



Free Software
for
Digital Archives

emmanuele.somma@Bancaditalia.it



THE STANDARD DISCLAIMER:

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Free Software for Digital Archives

- Free
SOFTWARE
- DIGITAL
ARCHIVES
- SOLUTIONS





1987 WOLFnet BBS

1990 INFOMEDIA EDITOR

1994 LOGIN Magazine

1995 **Free software
Foundation
EUROPE**

1999 LINUX Magazine

2000

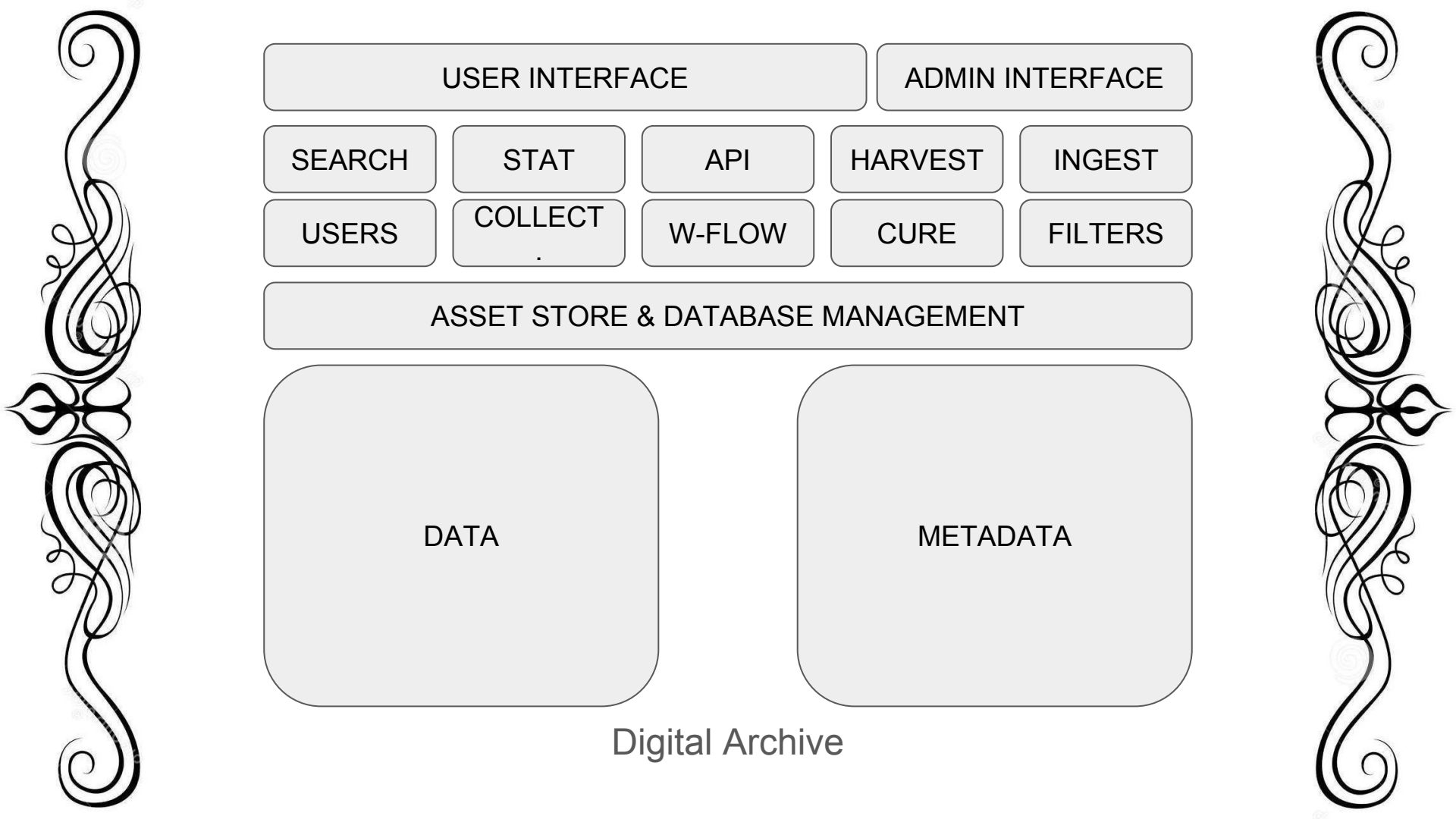
While free software was
meant to force developers
to lose sleep over ethical
dilemmas, open source
software was meant to end
their insomnia.

