

be the change you want to see

How to contribute to FFmpeg



--- Demuxed 2024 +++

AVERROR_PATCHWELCOME

master ▾ FFmpeg / libavutil / error.h

Code Blame 129 lines (113 loc) · 5.42 KB Raw ⌂

```
63 #define AVERROR_OPTION_NOT_FOUND FFERRTAG(0xF8,'0','P','T') ///< Option not found
64 #define AVERROR_PATCHWELCOME FFERRTAG('P','A','W','E') //< Not yet implemented in FFmpeg, patches welcome
65 #define AVERROR_PROTOCOL_NOT_FOUND FFERRTAG(0xF8,'P','R','0') ///< Protocol not found
66
```

FFmpeg / libavutil / error.c ↑ Top

Code Blame 133 lines (127 loc) · 6.75 KB Raw ⌂ ⌄ ⌅ ⌋ ⌈ ⌉

```
28 struct error_entry {
53     { ERROR_TAG(OUTPUT_CHANGED), "Output changed" },
54     { ERROR_TAG(PATCHWELCOME), "Not yet implemented in FFmpeg, patches welcome" },
55     { ERROR_TAG(PROTOCOL_NOT_FOUND), "Protocol not found" },
}
```

0001-example.patch

```
(((((( a/PATCH_EXAMPLE
(( --- a/PATCH_EXAMPLE
(( +++ b/PATCH_EXAMPLE
(( @@ -1,3 +1,5 @@
((     this is a line of code.

(((
(( -this is another line of code.
(( +this is changed line of code.
(( +
(( +this is a new line of code.
)))))))))))))))))))))))))))))))))))
```

"PRs patches welcome"

A screenshot of a GitHub repository page for "FFmpeg / FFmpeg". The page shows the repository header, navigation tabs (Code, Pull requests, Actions, Security, Insights), and various filters. The "Pull requests" tab is selected, showing 1 open pull request and 381 closed ones. The pull request list includes sorting options (Author, Label, Projects, Milestones, Reviews, Assignee, Sort) and a warning message: "WARNING: PULL REQUESTS ON THIS REPOSITORY ARE IGNORED".

FFmpeg / FFmpeg

Code Pull requests 1 Actions Security Insights

Filters Q is:pr is:open Labels 1 Milestones 0 New pull request

1 Open ✓ 381 Closed

Author Label Projects Milestones Reviews Assignee Sort

WARNING: PULL REQUESTS ON THIS REPOSITORY ARE IGNORED

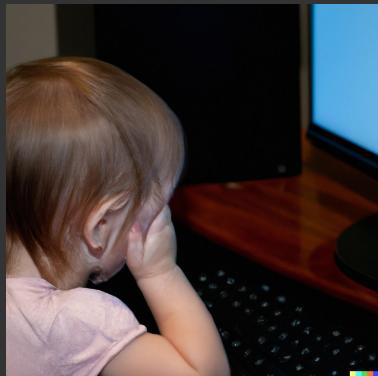
#153 opened on Sep 25, 2015 by ghost

14

Vanessa Pyne

@vipyne

vanessa@daily.co



Derek Buitenhuis

@Daemon404
derek@videolan.org

steps

1. how to lurk (mailing list & IRC)
2. RTFD (read the fantastic docs)
3. how to run regression tests (it is your FATE)
4. how to git patch (aka how to send an email)
5. how to address feedback
6. it's approved! Now what?

FFaFFmpeg

Fun Facts about
Fast Forward moving picture experts group

December 20, 2000

Generation: *Generation Z*

Star Sign: *Sagittarius*

Chinese Zodiac: *Dragon*

UK #1 Song:

Can We Fix It - Bob The Builder



```
commit 9aeeeb63f7e1ab7b0b7bb839... 7a2d2d78
```

```
Author: Fabrice Bellard <fabrice.bellard.org>
```

```
Date: Wed Dec 20 00:02:47 2000 +0
```

Initial revision

1. lurk and subscribe

level 1 - mailing list

<https://ffmpeg.org/mailman/listinfo/ffmpeg-devel>

ffmpeg-devel Subscription results

Your subscription request has been received, and will soon be acted upon. Depending on the configuration of this mailing list, your subscription request may have to be first confirmed by you via email, or approved by the list moderator. If confirmation is required, you will soon get a confirmation email which contains further instructions.

[ffmpeg-devel list run by ffmpeg-devel-owner at ffmpeg.org](#)
[ffmpeg-devel administrative interface \(requires authorization\)](#)
[Overview of all ffmpeg.org mailing lists](#)



Subscribing to ffmpeg-devel

Subscribe to ffmpeg-devel by filling out the following form. You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. This is a hidden list, which means that the list of members is available only to the list administrator.

