



# eLabFTW

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:

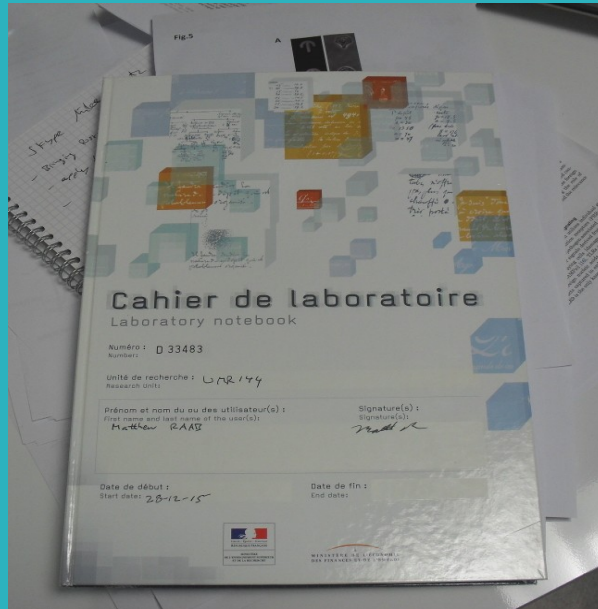
Need to store metadata of experiments (what, when, where, who, why, how)

# Why use an ELN?

Problem:

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

Solution:

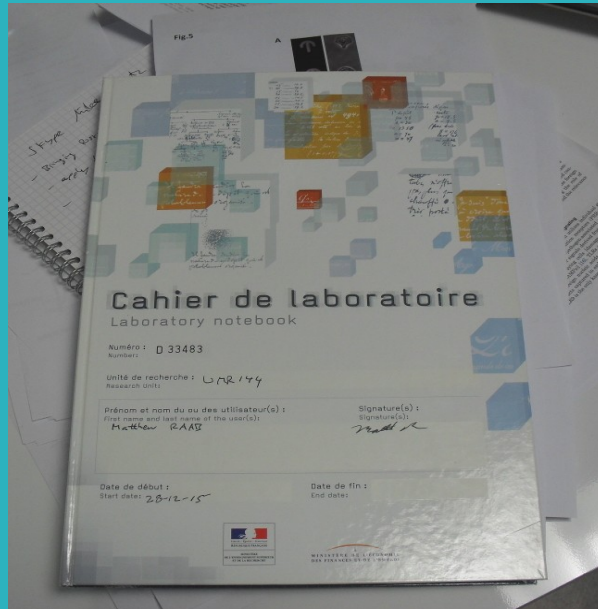


# Why use an ELN?

Problem:

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

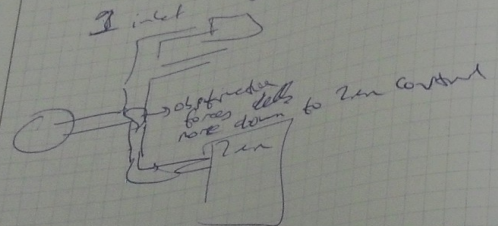
Solution:



Limitations:

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

2nd Clasp  
All 4 tubes used  
3 outlet



Essentially went to 2000bar.

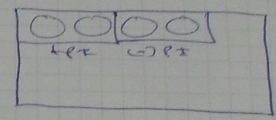
Raised to inside MEMCO for test, then every few min bring down to mix via stirrer

- Problem!
- ① cells not getting into tubes in outlet, I think they are stuck here
  - ② cells in left are dead from RT?

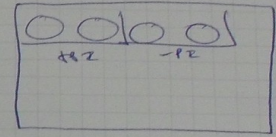
26 Aug 2016

### Testing Cell Death

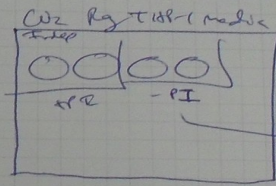
20k cells



37°C 5% CO<sub>2</sub>



37°C No CO<sub>2</sub>



250 No CO<sub>2</sub>

Added PI next day until 15 min, then image dead cells

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

Conclusion → PI in rebo- (2mg/ml)

Kills cells after a few hours

Not 1-2 hrs, but 3-5 hours

- CO<sub>2</sub> Frugal media improves things a bit, but RT really isn't so bad for cells



$V = \text{const}$

(500)

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# 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

