



**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:

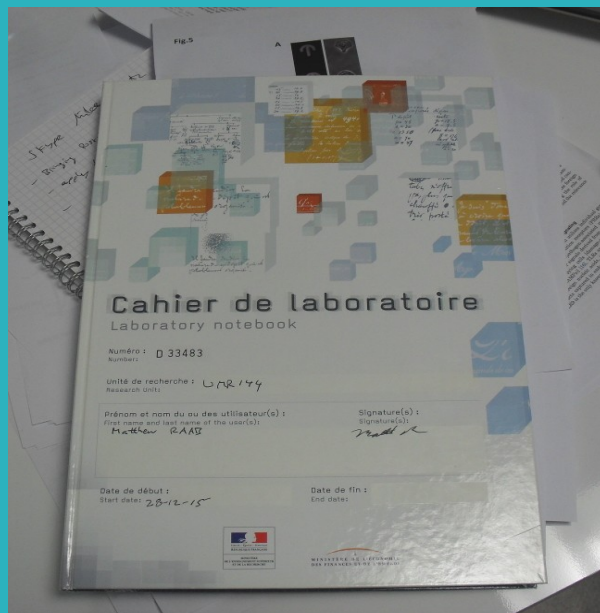
Need to store metadata of experiments (what, when, where, who, why, how)

Why use an ELN?

Problem:

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

Solution:

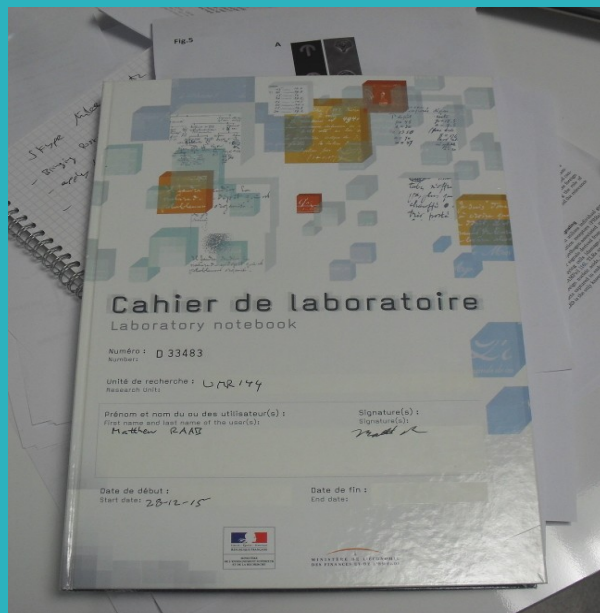


Why use an ELN?

Problem:

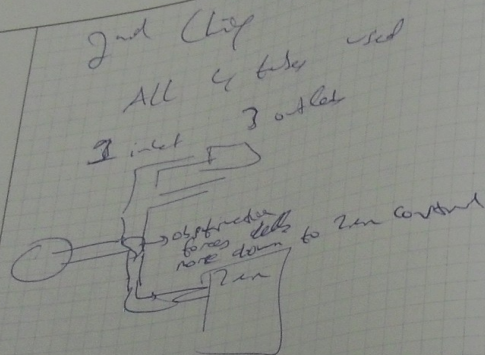
Need to store metadata of experiments (what, when, where, who, why, how)

Solution:



Limitations:

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

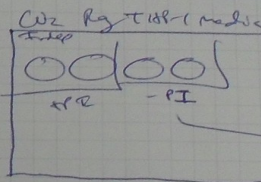
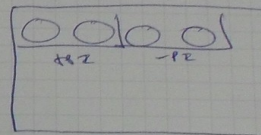
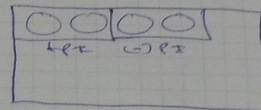


Eventually went
to 200 bar.

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

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

26 Aug 2016
Testing Cell Death + RT
20K cells



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

Table of Contents

Page

Table of Contents

Page

$$V = \text{const}$$

(5000)

Po



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”

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 Chinese 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 one and the most flexible, modern and fast ELN out there!* ;)

