SharkFest '16 Europe

HOWTO Contribute to #Wireshark

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Network Engineer and Core-dev



me

- Alexis La Goutte (@alagoutte)
 - Network Engineer @ Cheops
 - French integrator



- Contributor to Wireshark since 2008 (bug 2948)
- Core-dev since Avril 2011
 - Author/contributor of HTTP2/QUIC/ieee80211/ISAKMP/Mongo...







Wireshark 2.2

• for Wireshark 2.2.0 (since 2.0.0)



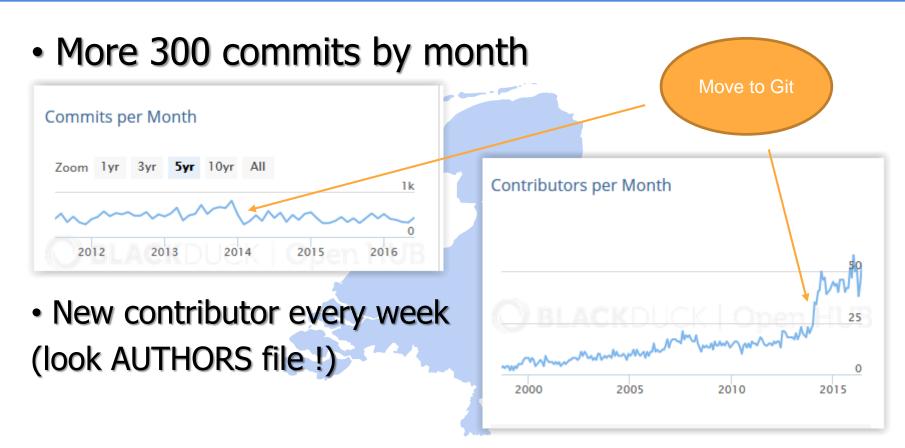


Historic

- from start of project (1998)
 - 65k commits
 - more than 2,5 millions line of code (SLOC)
 - more than 1200 contributors
 - but missing contributors...



Actually





Contributors

Coming from everywhere

- Network Vendor: Cisco, Juniper, Riverbed, HPE...
- Telecom Vendor: Qualcomm, Samsung, Ericsson, Nokia
- Big Internet company: Google, Facebook...
- University...

And individual people



Special Contributor (Core team)

~ 50 peoples from start of project

~ 20 « actives »





Special Contributor (Core team): International Team!









Wireshark on Social network

on Facebook



https://facebook.com/groups/wireshark/



Wireshark on Social network

Facebook





Wireshark on Social network

on Twitter

@wiresharknews



https://twitter.com/wiresharknews



Not in...

No Wireshark snapchat



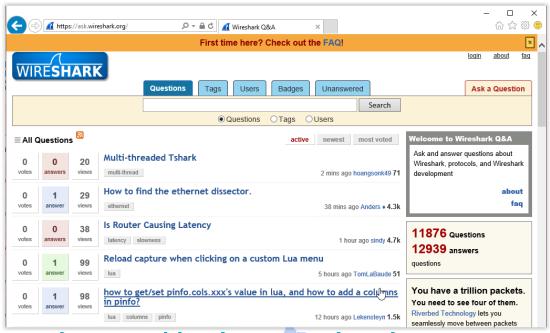
or Wireshark Instagram





ASK (Q&A)

Questions and Answers about Wireshark



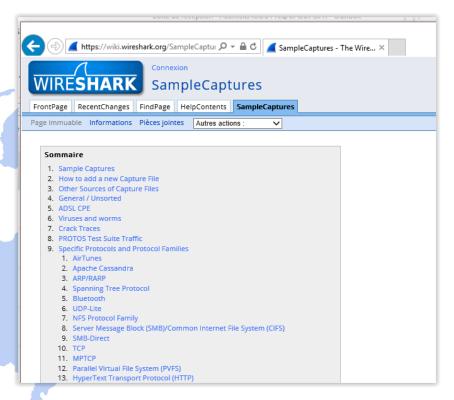
https://ask.wireshark.org



Wiki

a (old) Wiki but there is always some good information

•Specialty the SampleCaptures page And Gerrit info



https://wiki.wireshark.org



Mailing List

- Wireshark-users
 - no very active (prefer Ask)
- wireshark-dev
 - About wireshark code
- wireshark-commits
 - Mail of each commit
- wireshark-bugs
 - •Mail of each bugs..



MARC archives

For Developers

Wireshark-dev RSS

Developer discussion list for Wireshark. High volume. Subscribe/Unsubscribe/Options

Local archives Gmane archives MARC archives The Mail Archive

Wireshark-commits RSS

SVN repository commit messages. High volume. Subscribe/Unsubscribe/Options Local archives Gmane archives MARC archives The Mail Archive

For Masochists

Wireshark-bugs RSS

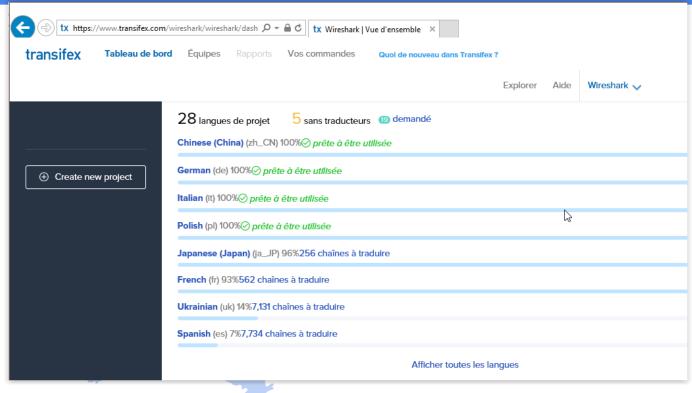
Bug tracker comments. High volume. Subscribe/Unsubscribe/Options Local archives Gmane archives