Your email address:

Your name (optional):

You may enter a privacy password below. This provides only mild security, but should prevent others from messing with your subscription. **Do not use a valuable password** as it will occasionally be emailed back to you in cleartext.

A password will be automatically generated for you if you have not yet confirmed your subscription. You always request a mail-back of your password when you edit your personal options.

Pick a password:

Reenter password:

list (USA)
list (UK)

1. lurk and chat

level 1 - mailing list

level 2 - IRC

- Internet **R**elay **C**hat
- created in 1988
- no message history

irc.libera.chat == server

#ffmpeg-devel == channel

Connecting to Libera.Chat

Libera.Chat can be accessed using an [IRC client](#).

Connect to Libera.Chat with TLS at `irc.libera.chat` on port `6697`.

Additional regional and address-specific hostnames are available:

Default	<code>irc.libera.chat</code>
Europe	<code>irc.eu.libera.chat</code>
US & Canada	<code>irc.us.libera.chat</code>
Australia and New Zealand	<code>irc.au.libera.chat</code>
East Asia	<code>irc.ea.libera.chat</code>
IPv4 only	<code>irc.ipv4.libera.chat</code>
IPv6 only	<code>irc.ipv6.libera.chat</code>

Additional ports are available:

Plain-text	<code>6665-6667, 8000-8002</code>
TLS	<code>6697, 7000, 7070</code>

1. lurk - IRC on macOS

<https://adium.im/>



irc.libera.chat == server

#ffmpeg-devel == channel

1. lurk - IRC on CLI

<https://irssi.org/New-users>

```
[(status)] /connect liberachat  
[(status)] /join #ffmpeg-devel  
[#ffmpeg-devel] /exit
```

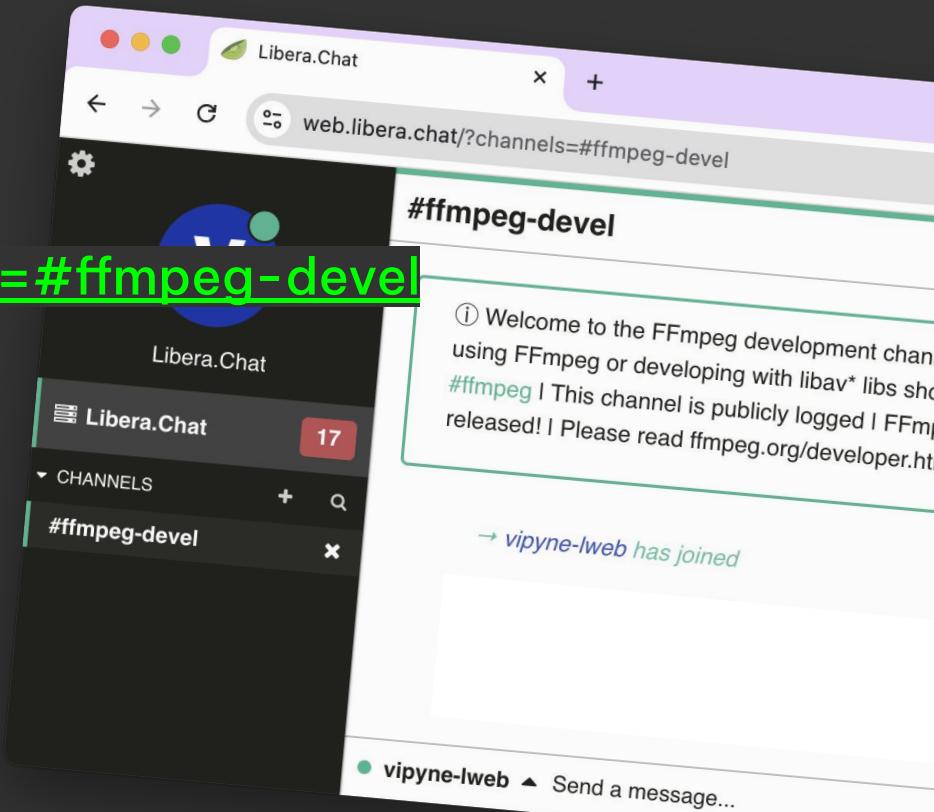
irc.libera.chat == server

#ffmpeg-devel == channel

```
12:00 -!- ---  
12:00 -!- |_ _|_- - ____(_)  
12:00 -!- | || ' _(<_< |  
12:00 -!- |__|_| /_/_/_|  
12:00 -!- Irssi v1.5+1-dev-239-g0697e3ea-dirty - https://irssi.org  
12:00 -!- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
12:00 -!- Hi there! If this is your first time using Irssi, you  
12:00 -!- might want to go to our website and read the startup  
12:00 -!- documentation to get you going.  
12:00 -!  
12:00 -!- Our community and staff are available to assist you or  
12:00 -!- to answer any questions you may have.  
12:00 -!  
12:00 -!- Use the /HELP command to get detailed information about  
12:00 -!- the available commands.  
12:00 -!- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
12:00 -!- Irssi: The following settings were initialized  
12:00                                real_name vanessa pyne  
12:00                                user_name vipyned  
12:00                                nick vipyned  
12:00 [server]  
12:00                                user_name vipyne  
12:01 [server]  
12:01                                nick vipyne
```

