge conflicts
 - o Fast Forward Merge
 - o Three way Merge
 - o Rebasing

- - o Saving changes in the stash
 - o Viewing stashed changes
 - o Retrieving stashed changes
 - o Deleting stashed changes

- - o Using local and remote repositories
 - o Adding a remote repository
 - o Creating a remote branch
 - o Cloning a remote repository
 - o Tracking remote branches
 - o Pushing changes to a remote repository
 - o Fetching changes from a remote repository
 - o Merging in fetched changes
 - o Checking out remote branches
 - o Pushing to an updated remote branch
 - o Deleting a remote branch
 - o Enabling collaboration
 - o A collaboration workflow