

NAME

git-format-patch - Prepare patches for e-mail submission

SYNOPSIS

```
git format-patch [-k] [(--o|--output-directory) <dir> | --stdout]
[--no-thread | --thread[=<style>]]
[(--attach|--inline)[=<boundary>] | --no-attach]
[-s | --signoff]
[--signature=<signature> | --no-signature]
[--signature-file=<file>]
[-n | --numbered | -N | --no-numbered]
[--start-number <n>] [--numbered-files]
[--in-reply-to=Message-Id] [--suffix=.<sfx>]
[--ignore-if-in-upstream]
[--subject-prefix=Subject-Prefix] [(--reroll-count|-v) <n>]
[--to=<email>] [--cc=<email>]
[--[no-]cover-letter] [--quiet] [--notes[=<ref>]]
[<common diff options>]
[ <since> | <revision range> ]
```

DESCRIPTION

Prepare each commit with its patch in one file per commit, formatted to resemble UNIX mailbox format. The output of this command is convenient for e-mail submission or for use with *git am*.

There are two ways to specify which commits to operate on.

1. A single commit, *<since>*, specifies that the commits leading to the tip of the current branch that are not in the history that leads to the *<since>* to be output.
2. Generic *<revision range>* expression (see SPECIFYING REVISIONS section in [gitrevisions\(7\)](#)) means the commits in the specified range.

The first rule takes precedence in the case of a single *<commit>*. To apply the second rule, i.e., format everything since the beginning of history up until *<commit>*, use the *--root* option: `git format-patch --root <commit>`. If you want to format only *<commit>* itself, you can do this with `git format-patch -1 <commit>`.

By default, each output file is numbered sequentially from 1, and uses the first line of the commit message (massaged for pathname safety) as the filename. With the *--numbered-files* option, the output file names will only be numbers, without the first line of the commit appended. The names of the output files are printed to standard output, unless the *--stdout* option is specified.

If *-o* is specified, output files are created in *<dir>*. Otherwise they are created in the current working directory.

By default, the subject of a single patch is [PATCH] followed by the concatenation of lines from the commit message up to the first blank line (see the DISCUSSION section of [git-commit\(1\)](#)).

When multiple patches are output, the subject prefix will instead be [PATCH n/m] . To force 1/1 to be added for a single patch, use *-n*. To omit patch numbers from the subject, use *-N*.

If given *--thread*, `git-format-patch` will generate In-Reply-To and References headers to make the second and subsequent patch mails appear as replies to the first mail; this also generates a Message-Id header to reference.

OPTIONS

-p, *--no-stat*

Generate plain patches without any diffstats.

-s, *--no-patch*

Suppress diff output. Useful for commands like `git show` that show the patch by default, or to cancel the effect of *--patch*.

`-U<n>`, `--unified=<n>`

Generate diffs with `<n>` lines of context instead of the usual three.

`--minimal`

Spend extra time to make sure the smallest possible diff is produced.

`--patience`

Generate a diff using the patience diff algorithm.

`--histogram`

Generate a diff using the histogram diff algorithm.

`--diff-algorithm={patience|minimal|histogram|myers}`

Choose a diff algorithm. The variants are as follows:

default, myers

The basic greedy diff algorithm. Currently, this is the default.

minimal

Spend extra time to make sure the smallest possible diff is produced.

patience

Use patience diff algorithm when generating patches.

histogram

This algorithm extends the patience algorithm to support low-occurrence common elements.

For instance, if you configured `diff.algorithm` variable to a non-default value and want to use the default one, then you have to use `--diff-algorithm=default` option.

`--stat[=<width>[,<name-width>[,<count>]]]`

Generate a diffstat. By default, as much space as necessary will be used for the filename part, and the rest for the graph part. Maximum width defaults to terminal width, or 80 columns if not connected to a terminal, and can be overridden by `<width>`. The width of the filename part can be limited by giving another width `<name-width>` after a comma. The width of the graph part can be limited by using `--stat-graph-width=<width>` (affects all commands generating a stat graph) or by setting `diff.statGraphWidth=<width>` (does not affect `git format-patch`). By giving a third parameter `<count>`, you can limit the output to the first `<count>` lines, followed by `...` if there are more.

These parameters can also be set individually with `--stat-width=<width>`, `--stat-name-width=<name-width>` and `--stat-count=<count>`.