1. lurk - IRC on web

<https://web.libera.chat/?channels=#ffmpeg-devel>



irc.libera.chat == server

#ffmpeg-devel == channel

2. RTFD

Read The Fantastic Docs

<https://ffmpeg.org/developer.html>

6 Patch submission checklist

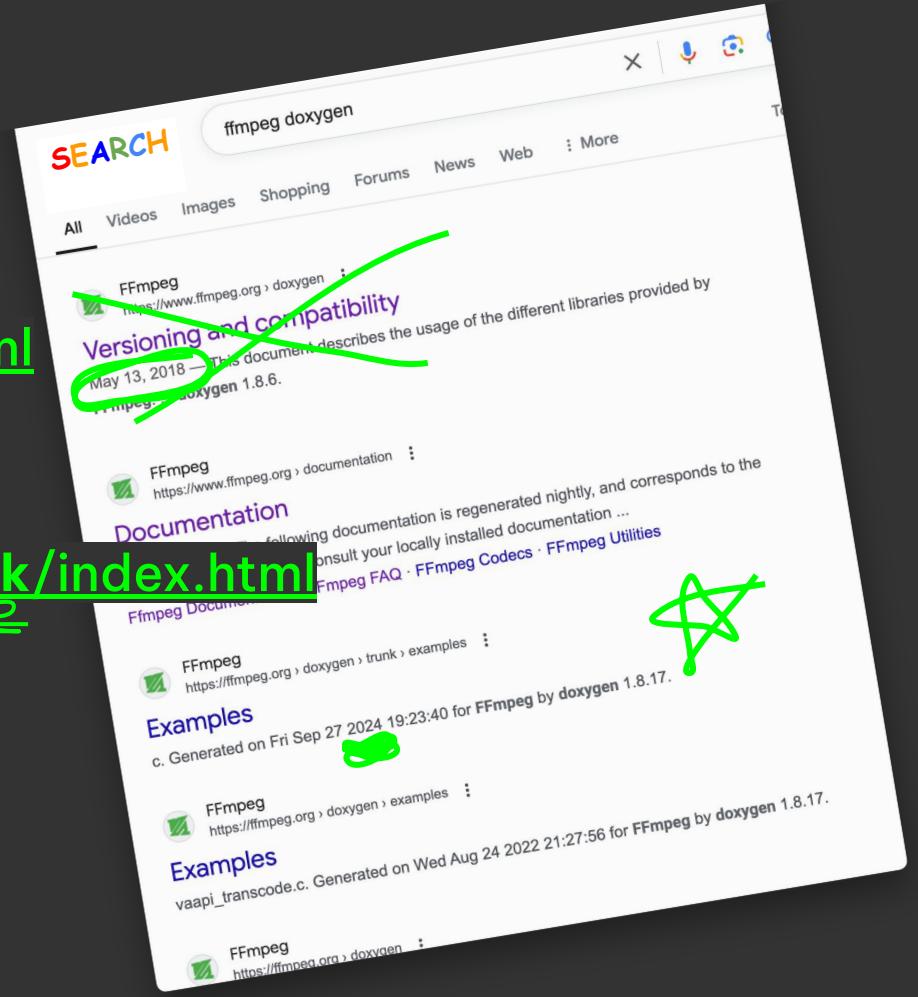
1. Does `make fate` pass with the patch applied?
2. Was the patch generated with `git format-patch` or `send-email`?
3. Did you sign-off your patch? (`git commit -s`) See [Sign your work](#) for the meaning
4. Did you provide a clear git commit log message?
5. Is the patch against latest FFmpeg git master branch?
6. Are you subscribed to `ffmpeg-devel`? (the list is subscribers only due to spam)
7. Have you checked that the changes are minimal, so that the same cannot be achieved
8. If the change is to speed critical code, did you benchmark it?
9. If you did any benchmarks, did you provide them in the mail?
10. Have you checked that the patch does not introduce buffer overflows or other security
11. Did you test your decoder or demuxer against damaged data? If no, see [tools/trashcan](#) amounts of memory when fed damaged data.
12. Did you test your decoder or demuxer against sample files? Samples may be obtained
13. Does the patch not mix functional and cosmetic changes?
14. Did you add tabs or trailing whitespace to the code? Both are forbidden.
15. Is the patch attached to the email you send?
16. Is the mime type of the patch correct? It should be `text/x-diff` or `text/x-patch` or at least
17. If the patch fixes a bug, did you provide a verbose analysis of the bug?
18. If the patch fixes a bug, did you provide enough information, including a sample, so the can upload to <https://streams.videolan.org/upload/>.
19. Did you provide a verbose summary about what the patch does change?
20. Did you provide a verbose explanation why it changes things like it does?
21. Did you provide a verbose summary of the user visible advantages and disadvantages if the
22. Did you provide an example so we can verify the new feature added by the patch easily?
23. If you added a new file, did you insert a license header? It should be taken from FFmpeg, not
24. You should maintain alphabetical order in alphabetically ordered lists as long as doing so does not break the visual presentation of the list.
25. Lines with similar content should be aligned vertically when doing so improves readability.
26. Consider adding a regression test for your code. All new modules should be covered by tests. An explanation why to your patchset, its ok to not test if theres a reason.
27. If you added YASM code please check that things still work with `-disable-yasm`.
28. Test your code with `valgrind` and or Address Sanitizer to ensure it's free of bugs.