*source: me

eLabFTW

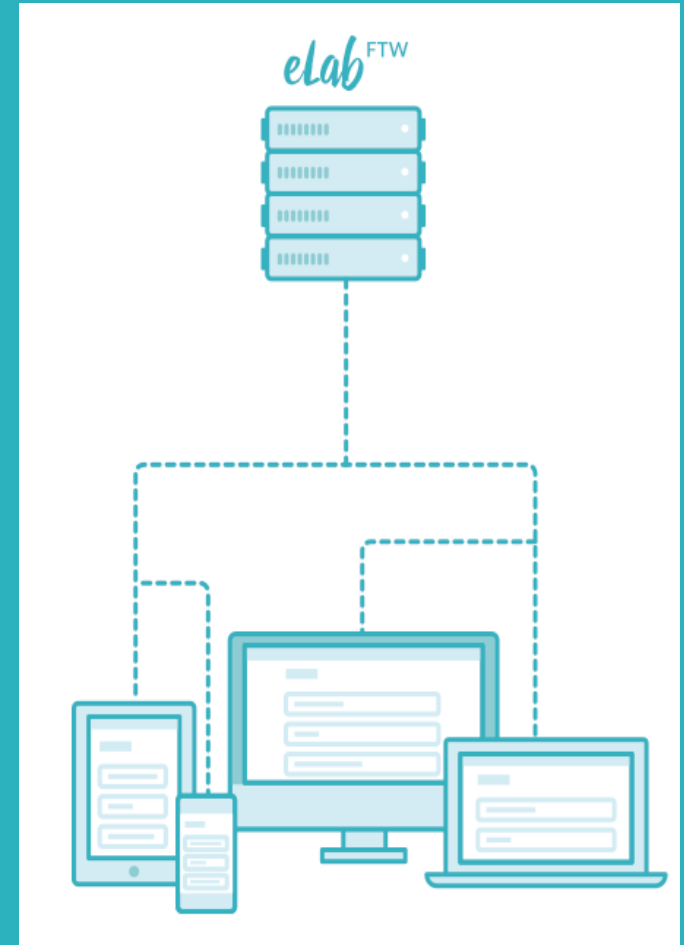
- Developed since 2012
- Free as in beer
- Free as in speech
- 350+ stars on GitHub
- Vibrant users community contributing to the software
- Modern
- Has great features
- Secure
- Popular all over the world

eLabFTW: key features

Web based

No client to install

Responsive design
(works with all screen
sizes)

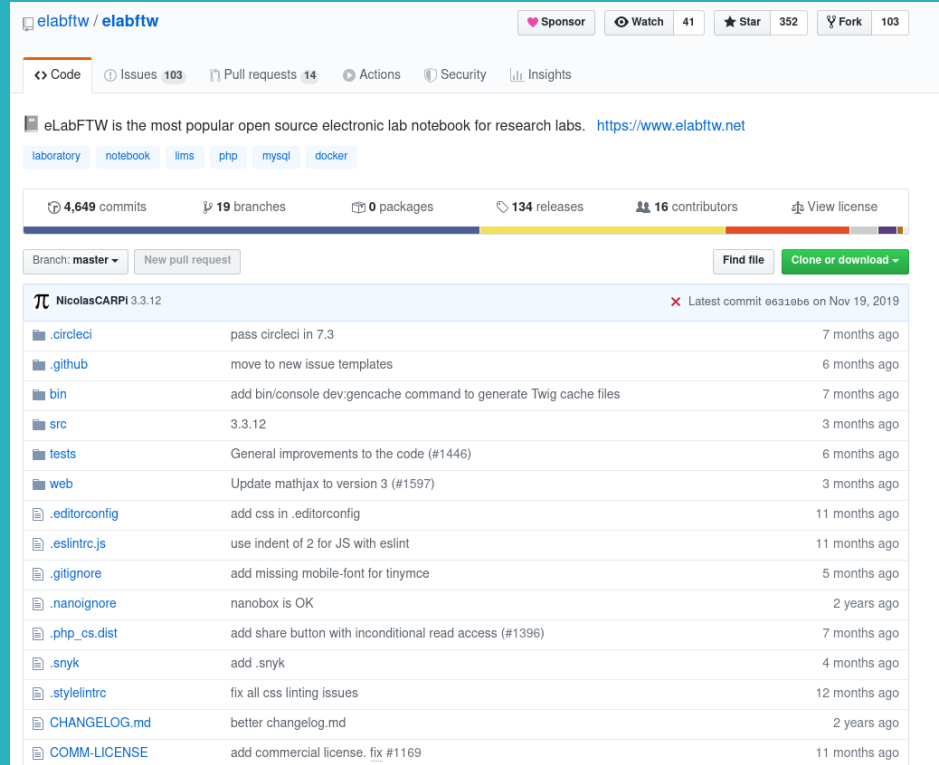


eLabFTW: key features

Open source

Access to the source code is immediate

Users contributions are welcome


























A good read: [The closed source sustainability crisis](#)