Transifex

For manage translations



https://www.transifex.com/wireshark







Bugs (and feature)

Use bugzilla



https://bugs.wireshark.org



Bug TODO list

- for regression/bug
 - How to reproducture the issue
 - a link to specification (it will be help often...)
 - Please attach a pcap (and NOT a screenshot)

- for feature request (like new dissector)
 - a link to specification (we are not magician)
 - a (or multiple) pcap(s) (and NOT a screenshot)



Make build environnement

• Linux (more easy):

- can use debian-setup script (for debian familly distro)
- can use rpm_for_devel (for rpm familly distro)

macOS

- can use macosx-setup script
- can use macos-setup-brew script (use HomeBrew)

Windows

Read documentation :

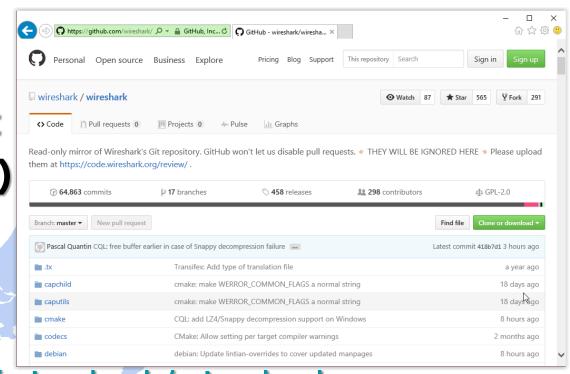
https://www.wireshark.org/docs/wsdg_html_chunked/ChSetupWin32.html



Github

Official git mirror

But don't Accept Pull Request (PR)



https://github.com/wireshark/wireshark



Travis

Build system from Github

•Include a .travis.yml config file in Wireshark repo

• with already 5 jobs

clang/gcc/autotools/cmake and osx

Build Jobs		
° #183.1	♦ Compiler: clang C++	BUILD_CMAKE=no
° #183.2	♦ Compiler: clang C++	DUILD_CMAKE=yes
° #183.3	♦ Compiler: gcc C++	DUILD_CMAKE=no
° #183.4	♦ Compiler: gcc C++	DUILD_CMAKE=yes
° # 183.5	♂ Compiler: clang C++	□ BUILD_CMAKE=yes

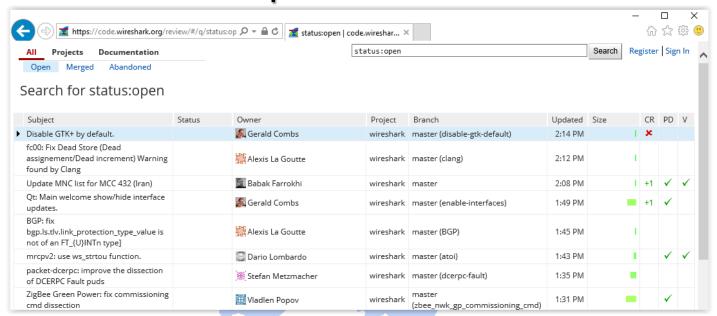


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Gerrit

the Official Git repo: use for code review



https://code.wireshark.org/review/



Push your change!

- Need some git skill
- git clone https://code.wireshark.org/review/wireshark
- make your change
- git commit
- git review –R (or git push origin HEAD:refs/for/master/)



Help for Gerrit

There is page on Wiki can help you

https://wiki.wireshark.org/Development/Workflow https://wiki.wireshark.org/Development/SubmittingPatches https://wiki.wireshark.org/Development/SubmittingPatches /GitForWindows



Buildbot

(Continous) Automatic build system

- Windows
- Linux (gcc/clang/clang-analyzer/fuzzing...)
- macOS
- •For master, master-2.2 and master-2.0 branch







Nighty build

- you can get « automated build »
- for Windows and macos

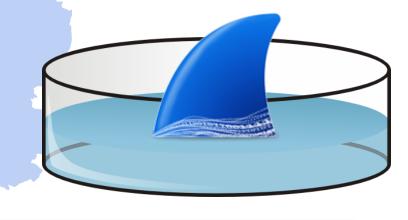
https://www.wireshark.org/download/automated/



Petri Dish

 Automatic builds and tests before pushing to master

- For example :
 - Build with GCC/clang (for Windows dev)
 - Build with extra flag
 - Build with MSVC (for Linux dev)
 - Sanity checks: checkapi, pre-commit, license
 -





Patch Set 1: Verified+1

Builder Ubuntu x86-64 Petri Dish succeeded (build successful) - http://buildbot.wireshark.org/petri-dish/builders/Ubuntu%20x86-64%20Petri%20Dish/builds/8740

Builder Windows x86 Petri Dish succeeded (build successful) - http://buildbot.wireshark.org/petri-dish/builders/Windows%20x86%20Petri%20Dish/builds/2387







ROADMAP!

It is you make the ROADMAP!
Only need to contribute! (patch, bug, feature...)

But already 17 new dissectors (and a lot of bug fix ! Already more 1100 commits from 2.2)