2. RTFD

Read The Fantastic Docs

<https://ffmpeg.org/developer.html>

<https://ffmpeg.org/doxygen/trunk/index.html>



2. RTFD

Read The Fantastic Docs

<https://ffmpeg.org/developer.html>

<https://ffmpeg.org/doxygen/trunk/index.html>

--enable-docs

The screenshot shows a web browser window titled "FFmpeg: Main Page" displaying the FFmpeg Documentation. The URL in the address bar is ffmpeg.org/doxygen/trunk/index.html. The page features a navigation bar with links to "Main Page", "Related Pages", "Modules", "Namespaces", "Data Structures", "Files", and "Examples". Below the navigation bar, the title "FFmpeg" is displayed, followed by "FFmpeg Documentation" and "Introduction". A brief description states: "This document describes the usage of the different libraries provided by FFmpeg." A bulleted list of libraries follows:

- libavcodec encoding/decoding library
- libavfilter graph-based frame editing library
- libavformat I/O and muxing/demuxing library
- libavdevice special devices muxing/demuxing library
- libavutil common utility library
- libswresample audio resampling, format conversion and mixing
- libpostproc post processing library
- libswscale color conversion and scaling library

Below this, the section "Versioning and compatibility" is introduced with a handwritten-style signature over the word "Versioning". The text explains that each library contains a version.h header defining major, minor, and micro version numbers. It details how major, minor, and micro versions are incremented and how they relate to API changes and new features. It also mentions that public symbols like macros and enums remain stable unless explicitly declared as part of the public API.

FFmpeg guarantees backward API and ABI compatibility for each library as long as its major version number is unchanged. This means no public symbols will be removed or renamed. Types and names of the public struct members and values of public macros and enums will remain the same (unless they were explicitly declared as not part of the public API). Documented behavior will not change.

In other words, any correct program that works with a given FFmpeg snapshot should work just as well without any changes with any later snapshot with the same major versions. This applies to both rebuilding the program against new FFmpeg versions or to replacing the dynamic FFmpeg libraries that a program links against.

However, new public symbols may be added and new members may be appended to public structs whose size is not part of public ABI (most public structs in FFmpeg). New macros and enum values may be added. Behavior in undocumented situations may change slightly (and be documented). All those are accompanied by an entry in doc/APIchanges and incrementing either the minor or micro version number.

Generated on Fri Oct 4 2024 19:23:39 for FFmpeg by doxygen 1.8.17

2. RTFD

FFmpeg

- About
- News
- Download
- Documentation
- Community
- Code of Conduct
- Mailing Lists
- IRC
- Forums
- Bug Reports
- Wiki
- Developers
 - Source Code
 - Contribute
 - FATE
 - Code Coverage
 - Funding through SPI
- More
 - Donate ❤️
 - Hire Developers
 - Contact
 - Security
 - Legal

Note that the archives are split by month. Discussions that span several months will be split into separate months in the archives.

4.2 How do I reply to a message in the archives?

Click the email link at the top of the message just under the subject title. The link will provide the proper headers to keep the message within the thread. Note that you must be subscribed to send a message to the ffmpeg-user or libav-user mailing lists.

