

Fossil Version Control Cheatsheet

A concise guide to Fossil, the self-contained, distributed version control system. Covering basic commands, repository management, and workflow essentials.



Getting Started with Fossil

Repository Creation & Setup

fossil new <repository-name>.fossil - Creates a new Fossil repository.</repository-name>		
Example: fossil new project.fossil		
fossil open <repository-name>.fossil - Opens an existing Fossil repository in the current directory.</repository-name>		
Example:		
fossil open project.fossil		
fossi1 close - Closes the currently open Fossil repository.		
fossil info - Displays information about the currently open repository.		

Basic Workflow

fossil add	Adds a new file to the Fossil repository.
fossil commit -m " <commit- message="">"</commit->	Commits the changes to the local repository with a descriptive message.
fossil update	Updates the local workspace to the latest version from the repository.
fossil changes	Shows the list of changes.

Configuration

Example: fossil set autosync 1 (Enables automatic	•
	fossil unset <setting> - Unsets a Fossil</setting>

Branching and Merging

Branch Management

fossil branch new <branch- name></branch- 	Creates a new branch.
fossil branch	Lists existing branches.
fossil checkout tranch-name>	Switches to the specified branch.
fossil update 	Updates the local workspace to the specified branch.

Merging Changes

fossil merge branch-name> - Merges changes from the specified branch into the current branch.
Note: Resolve any conflicts manually after the merge.
fossil commit -m "Merged <branch-name>" - Commits the merged changes.</branch-name>
fossil revert <file> - Reverts changes to a specific file.</file>

Resolving Conflicts

Fossil marks conflicted files with conflict markers. Edit the files to resolve the conflicts manually.

(fossil resolved <file>) - Marks the conflict as resolved after manual editing.

Remote Operations

Synchronization

fossil clone <url> <repository -="" name="">.fossi 1</repository></url>	Clones a remote Fossil repository.
fossil sync	Synchronizes changes with the remote repository. It pushes local changes and pulls remote changes.
fossil push	Pushes local changes to the remote repository.
fossil pull	Pulls remote changes to the local repository.

Remote Management

fossil remote add <name> <url> - Adds a</url></name>
remote repository with a specified name and URL.
(fossil remote list) - Lists all configured remote repositories.
fossil remote remove <name> - Removes a remote repository.</name>

Troubleshooting Sync Issues

Ensure the remote URL is correct and accessible. Check network connectivity.
Resolve any merge conflicts before pushing changes.

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Advanced Fossil Features

Fossil Artifacts

Fossil uses content-addressable storage. Each version of each file is stored as an artifact.
fossil find <artifact-id> - Finds an artifact by its ID.</artifact-id>
fossil cat <artifact-id> - Displays the content of an artifact.</artifact-id>

Fossil Tickets

fossil ticket	Creates a new ticket in the Fossil repository.
fossil ticket	Lists all tickets.
<pre>fossil ticket show <ticket-id></ticket-id></pre>	Shows details of a specific ticket.

Fossil Web Interface

(fossil ui) - Starts the Fossil web interface in your default browser.

The web interface provides access to repository

content, history, tickets, and other features.

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