



**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:

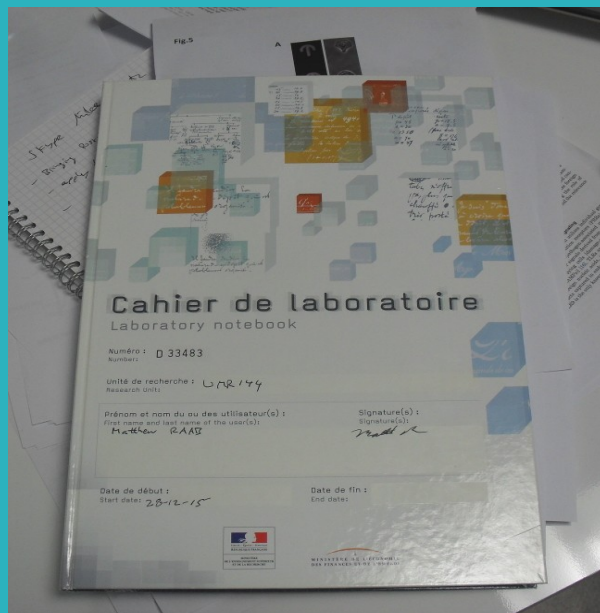
Need to store metadata of experiments (what, when, where, who, why, how)

Why use an ELN?

Problem:

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

Solution:

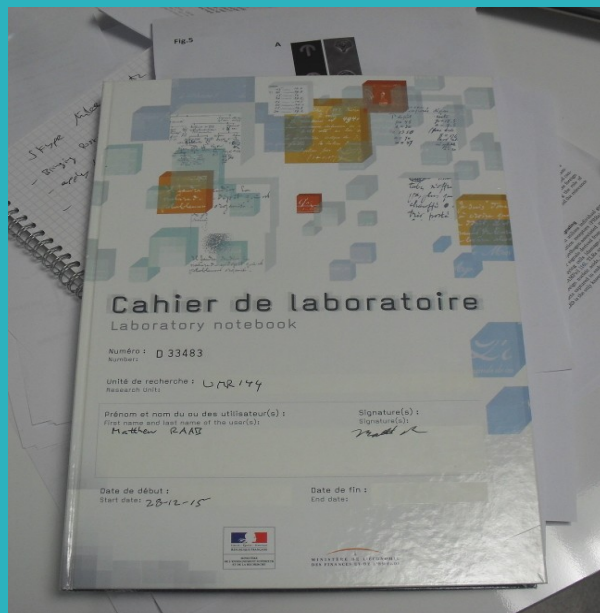


Why use an ELN?

Problem:

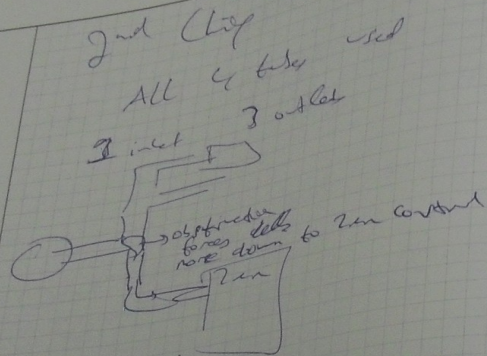
Need to store metadata of experiments (what, when, where, who, why, how)

Solution:



Limitations:

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



Essentially went
to 2nd clip.

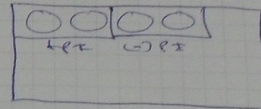
Raised to inside mixture for test,
then every few min bring
down to mix via stir bar

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

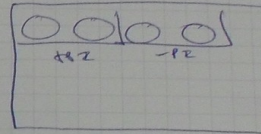
Hard to read

26 Aug 2016
Testing Cell Death ^{THP-1 cells}

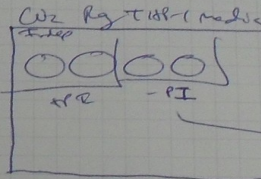
20K cells



37°C 5% CO₂



37°C No CO₂



250 No CO₂

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

Image every 1-2 hrs, then test all
3 in incubator O/N. I'm going
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

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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”

“What do you mean by using machine learning on my data????”