4.3 How do I search the archives?

Perform a site search using your favorite search engine. Example:
`site:lists.ffmpeg.org/pipermail/ffmpeg-user/ "search term"`

5 Other

5.1 Is there an alternative to the mailing list?

You can ask for help in the official `#ffmpeg` IRC channel on Libera Chat.

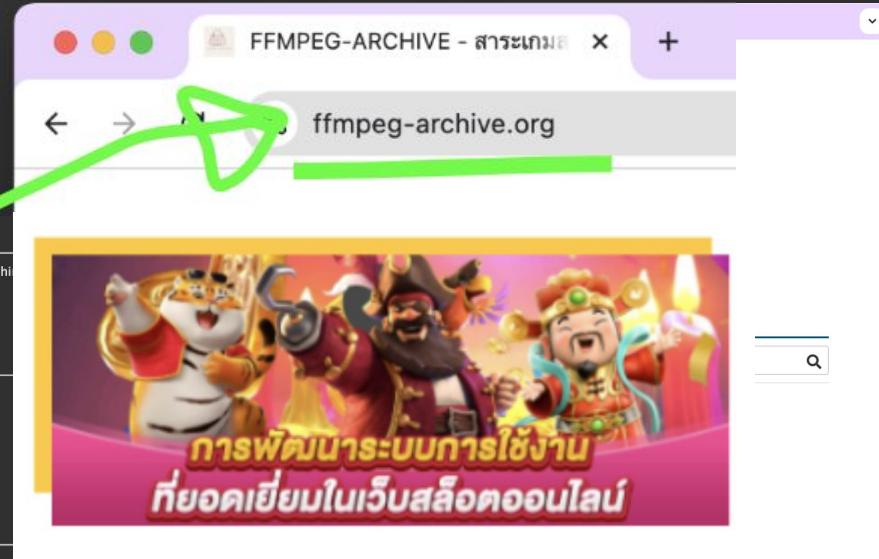
Some users prefer the third-party [Nabble](#) interface which presents the mailing lists in a typical forum layout.

There are also numerous third-party help sites such as [Super User](#) and [r/ffmpeg](#) on reddit.

5.2 What is top-posting?

See https://en.wikipedia.org/wiki/Posting_style#Top-posting.

Instead, use trimmed interleaved/inline replies ([example](#)).



ในปัจจุบันเป็นที่รู้จักกันดีว่าเกมส์สล็อตออนไลน์ได้เป็นที่ [...]

[Read more... →](#)



แนะนำ PG SLOT ที่เพาะสำหรับผู้ใหญ่ ชิ่งเล่นยิ่งสนุก
ราย ๆ เชิง ๆ

POSTED IN : [ข่าวสารเกม](#) **Posted in :** [เกมส์สล็อตออนไลน์](#), [เทคโนโลยี](#), [เล่นเกม](#), [เว็บเกม](#)
Posted on 26 มกราคม 2023

2. RTFD

ffmpeg.org/mailing-list-faq.html#Where-are-the-archives_003f-1

Note that the archive has been updated since the last time you checked it.

```
diff --git a/doc/mailing-list-faq.texi b/doc/mailing-list-faq.texi
index b2028eeee1..e10d92a5fc 100644
--- a/doc/mailing-list-faq.texi
+++ b/doc/mailing-list-faq.texi
@@ -157,9 +157,6 @@ Perform a site search using your favorite search engine. Example:
```

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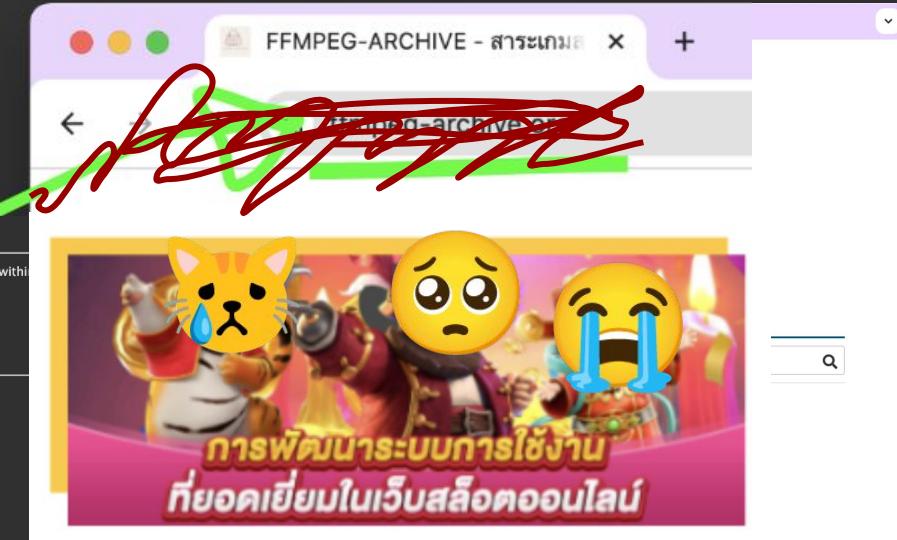
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[Read more... →](#)



