Basic Commands

coursera.org/learn/git-distributed-development/supplement/ZSuPA/basic-commands

You can see the version of git you have installed with:

```
$ git --version
git version 2.27.0
```

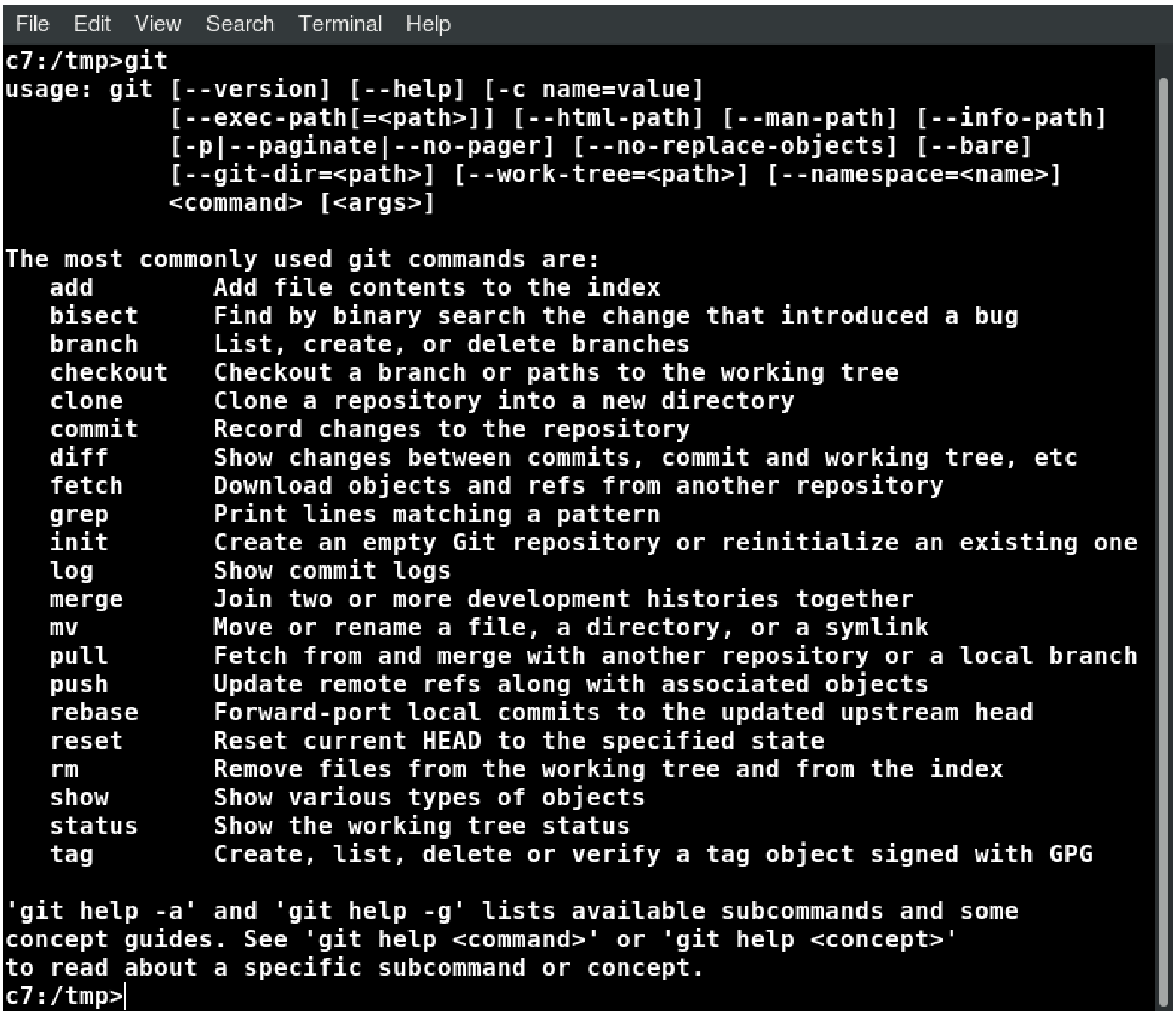
Detailed help information in the form of a man page can be obtained about any subcommand by doing:

```
$ git help [subcommand]
```

