

FOSSIL SCM QUICK REF

NOTE: This quick ref is written for Unix/Linux and some commands may be different for DOS/Windows.

Repository Setup

<code>fossil clone URL</code>	see below for URL formats
<code>fossil new <filename>.fossil</code>	Creates new fossil database file.
<code>fossil open <filename>.fossil</code>	Create a working copy of the repository in the current directory

Fossil URLs

<code>file://path/to/name.fossil</code>	Direct access to a central fossil db via the filesystem
<code>http://user:password@host:port</code>	Access to a fossil server via http. user and password are optional
<code>ssh://user@host/path/name.fossil</code>	Access to a fossil via ssh

Sync/push/pull

<code>fossil sync URL</code>	sync the db associated with the current working area with a central db accessed via URL
<code>fossil sync URL -R name.fossil</code>	sync name.fossil with the db accessed via URL
<code>fossil sync</code>	sync the db associated with the current working area with last used URL
<code>fossil pull</code>	retrieve changes (deltas) from default
<code>fossil push</code>	push deltas to default

Add/extras

<code>fossil add file</code>	Register "file" with fossil
<code>fossil add dir</code>	Recursively register all files in dir with fossil, Use --dotfiles to include dotfiles
<code>fossil extras</code>	Show files not controlled by fossil

Remove/rm

<code>fossil rm file</code>	Unregister file from fossil control. Note: Does NOT physically remove files!
<code>fossil rm dir</code>	Recursively remove files in dir from fossil control.

Move/mv

<code>fossil mv file1 file2</code>	Register file1 as having been moved to file2. Note: Does NOT physically move files!
<code>fossil mv file dir</code>	Register file as having been moved to dir.

Safely and unambiguously move a tree of files:

```
find * -type f -exec fossil mv {} newdir/{} \;  
mv * newdir/dir;mv newdir/_FOSSIL_ .  
fossil extras # NOTE: should show no extras!  
fossil ci
```

Update/commit/ci

<code>fossil update</code>	Performs an autosync then applies any new changes to the working area.
<code>fossil ci -m "Message"</code>	Performs an autosync then commits changed controlled files to the local db and syncs the changes to the central db.

Branches

<code>fossil branch</code>	List branches
<code>fossil branch new bname</code>	Create a new branch "bname"
<code>fossil ci --branch bname</code>	Put changes on new branch
<code>fossil co bname</code>	Change the working dir state to the tip of branch "bname".
<code>fossil update bname</code>	Change the working dir state to the tip of branch "bname" merging edits to local files.
<code>fossil merge bname</code>	Merge branch bname into the current branch

The User Interface

<code>fossil ui</code>	Starts a fossil server to localhost and a webbrowser. If you use shared machines you should set a password
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Revert

<code>fossil revert</code>	Remove local changes
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Forks - one approach if you get the message: "fossil will fork"

<code>fossil ci -f -m "Message"</code> <code>fossil leaves</code> <code>fossil merge <leafid></code>	If you must fork it is safer to put your changes into a commit and then do a controlled merge
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Forks - alternative approach

<code>fossil update</code> <code># resolve collisions</code> <code>fossil ci</code>	Updating into a directory where you have made edits has slight risk but is easier
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Tagging revisions

<code>fossil tag add tname revid</code>	Attach tag tname to rev revid
<code>fossil tag cancel tname revid</code>	Remove tag tname from rev revid
<code>fossil tag list</code>	

Status and Information

<code>fossil status</code>	Print important information about the state of your working area including what files have been changed
<code>fossil info</code>	Print succinct information about your working area (much faster than status but no info on changed files)
<code>fossil timeline</code>	Prints a limited history of changes to the screen. Generally you are better off to use "fossil ui"

Diff and graphical tools

<code>fossil help set</code> <code>fossil set gmerge 'xxdiff "%original" "%baseline" "%merge" -M "%output"'</code>	Look for "gdiff-command" and "gmerge-command" in help. Copy the command for the tool of your liking and use "fossil set ..." to set it. DO THIS immediately after opening a repository and your merges will be much easier!!
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<code>fossil diff fname</code>	See local changes to fname.
<code>fossil diff -r revid</code>	See changes relative to revid
<code>fossil diff -y</code> <code>fossil gdiff</code>	Side by side diffs are much easier to read. Use tkdiff, xxdiff, meld, kdiff3.or -y

Help!

