

ownCloud

Semester project for A4M35OSP



Oskar Hollmann

Open Informatics
Faculty of Electrical Engineering
CTU

May 14, 2014

OWNCLOUD – WHY SHOULD YOU CARE?



- ▶ founded in January 2014
- ▶ open-source cloud solution for individuals and companies
 - ▶ AGPLv3 and some parts under GPLv2
- ▶ alternative to Dropbox and most of Google Apps
- ▶ **standard-friendly**: CalDAV, CardDAV, WebDAV, Ampache
- ▶ can be run on-premise (but hosted solutions exist)



MORE ABOUT OWNCLLOUD

- ▶ file syncing, sharing and versioning (desktop sync client)
- ▶ web interface extensible with more apps
 - ▶ file manager, gallery, media player, calendar, IMAP client, ...

The screenshot shows the ownCloud web interface. The top navigation bar includes the ownCloud logo, a search bar, and the user profile 'Frank Karlitschek'. The main content area is titled 'photos' and contains a table of files:

Name	Size	Modified
paris.jpg	223.4 kB	6 minutes ago
san francisco.jpg	211 kB	6 minutes ago
squirrel.jpg	228.2 kB	6 minutes ago
Vacation notes	159 B	2 minutes ago
4 files	682.8 kB	

A context menu is open over the 'Vacation notes' file, showing two versions:

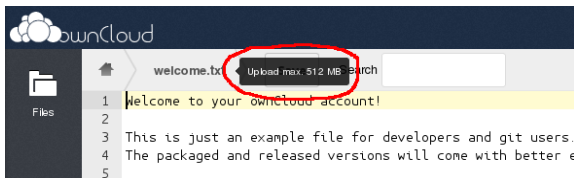
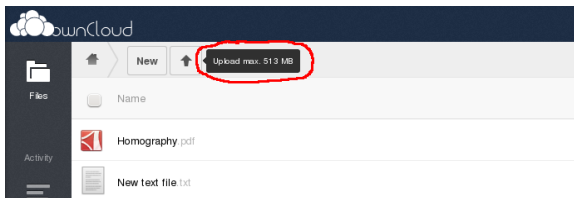
- 2 minutes ago (Restore)
- 4 minutes ago (Restore)

The left sidebar contains navigation icons for Files, Activity, Pictures, Contacts, Calendar, and Apps.



CHOSEN TASK

- ▶ issue #7461, a bugfix in **core** module
- ▶ tooltip “Upload max. 512MB” covers the progress bar
- ▶ stays in DOM even after opening any editor



EXPLORATION OF THE BUG

What was missing in the bug report:

1. The bug affects only Firefox, WebKit browsers are fine.
2. The tooltip stays displayed no matter what editor is open.

The displayed tooltip used from [tipsy](#) JQuery plugin.

- ▶ provides Facebook-style tooltip
- ▶ used by Twitter, GitHub, SlideShare, Bitbucket, . . .

Probable cause of the bug:

- ▶ Firefox did not fire the **onmouseout** event when the cursor went to the file selection dialog



SOLUTION

What had to be done to address the issue?

1. Explore the module responsible for file-uploads
 2. Locate the place where the tooltip should be closed to have the desired effect (the hard part)
 3. choose the cleanest way to remove the tooltip (i.e. explore the [tipsy](#) plugin)
- ▶ The task itself was fairly simple, but ownCloud is a project with large codebase and it takes time to get on board.



RESULT

- ▶ The patch was accepted and merged to the core repository.
 - ▶ after automatic testing and review by 3 other contributors

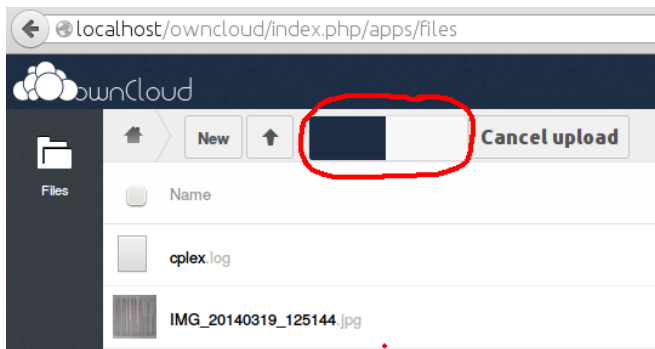


Figure : The tooltip no longer covers the progress bar.



COMMUNICATION WITH THE COMMUNITY

Pros:

- ▶ community provides helpful developer manual
- ▶ defines contribution guidelines
- ▶ uses **junior job** tag in bugtracker to indicate good starting points for contributing
- ▶ number of people active on IRC and willing to help
- ▶ there was nothing to complain about, the community does maximum to welcome new contributors

Cons:

- ▶ requires signing of a Contributor Agreement
- ▶ strict code quality checks and testing before merging (understandable)





Thank you for your attention.

- ▶ Any questions?