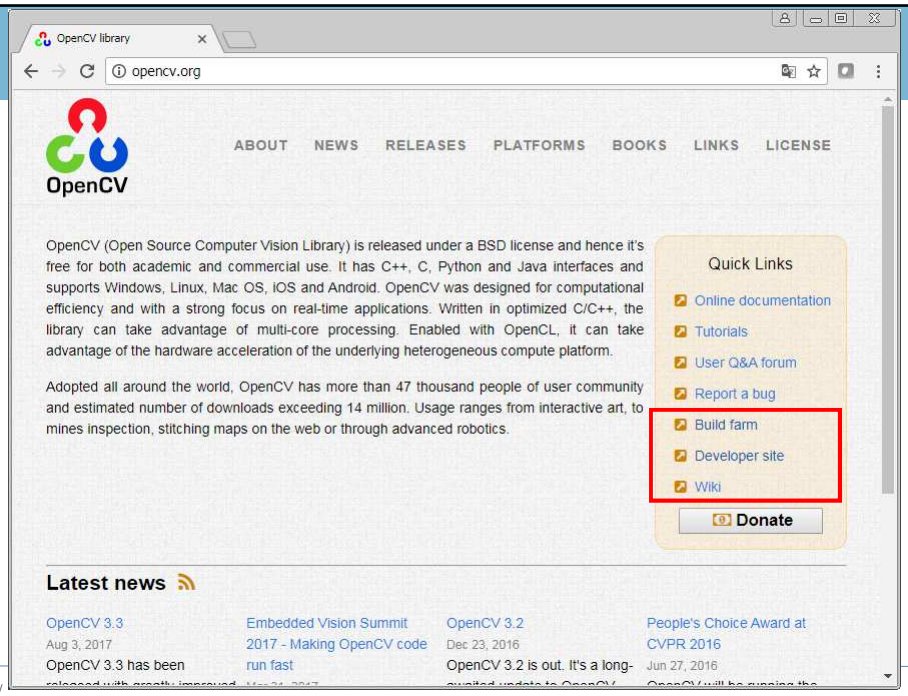
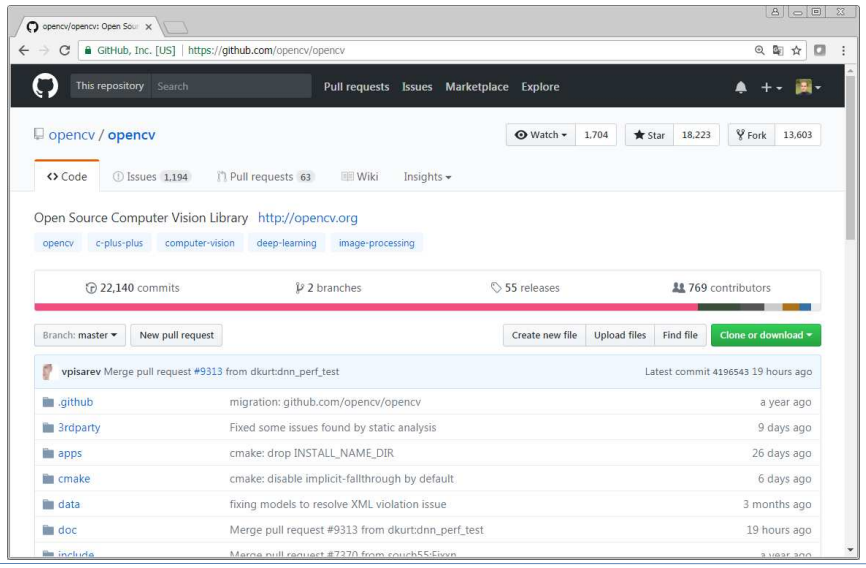
Formation OpenCV

