

SharkFest'22 US  
Kansas City, MO  
July 9-14

#sf22us

# Contribute to Wireshark



**Uli Heilmeier**  
Vitesco Technologies

SharkFest'22 US  
Kansas City, MO  
July 9-14


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# Hello!

*I am Uli Heilmeyer*

I am here because I love Wireshark.

You can find me at

@pizza\_4u 

@uhei@chaos.social 

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# Everyone can contribute

WS is open source and programmed by hundreds of volunteers.  
When you want to give back to the community or improve WS this session is for you.

But you don't have to be a programmer to contribute

There is more than C, C++ and Python



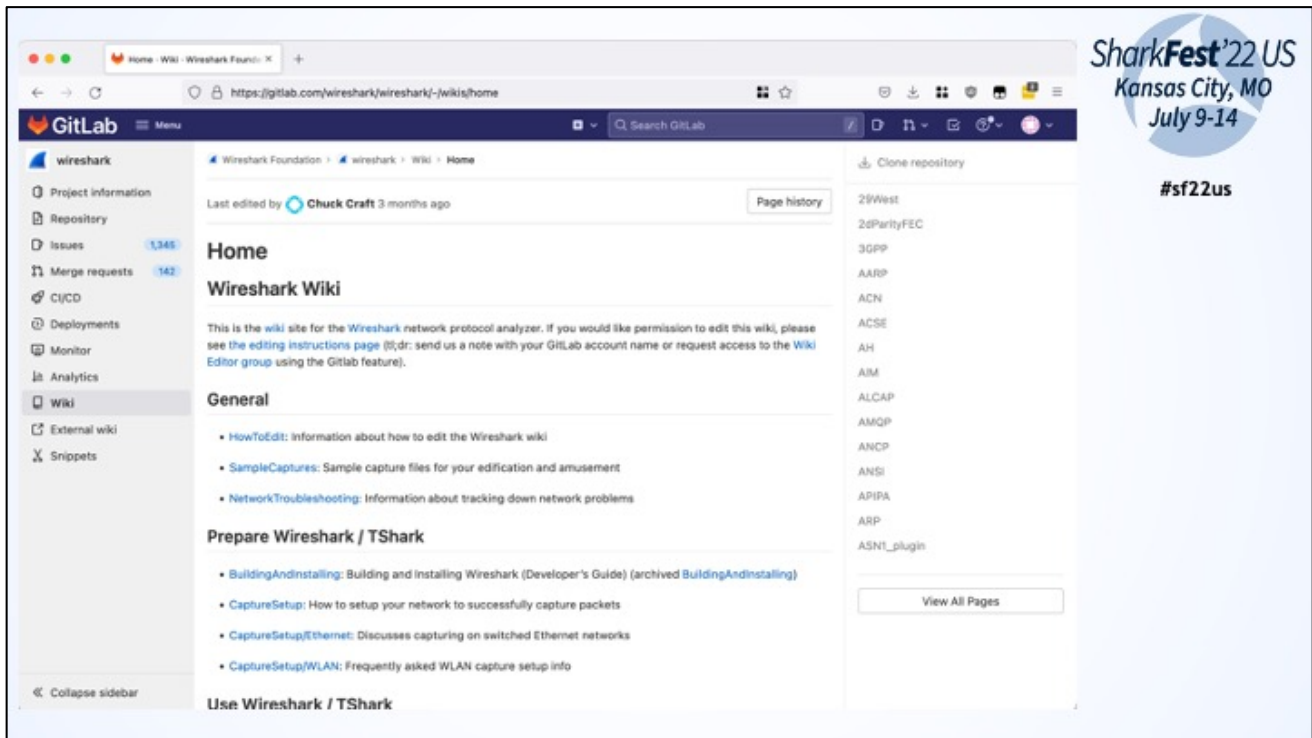
You can contribute too!

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# Documentation Wireshark/tshark application Community

Topics we will cover



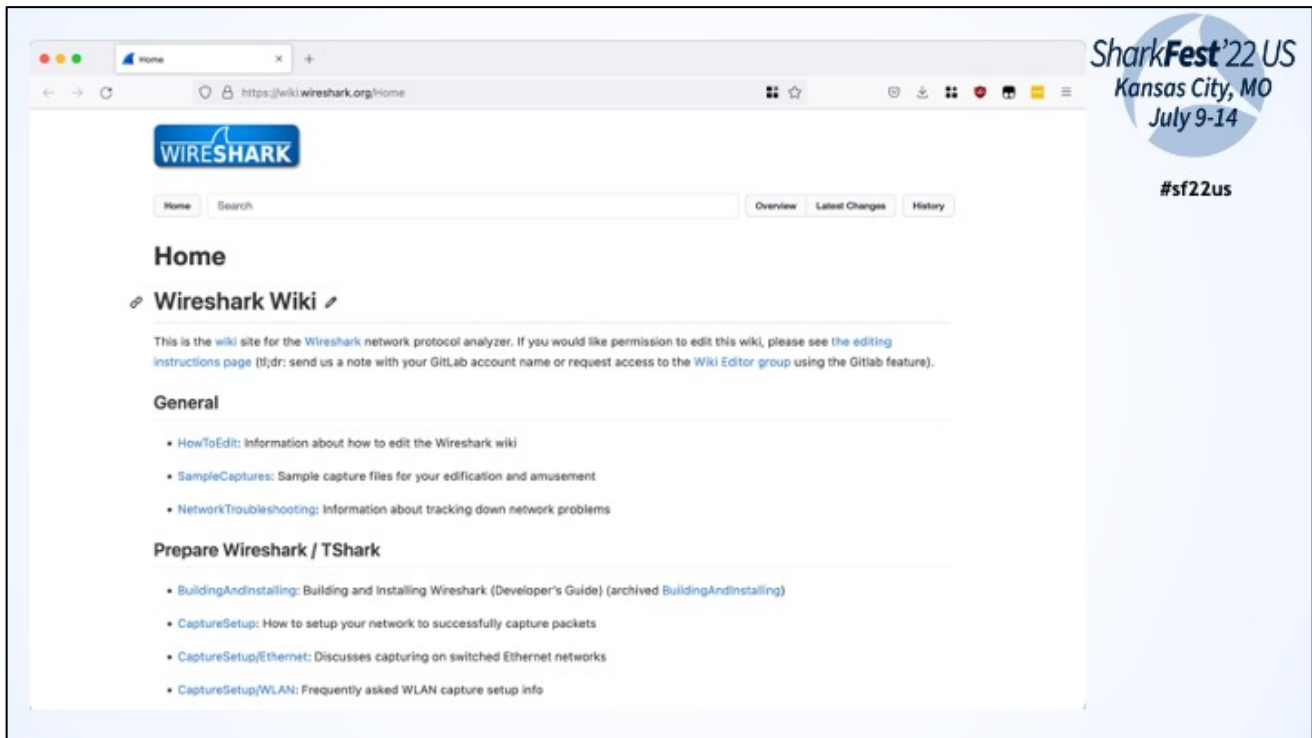
Wiki: like Wikipedia

Knowledge base for using Wireshark, building Wireshark and Protocols/Dissectors

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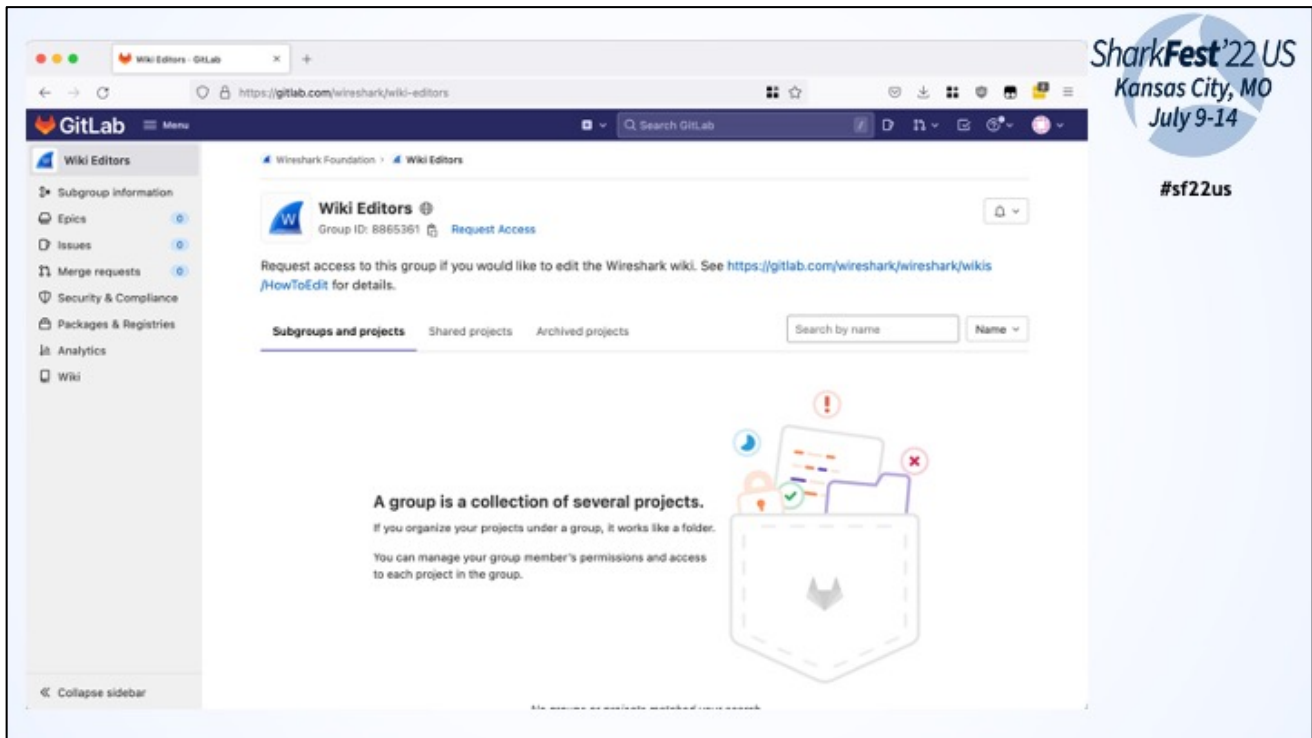
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# DEMO



URLs: [wiki.wireshark.org](https://wiki.wireshark.org) and [gitlab.com/wireshark/wireshark/wiki](https://gitlab.com/wireshark/wireshark/wiki)



