



SECURITY
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GIT LEARNING PATH



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git

FROM LEARNERS TO LEADERS



**SECURITY
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Section 1 – Getting Started

- **What is Git**
- **Using Git**
- **Installing Git**
- **Configuring Git**
- **Getting Help**
- **Cheat Sheet**

Section 2 – Git Basics

- **Introduction**
- **Git Workflow**
- **Initializing a Repository**
- **Staging Files**
- **Committing Changes**
- **Removing, Renaming & Ignoring Files**
- **Skipping the Staging Area**
- **Removing Files**
- **Renaming or Moving Files**
- **Ignoring Files**
- **Short Status**
- **Staged vs Unstaged**

- **Diff Tools**
- **Viewing History**
- **Viewing a Commit**
- **Unstaging Files**
- **Discarding Changes**
- **Restore to Previous Version**
- **Snapshots in VSCode**
- **Snapshots in GitKraken**

Section 3 – Exploring History

- **Intro to Git Logs**
- **Getting a Repository**
- **Viewing History**
- **Filtering History**
- **Formatting Log Output**
- **Aliases**
- **Viewing a Commit**
- **Changes Across Commits**
- **Checking Out a Commit**
- **Using Bisect**
- **Using Shortlog**
- **File History**
- **Restoring Deleted Files**
- **Using Blame**
- **Tagging**

- **History in VSCode**
- **History in GitKraken**

Section 4 – Branches & Merging

- **Branching Intro**
- **What Are Branches**
- **Getting a Repository**
- **Working with Branches**
- **Comparing Branches**
- **Stashing**
- **Merging**
- **Fast Forward Merges**
- **Three-Way Merges**
- **Merged vs Unmerged**
- **Merge Conflicts**
- **Merge Tools**
- **Aborting a Merge**
- **Undoing a Merge**
- **Squash Merging**
- **Rebase**
- **Cherry Pick**
- **Pick from Another Branch**
- **Branching in VSCode**
- **Branching in GitKrake**

Section 5 – Remote Repos & Collaboration

- **Introduction**
- **Creating a GitHub Repo**
- **Adding Collaborators**
- **Cloning a Repository**
- **Fetching**
- **Pulling**
- **Pushing**
- **Storing Credentials**
- **Sharing Tags**
- **Releases**
- **Sharing Branches**
- **Collaboration Workflow**
- **Pull Requests**
- **Resolving Conflicts**
- **Issues**
- **Labels**
- **Milestones**
- **Contributing to Open Source**
- **Keeping Forks Updated**
- **VSCoDe Collaboration**
- **GitKraken Collaboration**

Section 6 – Rewriting History

- Introduction
- Why Rewrite History
- Golden Rule
- Bad History Example
- Undoing Commits
- Reverting Commits
- Recovering Lost Commits
- Amending Last Commit
- Amending Older Commit
- Dropping Commits
- Rewording Messages
- Reordering Commits
- Squashing Commits
- Splitting Commits