For example, the two following statements produce the same result:

```
$ git help status
$ man git-status
```

You can get a basic list of git commands by just typing **git**, which will give you the list showed in the following screenshot:

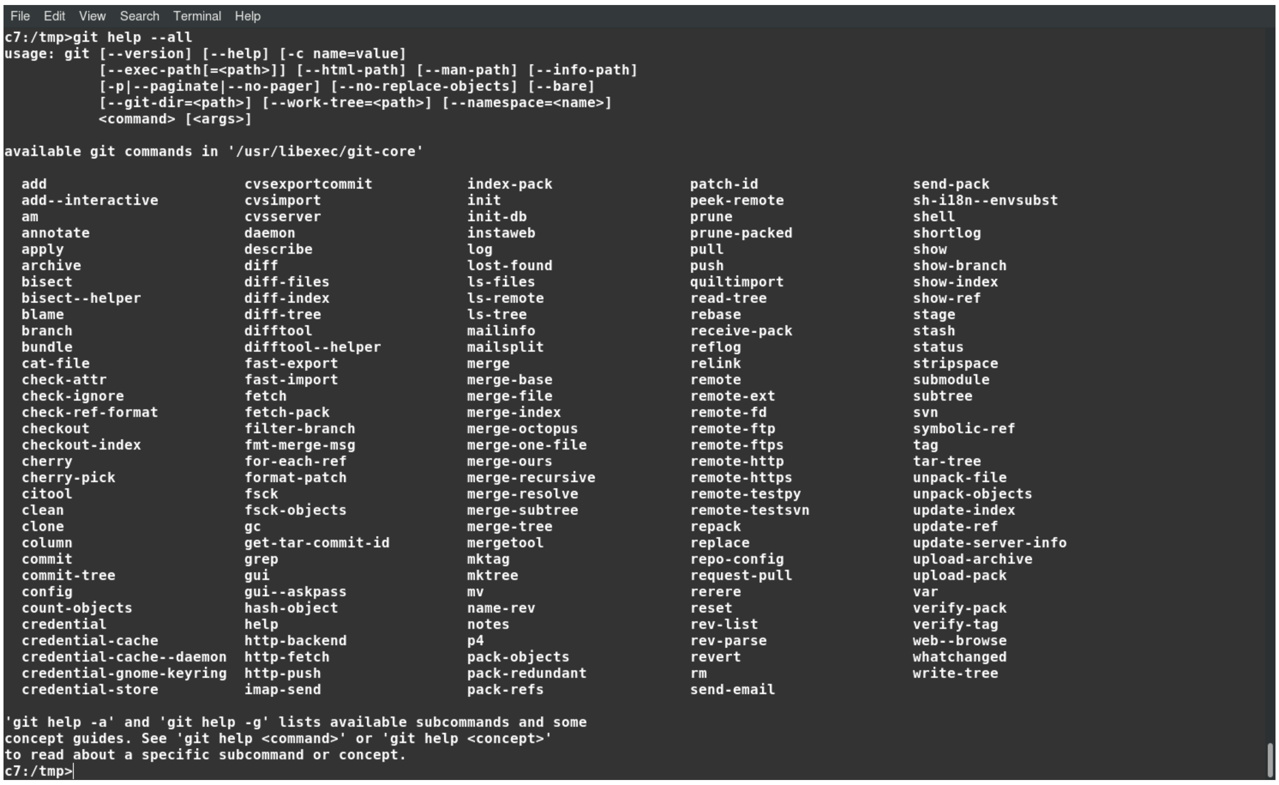


```
c7:/tmp>git
usage: git [--version] [--help] [-c name=value]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           <command> [<args>]

The most commonly used git commands are:
   add        Add file contents to the index
   bisect     Find by binary search the change that introduced a bug
   branch     List, create, or delete branches
   checkout   Checkout a branch or paths to the working tree
   clone      Clone a repository into a new directory
   commit     Record changes to the repository
   diff       Show changes between commits, commit and working tree, etc
   fetch      Download objects and refs from another repository
   grep       Print lines matching a pattern
   init       Create an empty Git repository or reinitialize an existing one
   log        Show commit logs
   merge      Join two or more development histories together
   mv         Move or rename a file, a directory, or a symlink
   pull       Fetch from and merge with another repository or a local branch
   push       Update remote refs along with associated objects
   rebase     Forward-port local commits to the updated upstream head
   reset      Reset current HEAD to the specified state
   rm         Remove files from the working tree and from the index
   show       Show various types of objects
   status     Show the working tree status
   tag        Create, list, delete or verify a tag object signed with GPG

'git help -a' and 'git help -g' lists available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
c7:/tmp>
```