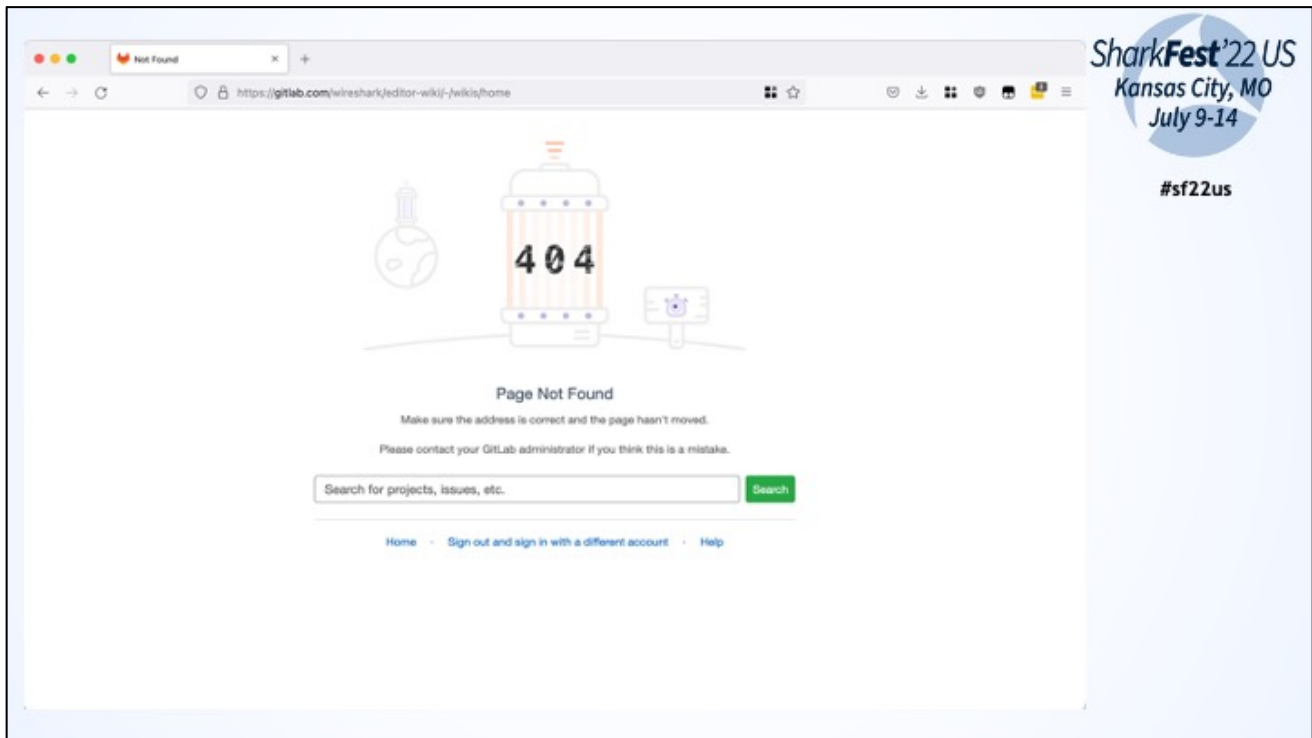


Edits happen in an own repo “editor-wiki”

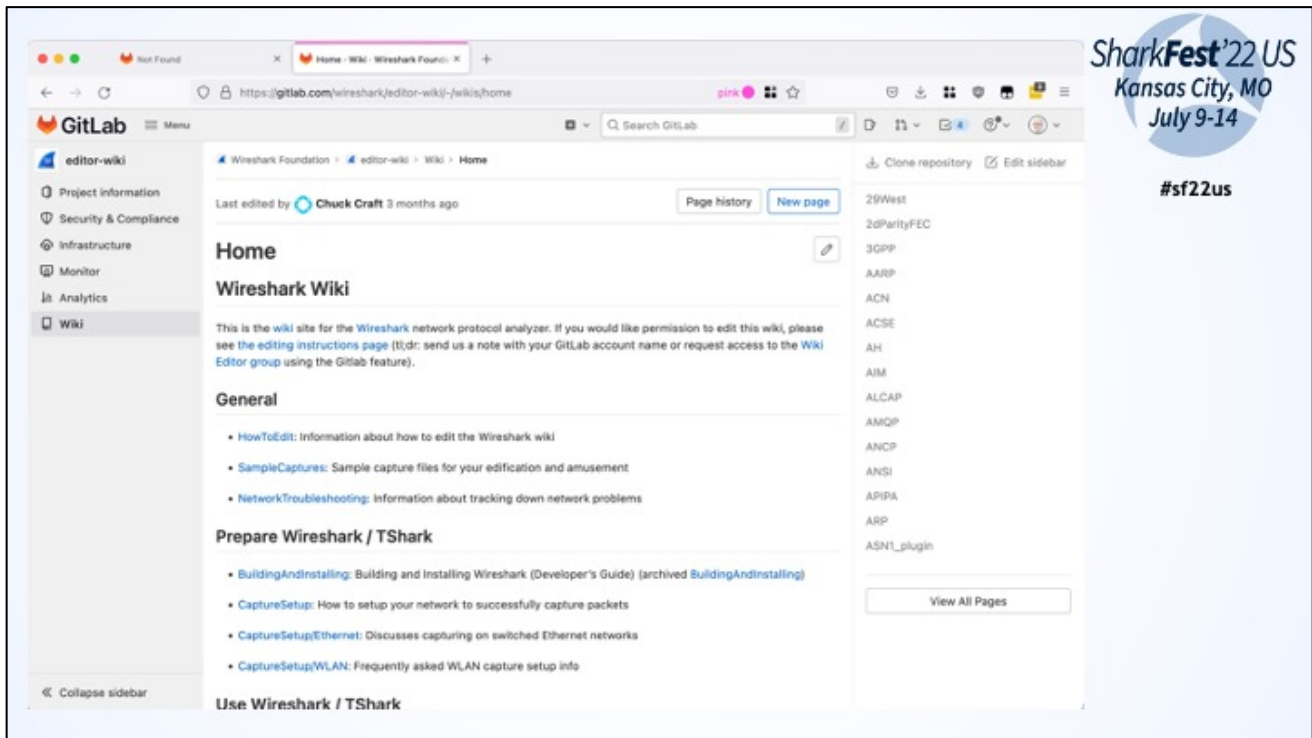
To edit you have to be a member of the group “Wiki Editors”

=> You have to have a Gitlab account: register direct or use a federation Id like Google etc

Request access to group with “Request Access” link or by writing a mail containig your Gitlab username to the wireshark-dev mailing list



Editor-wiki is only accessible for group members



When you have the access, just click the “Edit” button and edit a page.  
Add a short commit comment and save  
⇒ There is now approval process

Changes are synced automatically to [wiki.wireshark.org](https://wiki.wireshark.org) and [gitlab.com/wireshark/wireshark](https://gitlab.com/wireshark/wireshark)

## Wiki

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- [wiki.wireshark.org](https://wiki.wireshark.org) or [gitlab.com/wireshark/wireshark/-/wikis](https://gitlab.com/wireshark/wireshark/-/wikis)
- To edit
  - create/use a GitLab account
  - request access via „Wiki Editors“ group:  
[gitlab.com/wireshark/wiki-editors](https://gitlab.com/wireshark/wiki-editors)
  - Edit via [gitlab.com/wireshark/editor-wiki/-/wikis/home](https://gitlab.com/wireshark/editor-wiki/-/wikis/home)



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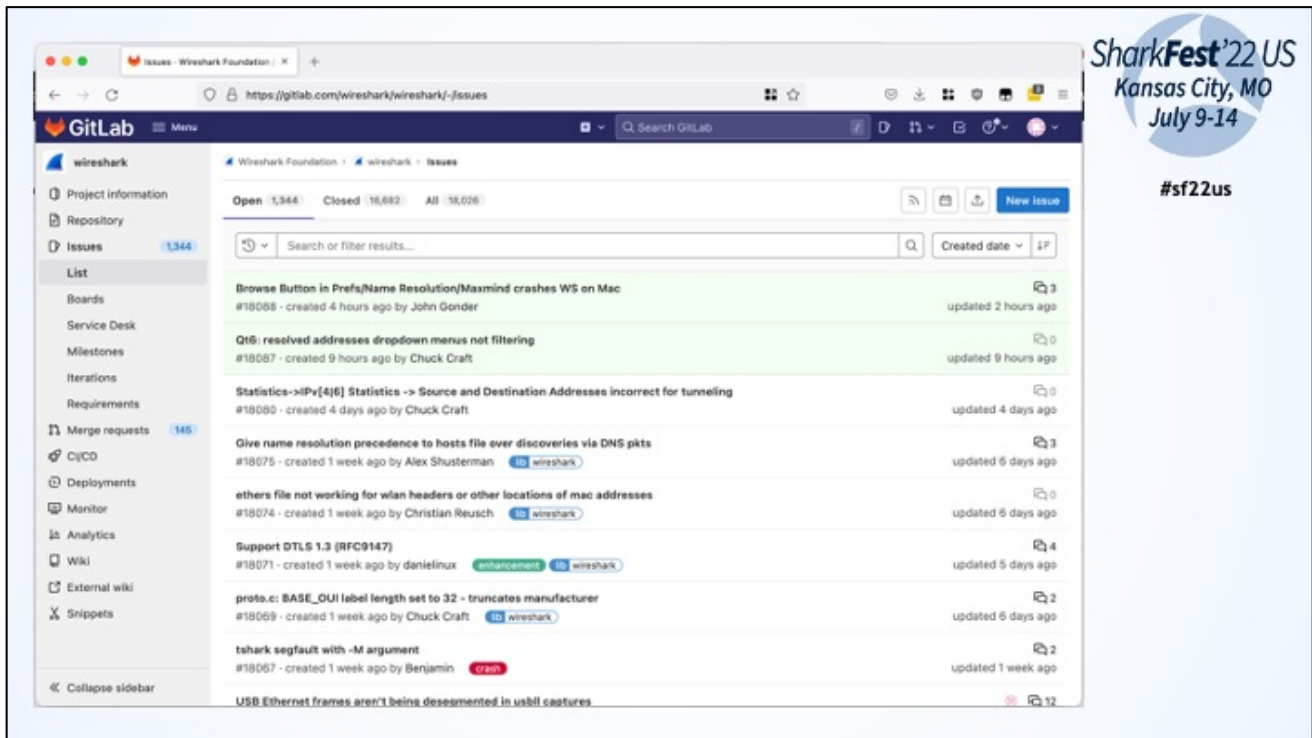
CC BY SA 2.0, Bernard DUPONT, commons.wikimedia.org

Bugs, Bugs, Bugs

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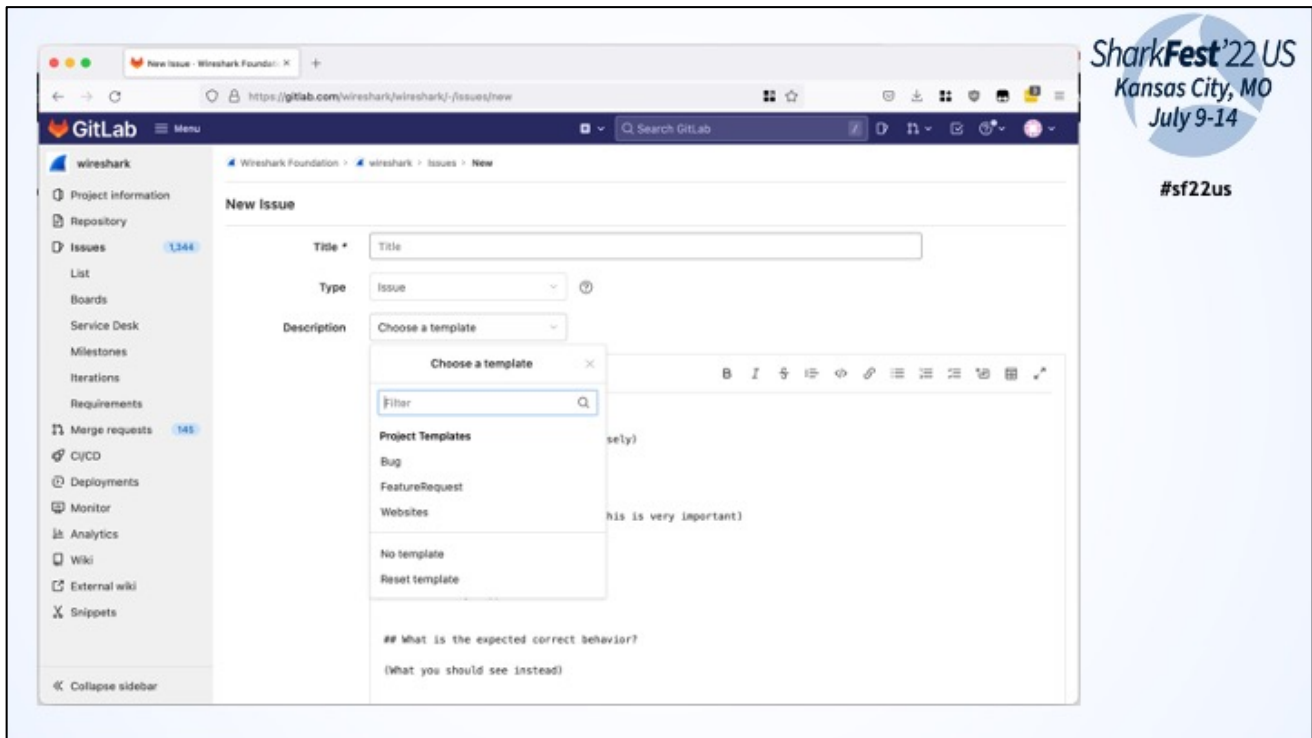
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# DEMO