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

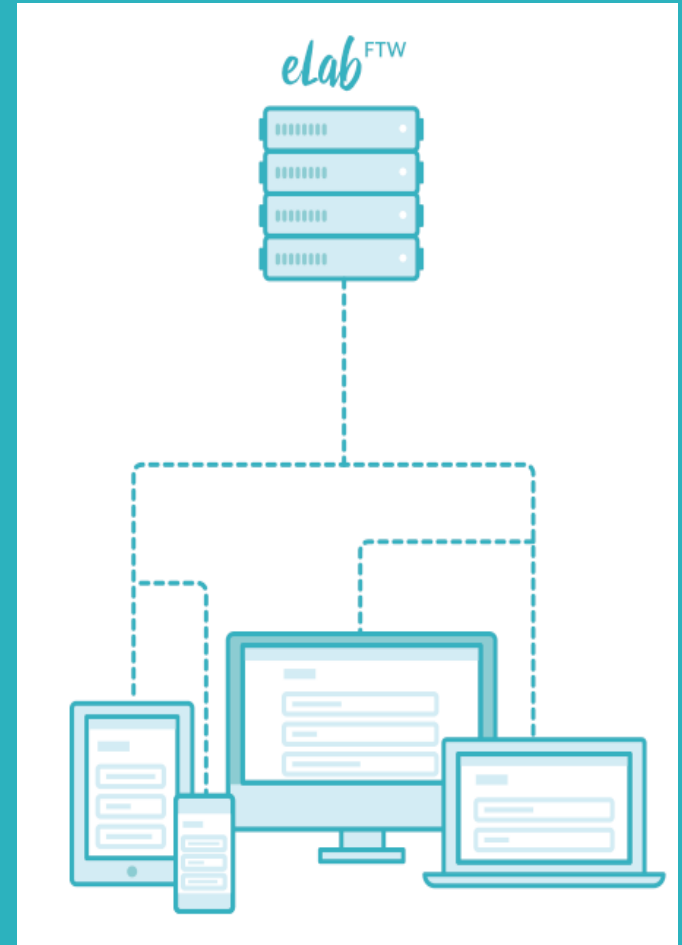
- Developed since 2012
- Free as in beer
- Free as in speech
- 500+ stars on GitHub
- Vibrant users community contributing to the software
- Modern codebase and interface
- Has all features you might expect and then some
- Secure
- Popular all over the world

eLabFTW: key features

Web based

No client to install

Responsive design
(works with all screen
sizes)



eLabFTW: key features

Open source

Access to the source code is immediate

Users contributions are welcome

The screenshot displays the GitHub repository for eLabFTW. At the top, the repository name 'elabftw / elabftw' is shown with statistics: 47 sponsors, 506 unstars, and 133 forks. Navigation tabs include Code, Issues (88), Pull requests (11), Discussions, Actions, and Security. Below the repository name, there are buttons for 'Go to file', 'Add file', and 'Code'. The main content area lists files and folders with their commit messages and timestamps. A sidebar on the right provides an 'About' section, a 'Releases' section, and a 'Sponsor this project' section.









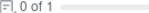















File/Folder	Commit Message	Time Ago
.circleci	forget about cypress in ci for now	10 days ago
.github	Upgrade to GitHub-native Dependabot (#2627)	4 days ago
apidoc	update apidoc	4 months ago
bin	Implementation of Two Factor Authentication (#...	8 months ago
src	fix issue on profile if user has no experiments. f...	yesterday
tests	fix the mathjax test	10 days ago
web	fix anon login and public experiments show	6 days ago
.editorconfig	WIP start using typescript	17 months ago
.eslintrc.js	change email address	12 months ago
.gitignore	fix the mathjax test	10 days ago
.nanoignore	add header to apidoc and mv in own folder	12 months ago
.php_cs.dist	change email address	12 months ago
.scrutinizer.yml	Implementation of Tex rendering in PDFs using...	22 days ago
.snyk	Merge branch 'next' into hypernext	10 months ago
.stylelint.json	stylelint all scss. add yarn csslint command	4 months ago
CHANGELOG.md	remove readthedocs mentions	13 months ago

About
eLabFTW is the most popular open source electronic lab notebook for research labs.
www.elabftw.net
mysql docker php laboratory notebook lms

Releases 178
eLabFTW-3.6.7 Latest
on Mar 3
+ 177 releases

Sponsor this project
NicolasCARPi ...
liberapay.com/NicolasC...
Learn more about GitHub Sponsors

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
- Molecule editor
- Todolist
- Tex rendering
- Very customizable
- Translated in 17 languages

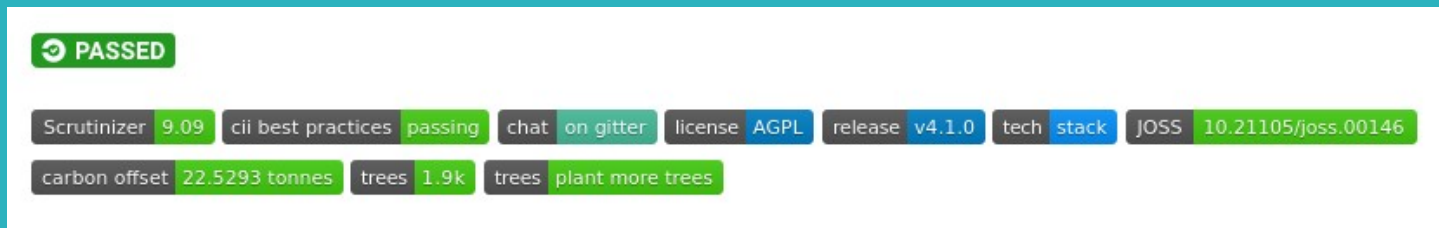
eLabFTW: key features

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: 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, etc...

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>