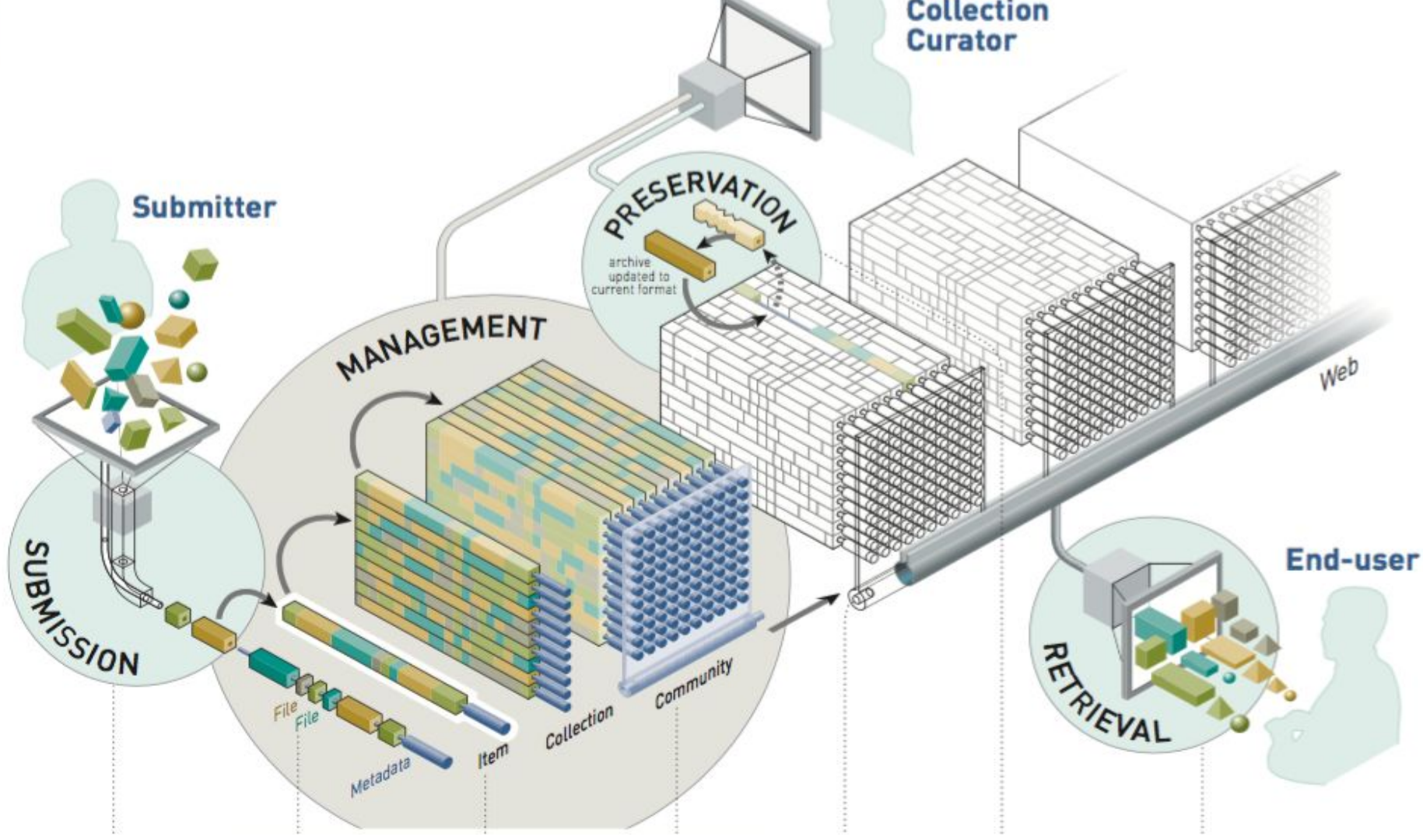
Evgeny Morozov



Free Software (Open Source)

- **VISION & GOVERNANCE**
- **DEVELOPMENT APPROACH**
- **BUSINESS MODEL**

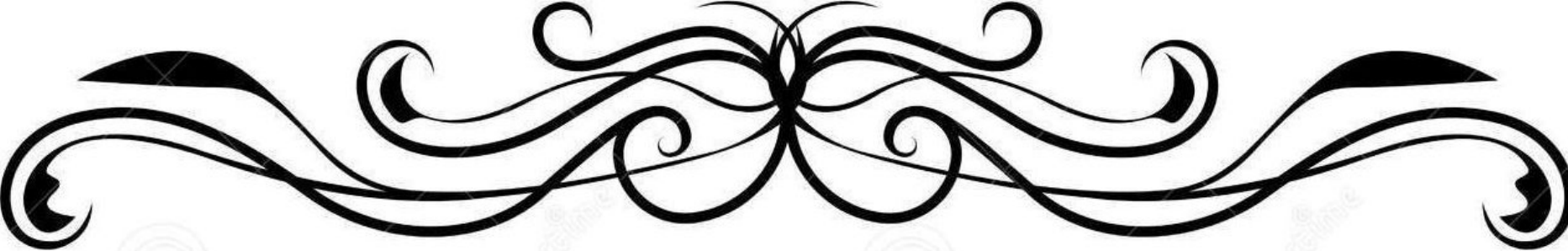






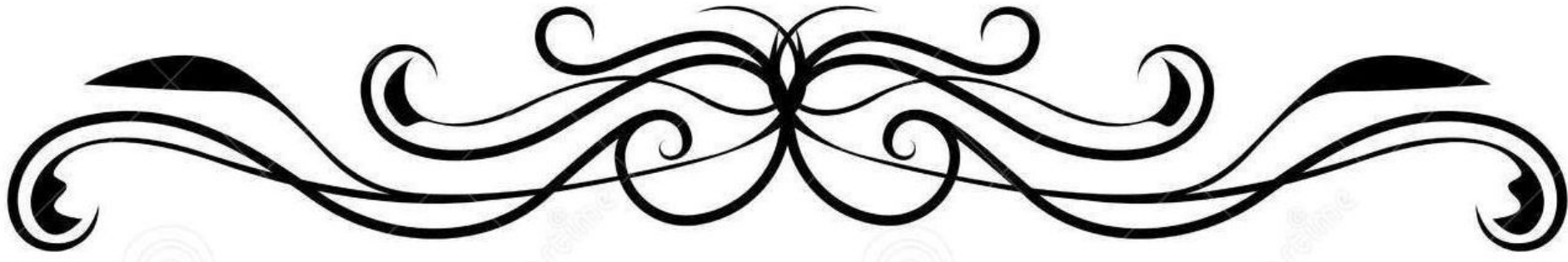
Tech Issues

- **services**
- **STANDARDS:**
 - **ISO 14721 (OAIS), PREMIS, METS, BaGIt, OAI, SWORD**
- **I18N, L10N**
- **MULTI-Tenancy / MULTI-repository**