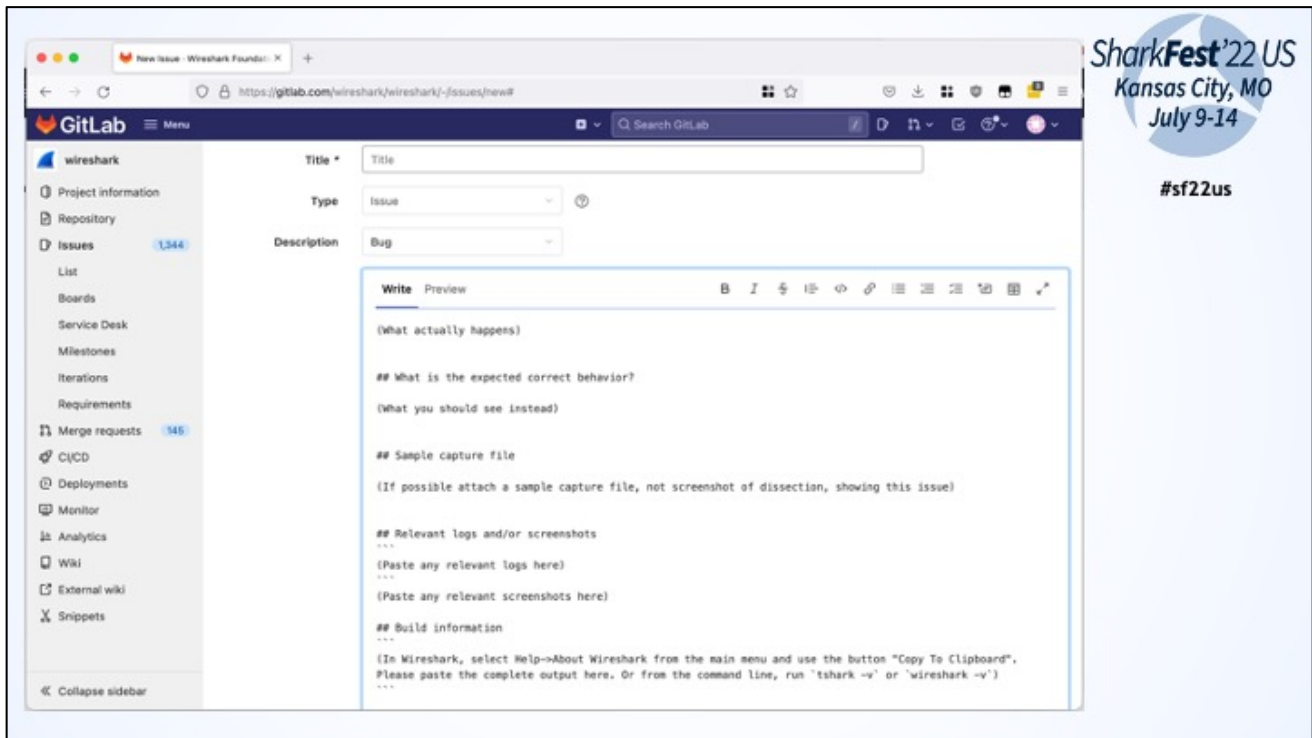
Issues (Bugs, Feature Requests) are tracked at [gitlab.com/wireshark/wireshark/-/issues](https://gitlab.com/wireshark/wireshark/-/issues)

When you have an issue please lookup if your issue has already been reported  
To search the issues you have to be logged in into Gitlab (no further rights required)



For reporting a new bug, please use the Bug template (default) and fill out every section!

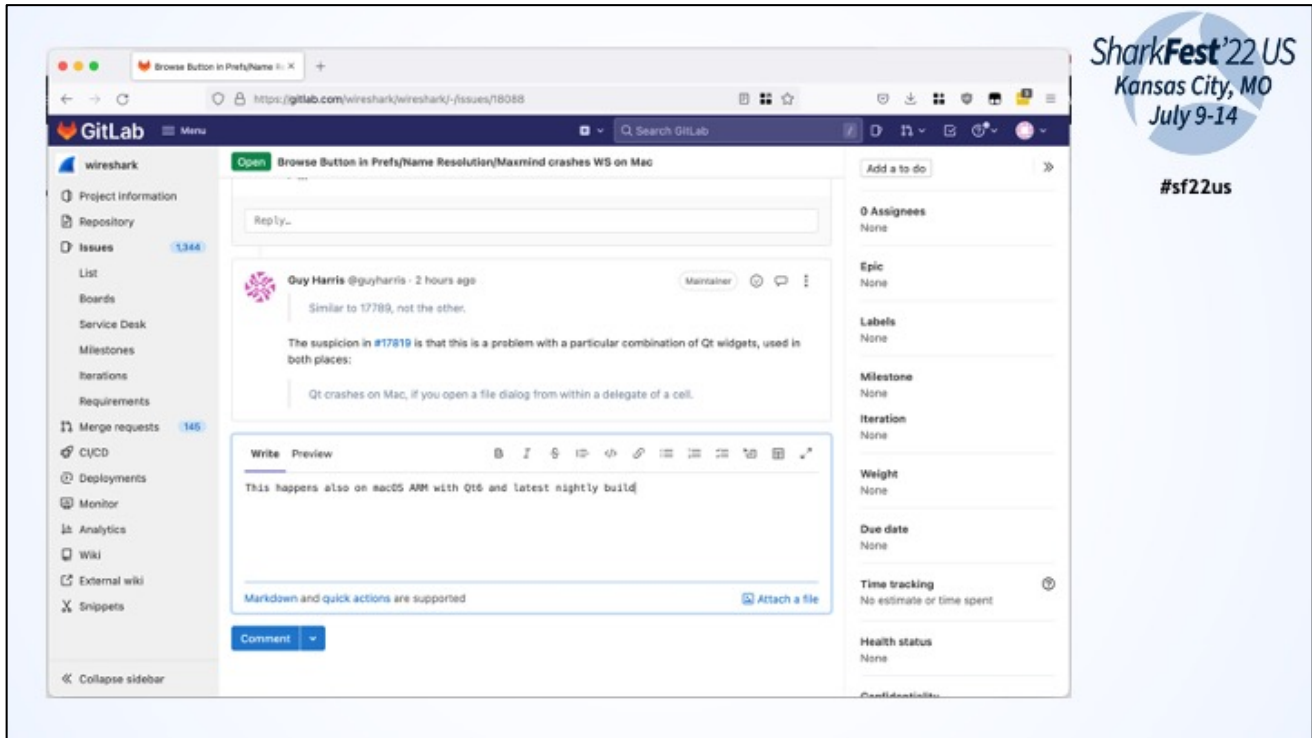




Having a sample capture is important for dissector bugs!  
If pcap contains sensitive data use tracewrangler.com to sanitize or if there is no other way mark the issue as private.  
Screenshots for UI issues.

Just copy and paste the WS version information.

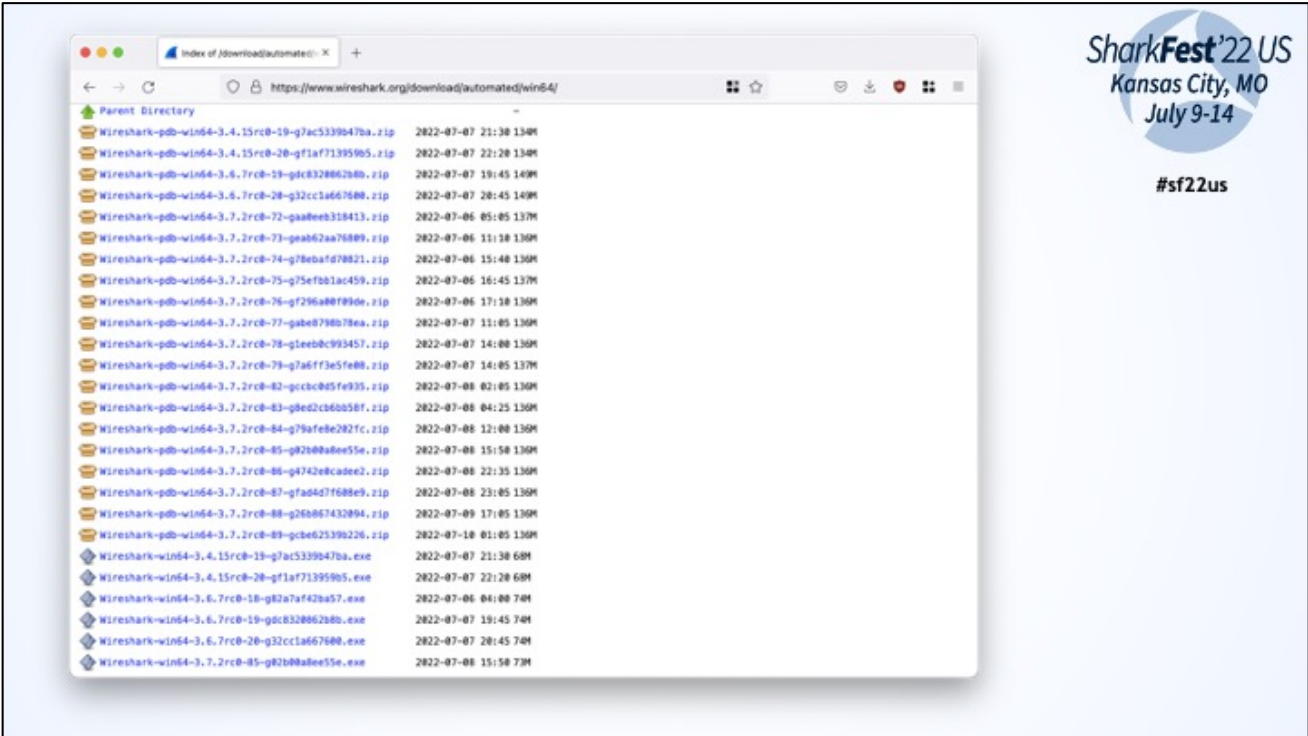
Use the prepared Markdown syntax for better readability