`--numstat`

Similar to `--stat`, but shows number of added and deleted lines in decimal notation and pathname without abbreviation, to make it more machine friendly. For binary files, outputs `two -` instead of saying `0 0`.

`--shortstat`

Output only the last line of the `--stat` format containing total number of modified files, as well as number of added and deleted lines.

`--dirstat[=<param1,param2,...>]`

Output the distribution of relative amount of changes for each sub-directory. The behavior of `--dirstat` can be customized by passing it a comma separated list of parameters. The defaults are controlled by the `diff.dirstat` configuration variable (see [git-config\(1\)](#)). The following parameters are available:

changes

Compute the `dirstat` numbers by counting the lines that have been removed from the source, or added to the destination. This ignores the amount of pure code movements within a file. In other words, rearranging lines in a file is not counted as much as other

changes. This is the default behavior when no parameter is given.

lines

Compute the dirstat numbers by doing the regular line-based diff analysis, and summing the removed/added line counts. (For binary files, count 64-byte chunks instead, since binary files have no natural concept of lines). This is a more expensive `--dirstat` behavior than the `changes` behavior, but it does count rearranged lines within a file as much as other changes. The resulting output is consistent with what you get from the other `--*stat` options.

files

Compute the dirstat numbers by counting the number of files changed. Each changed file counts equally in the dirstat analysis. This is the computationally cheapest `--dirstat` behavior, since it does not have to look at the file contents at all.

cumulative

Count changes in a child directory for the parent directory as well. Note that when using `cumulative`, the sum of the percentages reported may exceed 100%. The default (non-cumulative) behavior can be specified with the `noncumulative` parameter.

<limit>

An integer parameter specifies a cut-off percent (3% by default). Directories contributing less than this percentage of the changes are not shown in the output.

Example: The following will count changed files, while ignoring directories with less than 10% of the total amount of changed files, and accumulating child directory counts in the parent directories: `--dirstat=files,10,cumulative`.

`--summary`

Output a condensed summary of extended header information such as creations, renames and mode changes.

`--no-renames`

Turn off rename detection, even when the configuration file gives the default to do so.

`--full-index`

Instead of the first handful of characters, show the full pre- and post-image blob object names on the index line when generating patch format output.

`--binary`

In addition to `--full-index`, output a binary diff that can be applied with `git-apply`.

`--abbrev[=<n>]`

Instead of showing the full 40-byte hexadecimal object name in `diff-raw` format output and `diff-tree` header lines, show only a partial prefix. This is independent of the `--full-index` option above, which controls the `diff-patch` output format. Non default number of digits can be specified with `--abbrev=<n>`.

`-B[<n>][/<m>], --break-rewrites[=<n>][/<m>]`

Break complete rewrite changes into pairs of delete and create. This serves two purposes:

It affects the way a change that amounts to a total rewrite of a file not as a series of deletion and insertion mixed together with a very few lines that happen to match textually as the context, but as a single deletion of everything old followed by a single insertion of everything new, and the number `m` controls this aspect of the `-B` option (defaults to 60%). `-B/70%` specifies that less than 30% of the original should remain in the result for Git to consider it a total rewrite (i.e. otherwise the resulting patch will be a series of deletion and insertion mixed together with context lines).

When used with `-M`, a totally-rewritten file is also considered as the source of a rename (usually `-M` only considers a file that disappeared as the source of a rename), and the number `n` controls this aspect of the `-B` option (defaults to 50%). `-B20%` specifies that a change with

addition and deletion compared to 20% or more of the file's size are eligible for being picked up as a possible source of a rename to another file.

`-M[<n>]`, `--find-renames[=<n>]`

Detect renames. If `n` is specified, it is a threshold on the similarity index (i.e. amount of addition/deletions compared to the file's size). For example, `-M90%` means Git should consider a delete/add pair to be a rename if more than 90% of the file hasn't changed. Without a `%` sign, the number is to be read as a fraction, with a decimal point before it. I.e., `-M5` becomes 0.5, and is thus the same as `-M50%`. Similarly, `-M05` is the same as `-M5%`. To limit detection to exact renames, use `-M100%`. The default similarity index is 50%.

`-C[<n>]`, `--find-copies[=<n>]`

Detect copies as well as renames. See also `--find-copies-harder`. If `n` is specified, it has the same meaning as for `-M[<n>]`.