eLabFTW: key features

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

eLabFTW: community driven development

<input type="checkbox"/>	 Auto logout afer x min of inactivity feature request	 1
	#1558 opened 22 days ago by Aveyron-RelD	
<input type="checkbox"/>	 Keyboard shortcuts in TinyMCE editor feature request	 1
	#1556 opened 23 days ago by squirrel198	
<input type="checkbox"/>	 Add status select on zip import feature request	
	#1538 opened on Oct 2 by NicolasCARPi	
<input type="checkbox"/>	 Add backup in API feature request	
	#1534 opened on Sep 30 by NicolasCARPi	
<input type="checkbox"/>	 Add mysql port config and tls with path to cert feature request	 1
	#1498 opened on Sep 5 by NicolasCARPi	
<input type="checkbox"/>	 Integration of a "follow this experiment" button feature request	 1
	#1496 opened on Sep 4 by AlfredoCampari	
<input type="checkbox"/>	 In the model items categories allow steps to be prefilled feature request	 1
	#1495 opened on Sep 3 by Aveyron-RelD	
<input type="checkbox"/>	 keep the filter enabled when navigating to and back from an experience or database item feature request	 5
	#1494 opened on Sep 3 by Aveyron-RelD	
<input type="checkbox"/>	 Suggestion: add folder hierarchy feature request	 7
	#1471 opened on Aug 22 by andrewjho	
<input type="checkbox"/>	 .json viewer / editor feature request	 1
	#1467 opened on Aug 20 by christophys	
<input type="checkbox"/>	 Sharing templates across different teams feature request	 3
	#1457 opened on Aug 15 by riefler	
<input type="checkbox"/>	 Modification Scheduler feature request	
	#1453 opened on Aug 13 by Benjamin218	
<input type="checkbox"/>	 Show linked database items too in 'show related' link feature request	 3
	#1432 opened on Jul 31 by Aveyron-RelD	

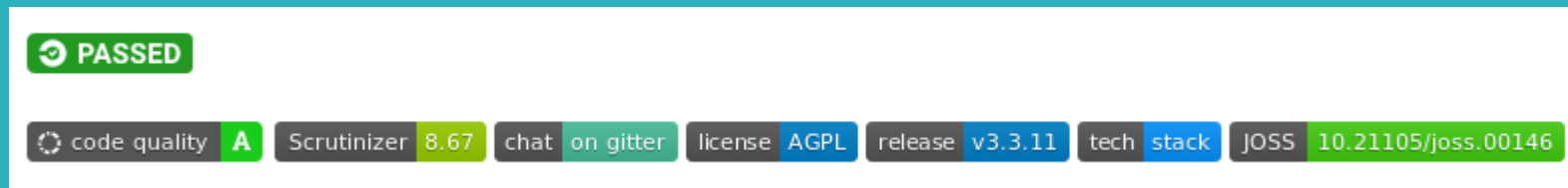
eLabFTW: key features

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

eLabFTW: quality software

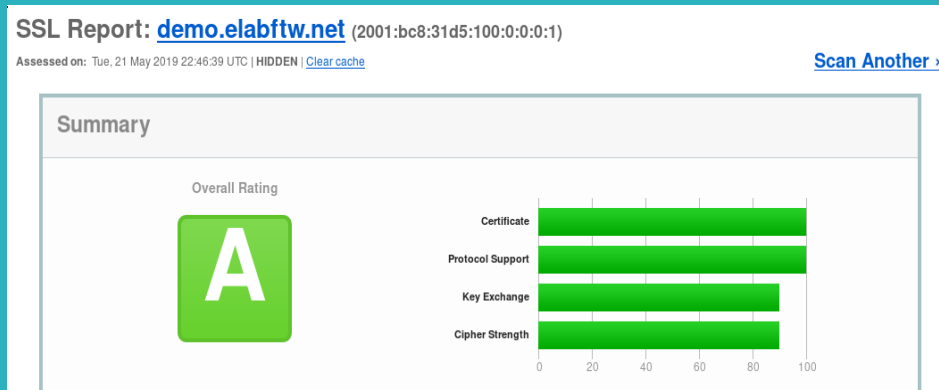
- Test suite (unit, acceptance, static analysis)
- Respects code standards
- Best practices followed
- Modern tooling used





eLabFTW: secure software

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
















eLabFTW: secure software



Scan Summary	
	Host: demo.elabftw.net
	Scan ID #: 10877555 (unlisted)
	Start Time: May 22, 2019 1:38 AM
	Duration: 4 seconds
Score: 110/100	
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.labi.app 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!

- PRO support included
- Daily backups
- Secure CentOS server (when I say secure I mean paranoid config)
- Free updates on new releases

Get in touch:
contact@deltablot.email