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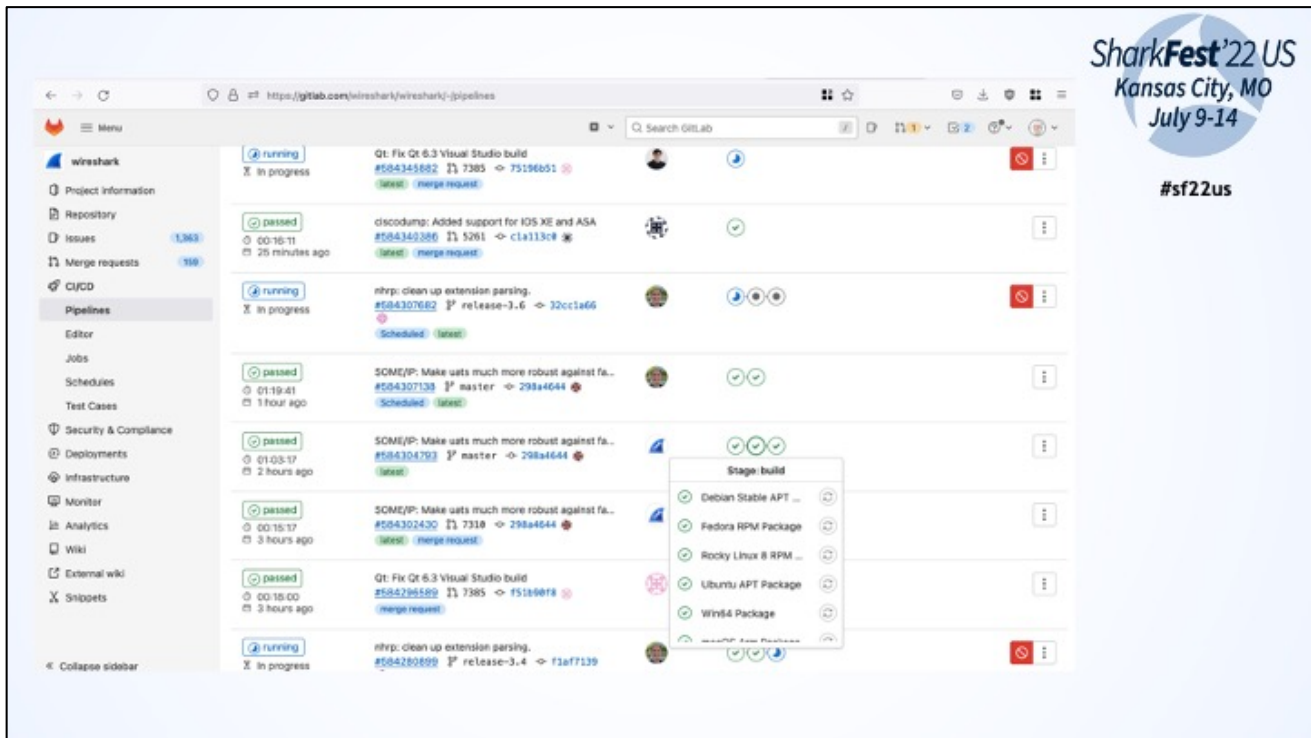
Add comments to existing bugs when they are helpful.  
Please answer questions from others about your reported issue.



Every commit/PR is triggering some CI/CD pipelines with jobs.  
Build jobs have artifacts

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Every commit/PR is triggering some CI/CD pipelines with jobs.  
Build jobs have artifacts

## ● Issues - Bugs

- [gitlab.com/wireshark/wireshark/-/issues](https://gitlab.com/wireshark/wireshark/-/issues)
- Search existing issues first
- Add helping infos to existing issues
- Use the template for Bugs
- Provide pcap if possible
  - See sanitization talks and use [TraceWrangler](#)
- Can be marked as private
  - only core devs can see it

## ● Issues - Feature Requests

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- [gitlab.com/wireshark/wireshark/-/issues](https://gitlab.com/wireshark/wireshark/-/issues)
- Search existing issues first
- Add helping infos to existing issues
- Use the template for Feature Requests
- Provide pcap if possible
- Provide or link to specs

## ● Automated builds

- [wireshark.org/download/automated](https://www.wireshark.org/download/automated)

  - macOS (Intel, ARM)
  - Windows
  - Source tar.xz

- CI/CD pipeline artifacts (The jobs with three stages => build)
  - Debian/Ubuntu deb packages
  - Fedora/Rocky Linux/openSUSE rpm packages



Wireshark User Guide => the manual how to use WS



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# DEMO

Wireshark User's Guide

Version 3.7.0

Richard Sharpe, Ed Warnicke, Ulf Lamping

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  - [1.1.2. Features](#)

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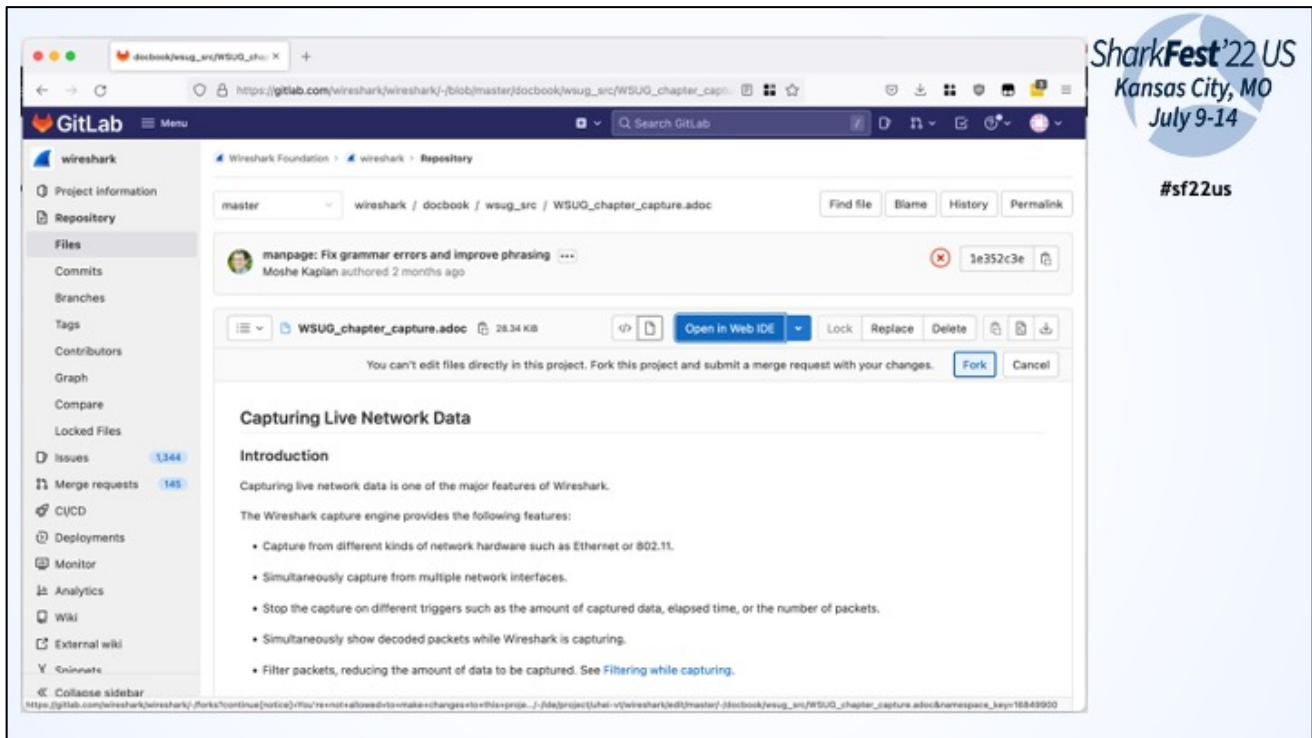
Located at [www.wireshark.org/docs](https://www.wireshark.org/docs)

Available as HTML, PDF etc

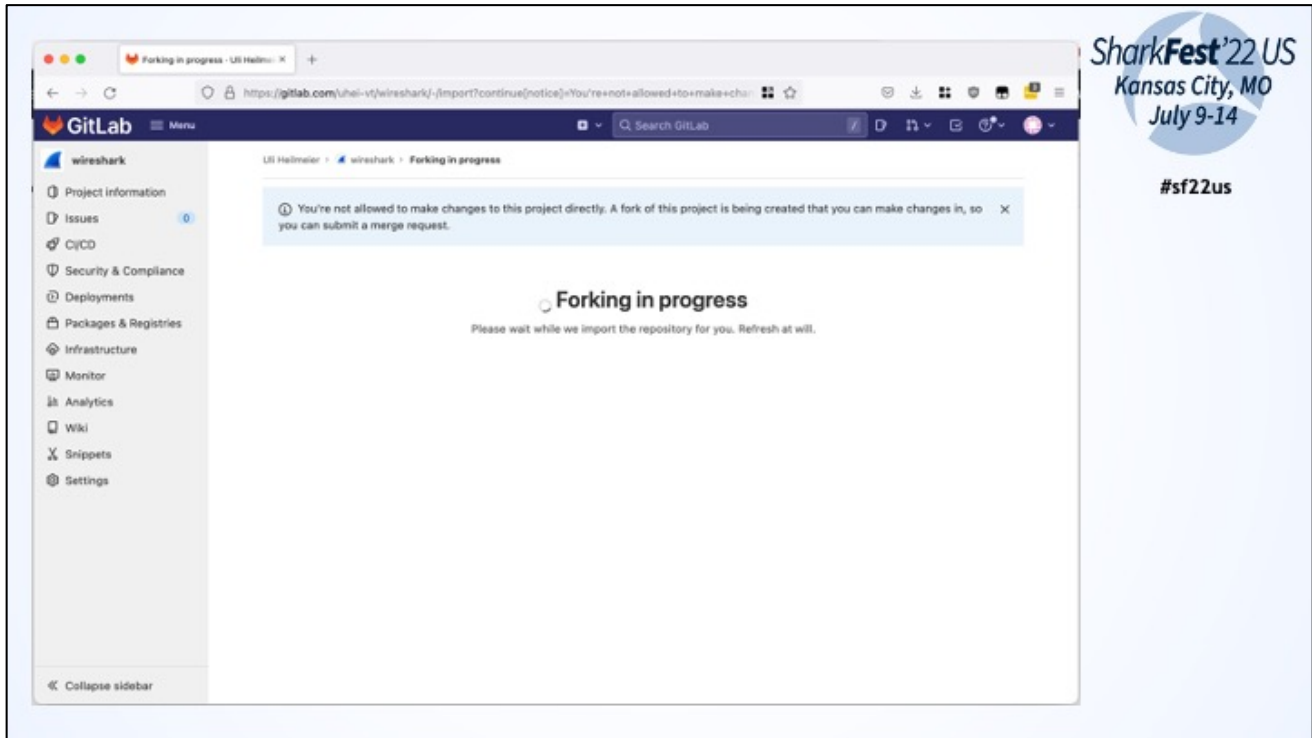
The online version is for the development build at the moment

The screenshot displays the GitLab interface for the Wireshark repository. The main content area shows a commit by Moshe Kaplan titled "Fix grammar errors and improve phrasing" for the file "WSUG\_chapter\_capture.adoc". The file content is visible, starting with "Capturing Live Network Data" and "Introduction". The introduction text reads: "Capturing live network data is one of the major features of Wireshark. The Wireshark capture engine provides the following features:" followed by a bulleted list of features. The sidebar on the left contains navigation links such as "Project information", "Repository", "Files", "Commits", "Branches", "Tags", "Contributors", "Graph", "Compare", "Locked Files", "Issues (1,344)", "Merge requests (145)", "CI/CD", "Deployments", "Monitor", "Analytics", "Wiki", "External wiki", and "Kubernetes". On the right side, there is a blue circular logo for "SharkFest'22 US" in Kansas City, MO, from July 9-14, with the hashtag #sf22us.