DATA

- **Formats**
 - **TEXT** (TXT, Markdown, LaTeX)
 - **Images** (PDF, TIFF, JPG, FITS)
 - **VIDEO** (MPEG, DIVX)
 - **AUDIO** (MP3, OGG/VORBIS)



NEAR
(META)
DATA

- **SINGLE OR MULTI PAGE**
- **OPTICAL CHARACTERS RECOGNITION**
- **AUTOMATIC VOICE TRANSCRIPTION**
- **TEXTUAL/IMAGE FEATURE EXTRACTION (FE)**
- **NAMED ENTITY RECOGNITION (NER)**
- **FACES. OBJECTS, PLACES RECOGNITION**
- **CLUSTERING (KMEANS)**

DATA

SCAN



ASSETSTORE

 archivematica[®]

FORMATS



OCR



TRANSCRIPT



FE-NER-ML



METADATA

PRODUCTIVITY



DATA CLEANING



DATA MINING



BIGDATA MNGMT



SEMANTIC WEB/LOD



PROGRAMMING

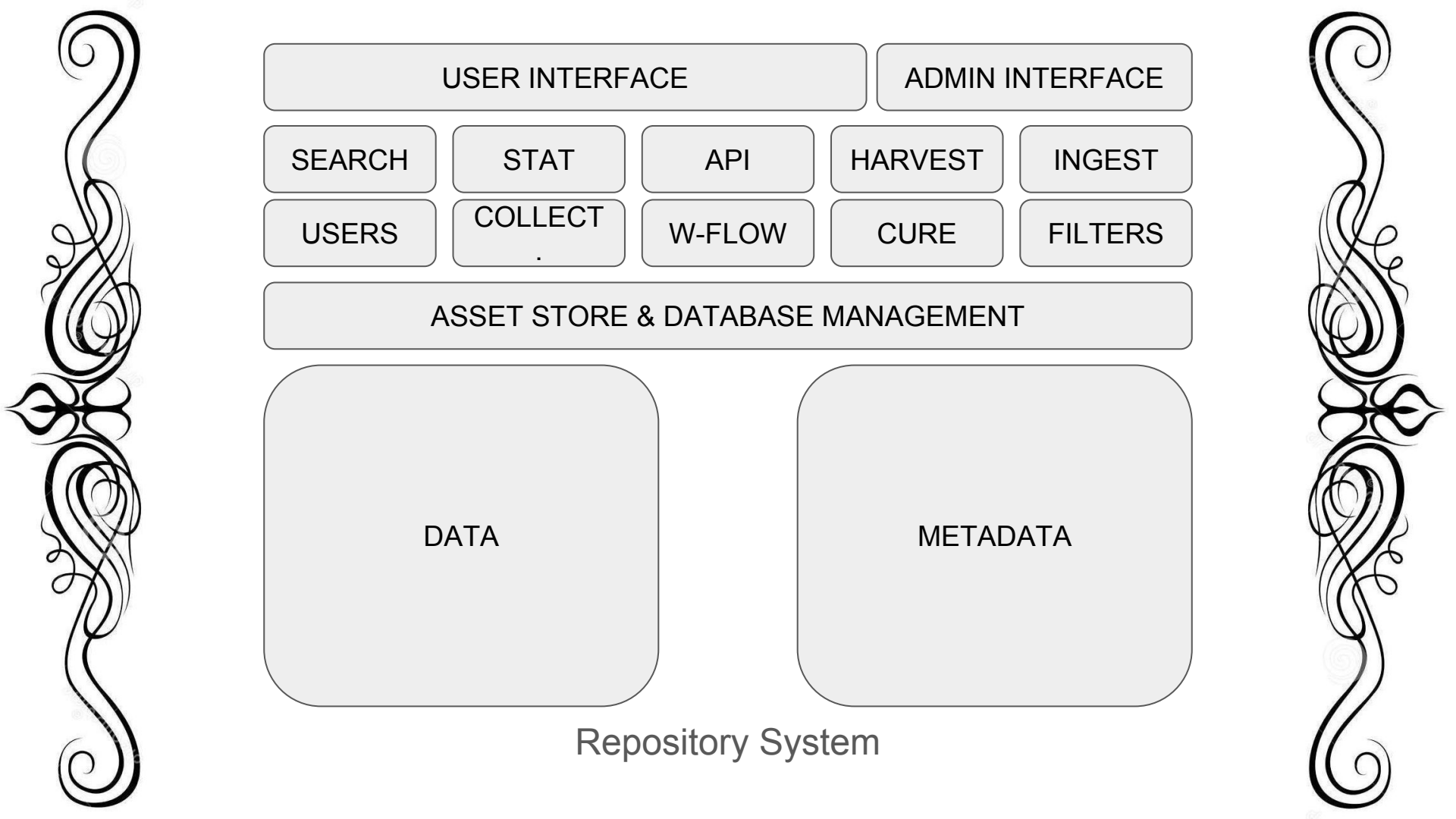
MACHINE/DEEP LEARNING

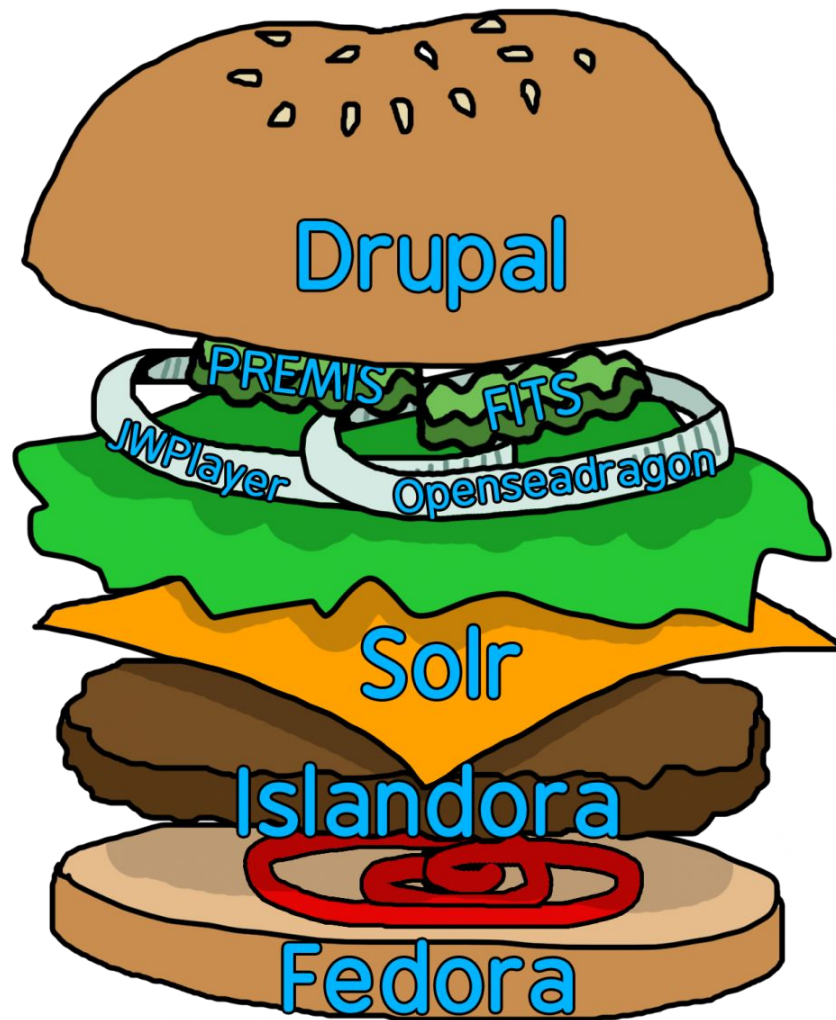


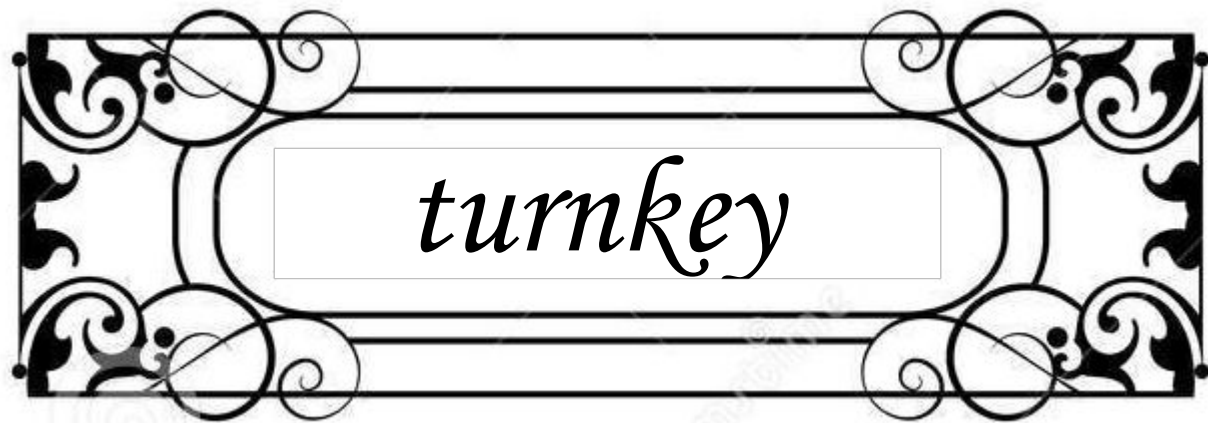
python



ANACONDA®







turnkey

	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★★★ E: ★★★★★ C; ★★★★★	G: ★ E: ★★★★★ C; ★★★★★	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★ E: ★★★ C; ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
Key Dev	Duraspace	CERN	U Southampton	U Prince Edward Island	Stanford U	Artefactual - ICA
Devel	1COM: 2002 #COM: ★★ #DEV: 191 S; ★★★★★ LOC: 271K Y: 54 Y-O-Y: ▼	1COM: 2002 #COM: ★★★★★★ #DEV: 395 S; ★★★★★ LOC: 600K Y: 150 Y-O-Y: ▼	1COM: 2000 #COM: ★★ #DEV: 39 S; ★★★ LOC: 400K Y: 108 Y-O-Y: ▼	1COM: 2010 #COM: ★★ #DEV: 111 S; ★★★★★ LOC: 800K Y: 220 Y-O-Y: ▼	1COM: 2009 #COM: ★★ #DEV: 150 S; ★★★★★ LOC: 70K Y: 18 Y-O-Y: ▼	1COM: 2012 #COM: ★ #DEV: 19 S; ★ LOC: ???K Y: ??? Y-O-Y: ▼