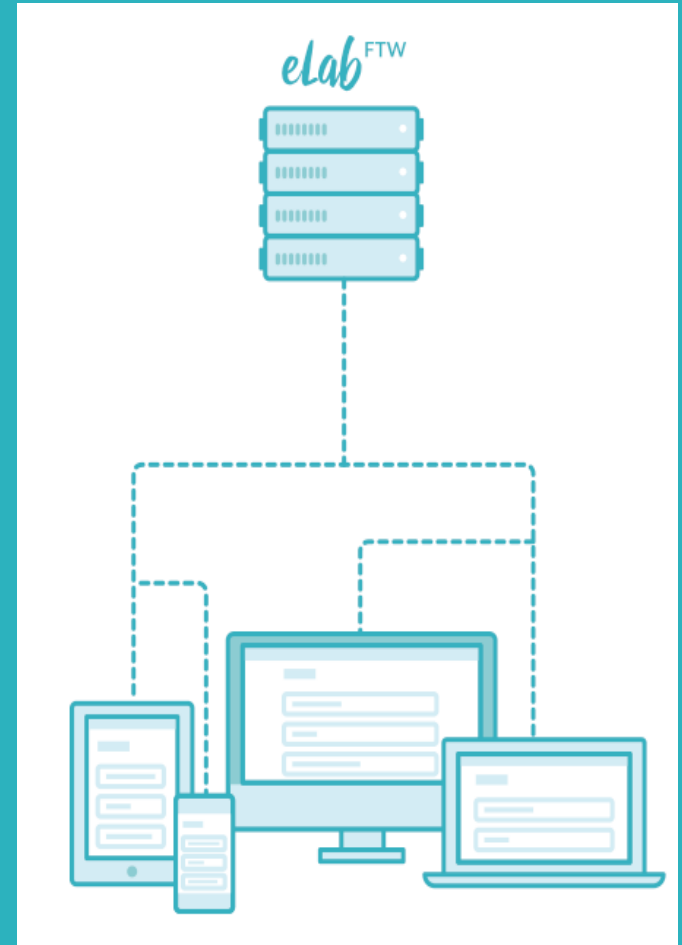
- Developed since 2012
- Free as in beer
- Free as in speech
- 420+ stars on GitHub
- Vibrant users community contributing to the software
- Modern
- Has great features
- Secure
- Popular all over the world

# eLabFTW: key features

Web based

No client to install

Responsive design  
(works with all screen  
sizes)