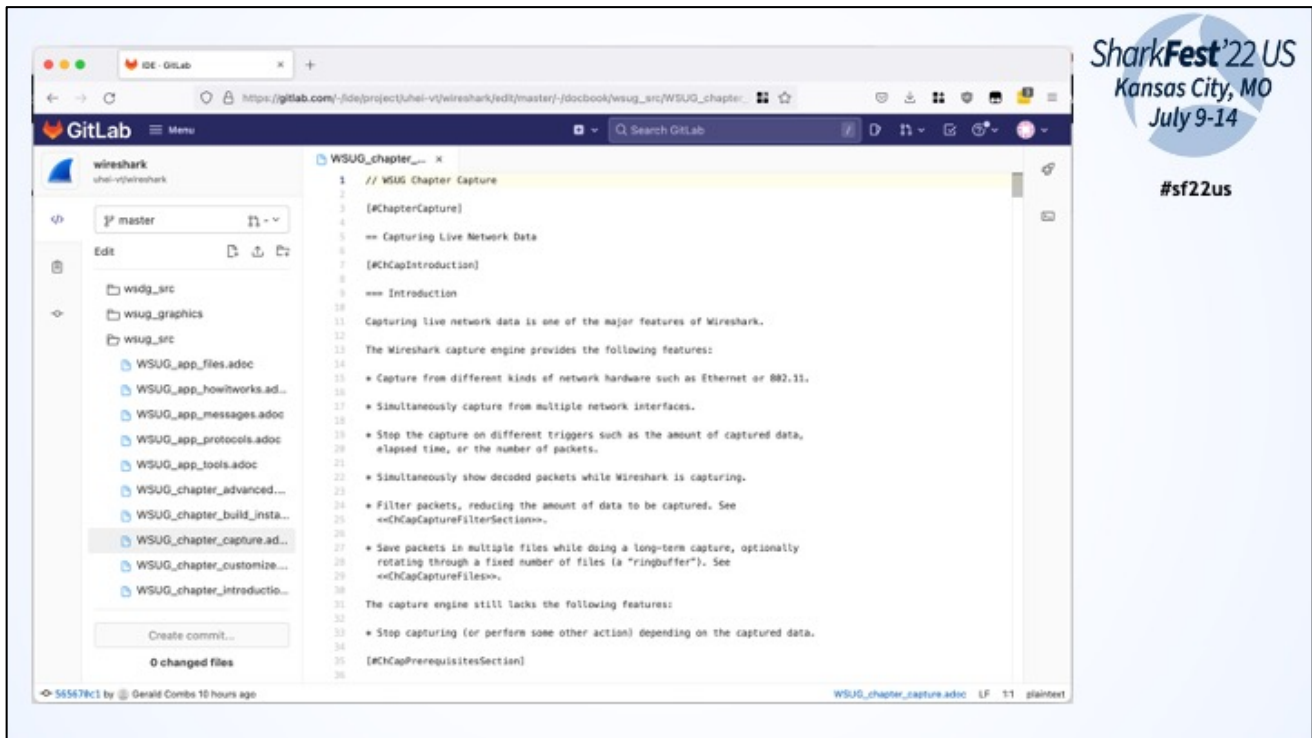
Source of WSUG is written in AsciiDoc and is part of the source code repo. You can edit the source by using the WebUI.



To edit with the Gitlab WebUI you have to clone/fork the repo into your own account  
This is only necessary for the first time



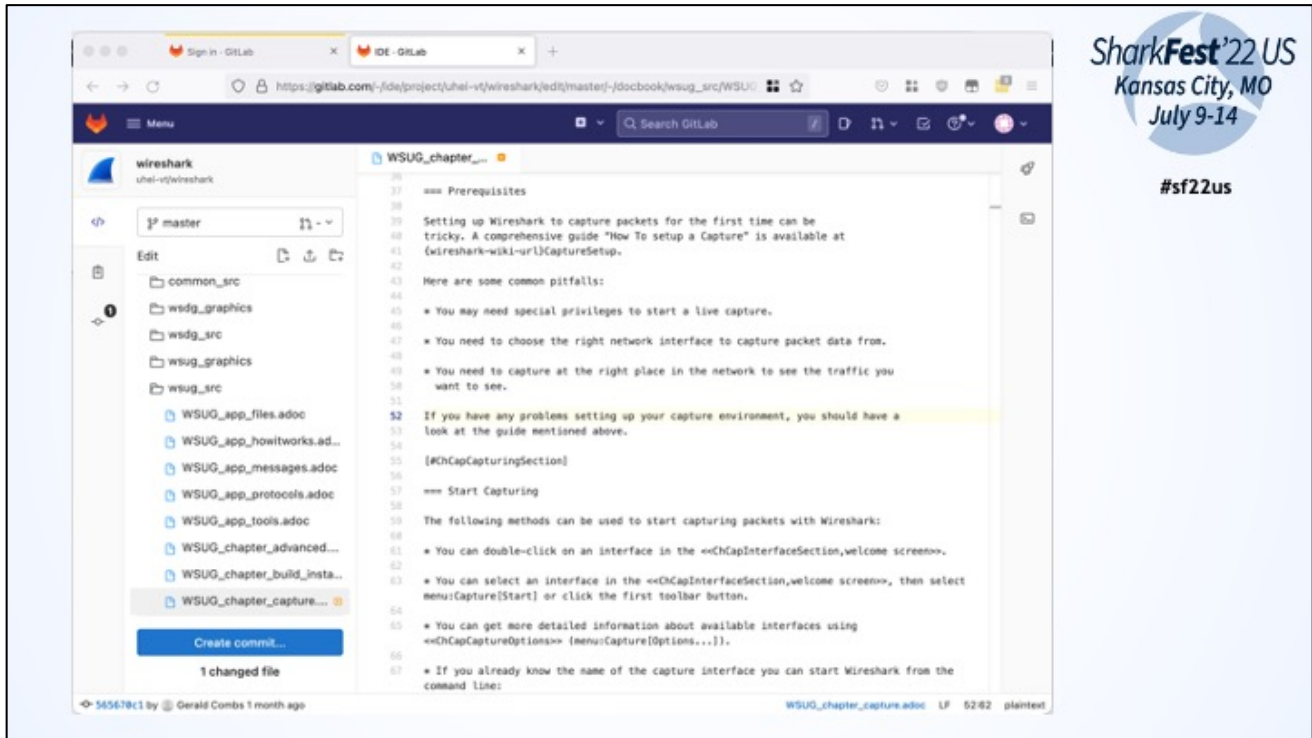
Forking takes some time



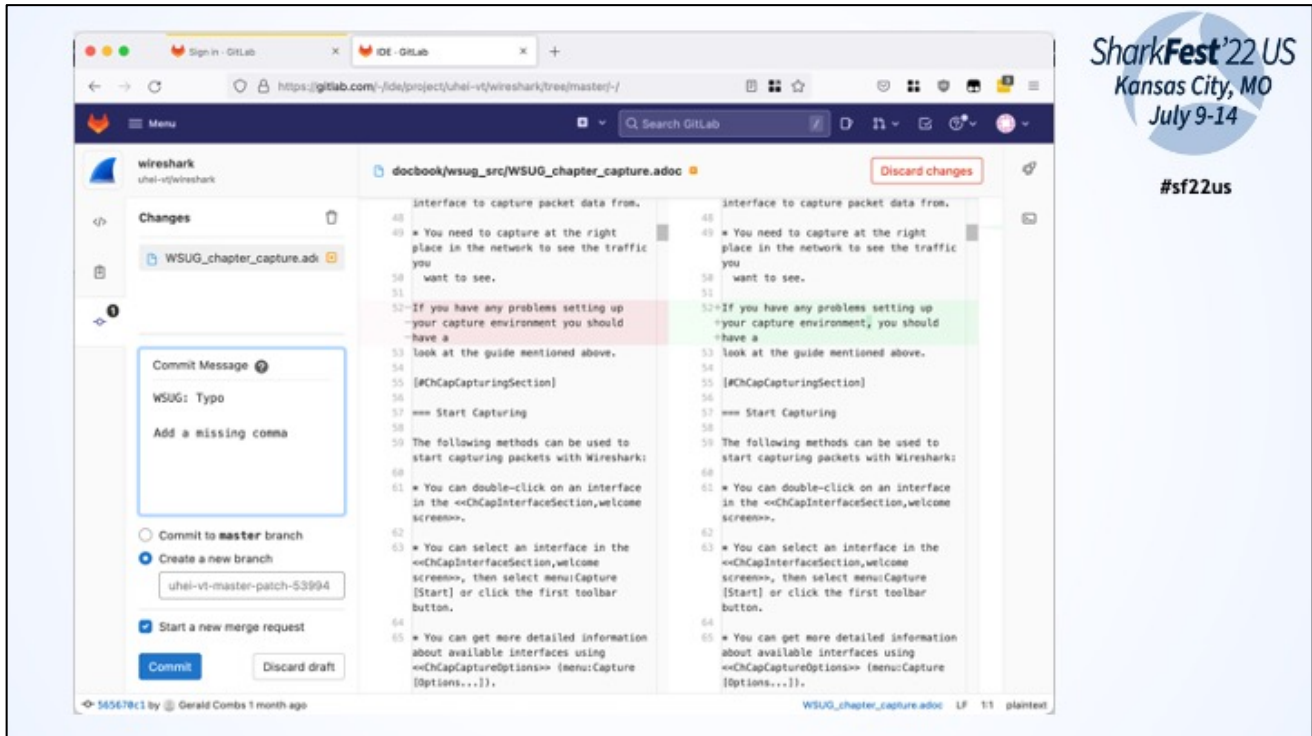
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Edit in WebUI



To bring your edit to the original repo you have to create a commit and then a MergeRequest

