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1 How can I "Set OPENCV_ENABLE_NONFREE CMake option and rebuild the library in function 'create'?" edit

Links

- [Official site](#)
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- [Documentation](#)

c++

SURF

nonfree

I built opencv_contrib and some of the modules are working, however when I'm trying to use SURF I get: "error: (-213:The function/feature is not implemented) This algorithm is patented and is excluded in this configuration; Set OPENCV_ENABLE_NONFREE CMake option and rebuild the library in function 'create'". So how can I enable nonfree?

asked Oct 29 '18
viohh
11 ●1 ●2 ●4

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Asked: Oct 29 '18
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Comments

CMake -DOPENCV_ENABLE_NONFREE:BOOL=ON

[L Berger](#) (Oct 29 '18) edit

Thank you, but where should I make it? In xfeatures2d?

[viohh](#) (Oct 29 '18) edit

You have to build opencv and opencv_contrib (git clone yourself). it is recommended to use them alongside the master branch or latest releases of OpenCV.

Then you can set OPENCV_ENABLE_NONFREE in cmake-gui or in cmake command line

[L Berger](#) (Oct 29 '18) edit

I built opencv and opencv_contrib, but which cmake file I need?

[viohh](#) (Oct 29 '18) edit

if you built opencv and opencv_contrib do it again :

```
CMake -DOPENCV_ENABLE_NONFREE:BOOL=ON -DOPENCV_EXTRA_MODULES_PATH=.your_path/opencv_contrib/modules
```

[L Berger](#) (Oct 29 '18) edit

I'm having the same problem.

I built opencv and opencv_contrib 3.4.3 and I set OPENCV_ENABLE_NONFREE in cmake-gui ON and I checked that the Non-free algorithms were installed.

In the test code of surf, at the following line:

```
detector = SURF::create(minHessian);
```

it enters in this part of code (inside surf.cpp)

```
else // ! #ifdef
OPENCV_ENABLE_NONFREE
```

```
Ptr<surf> SURF::create(double, int, int, bool, bool) { CV_Error(Error::StsNotImplemented, "This algorithm is patented and is excluded in this configuration; " "Set OPENCV_ENABLE_NONFREE CMake option and rebuild the library"); }
```

```
endif
```

What can I do to enable #ifdef OPENCV_ENABLE_NONFREE?

Thanks for any help

[carnar](#) (Nov 14 '18) edit

@carnar delete cmakecache.txt and rebuild opencv with OPENCV_ENABLE_NONFREE:BOOL=ON

[L Berger](#) (Nov 14 '18) edit

I made it, but still it doesn't work.

Here what I have in the cmakecache.txt...I think is correct...

```
//Enable non-free algorithms OPENCV_ENABLE_NONFREE:BOOL=ON
```

//Where to look for additional OpenCV modules (can be ;-separated // list of paths)

OPENCV_EXTRA_MODULES_PATH:PATH=C:/Codice/OpenCV/opencv_contrib-3.4.3/modules

 [carnar \(Nov 14 '18\)](#) [edit](#)

I've noted that surf.cpp include

```
#include "precomp.hpp" and #include "surf.hpp". Both are only in the directory 'opencv_contrib-3.4.3\modules\xfeatures2d\src'.
```

Moreover 'precomp.hpp' include opencv_modules.hpp which has the following lines:

```
// This definition means that OpenCV is built with enabled non-free code.
// For example, patented algorithms for non-profit/non-commercial use only.
/* #undef OPENCV_ENABLE_NONFREE */
```

Should I change anything here to define OPENCV_ENABLE_NONFREE = 1?

 [carnar \(Nov 14 '18\)](#) [edit](#)

No don't change source code. again delete cmakecache an run cmakegui and set OPENCV_ENABLE_NONFREE and after generate you will see in cmake output :

Unavailable:	java js python2 python3
Applications:	tests perf_tests apps
Documentation:	NO
Non-free algorithms:	YES
Windows RT support:	NO

 [LBerger \(Nov 14 '18\)](#) [edit](#)

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1 answer

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-1

To use SIFT you have to downgrade to 3.4.2.16: [more details here](#)

answered **Nov 8 '19**
 stiv-yakovenko
 32 • 2 • 4

Comments

1 Bad answer and bad idea.

 [LBerger \(Nov 8 '19\)](#)

you don't "have to" downgrade, but its certainly a more pain free way then running cmake 100k times, until you guess parameters correctly, pray to the correct gods, trash more monitors and keyboards then is worth it and have all your luck amulets aligned in the pattern required..

 [why \(Mar 11 '0\)](#)

About sift and surf [be patient...](#)

 [LBerger \(Mar 11 '0\)](#) [edit](#)

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