	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★★ E: ★★★★★★ C: ★★★★★★	G: ★★★ E: ★★★★★★ C: ★★★★★★	G: ★ E: ★★★★★★ C: ★★★★★★	G: ★★★★★★ E: ★★★★★★ C: ★★★★★★	G: ★★★★★★ E: ★★★★★★ C: ★★★★★★	G: ★ E: ★★★ C: ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
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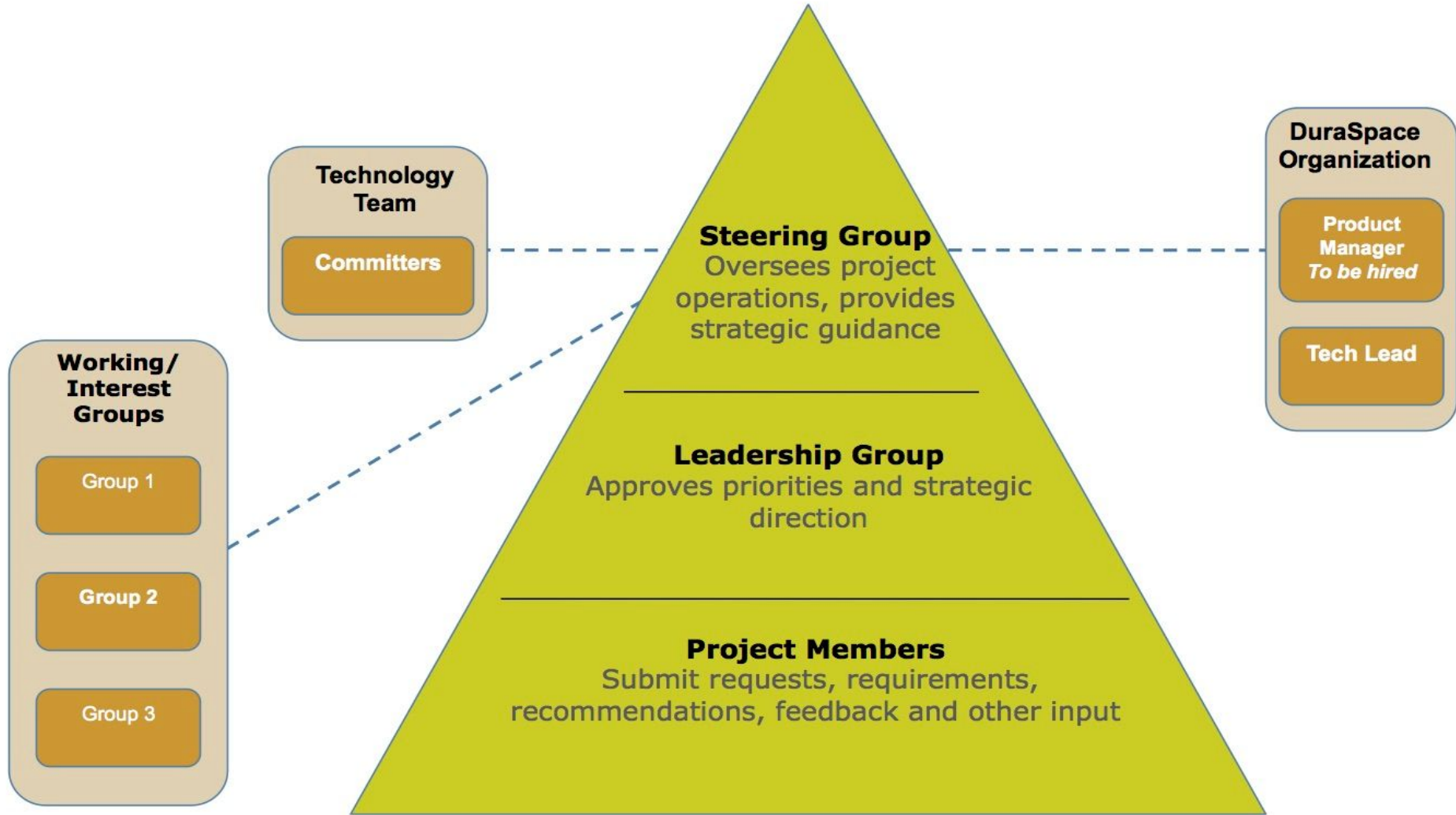


Vision: The DSpace Project will produce the world's choice for repository software providing the means for making information openly available and easy to manage.

Mission: We will create superior open source software by harnessing the skills of an active developer community, the energy and insights of engaged and active users, and the financial support of project members and registered service providers.