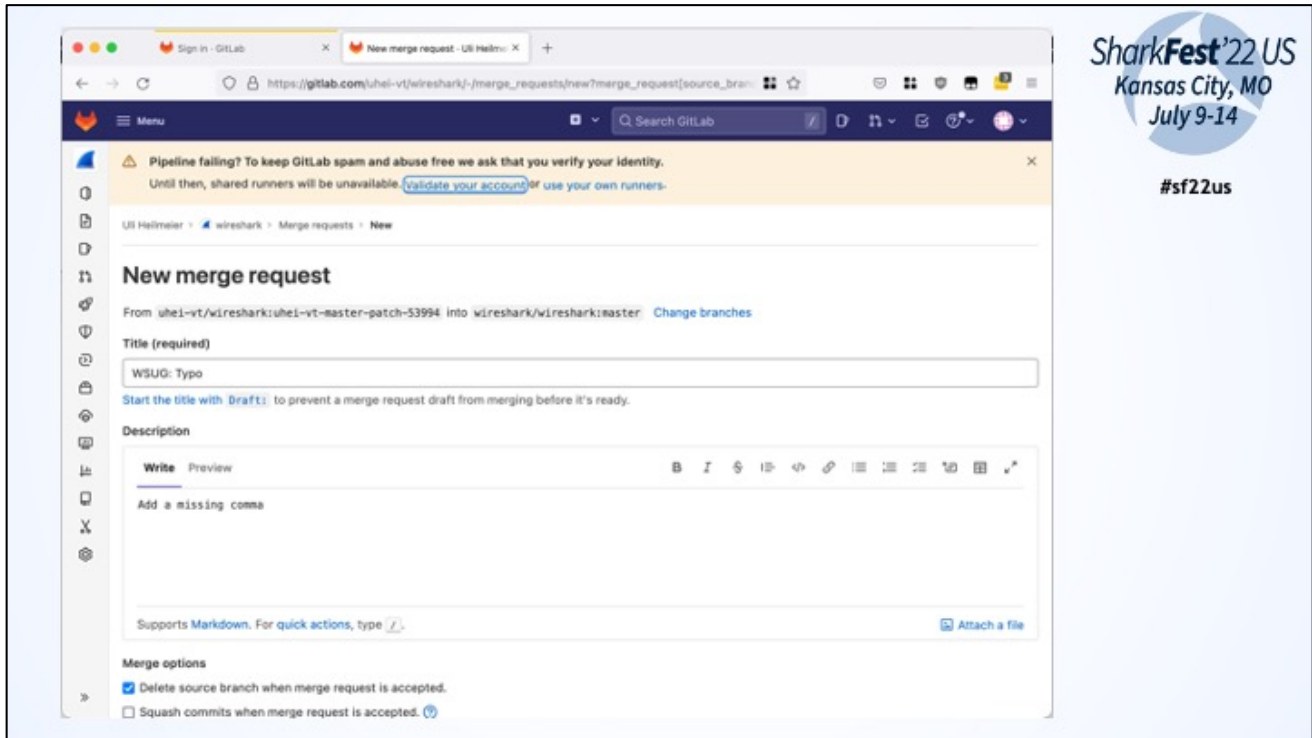


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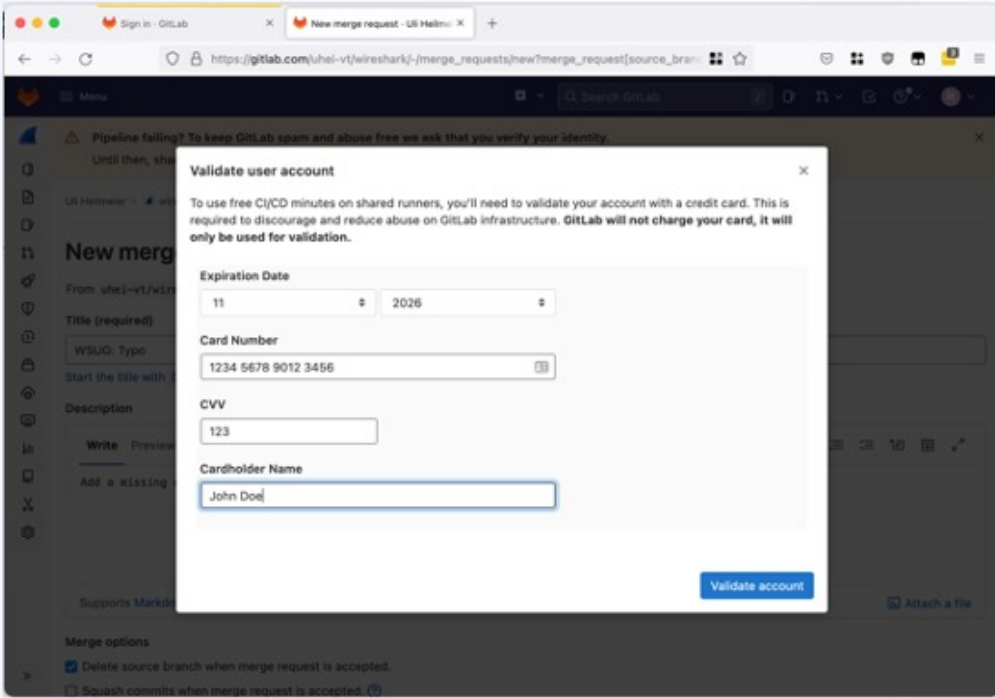
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Add a describing commit message like “WSUG: Updated chapter XYZ\n\nAdded information about foo”  
Create a new branch! Don’t commit to master branch!





For the first commit there will be a warning/error about failed pipelines. You can "fix" this by validating your account (by providing CC information). Or leave it as it is. Core-Devs can rerun the pipeline in origin repo.



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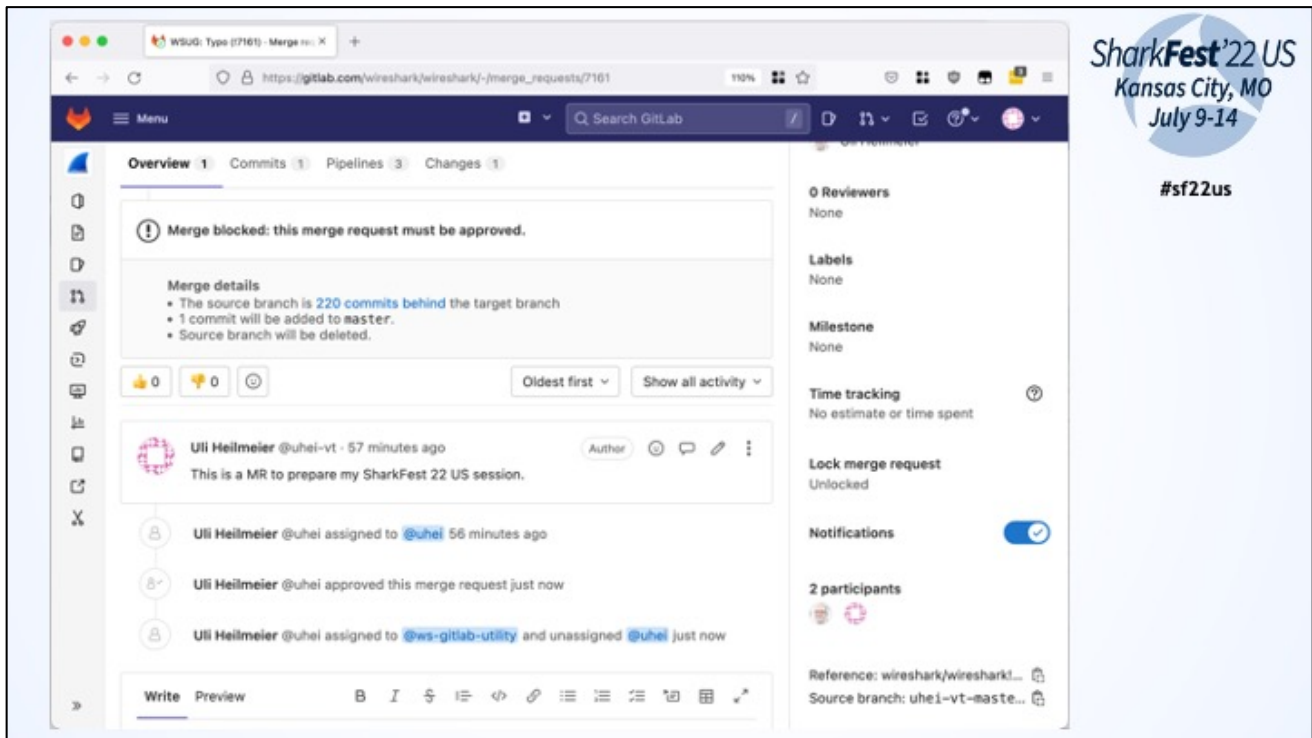
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The image shows a screenshot of a GitLab merge request (MR) page. The browser address bar shows the URL: [https://gitlab.com/wireshark/wireshark/-/merge\\_requests/7161](https://gitlab.com/wireshark/wireshark/-/merge_requests/7161). The page title is "WSUG: Typo". The MR is assigned to Uli Heilmeler and was requested 58 minutes ago. The overview shows 1 commit, 3 pipelines, and 1 change. A message states: "Add a missing comma". A pipeline #562565872 passed for commit 43a2c250 2 minutes ago. There is an "Approve" button with the note "Requires 1 approval from a core developer." and a link to "View eligible approvers". A warning message at the bottom says "Merge blocked: this merge request must be approved." The right sidebar shows settings for the MR: Assignee (Uli Heilmeler), 0 Reviewers, Labels (None), Milestone (None), Time tracking (No estimate or time spent), Lock merge request (Unlocked), Notifications (checked), and 2 participants.

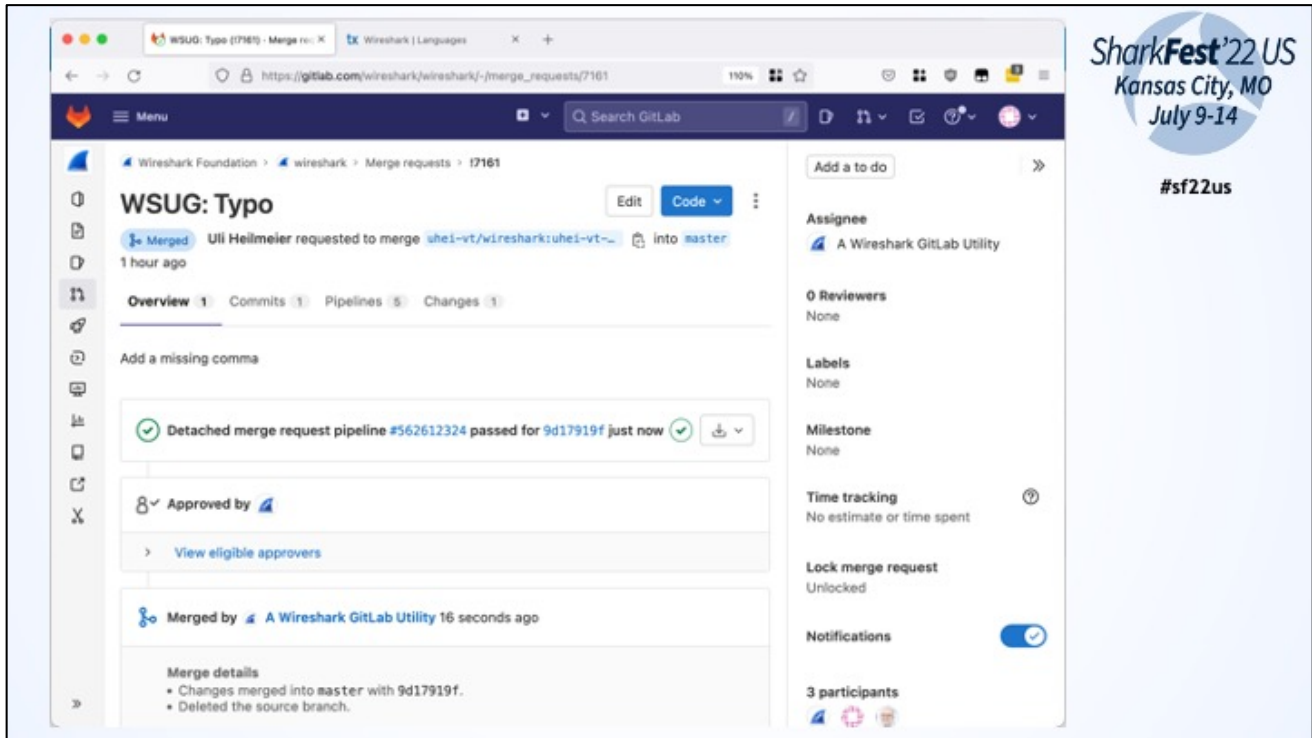
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Core dev will approve MR or ask questions



When merged it will automatically be available at [wireshark.org/docs/wsug...](https://wireshark.org/docs/wsug...)