แนะนำ PG SLOT ที่เพาะสำหรับผู้ใหญ่ ชิ่งเล่นชิ่งสนุก ราย ๆ เชิง ๆ

POSTED IN : [ข่าวสารเกม](#) **Posted in :** [เกมส์สล็อตออนไลน์](#), [เทคโนโลยี](#), [เล่นเกม](#), [เว็บเกม](#)
Posted on [26 มกราคม 2023](#)

3. FATE

```
~/FFmpeg $ make fate-rsync SAMPLES=fate-suite/
```

<https://ffmpeg.org/fate.html>

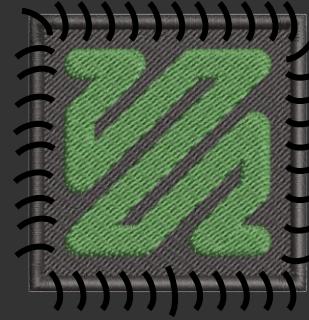
<https://fate.ffmpeg.org>

The screenshot shows a web browser displaying the FFmpeg FATE results page. The URL in the address bar is `fate.ffmpeg.org`. The page has a dark theme with a green header bar containing the word "FATE". On the left, there is a sidebar with links to various FFmpeg resources like About, News, Download, Documentation, Community, Mailing Lists, IRC, Forums, Bug Reports, Wiki, Developers, Source Code, Contribute, FATE, Code Coverage, and More. Below the sidebar, there are links for Donate, Hire Developers, Contact, and Security.

Time	Rev	Arch	OS	Compiler	Link
103 minutes ago	N-116549-g94165d1b79	aarch64	darwin	Apple clang version 12.0.0 (clang-1200.0.32.29)	
22 hours ago	N-116546-g792a9979eb	aarch64	linux	clang version 10.0.0-ubuntu1	(https://github.com)
38 minutes ago	N-116549-g94165d1b79	aarch64	linux	clang 1bcf74083e92021472ec9644b88418f377ce550 version 20.0.0git	(https://github.com)
26 minutes ago	N-116549-g94165d1b79	aarch64	linux	clang 1bcf74083e92021472ec9644b88418f377ce550 version 20.0.0git	(https://github.com)
22 hours ago	N-116546-g792a9979eb	aarch64	linux	gcc 9 (Ubuntu 9.4.0-1ubuntu1~20.04.2)	
22 hours ago	N-116546-g792a9979eb	aarch64	linux	gcc 9 (Ubuntu 9.4.0-1ubuntu1~20.04.2)	
1 minute ago	N-116549-g94165d1b79	aarch64	mingw32	clang 1bcf74083e92021472ec9644b88418f377ce550 version 20.0.0git	(https://github.com)
21 hours ago	N-116546-g792a9979eb	aarch64	win32	clang ce2a3d9042c95630f12b790bf201c4daf8941fb version 20.0.0git	(https://github.com)

4. "git send-patch"

`git format-patch`



`git send-email`



git format-patch

```
$ git commit -m 'doc/mailing-list-faq: remove-dead-link'
```

```
$ git format-patch -1 --output-directory=my-patch  
my-patch/0001-doc-mailing-list-faq-remove-dead-link.patch
```

```
$ cat my-patch/0001-doc-mailing-list-faq-remove-dead-link.patch  
From 5e8a97941d47364824e859458f7c0e4f0ac4c8d0 Mon Sep 17 00:00:00 2001  
From: vipyne <vipyne@gmail.com>  
Date: Wed, 14 Aug 2024 10:17:13 -0500  
Subject: [PATCH] doc/mailing-list-faq: remove dead link
```

<https://ffmpeg-archive.org/> is no longer "Nabble"

```
---
```

```
doc/mailing-list-faq.texi | 3 ---  
1 file changed, 3 deletions(-)
```

```
diff --git a/doc/mailing-list-faq.texi b/doc/mailing-list-faq.texi
```

git format-patch

```
$ git format-patch -2 -o patches --cover-letter  
patches/0000-cover-letter.patch  
patches/0001-configure-suggest-installing-nasm-yasm-before-using-.patch  
patches/0002-doc-mailing-list-faq-remove-incorrect-subscribe-info.patch
```

```
$ cat patches/0000-cover-letter.patch  
From b23fa06ae4d22877b2488cd3c33cea259187b98f Mon Sep 17 00:00:00 2001  
From: vipyne <vipyne@gmail.com>  
Date: Mon, 30 Sep 2024 20:45:23 -0500  
Subject: [PATCH 0/2] *** SUBJECT HERE ***
```

```
*** BLURB HERE ***
```

```
vipyne (2):  
    configure: suggest installing nasm/yasm before using --disable-x86asm  
    doc/mailing-list-faq: remove incorrect subscribe info
```

