



**The Free and Open Source
Electronic Lab Notebook**

Summary

- Why use an electronic lab notebook?
- Why use an open source solution?
- Why use eLabFTW?
- Why use Deltablot hosting?

Why use an ELN?

Problem:

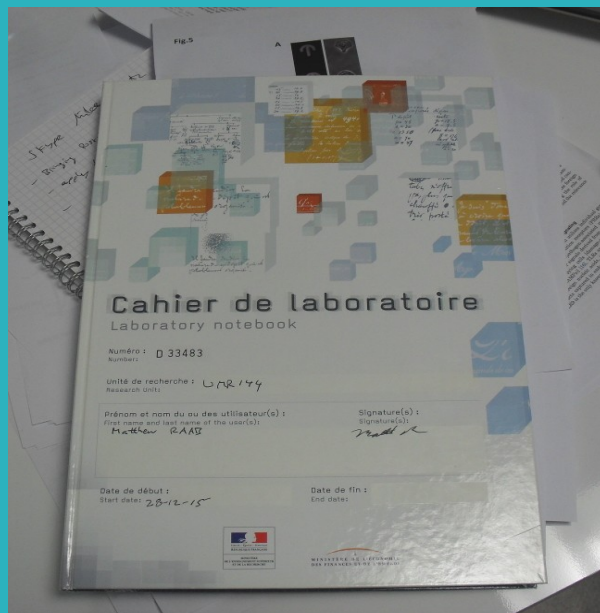
Need to store metadata of experiments (what, when, where, who, why, how)

Why use an ELN?

Problem:

Need to store metadata of experiments (what, when, where, who, why, how)

Solution:

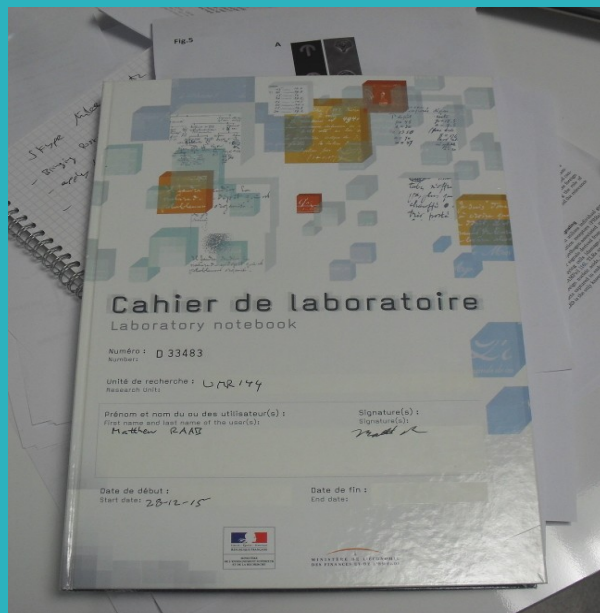


Why use an ELN?

Problem:

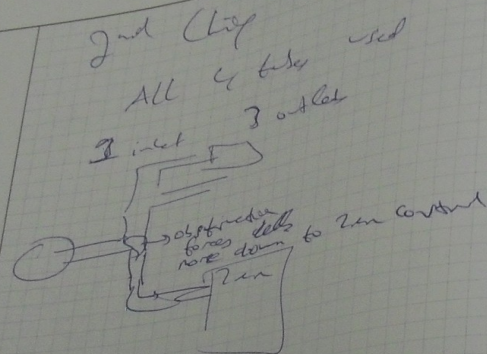
Need to store metadata of experiments (what, when, where, who, why, how)

Solution:



Limitations:

- Can be lost or burned
- No backups
- Often empty
- Not readable by others easily
- Can't search for something
- Can't input digital data



Essentially went
to 2nd bar.

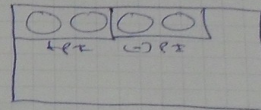
Raised to inside network for test,
then every few min bring
down to mix via 2nd bar

- Problem!
- ① cells not getting into
tubes in outlets, I think
they are stuck here
 - ② cells in LTR are
leaking from RT?