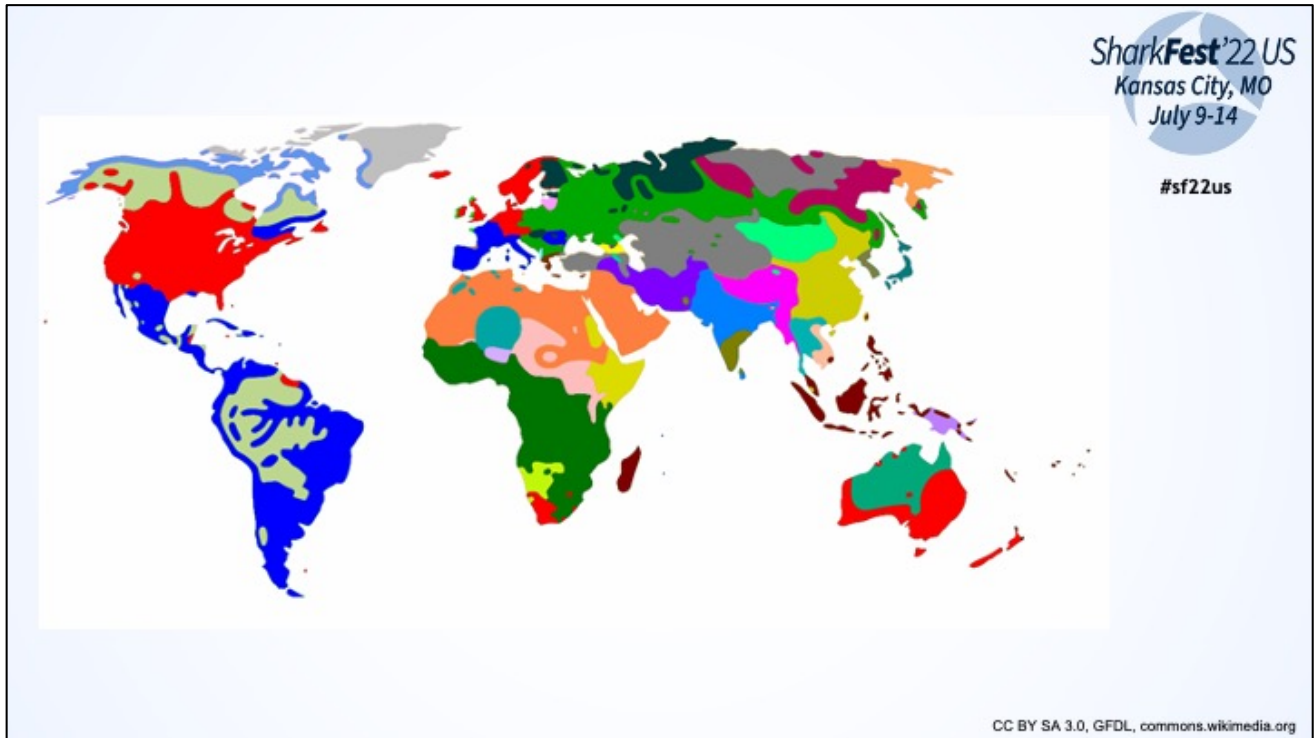
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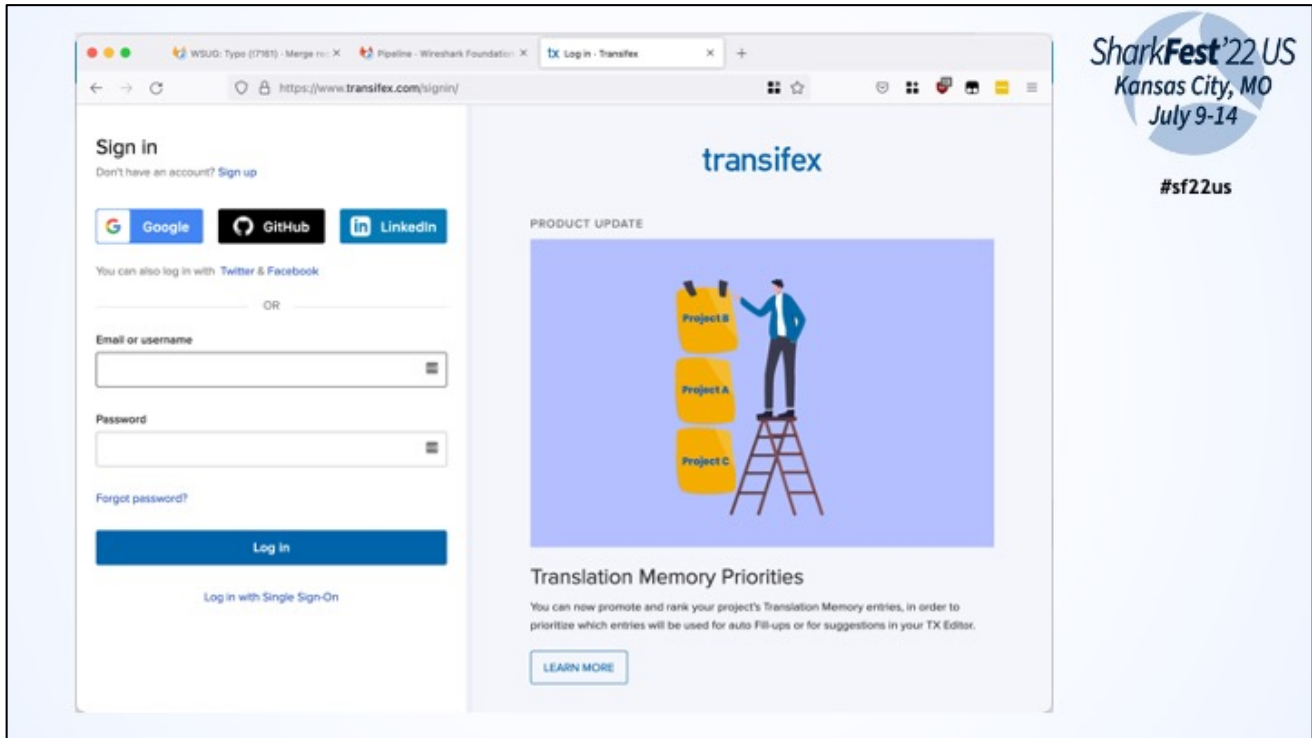
When merged it will automatically be available at [wireshark.org/docs/wsug...](https://wireshark.org/docs/wsug...)

## ● Wireshark User Guide (WSUG)

- [www.wireshark.org/docs/wsug\\_html](http://www.wireshark.org/docs/wsug_html)
- AsciiDoctor files at [gitlab.com/wireshark/wireshark/-/tree/master/docbook](https://gitlab.com/wireshark/wireshark/-/tree/master/docbook)
- For small edits use GitLab Web IDE
  - Fork the project
  - Create a branch
  - Edit WSUG
  - Create Merge Request



Translation



Create account or use federation ID to login to [transifex.com/wireshark](https://www.transifex.com/wireshark)



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transifex Dashboard Glossaries Teams Reports Search Strings Wireshark

Wireshark  
Assigned to Wireshark team · Join Team

27.43K  
Total source strings

100K  
Source words / 18 resources

0.16% Reviewed 13.12% Translated 86.88% Untranslated

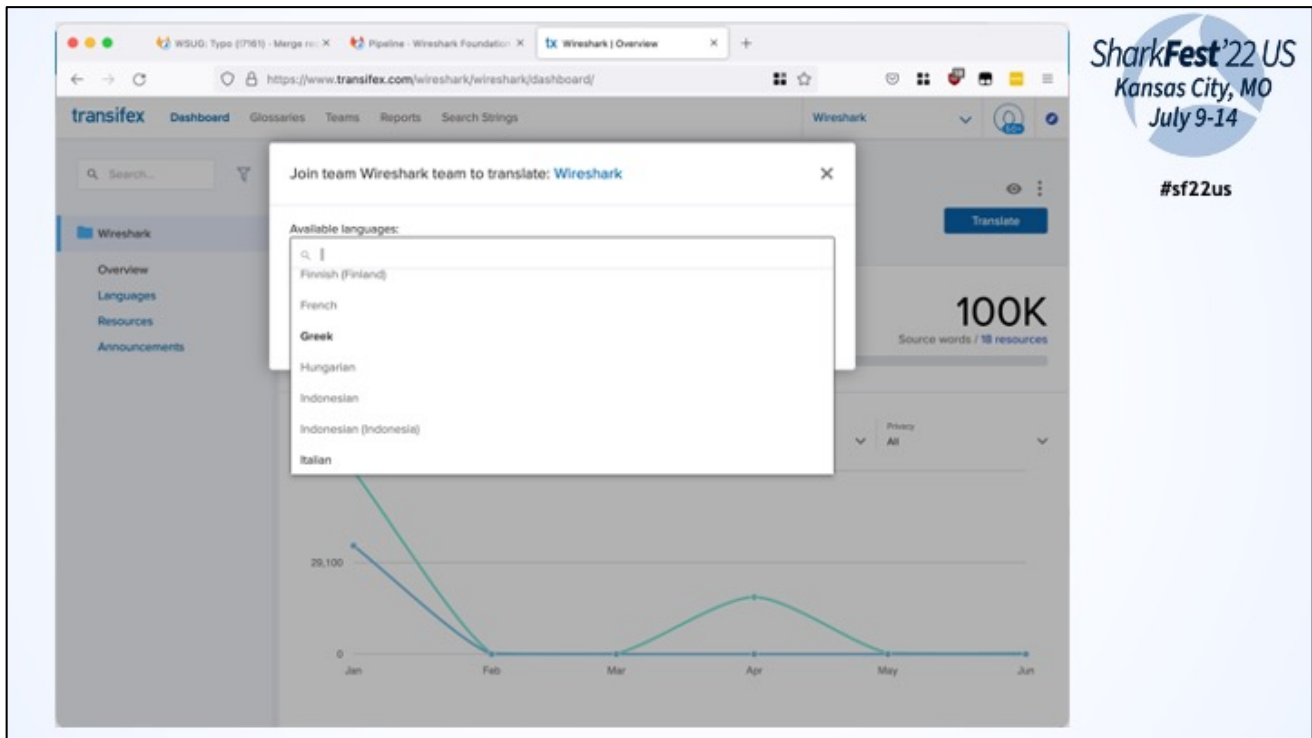
Localization Activity

Time period: Monthly

Privacy: All

Month	Activity
Jan	58,200
Feb	0
Mar	0
Apr	~15,000
May	0
Jun	0

Got to your know language



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To contribute you have to be a member of the language group. Request access. Core dev will approve.

WSUG: Type (716) - Merge ... X Pipeline - Wireshark Foundati... X Wireshark | Overview X +

https://www.transifex.com/wireshark/wireshark/dashboard/

transifex Dashboard Glossaries Teams Reports Search Strings Wireshark

Search...