DSpace software will:

1. Focus on the Institutional Repository use case.
2. Be lean, agile, and flexible.
3. Be easy and simple to install and operate.
4. Include a core set of functionality that can be extended to or integrated with complementary services and tools in the larger scholarly ecosystem

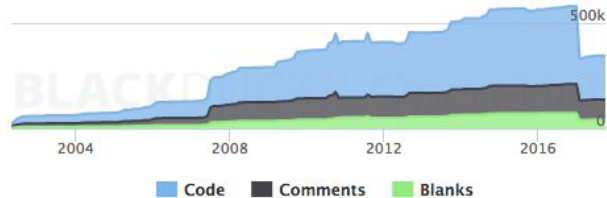




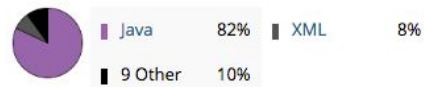
DSpace

Code

Lines of Code



Languages



An open source solution for accessing, managing, and preserving scholarly works.

Activity

Commits per Month



30 Day Summary

Sep 14 2017 — Oct 14 2017

24 Commits

6 Contributors

12 Month Summary

Oct 14 2016 — Oct 14 2017

262 Commits

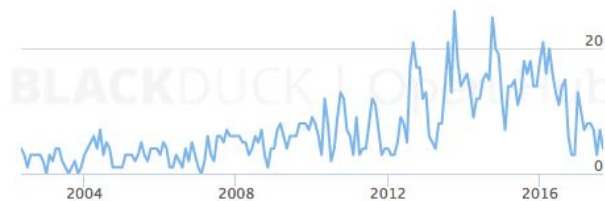
Down -855 (76%) from previous 12 months

29 Contributors

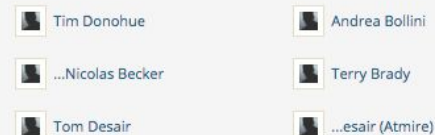
Down -27 (48%) from previous 12 months

Community

Contributors per Month



Most Recent Contributors



Ratings

4 users rate this project:

Click to add your rating



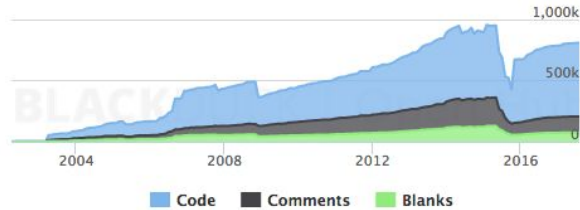
	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★ C: ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
Key Dev	Duraspace	CERN	U Southampton	U Prince Edward Island	Stanford U	Artefactual - ICA
Devel	1COM: 2002 #COM: ★★ #DEV: 191 S; ★★★★★ LOC: 271K Y: 54 Y-O-Y: ▼	1COM: 2002 #COM: ★★★★★★ #DEV: 395 S; ★★★★★ LOC: 600K Y: 150 Y-O-Y: ▼	1COM: 2000 #COM: ★★ #DEV: 39 S; ★★★ LOC: 400K Y: 108 Y-O-Y: ▼	1COM: 2010 #COM: ★★★ #DEV: 111 S; ★★★★★ LOC: 800K Y: 220 Y-O-Y: ▼	1COM: 2009 #COM: ★★★ #DEV: 150 S; ★★★★★ LOC: 70K Y: 18 Y-O-Y: ▼	1COM: 2012 #COM: ★ #DEV: 19 S; ★ LOC: ???K Y: ??? Y-O-Y: ▼



Invenio is a free software suite enabling you to run your own digital library or document repository on the web. The technology offered by the software covers all aspects of digital library management from document ingestion through classification, indexing, and curation to dissemination. Invenio complies with standards such as the Open Archives Initiative metadata harvesting protocol (OAI-PMH) and uses MARC 21 as its underlying bibliographic format. The flexibility and performance of Invenio make it a comprehensive solution for management of document repositories of moderate to large sizes (several millions of records).

Code

Lines of Code



Languages



Activity

Commits per Month



30 Day Summary

Jul 9 2017 — Aug 8 2017

122 Commits

19 Contributors

including 2 new contributors

12 Month Summary

Aug 8 2016 — Aug 8 2017

1885 Commits

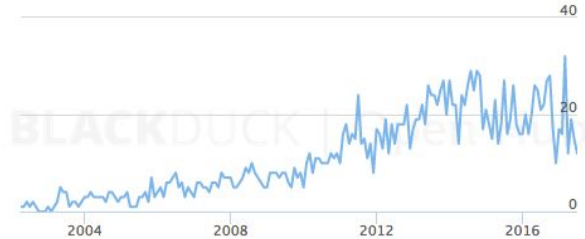
Down -1200 (38%) from previous 12 months

90 Contributors

Up + 10 (12%) from previous 12 months

Community

Contributors per Month



Most Recent Contributors



Ratings

4 users rate this project:



Click to add your rating



[Review this Project!](#)

