

git(1) Manual Page

NAME

SYNOPSIS


```
git [--version] [--help] [-C <path>] [-c <name>=<value>]
    [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
    [-p|--paginate|-P|--no-pager] [--no-replace-objects] [--bare]
    [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
    [--super-prefix=<path>]
    <command> [<args>]
```

DESCRIPTION

git is a distributed version control system. It is designed to handle everything from small projects and bug fixes to large distributed projects and networks of contributors. It is designed to be fast and efficient, and to be easy to use. It is also designed to be flexible and to support a wide range of workflows. It is a powerful tool for managing code and for collaborating with others.

OPTIONS

--all -a

...  git help ... git --help

-C
-C <path> -C
<path> -C "" -C
--git-dir
--work-tree

-C

git --git-dir=a.git --work-tree=b -C c status
git --git-dir=c/a.git --work-tree=c/b status

foo.bar = git -c foo.bar ...
[foo]bar

git

```
-c foo.bar= ...  
--type=bool
```

```
foo.bar  
false
```

```
git config
```

```
man(1)
```

```
pager.<cmd>
```

```
GIT_DIR
```

GIT_DIR

```
--work-tree=  
<path>      GIT_WORK_TREE  
  
              <path>      git  
-C <path>
```

GIT_NAMESPACE

	GIT_LITERAL_PATHSPECS	1
GIT_GLOB_PATHSPECS		1
GIT_NOGLOB_PATHSPECS		1
GIT_ICASE_PATHSPECS		1
	GIT_OPTIONAL_LOCKS	0
\$PATH		

GIT COMMANDS

High-level commands (porcelain)

Main porcelain commands

`git init`

`git add`

`git commit`

`git push`

`git pull`

`git clone`

`git checkout`

`git merge`

`git log`

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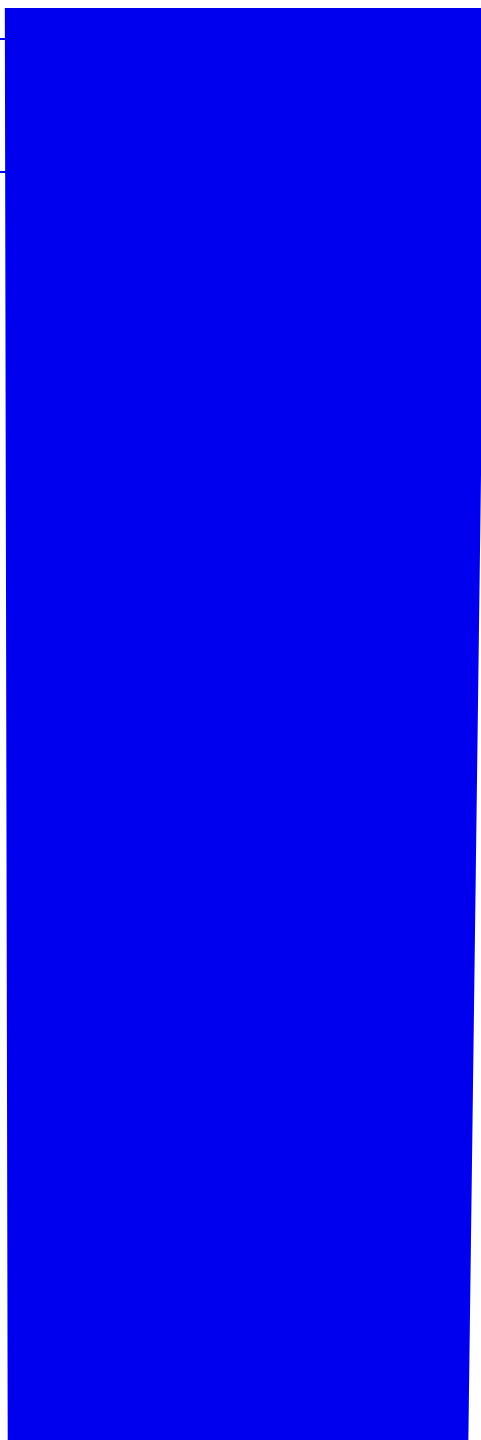
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Ancillary Commands



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Reset, restore and revert

git revert

git reset git restore

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- _____ - - .