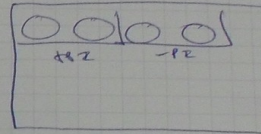
Hard to read

26 Aug 2016
Testing Cell Death ^{HP-9} _{cells}

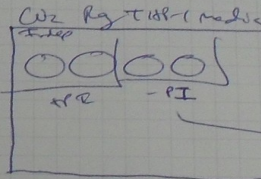
20K cells



37°C 5% CO₂



37°C No CO₂



250 No CO₂

Add PR next day
waited 15 min, then image
dead cells

Fragile every 1-2 hrs, then test all
3 in incubator O/N. I'm used
again next day.

Conclusion → PR in media (2mg/ml)

Kills cells after a few hours.
Not 1-2 hrs, but 3-5 hours

- CO₂ Free media improves
things a bit, but RT really isn't
so bad for cells

Table of Contents

Page

Table of Contents

Page

No index



No search

Now you want to use an ELN

Problem:

Which one?

“Should we use the free solutions out there?”

“But if it’s free, it means we are the product, right?”

“Those privacy policies mention too many times the word “marketing” to my taste”

Real world example from a commercial ELN:

tracking email invitations you send; and otherwise supporting your use of the Site. We may use your personal data for target advertising toward you based on things such as region, gender, position, interests, goals, habits, etc. and in order to meet legal obligations.

Now you want to use an ELN

Problem:

Which one?

“But should I give all my research results to a foreign company on which I have no control?”

“What happens if that company gets bought by a foreign consortium?”

“What happens to my data if that company closes”

Now you want to use a free and open source ELN

Problem:

Which one?

Well, eLabFTW of course!

It's the most popular, versatile, modern, and secure ELN out there!* ;)

*source: me

eLabFTW



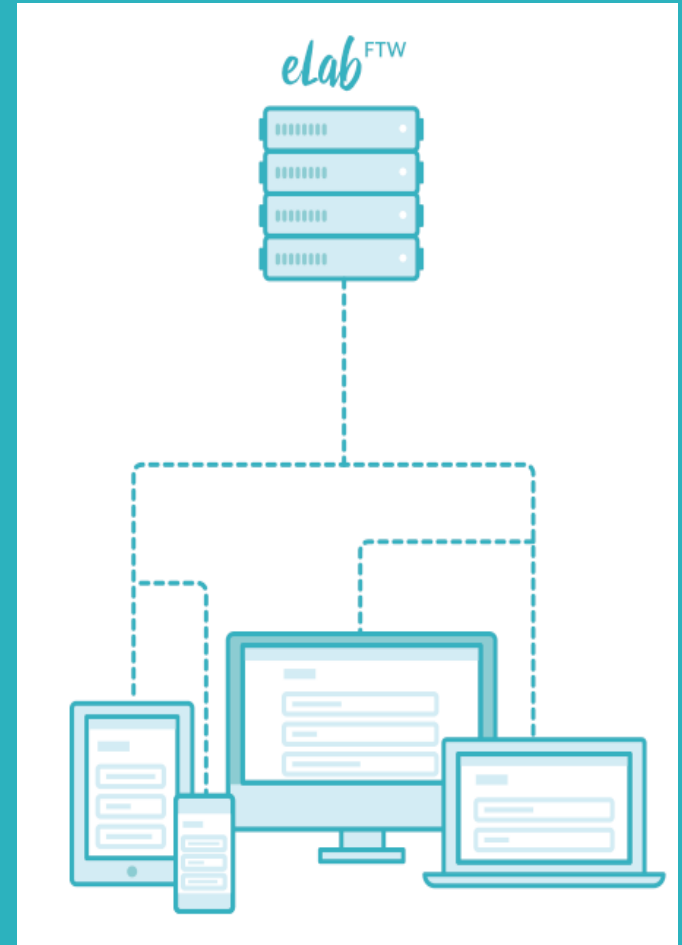
- Developed since 2012
- Free as in beer
- Free as in speech
- 600+ stars on GitHub
- Vibrant users community contributing to the software
- Modern codebase and interface
- Has all features you might expect and then some
- Secure
- Popular all over the world
- Made in France
- Recommended by CNRS

eLabFTW: key features

Web based

No client to install

Responsive design
(works with all screen
sizes)