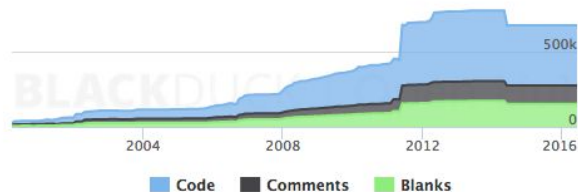
	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★★★ E: ★★★★★ C; ★★★★★	G: ★ E: ★★★★★ C; ★★★★★	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★ E: ★★★ C; ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
Key Dev	Duraspace	CERN	U Southampton	U Prince Edward Island	Stanford U	Artefactual - ICA
Devel	1COM: 2002 #COM: ★★ #DEV: 191 S; ★★★★★ LOC: 271K Y: 54 Y-O-Y: ▼	1COM: 2002 #COM: ★★★★★★ #DEV: 395 S; ★★★★★ LOC: 600K Y: 150 Y-O-Y: ▼	1COM: 2000 #COM: ★★ #DEV: 39 S; ★★★ LOC: 400K Y: 108 Y-O-Y: ▼	1COM: 2010 #COM: ★★ #DEV: 111 S; ★★★★★ LOC: 800K Y: 220 Y-O-Y: ▼	1COM: 2009 #COM: ★★ #DEV: 150 S; ★★★★★ LOC: 70K Y: 18 Y-O-Y: ▼	1COM: 2012 #COM: ★ #DEV: 19 S; ★ LOC: ???K Y: ??? Y-O-Y: ▼



EPrints is generic repository building software developed by the University of Southampton. It is intended to create a highly configurable web-based repository. EPrints is often used as an open archive for research papers, and the default configuration reflects this, but it is also used for other things such as images, research data, audio archives - anything that can be stored digitally.

Code

Lines of Code



Languages



Activity

Commits per Month



30 Day Summary

May 12 2016 — Jun 11 2016

2 Commits

2 Contributors

12 Month Summary

Jun 11 2015 — Jun 11 2016

15 Commits

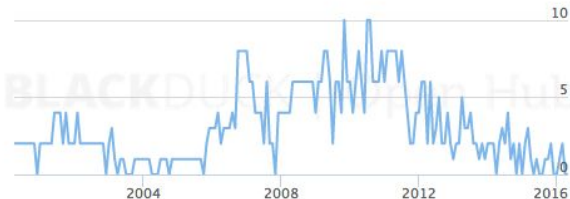
Down -124 (89%) from previous 12 months

6 Contributors

Down -6 (50%) from previous 12 months

Community

Contributors per Month



Most Recent Contributors

Stefan Weil

Matthew Kerwin

jesusbagpuss

...hy Miles-Board

Jiadi Yao

Alan Stiles

Ratings

3 users rate this project:

★★★★★ 4.7/5.0

Click to add your rating



[Review this Project!](#)

	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★ C: ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
Key Dev	Duraspace	CERN	U Southampton	U Prince Edward Island	Stanford U	Artefactual - ICA
Devel	1COM: 2002 #COM: ★★ #DEV: 191 S; ★★★★★ LOC: 271K Y: 54 Y-O-Y: ▼	1COM: 2002 #COM: ★★★★★★ #DEV: 395 S; ★★★★★ LOC: 600K Y: 150 Y-O-Y: ▼	1COM: 2000 #COM: ★★ #DEV: 39 S; ★★★ LOC: 400K Y: 108 Y-O-Y: ▼	1COM: 2010 #COM: ★★ #DEV: 111 S; ★★★★★ LOC: 800K Y: 220 Y-O-Y: ▼	1COM: 2009 #COM: ★★ #DEV: 150 S; ★★★★★ LOC: 70K Y: 18 Y-O-Y: ▼	1COM: 2012 #COM: ★ #DEV: 19 S; ★ LOC: ???K Y: ??? Y-O-Y: ▼

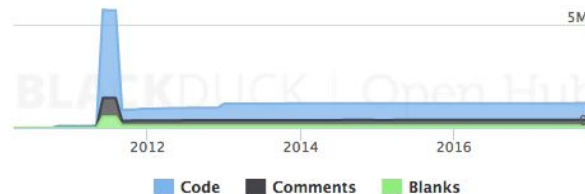


open source digital asset management system based on Fedora Commons, Drupal and additional applications. Islandora may be used to create large, searchable collections of digital assets of any type and is domain agnostic in terms of the type of content it can steward. It has a highly modular architecture with a number of key features:

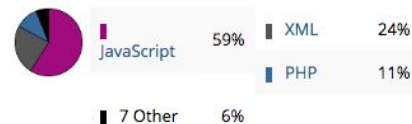
- multi-language and functionality support via Drupal
- a modular Solution Pack framework for defining specific data models
- support for any XML metadata standard, including unique schemas
- a formbuilder module which allows the creation of a data-entry/editing form
- a flexible faceted search driven by Solr
- micro service-based workflows for automating the transformation of assets

Code

Lines of Code



Languages



Activity

Commits per Month

Zoom 1yr 3yr 5yr All



30 Day Summary

Sep 30 2017 — Oct 30 2017

20 Commits

11 Contributors
including 1 new contributor

12 Month Summary

Oct 30 2016 — Oct 30 2017

351 Commits

Down -45 (11%) from previous 12 months

36 Contributors

Down -5 (12%) from previous 12 months

Community

Contributors per Month



Most Recent Contributors

Jonathan Green	Adam Vessey
Jordan Dukart	Mark Jordan
Rosemary Le Faive	Bryan J. Brown