- _____ - - .

git reset
git restore

Low-level commands (plumbing)

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Manipulation commands

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Interrogation commands

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Syncing repositories

Internal helper commands

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Configuration Mechanism

```
#  
# A '#' or ';' character indicates a comment.  
#  
  
; core variables  
[core]  
    ; Don't trust file modes  
    filemode = false  
  
; user identity  
[user]  
    name = "Junio C Hamano"  
    email = "gitster@pobox.com"
```

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Identifier Terminology

tree commit tag

blob

GIT_INDEX_FILE

Symbolic Identifiers

refs/tags/<tag>

refs/heads/<head>

File/Directory Structure

\$GIT_DIR

Terminology

Environment Variables

The Git Repository

GIT_INDEX_FILE

\$GIT_DIR/index

GIT_INDEX_VERSION

GIT_OBJECT_DIRECTORY

\$GIT_DIR/objects

GIT_ALTERNATE_OBJECT_DIRECTORIES

"

in-it":vanilla-path
vanilla-path

"path-with-\"-and-:-
path-with-\"-and-:-in-it

GIT_DIR

GIT_DIR

.git

--

git-dir

GIT_WORK_TREE

--work-tree

GIT_NAMESPACE

namespace

GIT_CEILING_DIRECTORIES

GIT_CEILING_DIRECTORIES=/maybe/symlink:./very/slow/non/symlink

GIT_DISCOVERY_ACROSS_FILESYSTEM

GIT_CEILING_DIRECTORIES

GIT_DIR

GIT_COMMON_DIR

Git Commits

GIT_AUTHOR_NAME

user.name author.name

GIT_AUTHOR_EMAIL

author.email

user.email

GIT_AUTHOR_DATE

GIT_COMMITTER_NAME

user.name committer.name

GIT_COMMITTER_EMAIL

committer.email

user.email

GIT_COMMITTER_DATE

EMAIL

Git Diffs

GIT_DIFF_OPTS

GIT_EXTERNAL_DIFF

GIT_EXTERNAL_DIFF

GIT_EXTERNAL_DIFF

path old-file old-hex old-mode new-file new-hex new-mode

				new-
file	/dev/null	old-file		
		old-file		

GIT_EXTERNAL_DIFF

GIT_EXTERNAL_DIFF

GIT_EXTERNAL_DIFF

GIT_EXTERNAL_DIFF	
GIT_DIFF_PATH_COUNTER	GIT_DIFF_PATH_TOTAL

GIT_DIFF_PATH_COUNTER

GIT_DIFF_PATH_TOTAL

other

GIT_MERGE_VERBOSITY

GIT_PAGER

\$PAGER

core.pager

GIT_PROGRESS_DELAY

GIT_EDITOR

\$EDITOR \$VISUAL

core.editor

GIT_SSH

GIT_SSH_COMMAND

ssh.variant

`$GIT_SSH_COMMAND`

`$GIT_SSH`

`$GIT_SSH`

`.ssh/config`

`GIT_SSH_VARIANT`

`GIT_SSH GIT_SSH_COMMAND core.sshCommand`

`ssh.variant`

`GIT_ASKPASS`

`core.askPass`

`GIT_TERMINAL_PROMPT`

`0`

`GIT_CONFIG_NOSYSTEM`

`$(prefix)/etc/gitconfig`

`$HOME $XDG_CONFIG_HOME`

`/etc/gitconfig`

`GIT_FLUSH`

GIT_TRACE

GIT_TRACE_FSMONITOR

GIT_TRACE

GIT_TRACE_PACK_ACCESS

GIT_TRACE

GIT_TRACE_PACKET

GIT_TRACE_PACKFILE

GIT_TRACE

GIT_TRACE_PACKFILE

GIT_TRACE_PACKFILE=/tmp/my.pack

GIT_TRACE_PERFORMANCE

GIT_TRACE

GIT_TRACE_SETUP

GIT_TRACE

GIT_TRACE_SHALLOW

GIT_TRACE

GIT_TRACE_CURL

--trace-ascii

GIT_CURL_VERBOSE

GIT_TRACE

GIT_TRACE_CURL_NO_DATA

GIT_TRACE_CURL

GIT_TRACE2

GIT_TRACE2

<absolute-pathname>

af_unix:[<socket_type>:]
stream dgram

GIT_TRACE2_EVENT

GIT_TRACE2

GIT_TRACE2_PERF

GIT_TRACE2

GIT_TRACE2

GIT_REDACT_COOKIES

GIT_TRACE_CURL

GIT_LITERAL_PATHSPECS

1

GIT_LITERAL_PATHSPECS=1 git log -- '*.c'

*.c *.c

git ls-tree --raw

GIT_GLOB_PATHSPECS

1

GIT_NOGLOB_PATHSPECS

1

GIT_ICASE_PATHSPECS

1

GIT_REFLOG_ACTION

git-sh-setup

GIT_REF_PARANOIA

1

GIT_ALLOW_PROTOCOL

protocol.allow never
protocol.<name>.allow always

protocol.allow

GIT_PROTOCOL_FROM_USER

user

GIT_PROTOCOL

GIT_OPTIONAL_LOCKS

0

git status

1

GIT_REDIRECT_STDIN
GIT_REDIRECT_STDOUT
GIT_REDIRECT_STDERR

CreateProcess()

every

\\.\pipe\my-git-stdin-123

off

GIT_REDIRECT_STDERR 2>&1

GIT_PRINT_SHA1_ELLIPSIS

yes



Discussion



ref/head/

ref/tags/

HEAD

FURTHER DOCUMENTATION

Authors

Reporting Bugs

SEE ALSO