Philippe FOUBERT

Assurance qualité

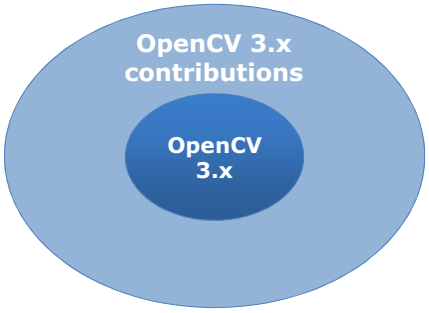


Git



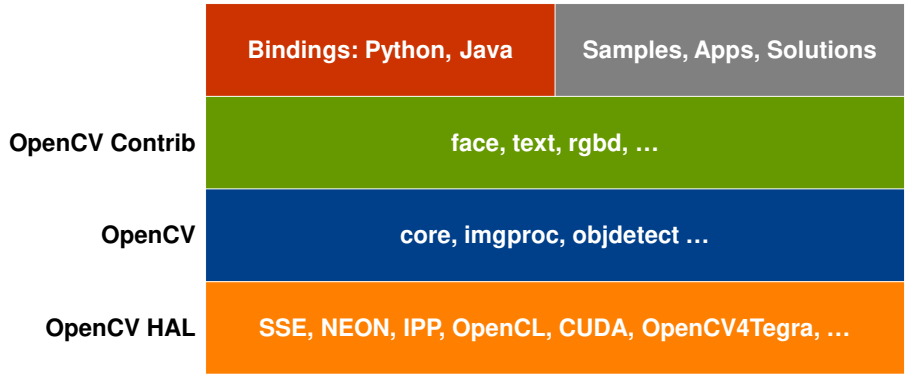
https://github.com/opencv/opencv

Base / Contrib

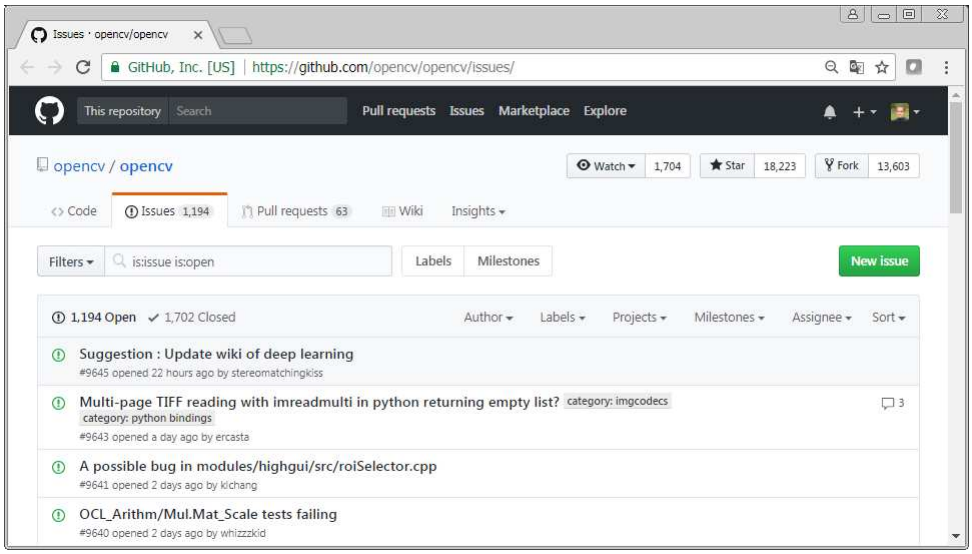


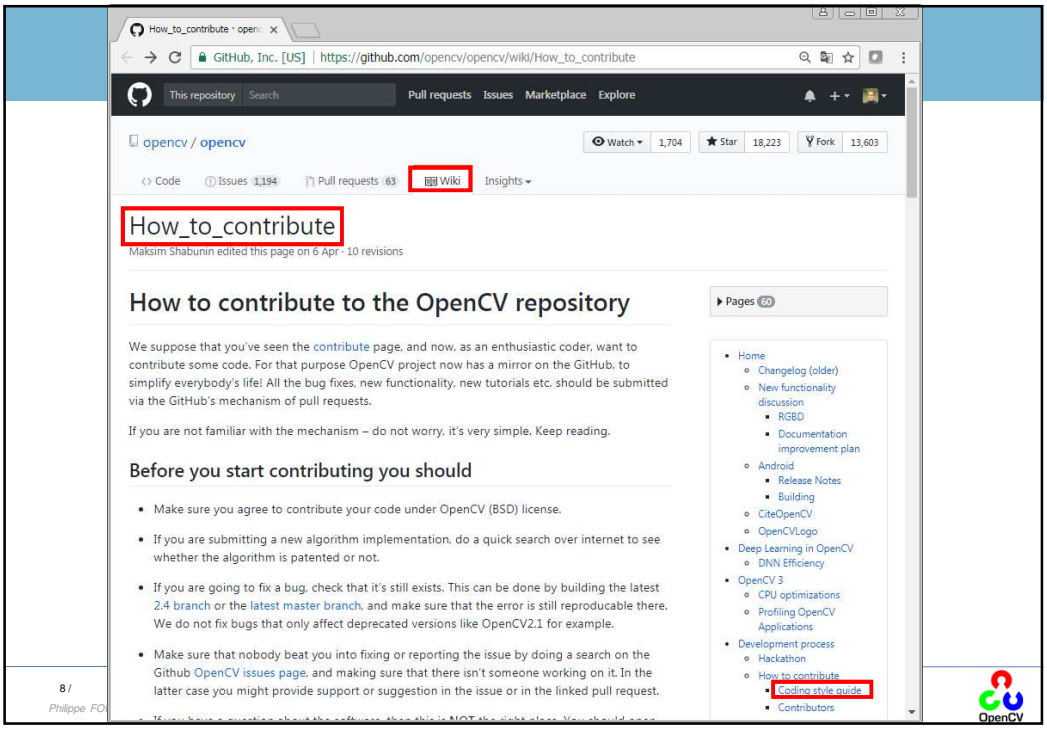
- The "main" OpenCV repository includes mature algorithms and is fully supported
- A separate contribution repository is for new computer vision algorithms that people want to share: https://github.com/opencv/opencv_contrib
- Patches to the contrib repository are tested as well by the buildbot to ensure integrity!

Aperçu



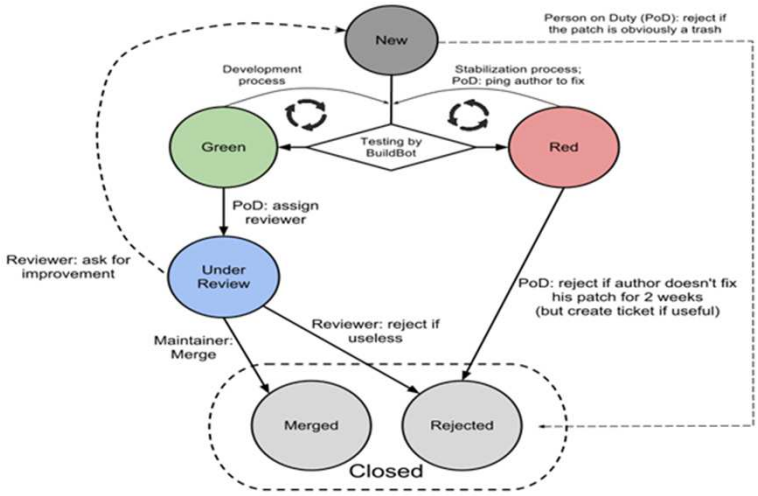
Bug tracker


Issues · opencv/opencv
GitHub, Inc. [US] | https://github.com/opencv/opencv/issues/
This repository Search
Pull requests Issues Marketplace Explore
opencv / opencv
Watch 1,704
Star 18,223
Fork 13,603
Code
Issues 1,194
Pull requests 63
Wiki
Insights
Filters
is:issue is:open
Labels
Milestones
New issue
1,194 Open
1,702 Closed
Author
Labels
Projects
Milestones
Assignee
Sort
Suggestion : Update wiki of deep learning
#9645 opened 22 hours ago by stereomatchingkiss
Multi-page TIFF reading with imreadmulti in python returning empty list?
category: imgcodecs
category: python bindings
#9643 opened a day ago by ercasta
A possible bug in modules/highgui/src/roiSelector.cpp
#9641 opened 2 days ago by kichang
OCL_Arithm/Mul.Mat_Scale tests failing
#9640 opened 2 days ago by whizzzkid


