

# Hands-On with Archivematica and AtoM



Sara Allain and Dan Gillean  
VII Congresso Nacional de Arquivologia  
Fortaleza, BR – Oct 17, 2016

# Who are we?



Sara Allain, MI  
Systems Archivist



Dan Gilleen, MAS, MLIS  
AtoM Program Manager

# Today's Agenda

1. Introduction
2. Artefactual and Open Source
3. Coffee Break
4. Introduction to Archivematica
5. Archivematica Demonstration
6. Lunch
7. Introduction to AtoM
8. AtoM Demonstration
9. Break
10. Use Cases – Archivematica and AtoM
11. Final Questions and Conclusion

# Artefactual Systems

## and Open Source Development



Our Team, Our Philosophy, Our Vision

# What is Open Source?

Open Source Software (OSS) is computer software with its source code made available with a license in which the copyright holder provides the rights to study, change, and distribute the software to anyone and for any purpose.

-- Wikipedia, Oct 13 2016  
[https://en.wikipedia.org/wiki/Open-source\\_software](https://en.wikipedia.org/wiki/Open-source_software)

# What is Open Source?

1. Free redistribution
2. Source code
3. Allows derived works
4. Maintains author's source code integrity
5. No discrimination against persons or groups
6. No discrimination against fields of endeavor
7. Distribution of license
8. License must not be specific to a product
9. License must not restrict other software
10. License must be technology-neutral

Open Source Initiative



Open Source Definition

<https://opensource.org/osd>

# Open Source vs Free Software?

“The two terms describe almost the same category of software, but they stand for views based on fundamentally different values. Open source is a development methodology; free software is a social movement.”

-- Richard Stallman, “Why Open Source misses the point of Free Software.”  
<https://www.gnu.org/philosophy/open-source-misses-the-point.html>



# What is Free Software?

A program is free software if the program's users have the four essential freedoms:

1. The freedom to **run** the program as you wish, for any purpose (freedom 0).
2. The freedom to **study** how the program works, and **change** it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
3. The freedom to **redistribute** copies so you can help your neighbor (freedom 2).
4. The freedom to **distribute** copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

Free Software Foundation



Free Software Definition

<https://www.fsf.org/licensing/essays/free-sw.html>

# What is Freedom?

Free as in...

Beer?



[https://commons.wikimedia.org/wiki/File:Beer\\_mug\\_transparent.png](https://commons.wikimedia.org/wiki/File:Beer_mug_transparent.png)

Speech?



Kitten?



<http://www.freestockphotos.biz/stockphoto/9343>

# What is Freedom?

## It's all 3



# Who is Artefactual?

Artefactual Systems is dedicated to producing standards-based open source web applications for digital preservation, description, and access. We are the lead developers of AtoM (for archival description and access) and Archivematica (for managing digital preservation workflows).

The logo for Artefactual, featuring a stylized lowercase 'a' in an orange circle followed by the word 'artefactual' in a dark blue serif font.

artefactual

# Our Team

We are archivists, librarians, system administrators, and developers that are passionate about open-source and standards-based systems. We are also one of the most hard-working and respected technical crews in the archives and library community. We put out and support several Archivemata and AtoM releases a year and deliver technical services to a growing list of satisfied clients.

**artefactual**



Evelyn McLellan, MAS  
President



Peter Van Garderen, MAS  
Founder / Management Consultant



David Juhasz  
Director, AtoM Technical Services



Justin Simpson  
Director, Archivemata Technical Services



Jesús García Crespo  
AtoM Lead Developer



Dan Gilleen, MAS/MLIS  
AtoM Program Manager



Sarah Romkey, MAS/MLIS  
Archivemata Program Manager



Sara Allain, MI  
Systems Archivist



Nick Wilkinson  
Project Manager



David Hume  
Systems Administrator



Hector Akamine  
Systems Administrator



Santiago Rodríguez Collazo  
Production Support Engineer (Dev Ops)