Wireshark

- Overview
- Languages
- Resources
- Announcements

58,200  
29,100  
0

Jan Feb Mar Apr May Jun

**46** Project languages **20** Without translators requested

**Italian (it)** 0 strings to translate 27,381 strings to review ready for use

**German (de)** 58 strings to translate 27,323 strings to review View resources Translate

**Japanese (Japan) (ja\_JP)** 54 strings to translate 27,327 strings to review

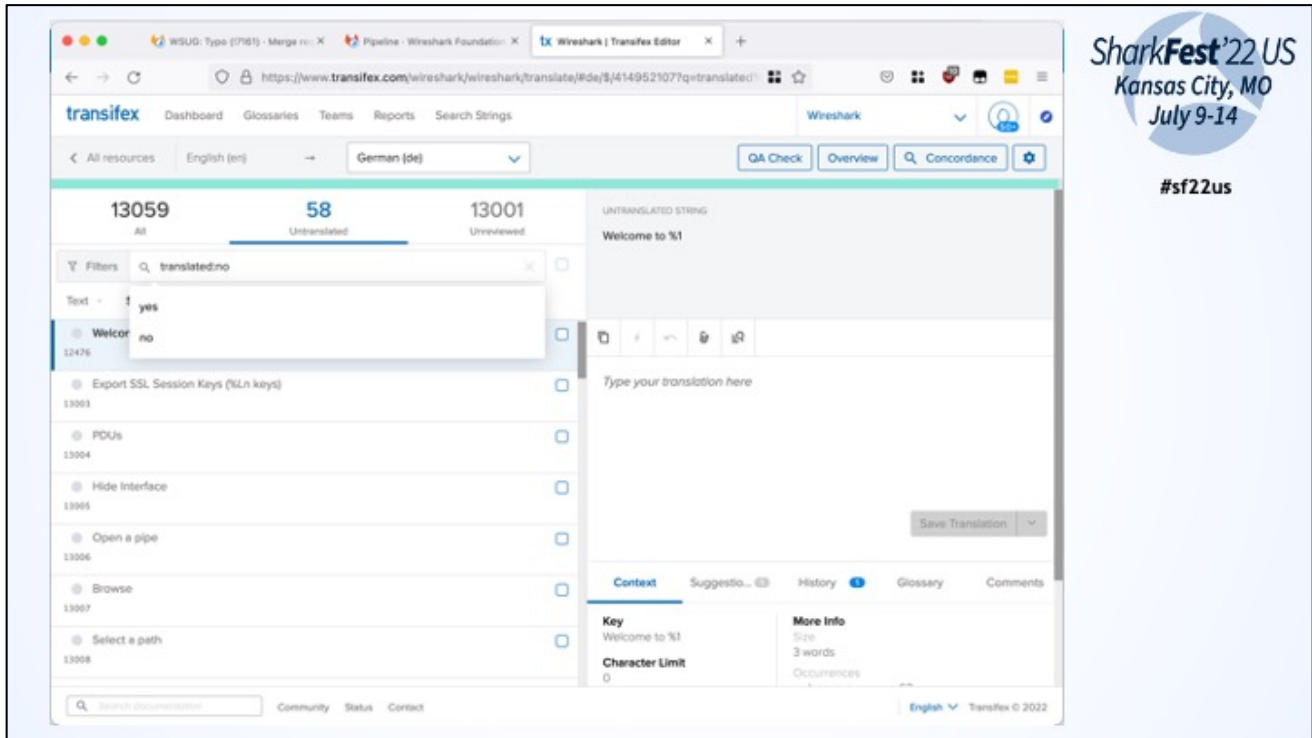
**Turkish (Turkey) (tr\_TR)** 5 strings to translate 27,376 strings to review

**Russian (ru)** 369 strings to translate 27,052 strings to review

[https://www.transifex.com/wireshark/wireshark/translate/#\(de\) \(China\) \(zh\\_CN\) 2,276 strings to translate 25,305 strings to review](https://www.transifex.com/wireshark/wireshark/translate/#(de) (China) (zh_CN) 2,276 strings to translate 25,305 strings to review)

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Use all resources and filter for untranslated

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Minor context to source code for the term to translate  
Some terms have two variants (One item / multiple items)

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# DEMO

## ● Translation

- [www.transifex.com/wireshark/wireshark](https://www.transifex.com/wireshark/wireshark)
- Login or create account
- Request access to edit language
- Translation for some languages have been started but haven't been finished yet:
  - Chinese, Polish, French, Swedish, Spanish, Korean, Ukrainian



Ask.wireshark.org: QA site similar to Stack Exchange



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The image shows a screenshot of a web browser displaying the Wireshark Q&A login page. The browser's address bar shows the URL <https://ask.wireshark.org/account/signin/?next=/>. The page features the Wireshark logo at the top left and navigation links for 'tags', 'users', 'logins', and 'help' at the top right. Below the logo is a search bar with the text 'ALL UNANSWERED' and a placeholder 'Search or ask your question'. The main content area is titled 'Please click any of the icons below to sign in' and contains several social media and service icons: Facebook, Fedora, Launchpad, OpenID, and OpenStack. Below these icons, there is a section for logging in with a username and password, a 'Sign in' button, and a link to 'Create a password-protected account'. At the bottom of the login section, there is a 'Having trouble signing in?' section with an 'Enter your email' field and a 'Recover account' button. The footer of the page includes links for 'about', 'faq', 'help', 'privacy policy', and 'terms of service', along with copyright information for the Wireshark Foundation (2017-2020) and a Creative Commons Attribution-ShareAlike 3.0 license. A blue circular logo for 'SharkFest'22 US' is overlaid on the right side of the screenshot, with the text 'Kansas City, MO' and 'July 9-14' inside it, and the hashtag '#sf22us' below it.

To ask, comment and answer create account or login with a federation id

Questions - Ask Wireshark

https://ask.wireshark.org/questions/scope:unanswered/sort:age-desc/

WIRESHARK

tags users badges

UI (karma: 1113, badges: 1 24 22) sign out help

ALL UNANSWERED FOLLOWED Search or ask your question

4663 questions Sort by date activity answers votes RSS

ASK YOUR QUESTION

Save the dates! Sharkfest '22 US will be held July 9-14, 2022.

Ask and answer questions about Wireshark, protocols, and Wireshark development. Older questions and answers from October 2017 and earlier can be found at [oldask.wireshark.org](https://oldask.wireshark.org).

Tag search

Interesting tags

Ignored tags

Show only questions from

show all tags

exclude ignored tags

only interesting tags

Tags

Filtering ethercat packets: trying to see a distributed clock  
 ethercat distributed clock 0 votes 0 answers 2 views 2 hours ago r0b4321

Sampled Values (Current and Voltage Values)  
 SAMUJAMU01 0 votes 0 answers 5 views 59 mins ago emaynard

blocking some RPC traffic  
 0 votes 0 answers 8 views 4 hours ago maxcoder88

Decrypt of WPA2 doesn't work  
 0 votes 0 answers 9 views 13 hours ago doohwanseo

How to export part of a TCP stream to a .pcapng file?  
 wireshark 0 votes 1 answer 23 views 25 mins ago Jim Anagon

Wireshark multiple files bug ?  
 0 votes 1 answer 16 views Jun 16 '22 Oluoke

tshark: why is -p (no promiscuous mode) not working for me?  
 tshark promiscuous 0 votes 0 answers 18 views Jun 17 '22 bres

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 [ask.wireshark.org](https://ask.wireshark.org)

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- ⦿ Use it to ask and answer questions for how to ...
- ⦿ Like Stack Overflow

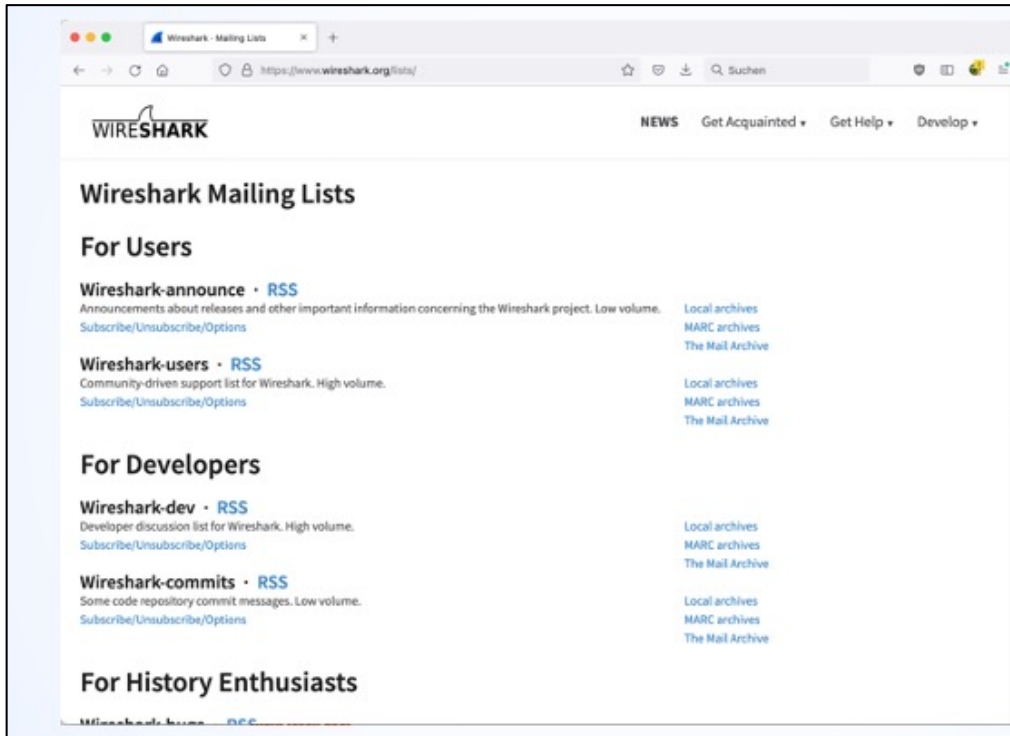


Mailing lists: Write an email, everyone who has subscribed to it will receive it and can answer it.

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Wireshark-users for normal user questions

## Mailinglists

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- [www.wireshark.org/lists](http://www.wireshark.org/lists)
- Wireshark-users
- Wireshark-announce





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@wocintechchat, unsplash.com

Discord



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<https://discord.gg/ts9GZCjGj5>

Discord server like we have it for this conference.  
Like Slack or Teams to discuss WS related topics



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CC0, Timo Klostermeier, ccnull.de

You (or your company) can become a sponsor.  
There will be an announcement at the end of 2022/beginning of 2023

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Ways to contribute:  
Wiki  
Issues (Bugs/FeatureRequests)  
WSUG  
ask.wireshark.org  
Discord  
Mailinglist  
...

Take aways

## ● Accounts and federations

- GitLab
  - for Wiki, feature requests, bug reports, WSUG
  - Account can be linked to Google, Github, Twitter, Bitbucket and Salesforce
- Transifex
  - for Translation
  - Account can be linked to Google, Github, LinkedIn
- ask.wireshark.org
  - Account can be linked to Facebook, Fedora, Launchpad, OpenID and openstack

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● Questions?



@pizza\_4u   
@uhei@chaos.social 

Questionmark: CC BY SA 3.0, Nevil Dilmen, commons.wikimedia.org