There are only a few global options that apply, those prefixed with **--** in the above listing. Many of the subcommands have their own options, which are included in **[ARGS]** in the above.

If you cannot resist seeing the more complete set of commands, do:

```
$ git help --all
```



```
c7:/tmp>git help --all
usage: git [--version] [--help] [-c name=value]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p|--paginate|--no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           <command> [<args>]

available git commands in '/usr/libexec/git-core'

  add                       cvsexportcommit           index-pack                patch-id                  send-pack
  add--interactive          cvsimport                 init                      peek-remote               sh-i18n--envsubst
  am                        cvsserver                 init-db                   prune                     shell
  annotate                  daemon                    instaweb                  prune-packed              shortlog
  apply                     describe                  log                       pull                      show
  archive                   diff                      lost-found                push                      show-branch
  bisect                    diff-files                ls-files                  quiltimport               show-index
  bisect--helper            diff-index                ls-remote                 read-tree                 show-ref
  blame                     diff-tree                 ls-tree                   rebase                    stage
  branch                    difftool                  mailinfo                  receive-pack              stash
  bundle                    difftool--helper          mailsplit                 reflog                    status
  cat-file                  fast-export               merge                     relink                    stripspace
  check-attr                fast-import               merge-base                remote                    submodule
  check-ignore              fetch                     merge-file                remote-ext                subtree
  check-ref-format          fetch-pack                merge-index               remote-fd                 svn
  checkout                  filter-branch             merge-octopus             remote-ftp                symbolic-ref
  checkout-index            fmt-merge-msg             merge-one-file            remote-ftps               tag
  cherry                    for-each-ref              merge-ours                remote-http               tar-tree
  cherry-pick               format-patch              merge-recursive           remote-https              unpack-file
  citool                    fsck                      merge-resolve             remote-testpy             unpack-objects
  clean                     fsck-objects              merge-subtree             remote-testsvn            update-index
  clone                     gc                        merge-tree                repack                    update-ref
  column                    get-tar-commit-id         mergetool                 replace                   update-server-info
  commit                    grep                      mktag                     repo-config               upload-archive
  commit-tree               gui                       mktree                    request-pull              upload-pack
  config                    gui--askpass              mv                        rerere                    var
  count-objects             hash-object               name-rev                  reset                     verify-pack
  credential                help                      notes                     rev-list                  verify-tag
  credential-cache          http-backend              p4                        rev-parse                 web--browse
  credential-cache--daemon  http-fetch                pack-objects              revert                    whatchanged
  credential-gnome-keyring  http-push                 pack-redundant            rm                        write-tree
  credential-store          imap-send                 pack-refs                 send-email

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c7:/tmp>
```

The long list in the screenshot above may seem rather intimidating, but some of them are really for expert usage and rarely used, or are more efficiently invoked through shorthand combinatorial commands.

Furthermore, there are several graphical interfaces to git which avoid having to be able to name all the plumbing fixtures.