`--find-copies-harder`

For performance reasons, by default, `-C` option finds copies only if the original file of the copy was modified in the same changeset. This flag makes the command inspect unmodified files as candidates for the source of copy. This is a very expensive operation for large projects, so use it with caution. Giving more than one `-C` option has the same effect.

`-D`, `--irreversible-delete`

Omit the preimage for deletes, i.e. print only the header but not the diff between the preimage and `/dev/null`. The resulting patch is not meant to be applied with `patch` or `git apply`; this is solely for people who want to just concentrate on reviewing the text after the change. In addition, the output obviously lack enough information to apply such a patch in reverse, even manually, hence the name of the option.

When used together with `-B`, omit also the preimage in the deletion part of a delete/create pair.

`-l<num>`

The `-M` and `-C` options require $O(n^2)$ processing time where `n` is the number of potential rename/copy targets. This option prevents rename/copy detection from running if the number of rename/copy targets exceeds the specified number.

`-O<orderfile>`

Output the patch in the order specified in the `<orderfile>`, which has one shell glob pattern per line. This overrides the `diff.orderfile` configuration variable (see [git-config\(1\)](#)). To cancel `diff.orderfile`, use `-O/dev/null`.

`-a`, `--text`

Treat all files as text.

`--ignore-space-at-eol`

Ignore changes in whitespace at EOL.

`-b`, `--ignore-space-change`

Ignore changes in amount of whitespace. This ignores whitespace at line end, and considers all other sequences of one or more whitespace characters to be equivalent.

`-w`, `--ignore-all-space`

Ignore whitespace when comparing lines. This ignores differences even if one line has whitespace where the other line has none.

`--ignore-blank-lines`

Ignore changes whose lines are all blank.

`--inter-hunk-context=<lines>`

Show the context between diff hunks, up to the specified number of lines, thereby fusing hunks that are close to each other.

`-W`, `--function-context`

Show whole surrounding functions of changes.

`--ext-diff`

Allow an external diff helper to be executed. If you set an external diff driver with [gitattributes\(5\)](#), you need to use this option with [git-log\(1\)](#) and friends.

`--no-ext-diff`

Disallow external diff drivers.

`--textconv, --no-textconv`

Allow (or disallow) external text conversion filters to be run when comparing binary files. See [gitattributes\(5\)](#) for details. Because textconv filters are typically a one-way conversion, the resulting diff is suitable for human consumption, but cannot be applied. For this reason, textconv filters are enabled by default only for [git-diff\(1\)](#) and [git-log\(1\)](#), but not for [git-format-patch\(1\)](#) or diff plumbing commands.

`--ignore-submodules[=<when>]`

Ignore changes to submodules in the diff generation. `<when>` can be either none, untracked, dirty or all, which is the default. Using none will consider the submodule modified when it either contains untracked or modified files or its HEAD differs from the commit recorded in the superproject and can be used to override any settings of the `ignore` option in [git-config\(1\)](#) or [gitmodules\(5\)](#). When untracked is used submodules are not considered dirty when they only contain untracked content (but they are still scanned for modified content). Using dirty ignores all changes to the work tree of submodules, only changes to the commits stored in the superproject are shown (this was the behavior until 1.7.0). Using all hides all changes to submodules.

`--src-prefix=<prefix>`

Show the given source prefix instead of a/.

`--dst-prefix=<prefix>`

Show the given destination prefix instead of b/.

`--no-prefix`

Do not show any source or destination prefix.

For more detailed explanation on these common options, see also [gitdiffcore\(7\)](#).

`<n>`

Prepare patches from the topmost `<n>` commits.

`-o <dir>, --output-directory <dir>`

Use `<dir>` to store the resulting files, instead of the current working directory.

`-n, --numbered`

Name output in `[PATCH n/m]` format, even with a single patch.

`-N, --no-numbered`

Name output in `[PATCH]` format.

`--start-number <n>`

Start numbering the patches at `<n>` instead of 1.

`--numbered-files`

Output file names will be a simple number sequence without the default first line of the commit appended.

`-k, --keep-subject`

Do not strip/add `[PATCH]` from the first line of the commit log message.

`-s, --signoff`

Add Signed-off-by: line to the commit message, using the committer identity of yourself.

`--stdout`

Print all commits to the standard output in mbox format, instead of creating a file for each

one.