git send-email

```
1 Send this email? ([y]es|[n]o|[e]dit|[q]uit|[a]ll):  
2 OK. Log says:  
3  
4  
5 Sendmail: ./usr/sbin/sendmail -i vanessa@daily.co.vipyne@gmail.com  
6 |  
7 |  
8 |  
9 |  
10 From: vipyne <vipyne@gmail.com>  
11 To: vanessa@daily.co  
12 Cc: vipyne <vipyne@gmail.com>  
13 Subject: [PATCH 0/2] documentation changes  
14 Date: Wed, 2 Oct 2024 16:48:15 -0500  
15 Message-Id: <20241002214815.75519-1-vipyne@gmail.com>  
16 X-Mailer: git-send-email 2.39.0  
17 MIME-Version: 1.0  
18 Content-Transfer-Encoding: 8bit  
19 |  
20 Result: OK
```



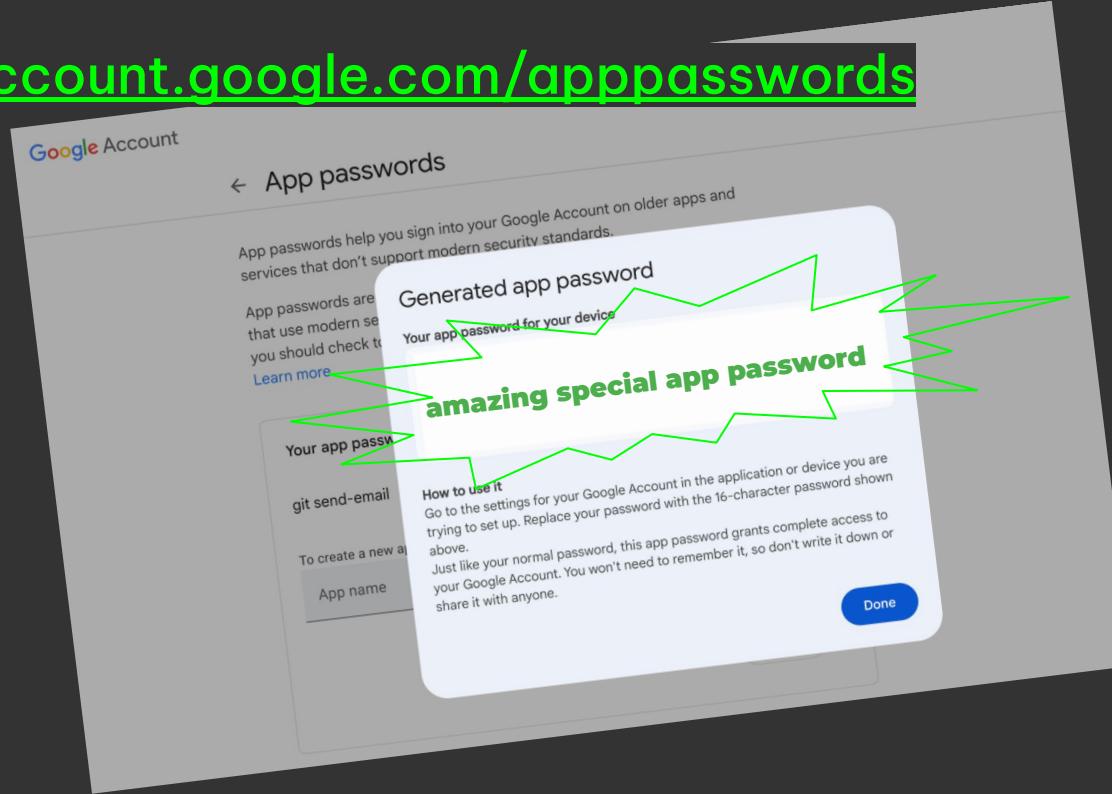
git send-email - configuration

in `.gitconfig`:

```
[sendemail]
  smtpUser = youremail@gmail.com
  smtpServer = smtp.gmail.com
  smtpServerPort = 587
  smtpEncryption = tls
```

git send-email - configuration

<https://myaccount.google.com/apppasswords>



git send-email - configuration

<https://myaccount.google.com/apppasswords>



git send-email

```
$ git send-email 0001-doc-mailing-list-faq-remove-dead-link.patch
```

```
To whom should the emails be sent (if anyone)? ffmpeg-devel@ffmpeg.org  
Message-ID to be used as In-Reply-To for the first email (if any)?
```