How_to_contribute · opencv
GitHub, Inc. [US] | https://github.com/opencv/opencv/wiki/How_to_contribute
This repository Search
Pull requests Issues Marketplace Explore
opencv / opencv
Watch 1,704
Star 18,223
Fork 13,603
Code
Issues 1,194
Pull requests 63
Wiki
Insights
How_to_contribute
Maksim Shabunin edited this page on 6 Apr · 10 revisions
How to contribute to the OpenCV repository
We suppose that you've seen the contribute page, and now, as an enthusiastic coder, want to contribute some code. For that purpose OpenCV project now has a mirror on the GitHub, to simplify everybody's life! All the bug fixes, new functionality, new tutorials etc. should be submitted via the GitHub's mechanism of pull requests.
If you are not familiar with the mechanism – do not worry, it's very simple. Keep reading.
Before you start contributing you should
Make sure you agree to contribute your code under OpenCV (BSD) license.
If you are submitting a new algorithm implementation, do a quick search over internet to see whether the algorithm is patented or not.
If you are going to fix a bug, check that it's still exists. This can be done by building the latest 2.4 branch or the latest master branch, and make sure that the error is still reproducable there. We do not fix bugs that only affect deprecated versions like OpenCV2.1 for example.
Make sure that nobody beat you into fixing or reporting the issue by doing a search on the Github OpenCV issues page, and making sure that there isn't someone working on it. In the latter case you might provide support or suggestion in the issue or in the linked pull request.
Pages 60
Home
Changelog (older)
New functionality discussion
RGBD
Documentation improvement plan
Android
Release Notes
Building
CiteOpenCV
OpenCVLogo
Deep Learning in OpenCV
DNN Efficiency
OpenCV 3
CPU optimizations
Profiling OpenCV Applications
Development process
Hackathon
How to contribute
Coding style guide
Contributors

Contribution/patch workflow

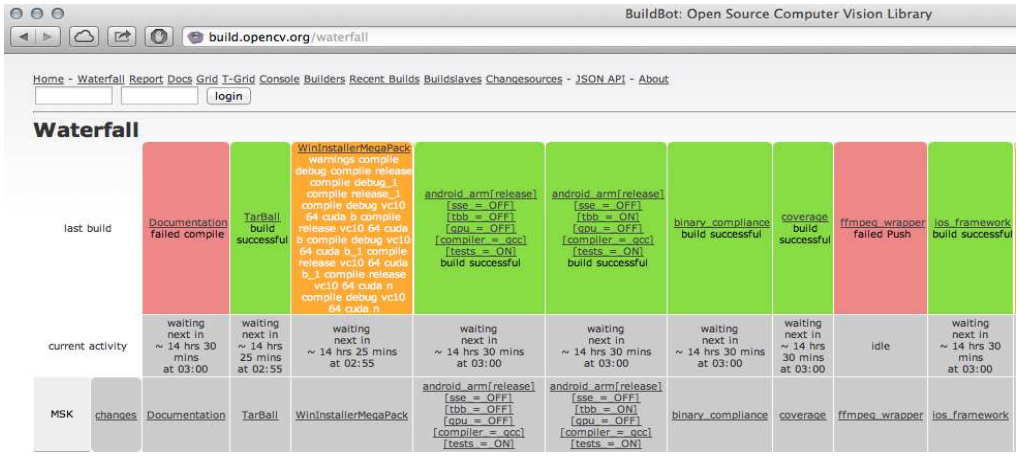
http://code.opencv.org/projects/opencv/wiki/How_to_contribute