`--attach[=<boundary>]`

Create multipart/mixed attachment, the first part of which is the commit message and the patch itself in the second part, with Content-Disposition: attachment.

`--no-attach`

Disable the creation of an attachment, overriding the configuration setting.

`--inline[=<boundary>]`

Create multipart/mixed attachment, the first part of which is the commit message and the patch itself in the second part, with Content-Disposition: inline.

`--thread[=<style>], --no-thread`

Controls addition of In-Reply-To and References headers to make the second and subsequent mails appear as replies to the first. Also controls generation of the Message-Id header to reference.

The optional `<style>` argument can be either shallow or deep. *shallow* threading makes every mail a reply to the head of the series, where the head is chosen from the cover letter, the `--in-reply-to`, and the first patch mail, in this order. *deep* threading makes every mail a reply to the previous one.

The default is `--no-thread`, unless the `format.thread` configuration is set. If `--thread` is specified without a style, it defaults to the style specified by `format.thread` if any, or else shallow.

Beware that the default for `git send-email` is to thread emails itself. If you want `git format-patch` to take care of threading, you will want to ensure that threading is disabled for `git send-email`.

`--in-reply-to=Message-Id`

Make the first mail (or all the mails with `--no-thread`) appear as a reply to the given Message-Id, which avoids breaking threads to provide a new patch series.

`--ignore-if-in-upstream`

Do not include a patch that matches a commit in `<until>..<since>`. This will examine all patches reachable from `<since>` but not from `<until>` and compare them with the patches being generated, and any patch that matches is ignored.

`--subject-prefix=<Subject-Prefix>`

Instead of the standard `[PATCH]` prefix in the subject line, instead use `[<Subject-Prefix>]`. This allows for useful naming of a patch series, and can be combined with the `--numbered` option.

`-v <n>, --reroll-count=<n>`

Mark the series as the `<n>`-th iteration of the topic. The output filenames have `v<n>` pretended to them, and the subject prefix (PATCH by default, but configurable via the `--subject-prefix` option) has 'v<n>' appended to it. E.g. `--reroll-count=4` may produce `v4-0001-add-makefile.patch` file that has Subject: [PATCH v4 1/20] Add makefile in it.

`--to=<email>`

Add a To: header to the email headers. This is in addition to any configured headers, and may be used multiple times. The negated form `--no-to` discards all To: headers added so far (from config or command line).

`--cc=<email>`

Add a Cc: header to the email headers. This is in addition to any configured headers, and may be used multiple times. The negated form `--no-cc` discards all Cc: headers added so far (from config or command line).

`--from, --from=<ident>`

Use `ident` in the From: header of each commit email. If the author ident of the commit is not textually identical to the provided `ident`, place a From: header in the body of the message

with the original author. If no ident is given, use the committer ident.

Note that this option is only useful if you are actually sending the emails and want to identify yourself as the sender, but retain the original author (and git am will correctly pick up the in-body header). Note also that git send-email already handles this transformation for you, and this option should not be used if you are feeding the result to git send-email.

--add-header=<header>

Add an arbitrary header to the email headers. This is in addition to any configured headers, and may be used multiple times. For example, --add-header=Organization: git-foo. The negated form --no-add-header discards **all** (To:, Cc:, and custom) headers added so far from config or command line.

--[no-]cover-letter

In addition to the patches, generate a cover letter file containing the shortlog and the overall diffstat. You can fill in a description in the file before sending it out.

--notes[=<ref>]

Append the notes (see [git-notes\(1\)](#)) for the commit after the three-dash line.

The expected use case of this is to write supporting explanation for the commit that does not belong to the commit log message proper, and include it with the patch submission. While one can simply write these explanations after format-patch has run but before sending, keeping them as Git notes allows them to be maintained between versions of the patch series (but see the discussion of the notes.rewrite configuration options in [git-notes\(1\)](#) to use this workflow).

--[no-]signature=<signature>

Add a signature to each message produced. Per RFC 3676 the signature is separated from the body by a line with -- on it. If the signature option is omitted the signature defaults to the Git version number.

--signature-file=<file>

Works just like --signature except the signature is read from a file.

--suffix=<sfx>

Instead of using .patch as the suffix for generated filenames, use specified suffix. A common alternative is --suffix=.txt. Leaving this empty will remove the .patch suffix.

Note that the leading character does not have to be a dot; for example, you can use --suffix=-patch to get 0001-description-of-my-change-patch.