...

```
Send this email? ([y]es|[n]o|[e]dit|[q]uit|[a]ll) : y
```

OK. Log says:

```
Server: smtp.gmail.com
```

```
MAIL FROM:<vipyne@gmail.com>
```

```
RCPT TO:<ffmpeg-devel@ffmpeg.org>
```

```
RCPT TO:<vipyne@gmail.com>
```

...

```
Result: 250
```

git send-email

```
$ git send-email 0001-doc-mailing-list-faq-remove-dead-link.patch
```

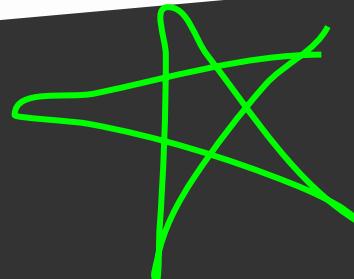
To whom should the emails be sent (if anyone)? ffmpeg-devel@ffmpeg.org
Message-ID to be used as In-Reply-To for the first email (if any)?

...
Send this email? ([y]es) [n]o [s]kip [q]uit
OK [y]:

[PATCH] doc/mailing-list-faq: remove dead link

RCPT T0:<ffmpeg-devel@ffmpeg.org>
RCPT T0:<vipyne@gmail.com>
...

Result: 250



git send-email

```
$ git send-email patches/*
```

...

Send this

_FFMPEG [PATCH 2/2] doc/mailing-list-faq: remove incorrect sub...

...

Send this

_FFMPEG [PATCH 1/2] configure: suggest installing nasm/yasm be...

...

Send this

_FFMPEG [PATCH 0/2] documentation changes - The configure ch...

...

Result: 250

git send-email

```
1 Send this email? ([y]es|[n]o|[e]dit|[q]uit|[a]ll):  
2 OK. Log says:  
3  
4  
5 Sendmail:·/usr/sbin/sendmail·-i·vanessa@daily.co·vipyne@gmail.com  
6  
7  
8  
9  
10 From: vipyne <vipyne@gmail.com>  
11 To: vanessa@daily.co  
12 Cc: vipyne <vipyne@gmail.com>  
13 Subject: [PATCH 0/2] documentation changes  
14 Date: Wed, 2 Oct 2024 16:48:15 -0500  
15 Message-Id: <20241002214815.75519-1-vipyne@gmail.com>  
16 X-Mailer: git-send-email 2.39.0  
17 MIME-Version: 1.0  
18 Content-Transfer-Encoding: 8bit  
19  
20 Result: OK
```

```
1 Send this email? ([y]es|[n]o|[e]dit|[q]uit|[a]ll):  
2 OK. Log says:  
3  
4  
5 Server: smtp.gmail.com  
6 MAIL FROM:<vipyne@gmail.com>  
7 RCPT TO:<vanessa@daily.co>  
8 RCPT TO:<vipyne@gmail.com>  
9  
10 From: vipyne <vipyne@gmail.com>  
11 To: vanessa@daily.co  
12 Cc: vipyne <vipyne@gmail.com>  
13 Subject: [PATCH 0/2] documentation changes  
14 Date: Wed, 2 Oct 2024 16:48:54 -0500  
15 Message-Id: <20241002214854.75597-1-vipyne@gmail.com>  
16 X-Mailer: git-send-email 2.39.0  
17 MIME-Version: 1.0  
18 Content-Transfer-Encoding: 8bit  
19  
20 Result: 250
```

git email-patch-ahhhhhhhh



vipyne 11:06 AM

I'm about to send my first patch (doc change, nothing of substance) and I might throw up

5. feedback

- formatting & cosmetic notes
- anticipate bluntness and nit-picking
- prepare to make non-trivial changes
- general OSS mailing list etiquette: No top posting.
- be polite

5. feedback - git format-patch -v 2

\$ git format-patch -1 -v 2

v2-0001-configure-suggest-installing-nasm-before-using-di.patch

\$ git send-email v2-0001-configure-suggest-installing-nasm-before-using-di.

To whom should the emails be sent (if anyone)? ffmpeg-devel@ffmpeg.org

Message-ID to be used as In-Reply-To for the first email (if any)?

[PATCH v2] configure: suggest installing nasm before using --disable-x86asm

OK. Log says:

Server: smtp.gmail.com

...

Result: 250

6. it's approved! now what?

- might need to ping to get push after approval
- reminder everyone is volunteer
- be patient & kind
- never stop lurking

moving closing statements



thank you

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Derek Buitenhuis | @Daemon404 | Vimeo