Mike Cantelon  
Software Developer



Mike Gale  
Software Developer



Holly Becker  
Software Developer



José Raddaoui Marín  
Software Developer



Joel Dunham  
Software Developer



Steve Breker  
Software Developer



Kerry Campbell  
Administrator

# Our Development Priorities

Open Source </>

Standards-based 

Generalized for broad use 

 artefactual

# Our Development Approach

- Standards-based / follows best practices
- Open source / Creative Commons
- Multilingual support whenever possible
- Generalize specific use cases
- Include all features in public release
- Iterative development via multiple contributions over subsequent releases

Community-based  
Development

 artefactual

# Our Business Model

- Maintain our applications under A-GPLv3 licenses
- Provide and maintain the documentation under CC-BY-SA licenses
- Produce additional resources (e.g. videos, presentations, webinars) whenever possible
- Participate actively in the user forums
- Offer additional paid services
- Always include development in public project

The “Bounty Model”  
of Open Source Business

 artefactual

# Our Services

- Hosting
- Remote technical maintenance
- Consultation
- Data migration
- Training
- Application theming
- Software development

<https://www.artefactual.com/services/>

Artefactual Systems is proud to develop free and open software made available under the AGPLv3 open-source software license. We support this software and our user community through release management, public technical and user documentation, and community forum support. To pay the bills, and to continue to develop and update the software, we also offer paid services as outlined below.

These prices effective **January 1, 2015**.

Service	Description	Rates
<b>Software development</b>	Requirements analysis and documentation, architecture and application design, coding, QA, <a href="#">AtoM theming</a> , deployment, technical and user documentation. <a href="#">More info</a>	\$150 per hour fixed fee contracts / \$130 per hour time & materials contracts
<b>Data migration (AtoM)</b>	Get your legacy descriptions into AtoM: data analysis and mapping, migration scripts, test import, QA, production import. <a href="#">More info</a>	\$150 per hour fixed fee contracts / \$130 per hour time & materials contracts
<b>Consulting</b>	Capacity assessment, repository planning, digital preservation and access workflow planning, strategy documents, business cases, project scoping, pilot projects. <a href="#">More info</a>	\$150 per hour fixed fee contracts / \$130 per hour time & materials contracts
<b>Hosting</b>	Full-service packages including remote hosting, data backup, technical support, software upgrades, software patches	<a href="#">AtoM hosting</a> / <a href="#">Archivematica hosting</a>
<b>Installation and technical support</b>	Local Archivematica and/or AtoM installation, technical support, software patches and upgrades	<a href="#">AtoM tech support</a> / <a href="#">Archivematica tech support</a>
<b>Training</b>	Individualized online training for Archivematica and/or AtoM	<a href="#">AtoM training</a> / <a href="#">Archivematica training</a>

The logo for Artefactual, featuring a stylized orange 'a' followed by the word 'rtefactual' in a dark blue serif font.

# Our Applications



Web based application for standards-based description and access in a multilingual, multi-repository environment

<https://www.accesstomemory.org>



Web based application to support digital preservation workflows based on the OAIS reference model

<https://www.archivemata.org>



# Your Applications



Web based application for standards-based description and access in a multilingual, multi-repository environment

<https://www.accesstomemory.org>



Web based application to support digital preservation workflows based on the OAIS reference model

<https://www.archivemata.org>



# Your Applications

**We  pull requests!**

Because the code is open to inspection, any member of the community can fix problems, or develop new features and contribute code back. For any given problem, the community can troubleshoot it together.

## DEVELOPMENT RESOURCES

These are pages that have been created to assist developers interested in working with AtoM's code, and sharing that code with the broader AtoM community.

- [Code review process](#)
- [Coding standard](#)
- [Contribute code](#)
- [Functional testing](#)

### See also

- [Resources/Code repository](#)
- [About the AtoM documentation \(including how to contribute\)](#)
- [Community resources](#)
- [Community development](#)
- [Development philosophy](#)

# Questions?

[info@artefactual.com](mailto:info@artefactual.com)

