



### Getting Started with Fossil

#### Repository Creation & Setup

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

#### Branching and Merging

##### Branch Management

<code>fossil branch new &lt;branch-name&gt;</code>	Creates a new branch.
<code>fossil branch list</code>	Lists existing branches.
<code>fossil checkout &lt;branch-name&gt;</code>	Switches to the specified branch.
<code>fossil update &lt;branch-name&gt;</code>	Updates the local workspace to the specified branch.

#### Remote Operations

##### Synchronization

<code>fossil clone &lt;url&gt; &lt;repository-name&gt;.fossil</code>	Clones a remote Fossil repository.
<code>fossil sync</code>	Synchronizes changes with the remote repository. It pushes local changes and pulls remote changes.
<code>fossil push</code>	Pushes local changes to the remote repository.
<code>fossil pull</code>	Pulls remote changes to the local repository.

#### Advanced Fossil Features

##### Fossil Artifacts

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

#### Basic Workflow

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

##### Merging Changes

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

#### Configuration

<code>fossil set &lt;setting&gt; &lt;value&gt;</code>	- Sets a Fossil configuration option.
<b>Example:</b>	
<code>fossil set autosync 1</code>	(Enables automatic synchronization)
<code>fossil unset &lt;setting&gt;</code>	- Unsets a Fossil configuration option.
<code>fossil config list</code>	- Lists all Fossil configuration options.

##### Resolving Conflicts

Fossil marks conflicted files with conflict markers. Edit the files to resolve the conflicts manually.	
<code>fossil resolved &lt;file&gt;</code>	- Marks the conflict as resolved after manual editing.

##### Remote Management

<code>fossil remote add &lt;name&gt; &lt;url&gt;</code>	- Adds a remote repository with a specified name and URL.
<code>fossil remote list</code>	- Lists all configured remote repositories.
<code>fossil remote remove &lt;name&gt;</code>	- Removes a remote repository.

##### 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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##### Fossil Tickets

<code>fossil ticket new</code>	Creates a new ticket in the Fossil repository.
<code>fossil ticket list</code>	Lists all tickets.
<code>fossil ticket show &lt;ticket-id&gt;</code>	Shows details of a specific ticket.

##### Fossil Web Interface

<code>fossil ui</code>	- Starts the Fossil web interface in your default browser.
The web interface provides access to repository content, history, tickets, and other features.	