-q, --quiet

Do not print the names of the generated files to standard output.

--no-binary

Do not output contents of changes in binary files, instead display a notice that those files changed. Patches generated using this option cannot be applied properly, but they are still useful for code review.

--root

Treat the revision argument as a <revision range>, even if it is just a single commit (that would normally be treated as a <since>). Note that root commits included in the specified range are always formatted as creation patches, independently of this flag.

CONFIGURATION

You can specify extra mail header lines to be added to each message, defaults for the subject prefix and file suffix, number patches when outputting more than one patch, add To or Cc: headers, configure attachments, and sign off patches with configuration variables.

[format]

headers = Organization: git-foon

```

subjectprefix = CHANGE
suffix = .txt
numbered = auto
to = <email>
cc = <email>
attach [ = mime-boundary-string ]
signoff = true
coverletter = auto

```

DISCUSSION

The patch produced by *git format-patch* is in UNIX mailbox format, with a fixed magic time stamp to indicate that the file is output from format-patch rather than a real mailbox, like so:

```

From 8f72bad1baf19a53459661343e21d6491c3908d3 Mon Sep 17 00:00:00 2001
From: Tony Luck <tony.luck@intel.com>
Date: Tue, 13 Jul 2010 11:42:54 -0700
Subject: [PATCH] =?UTF-8?q?[IA64]=20Put=20ia64=20config=20files=20on=20the=20?=
=?UTF-8?q?Uwe=20Kleine-K=C3=B6nig=20diet?=@
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

```

```

arch/arm config files were slimmed down using a python script
(See commit c2330e286f68f1c408b4aa6515ba49d57f05beae comment)

```

```

Do the same for ia64 so we can have sleek & trim looking

```

```

...

```

Typically it will be placed in a MUA's drafts folder, edited to add timely commentary that should not go in the changelog after the three dashes, and then sent as a message whose body, in our example, starts with arch/arm config files were.... On the receiving end, readers can save interesting patches in a UNIX mailbox and apply them with [git-am\(1\)](#).

When a patch is part of an ongoing discussion, the patch generated by *git format-patch* can be tweaked to take advantage of the *git am --scissors* feature. After your response to the discussion comes a line that consists solely of -- >8 -- (scissors and perforation), followed by the patch with unnecessary header fields removed:

```

...
> So we should do such-and-such.

Makes sense to me. How about this patch?

-- >8 --
Subject: [IA64] Put ia64 config files on the Uwe Kleine-Knig diet

arch/arm config files were slimmed down using a python script

```

```

...

```

When sending a patch this way, most often you are sending your own patch, so in addition to the From \$SHA1 \$magic_timestamp marker you should omit From: and Date: lines from the patch file. The patch title is likely to be different from the subject of the discussion the patch is in response to, so it is likely that you would want to keep the Subject: line, like the example above.

Checking for patch corruption

Many mailers if not set up properly will corrupt whitespace. Here are two common types of corruption:

- Empty context lines that do not have *any* whitespace.
- Non-empty context lines that have one extra whitespace at the beginning.

One way to test if your MUA is set up correctly is:

- Send the patch to yourself, exactly the way you would, except with To: and Cc: lines that do not contain the list and maintainer address.
- Save that patch to a file in UNIX mailbox format. Call it a.patch, say.
- Apply it:

```
$ git fetch <project> master:test-apply
$ git checkout test-apply
$ git reset --hard
$ git am a.patch
```

If it does not apply correctly, there can be various reasons.

- The patch itself does not apply cleanly. That is *bad* but does not have much to do with your MUA. You might want to rebase the patch with [git-rebase\(1\)](#) before regenerating it in this case.
- The MUA corrupted your patch; am would complain that the patch does not apply. Look in the `.git/rebase-apply/` subdirectory and see what *patch* file contains and check for the common corruption patterns mentioned above.
- While at it, check the *info* and *final-commit* files as well. If what is in *final-commit* is not exactly what you would want to see in the commit log message, it is very likely that the receiver would end up hand editing the log message when applying your patch. Things like Hi, this is my first patch.n in the patch e-mail should come after the three-dash line that signals the end of the commit message.

MUA-SPECIFIC HINTS

Here are some hints on how to successfully submit patches inline using various mailers.