Waterfall

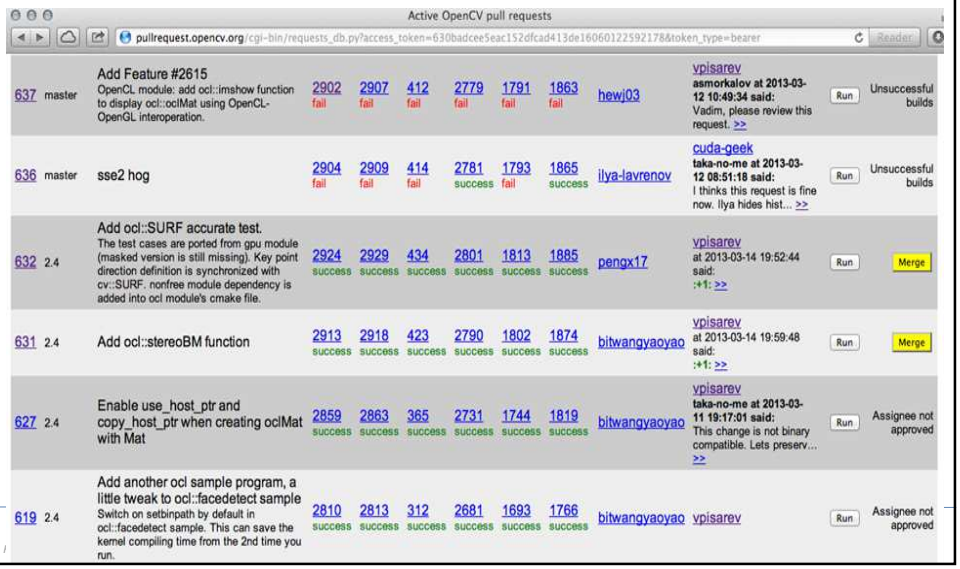
build.opencv.org: buildbot with 50+ builders

(buildbot: https://buildbot.net/)



Pull Request

pullrequest.opencv.org: tests each pullrequest



Test Suite

- GoogleTest-based + set of Python scripts
- Thousands of unit tests
- Accuracy tests
- Performance tests

```
[----------] 1 test from Core_MeanStdDev/ElemWiseTest
[ RUN      ] Core_MeanStdDev/ElemWiseTest.accuracy/0
[       OK ] Core_MeanStdDev/ElemWiseTest.accuracy/0 (1518 ms)
[----------] 1 test from Core_MeanStdDev/ElemWiseTest (1518 ms total)

[----------] 1 test from Core_Sum/ElemWiseTest
[ RUN      ] Core_Sum/ElemWiseTest.accuracy/0
[       OK ] Core_Sum/ElemWiseTest.accuracy/0 (778 ms)
[----------] 1 test from Core_Sum/ElemWiseTest (778 ms total)

[----------] 1 test from Core_Norm/ElemWiseTest
[ RUN      ] Core_Norm/ElemWiseTest.accuracy/0
[       OK ] Core_Norm/ElemWiseTest.accuracy/0 (2024 ms)
[----------] 1 test from Core_Norm/ElemWiseTest (2024 ms total)

[----------] 1 test from Core_MinMaxLoc/ElemWiseTest
[ RUN      ] Core_MinMaxLoc/ElemWiseTest.accuracy/0
[       OK ] Core_MinMaxLoc/ElemWiseTest.accuracy/0 (540 ms)
[----------] 1 test from Core_MinMaxLoc/ElemWiseTest (540 ms total)

[----------] 1 test from Core_CartToPolarToCart/ElemWiseTest
[ RUN      ] Core_CartToPolarToCart/ElemWiseTest.accuracy/0
[       OK ] Core_CartToPolarToCart/ElemWiseTest.accuracy/0 (4007 ms)
[----------] 1 test from Core_CartToPolarToCart/ElemWiseTest (4007 ms total)

[----------] Global test environment tear-down
[==========] 143 tests from 98 test cases ran. (225000 ms total)
[  PASSED  ] 143 tests.
```

```
python ../modules/ts/misc/summary.py core*.xml -f "add:.*C4" -u s
```

```
Geometric mean
Name of Test                                core posix x64 6693M 2011-09-08--13-13-41   core posix x64 6695 2011-09-08--13-30-06   core posix x64 6695 2011-09-08--13-30-06 vs core posix x64 6693M 2011-09-08--13-13-41
core_arithm__add::Size_MatType::(127x61, 8UC4)      0.000 s                             0.000 s                                   1.00
core_arithm__add::Size_MatType::(1280x720, 8UC4)    0.004 s                             0.004 s                                   0.99
core_arithm__add::Size_MatType::(1920x1080, 8UC4)   0.009 s                             0.009 s                                   1.02
core_arithm__add::Size_MatType::(640x480, 8UC4)     0.001 s                             0.001 s                                   1.00
```