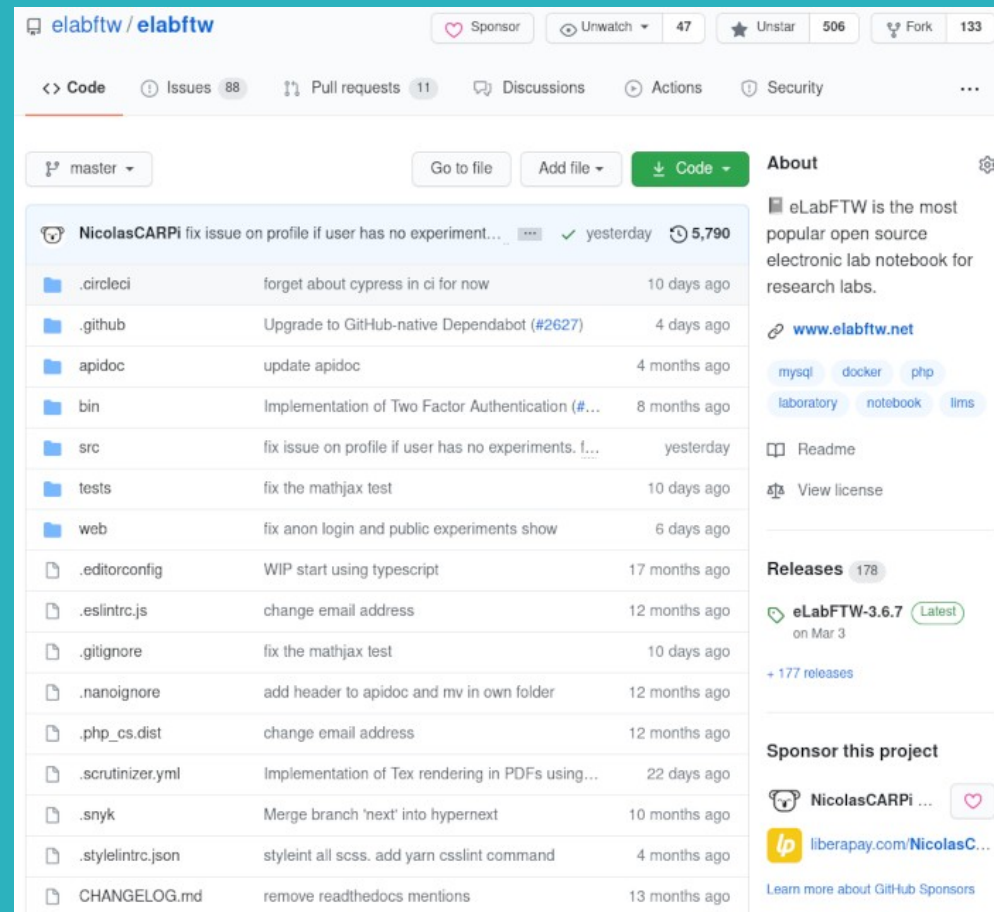
eLabFTW: key features

Completely Open Source

Access to the source code is immediate

Users contributions are welcome

Great community of users: ongoing discussions and contributions for the future of lab notebooks and eLabFTW