<code>fossil help <command></code>	Get help on <command>
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Miscellaneous useful info on Fossil.

Note: All the important stuff is on the reverse side!

Addressremove

`fossil addressremove`

From the local working area register all files with fossil and unregister any removed files.

All

`fossil all list`

list all your repository dbs

`fossil all sync`

sync all your repository dbs

Annotate

`fossil annotate fname`

List file fname with details on who changed what line of the file and when

Bisect

`fossil bisect good`

Mark this rev as good

`fossil bisect bad`

Mark this rev as bad

`fossil bisect next`

Go to next rev to test (default is this happens automatically)

Ls

`fossil ls -l`

Show some information on files

Rebuild

`fossil rebuild`

Update some data in your fossil dbs for new features and performance when moving to a new version of fossil.

`fossil rebuild -wal`

Use the new and faster “wal” mode for db access. WARNING: Do not use on networked filesystems!

Redo/undo

`fossil undo`

Back out from the last merge, update, revert, stash pop, stash apply, stash drop, stash goto. WARNING: There is only one level of undo/redo

`fossil redo`

Synonym for undo!?

Scrub

`fossil scrub`

Remove private information such as passwords from a fossil db. WARNING: This command is irreversible!

Server

`fossil server ./`

Serve all the fossils in the current directory (must have .fossil extension). The fossils will be accessible at `http://hostname:8080/<fossilname>/`

Tickets

From the fossil ui
Tickets → New ticket

Create a new ticket

Tickets → All tickets

Show all tickets

Wiki

From the fossil ui
Under the Admin link
Set Project Name and Description

These are required to access the default wiki page

To edit wiki pages
Wiki → <projectname>
→ Edit

The “Edit” link is visible only after you browse to the front page via the Wiki link.

Wiki Language

two spaces before and after a *
at start of line

Bulleted list item

two spaces before and after a #
at start of line

Numbered list item

[url] or [url|linktext]

Hyperlinks

<verbatim> </verbatim>

Preformatted plain text

Accepted html tags: <a> <address> <big> <blockquote>
 <center> <cite> <code> <col> <colgroup> <dd> <dfn> <div> <dl> <dt> <h1> <h2> <h3> <h4> <h5> <h6> <hr> <i> <kbd> <nobr> <nowiki> <p> <pre> <s> <samp> <small> <strike> <sub> <sup> <table> <tbody> <td> <tfoot> <th> <thead> <tr> <tt> <u> <var> <verbatim>

Controlled Docs Mechanism

`http://url/doc/tip/file.html`

Access checked in file “file.html” via the web ui. Can also serve .wiki files.

- Can use tag, refid, or branch name in place of “tip”
- .wiki is a controlled file using wiki syntax

Stash

`fossil stash`

Save your local edits in a stash for later retrieval

`fossil stash ls`

List your stashes

`fossil stash apply idnum`

Apply stash idnum to your working area. Get the idnum using stash ls.

Common problems and solutions

Error: Database error: database is locked

Did you accidentally open a fossil db that has been served? You want to serve from a different clone of the db than is used to open the repository.

File is corrupted with lines of “=====”, “>>>>>>” and other junk.

You likely missed warnings about merge conflicts and checked in files with conflict markers. Find and redo your merge - be sure to set the gmerge-command before redoing the merge, or manually edit the file.

Sync via ssh seems to not work.

This author has not yet gotten ssh to work. Check on the mailing list for current status.

URLs, Mailing List

Fossil Home Page

<http://fossil-scm.org>

Fossil Book

<http://www.fossil-scm.org/schimpf-book>

Mailing List

<http://lists.fossil-scm.org:8080/cgi-bin/mailman/listinfo/fossil-users>

This quickref document

<http://www.kiatoa.com/fossils/opensrc/doc/tip/docs/fossil-quickref.odt>

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