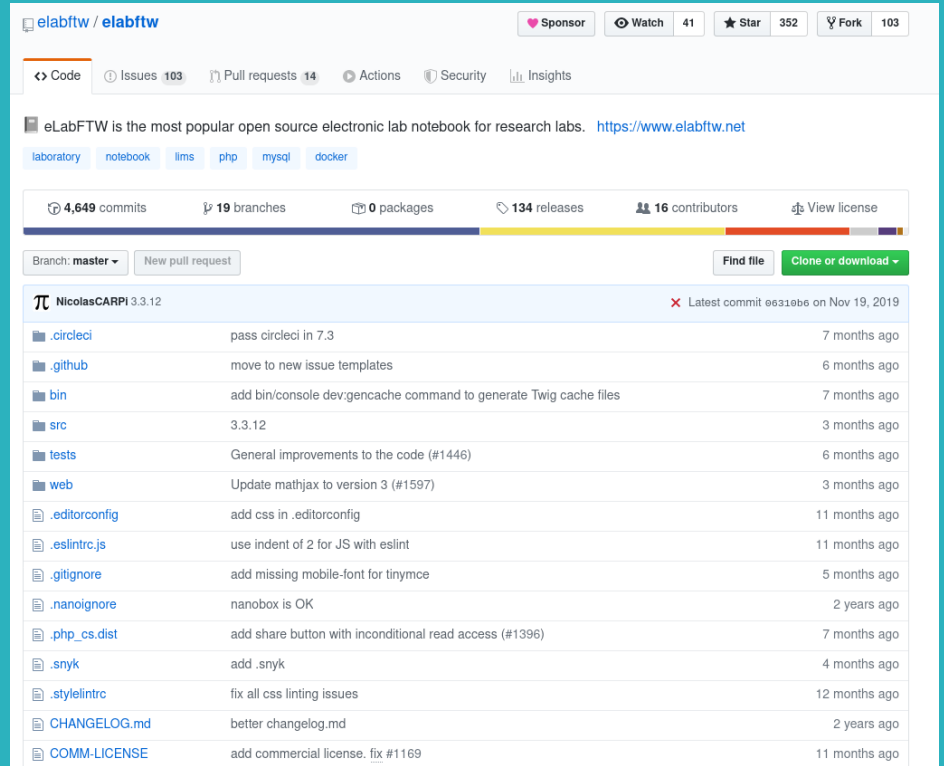


# eLabFTW: key features

Open source

Access to the source code is immediate

Users contributions are welcome



The screenshot displays the GitHub repository for eLabFTW. At the top, it shows the repository name 'elabftw / elabftw' with 41 watchers, 352 stars, and 103 forks. Below this, there are navigation tabs for Code, Issues (103), Pull requests (14), Actions, Security, and Insights. A description states 'eLabFTW is the most popular open source electronic lab notebook for research labs.' with a link to the website. There are also tags for 'laboratory', 'notebook', 'lims', 'php', 'mysql', and 'docker'. Statistics show 4,649 commits, 19 branches, 0 packages, 134 releases, and 16 contributors. A 'Clone or download' button is visible. The main content is a commit history table for the 'master' branch, showing recent updates by NicolasCARPI.

Commit	Message	Time
66310b6	pass circleci in 7.3	7 months ago
	move to new issue templates	6 months ago
	add bin/console dev.gencache command to generate Twig cache files	7 months ago
	3.3.12	3 months ago
	General improvements to the code (#1446)	6 months ago
	Update mathjax to version 3 (#1597)	3 months ago
	add css in .editorconfig	11 months ago
	use indent of 2 for JS with eslint	11 months ago
	add missing mobile-font for tinyMCE	5 months ago
	nanobox is OK	2 years ago
	add share button with unconditional read access (#1396)	7 months ago
	add .snyk	4 months ago
	fix all css linting issues	12 months ago
	better changelog.md	2 years ago
	add commercial license. fix #1169	11 months ago