eLabFTW: community driven development

<input type="checkbox"/>	71 Open 214 Closed	Author ▾	Label ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	Allow sysadmin to define default items types for new teams feature request priority:low #2659 opened 11 hours ago by NicolasCARPI					
<input type="checkbox"/>	Table of Contents in Experiments from headings feature request priority:low #2645 opened 4 days ago by mpanighel					1
<input type="checkbox"/>	Accessibility statement feature request priority:low #2643 opened 6 days ago by JariHanninen					1
<input type="checkbox"/>	Add last_used timestamp to api key feature request priority:low #2628 opened 8 days ago by NicolasCARPI					
<input type="checkbox"/>	More granular permissions management feature request #2581 opened on Apr 6 by shabihsherjeel 0 of 1					1
<input type="checkbox"/>	New interface for storage applications: linking large datasets to experiments (database etc.) feature request #2547 opened on Mar 16 by m6121					4
<input type="checkbox"/>	Get User Information via API (add /users endpoint) feature request priority:medium #2522 opened on Mar 2 by m6121					1
<input type="checkbox"/>	Add a button for steps: add in text at cursor position feature request priority:low #2407 opened on Jan 7 by NicolasCARPI					
<input type="checkbox"/>	Allow selecting teams for visibility, not either org or own team, but specific teams feature request #2402 opened on Jan 6 by Aveyron-RetD 1 of 1					3
<input type="checkbox"/>	Bind an event to a database item feature request priority:high #2366 opened on Dec 14, 2020 by JuulGeb					
<input type="checkbox"/>	Display the visibility and editing restriction via symbols feature request #2365 opened on Dec 14, 2020 by JuulGeb					
<input type="checkbox"/>	Idap anonymous binding feature request priority:high #2358 opened on Dec 8, 2020 by mestia					2
<input type="checkbox"/>	Add colors/groups to tags feature request priority:low #2356 opened on Dec 8, 2020 by Paofec					3

eLabFTW: key features

- Trusted timestamping (RFC 3161)
- Blockchain timestamping
- API access
- SAML/LDAP authentication
- Templates for experiments
- Database for products/protocols
- Export in ZIP, PDF, CSV, JSON
- QR codes
- Molecule editor
- Todolist
- Tex rendering
- Very customizable
- Translated in 17 languages

eLabFTW: key features

For research centers/universities

- Host it on your network
- Centralize your results on one server
 - No data gets lost if a laptop of a postdoc is stolen
 - Several teams can be hosted on the same instance
 - You stay in control of your data at all times

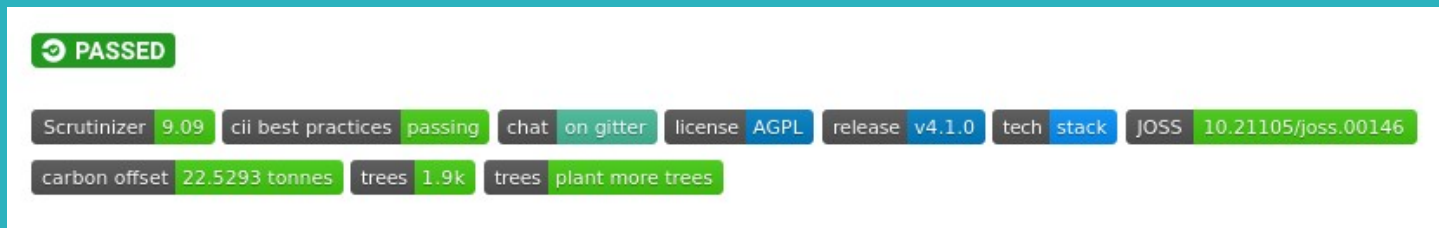
eLabFTW: key features

For startups/companies

- Strictly no data leaking to third parties
- Confidentiality is guaranteed
- You stay in control of your data at all times
- Highly customizable

eLabFTW: quality software

- Test suite (unit, end-to-end, static analysis)
- Respects code standards
- Best practices followed
- Modern tooling used



eLabFTW: secure software



- Tight and secure configuration at different levels
- Vulnerability scans
- Signed releases
- Perfect score on Mozilla's Observatory

eLabFTW: secure software

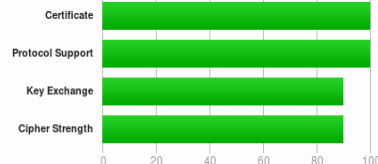
SSL Report: demo.elabftw.net (2001:bc8:31d5:100:0:0:0:1)

Assessed on: Tue, 21 May 2019 22:46:39 UTC | **HIDDEN** | [Clear cache](#)

[Scan Another »](#)

Summary

Overall Rating



Source: [Mozilla's Observatory](#)

Scan Summary



Host: demo.elabftw.net

Scan ID #: 19066810 (unlisted)

Start Time: May 8, 2021 9:19 PM

Duration: 6 seconds

Score: 115/100

Tests Passed: 11/11

Security Report Summary



Site: <https://demo.elabftw.net/login.php>
















IP Address: 2001:bc8:31d5:100::1

Report Time: 21 May 2019 22:43:47 UTC

Headers:

✓ Strict-Transport-Security ✓ X-Frame-Options ✓ X-XSS-Protection ✓ X-Content-Type-Options
✓ Content-Security-Policy ✓ Referrer-Policy ✓ Feature-Policy

eLabFTW: secure software ... not like others...