GMail

GMail does not have any way to turn off line wrapping in the web interface, so it will mangle any emails that you send. You can however use `git send-email` and send your patches through the GMail SMTP server, or use any IMAP email client to connect to the google IMAP server and forward the emails through that.

For hints on using `git send-email` to send your patches through the GMail SMTP server, see the EXAMPLE section of [git-send-email\(1\)](#).

For hints on submission using the IMAP interface, see the EXAMPLE section of [git-imap-send\(1\)](#).

Thunderbird

By default, Thunderbird will both wrap emails as well as flag them as being *format=flowed*, both of which will make the resulting email unusable by Git.

There are three different approaches: use an add-on to turn off line wraps, configure Thunderbird to not mangle patches, or use an external editor to keep Thunderbird from mangling the patches.

Approach #1 (add-on)

Install the Toggle Word Wrap add-on that is available from

<https://addons.mozilla.org/thunderbird/addon/toggle-word-wrap/> It adds a menu entry Enable Word Wrap in the composer's Options menu that you can tick off. Now you can compose the message as you otherwise do (cut + paste, `git format-patch` | `git imap-send`, etc), but you have to insert line breaks manually in any text that you type.

Approach #2 (configuration)

Three steps:

1. Configure your mail server composition as plain text: Edit...Account Settings...Composition & Addressing, uncheck Compose Messages in HTML.
2. Configure your general composition window to not wrap.

In Thunderbird 2: Edit..Preferences..Composition, wrap plain text messages at 0

In Thunderbird 3: Edit..Preferences..Advanced..Config Editor. Search for

mail.wrap_long_lines. Toggle it to make sure it is set to false. Also, search for mailnews.wraplength and set the value to 0.

3. Disable the use of format=flowed: Edit..Preferences..Advanced..Config Editor. Search for mailnews.send_plaintext_flowed. Toggle it to make sure it is set to false.

After that is done, you should be able to compose email as you otherwise would (cut + paste, *git format-patch* | *git imap-send*, etc), and the patches will not be mangled.

Approach #3 (external editor)

The following Thunderbird extensions are needed: AboutConfig from <http://aboutconfig.mozdev.org/> and External Editor from <http://globs.org/articles.php?lng=en&pg=8>

1. Prepare the patch as a text file using your method of choice.
2. Before opening a compose window, use Edit→Account Settings to uncheck the Compose messages in HTML format setting in the Composition & Addressing panel of the account to be used to send the patch.
3. In the main Thunderbird window, *before* you open the compose window for the patch, use Tools→about:config to set the following to the indicated values:

```
mailnews.send_plaintext_flowed => false
mailnews.wraplength => 0
```

4. Open a compose window and click the external editor icon.
5. In the external editor window, read in the patch file and exit the editor normally.

Side note: it may be possible to do step 2 with about:config and the following settings but no one's tried yet.

```
mail.html_compose => false
mail.identity.default.compose_html => false
mail.identity.id?.compose_html => false
```

There is a script in contrib/thunderbird-patch-inline which can help you include patches with Thunderbird in an easy way. To use it, do the steps above and then use the script as the external editor.

KMail

This should help you to submit patches inline using KMail.

1. Prepare the patch as a text file.
2. Click on New Mail.
3. Go under Options in the Composer window and be sure that Word wrap is not set.
4. Use Message → Insert file... and insert the patch.
5. Back in the compose window: add whatever other text you wish to the message, complete the addressing and subject fields, and press send.

EXAMPLES

- Extract commits between revisions R1 and R2, and apply them on top of the current branch using *git am* to cherry-pick them:

```
$ git format-patch -k --stdout R1..R2 | git am -3 -k
```

- Extract all commits which are in the current branch but not in the origin branch:

```
$ git format-patch origin
```

For each commit a separate file is created in the current directory.

- Extract all commits that lead to *origin* since the inception of the project:

```
$ git format-patch --root origin
```

- The same as the previous one:

```
$ git format-patch -M -B origin
```

Additionally, it detects and handles renames and complete rewrites intelligently to produce

a renaming patch. A renaming patch reduces the amount of text output, and generally makes it easier to review. Note that non-Git patch programs won't understand renaming patches, so use it only when you know the recipient uses Git to apply your patch.

- Extract three topmost commits from the current branch and format them as e-mailable patches:

```
$ git format-patch -3
```

SEE ALSO

[git-am\(1\)](#), [git-send-email\(1\)](#)

GIT

Part of the [git\(1\)](#) suite