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



# eLabFTW: community driven development

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

# 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: key features

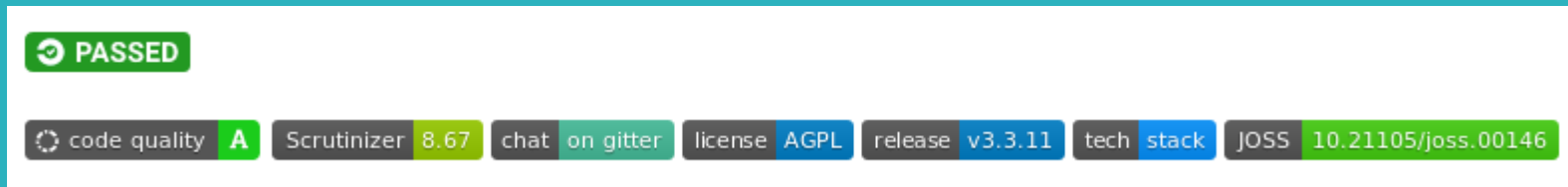
## For research centers/universities

- 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



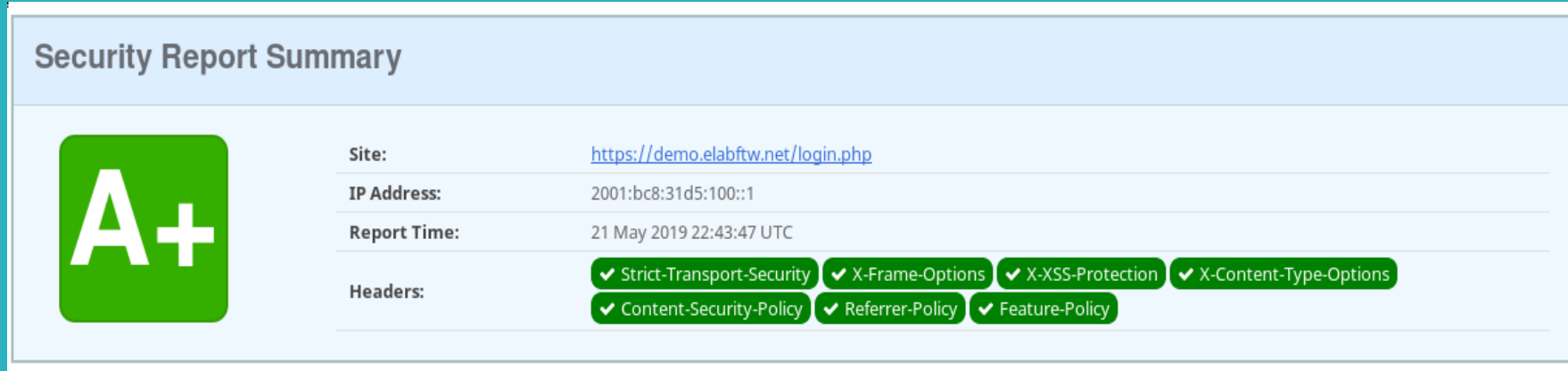
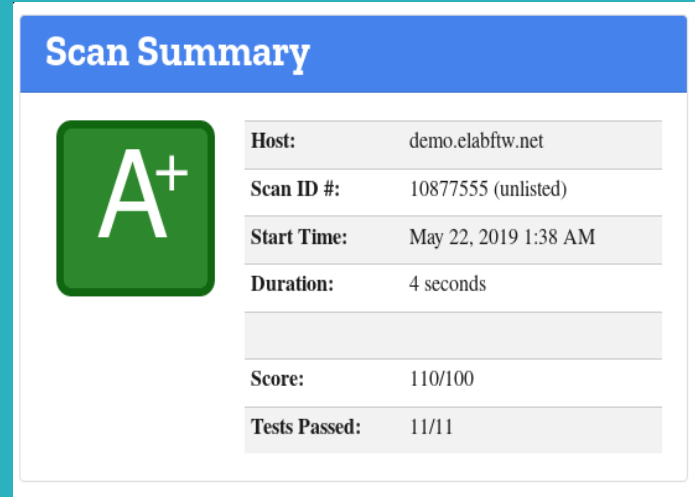
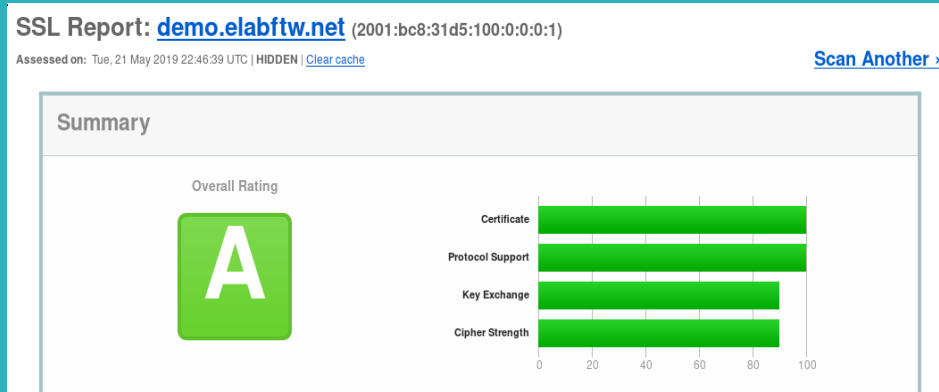
A horizontal dashboard showing quality assurance metrics. It features a green 'PASSED' status indicator at the top left. Below it, a row of seven colored boxes displays different metrics: 'code quality' with an 'A' grade, 'Scrutinizer' with a score of 8.67, 'chat' with 'on gitter', 'license' with 'AGPL', 'release' with 'v3.3.11', 'tech stack', and 'JOSS' with the identifier '10.21105/joss.00146'.

 PASSED													
 code quality	A	Scrutinizer	8.67	chat	on gitter	license	AGPL	release	v3.3.11	tech	stack	JOSS	10.21105/joss.00146

# eLabFTW: secure software

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

# eLabFTW: secure software





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

Scan Summary	Scan Summary	Scan Summary	Scan Summary	Scan Summary
<b>F</b> 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	<b>D</b> 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	<b>F</b> 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	<b>B</b> 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	<b>C<sup>-</sup></b> Host: etn.chemotion.net Scan ID #: 10882556 Start Time: May 22, 2019 12:19 PM Duration: 3 seconds Score: 45/100 Tests Passed: 9/11
<b>F</b> Host: exemplareln.com Scan ID #: 10882503 Start Time: May 22, 2019 12:12 PM Duration: 3 seconds Score: 15/100 Tests Passed: 5/11	<b>F</b> Host: labcollector.com Scan ID #: 10882563 Start Time: May 22, 2019 12:21 PM Duration: 19 seconds Score: 0/100 Tests Passed: 3/11	<b>C<sup>-</sup></b> Host: opennetware.org Scan ID #: 10882490 Start Time: May 22, 2019 12:10 PM Duration: 2 seconds Score: 45/100 Tests Passed: 8/11	<b>F</b> Host: os4io Scan ID #: 10882485 Start Time: May 22, 2019 12:09 PM Duration: 2 seconds Score: 10/100 Tests Passed: 7/11	<b>B<sup>+</sup></b> Host: www.labiapp Scan ID #: 10882569 Start Time: May 22, 2019 12:22 PM Duration: 3 seconds Score: 80/100 Tests Passed: 10/11
<b>D</b> 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	<b>C</b> 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	<b>F</b> 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	<b>F</b> 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	<b>D<sup>-</sup></b> Host: pillarscience 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



# Live debug session