Scan Summary  Host: ny.labguru.com Scan ID #: 10882470 Start Time: May 22, 2019 12:04 PM Duration: 1 seconds Score: 20/100 Tests Passed: 6/11	Scan Summary  Host: www.docollab.com Scan ID #: 10882496 Start Time: May 22, 2019 12:11 PM Duration: 2 seconds Score: 35/100 Tests Passed: 6/11	Scan Summary  Host: www.eclabnote.com Scan ID #: 10882493 Start Time: May 22, 2019 12:11 PM Duration: 2 seconds Score: 0/100 Tests Passed: 5/11	Scan Summary  Host: ny.scinote.net Scan ID #: 10882483 Start Time: May 22, 2019 12:08 PM Duration: 6 seconds Score: 75/100 Tests Passed: 10/11	Scan Summary  Host: eln.chemotion.net Scan ID #: 10882556 Start Time: May 22, 2019 12:19 PM Duration: 3 seconds Score: 45/100 Tests Passed: 9/11
Scan Summary  Host: exemplarln.com Scan ID #: 10882503 Start Time: May 22, 2019 12:12 PM Duration: 3 seconds Score: 15/100 Tests Passed: 5/11	Scan Summary  Host: labcollector.com Scan ID #: 10882563 Start Time: May 22, 2019 12:21 PM Duration: 19 seconds Score: 0/100 Tests Passed: 3/11	Scan Summary  Host: openware.org Scan ID #: 10882490 Start Time: May 22, 2019 12:10 PM Duration: 2 seconds Score: 45/100 Tests Passed: 8/11	Scan Summary  Host: osf.io Scan ID #: 10882485 Start Time: May 22, 2019 12:09 PM Duration: 2 seconds Score: 10/100 Tests Passed: 7/11	Scan Summary  Host: www.labiapp Scan ID #: 10882569 Start Time: May 22, 2019 12:22 PM Duration: 3 seconds Score: 80/100 Tests Passed: 10/11
Scan Summary  Host: www.benchling.com Scan ID #: 10882521 Start Time: May 22, 2019 12:16 PM Duration: 2 seconds Score: 35/100 Tests Passed: 6/11	Scan Summary  Host: app.labstep.com Scan ID #: 10882589 Start Time: May 22, 2019 12:26 PM Duration: 4 seconds Score: 50/100 Tests Passed: 10/11	Scan Summary  Host: www.scilligence.com Scan ID #: 10882597 Start Time: May 22, 2019 12:28 PM Duration: 1 seconds Score: 0/100 Tests Passed: 5/11	Scan Summary  Host: www.labware.com Scan ID #: 10882601 Start Time: May 22, 2019 12:29 PM Duration: 6 seconds Score: 0/100 Tests Passed: 3/11	Scan Summary  Host: pillar.science Scan ID #: 10882612 Start Time: May 22, 2019 12:30 PM Duration: 1 seconds Score: 25/100 Tests Passed: 9/11

eLabFTW: supported software

Free support on GitHub

PRO support available from Deltablot

Hosting available from Deltablot

<https://www.deltablot.com>

contact@deltablot.email



eLabFTW: get hosted!



Hosting a web service can be tricky if you don't have the right knowledge.

HSTS, SSH, TLS, CSP, Docker, Nginx, Backups, updates, protecting against threat actors, staying online...

Don't worry about all of that, and use Deltablot's hosting!

[See Deltablot hosting solution](#)

Get in touch:
contact@deltablot.email

eLabFTW: links

Main website: <https://www.elabftw.net>

Documentation: <https://doc.elabftw.net>

Live demo: <https://demo.elabftw.net>

Source code: <https://github.com/elabftw/elabftw>

Commercial website: <https://www.deltablot.com/elabftw>