Ratings

Click to add your rating

	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★★★ E: ★★★★★ C; ★★★★★	G: ★ E: ★★★★★ C; ★★★★★	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★★★★★ E: ★★★★★ C; ★★★★★	G: ★ E: ★★★ C; ★★★
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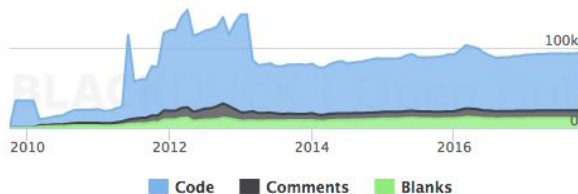
Hydra is not just a repository software solution. Rather, we see it as having three complementary components:

- there is a vibrant, highly active community supporting the work of the project which shares an underlying philosophy behind all that it does
- there are design (and other) principles involved in constructing a successful Hydra “head” for use with compatible digital objects, and of course,
- there are the software components, the Ruby gems, that the Hydra community has constructed which are combined together to provide a local installation

Each of these is of great importance to the project and each has its own set of pages accessible from the menu bar above.

Code

Lines of Code



Languages



Activity

Commits per Month

Zoom 1yr 3yr 5yr All



30 Day Summary

Sep 28 2017 — Oct 28 2017

14 Commits

7 Contributors

including 1 new contributor

12 Month Summary

Oct 28 2016 — Oct 28 2017

755 Commits

Down - 1882 (71%) from previous 12 months

48 Contributors

Down - 13 (21%) from previous 12 months

Community

Contributors per Month



Most Recent Contributors

Jonathan Rochkind

Michael J. Glarlo

Esmé Cowles

Olli Lyytinen

Aaron Collier

Julie Allinson

Ratings

Be the first to rate this project

Click to add your rating



Review this Project!

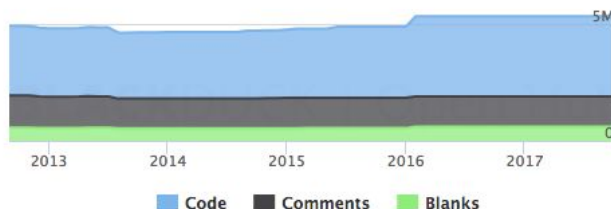
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OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
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Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★ C: ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
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AtoM stands for Access to Memory. It is a web-based, open source application for standards-based archival description and access in a multilingual, multi-repository environment.

Code

Lines of Code



Languages



Activity

Commits per Month

Zoom 1yr 3yr 5yr All



30 Day Summary

Sep 28 2017 — Oct 28 2017

0 Commits
0 Contributors

12 Month Summary

Oct 28 2016 — Oct 28 2017

0 Commits
Down -14 (100%) from previous 12 months

0 Contributors
Down -4 (100%) from previous 12 months

Community

Contributors per Month



Most Recent Contributors

 Mike Cantelon	 ... García Crespo
 Andrew Foster	 Mike Gale
 David Juhasz	 ...Raddaoui Marín

Ratings

Be the first to rate this project

Click to add your rating



Review this Project!

	DSpace 	Invenio 	EPrints 	Islandora 	Project Hydra 	AtoM 
OS License	BSD 3-Clause	GNU GPL 2	GNU GPL 3	GNU GPL 3	Apache License 2.0	GNU A-GPL 3
Language	Java	Python	Perl	Javascript/PHP	Ruby-on-Rails	PHP
Requisites	Tomcat SOLR PostgreSQL	ElasticSearch PostgreSQL	Apache MySQL mod_perl	Fedora Drupal SOLR	Fedora SOLR Backlight	
Governance & Use	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★★★★★ E: ★★★★★ C: ★★★★★	G: ★ E: ★★★ C: ★★★
Metadata	DublinCore	MARC	---	FOXML (DC)	FOXML (DC)	
Key Dev	Duraspace	CERN	U Southampton	U Prince Edward Island	Stanford U	Artefactual - ICA
Devel	1COM: 2002 #COM: ★★ #DEV: 191 S; ★★★★★ LOC: 271K Y: 54 Y-O-Y: ▼	1COM: 2002 #COM: ★★★★★★ #DEV: 395 S; ★★★★★ LOC: 600K Y: 150 Y-O-Y: ▼	1COM: 2000 #COM: ★★ #DEV: 39 S; ★★★ LOC: 400K Y: 108 Y-O-Y: ▼	1COM: 2010 #COM: ★★ #DEV: 111 S; ★★★★★ LOC: 800K Y: 220 Y-O-Y: ▼	1COM: 2009 #COM: ★★ #DEV: 150 S; ★★★★★ LOC: 70K Y: 18 Y-O-Y: ▼	1COM: 2012 #COM: ★ #DEV: 19 S; ★ LOC: ???K Y: ??? Y-O-Y: ▼

Blacklight

build **passing** gem version **6.11.2** coverage **95%**

Blacklight is an open source Solr user interface discovery platform. You can use Blacklight to enable searching and browsing of your collections. Blacklight uses the [Apache Solr](#) search engine to search full text and/or metadata. Blacklight has a highly configurable Ruby on Rails front-end. Blacklight was originally developed at the University of Virginia Library and is made public under an Apache 2.0 license.

Installation

Add Blacklight to your Gemfile :

```
gem "blacklight"
```

Run the install generator which will copy over some initial templates, migrations, routes, and configuration:

```
rails generate blacklight:install
```

Documentation, Information and Support

- [Project Homepage](#)
- [Developer Documentation](#)
- [Quickstart Guide](#)
- [Issue Tracker](#)
- [Support](#)

Spotlight

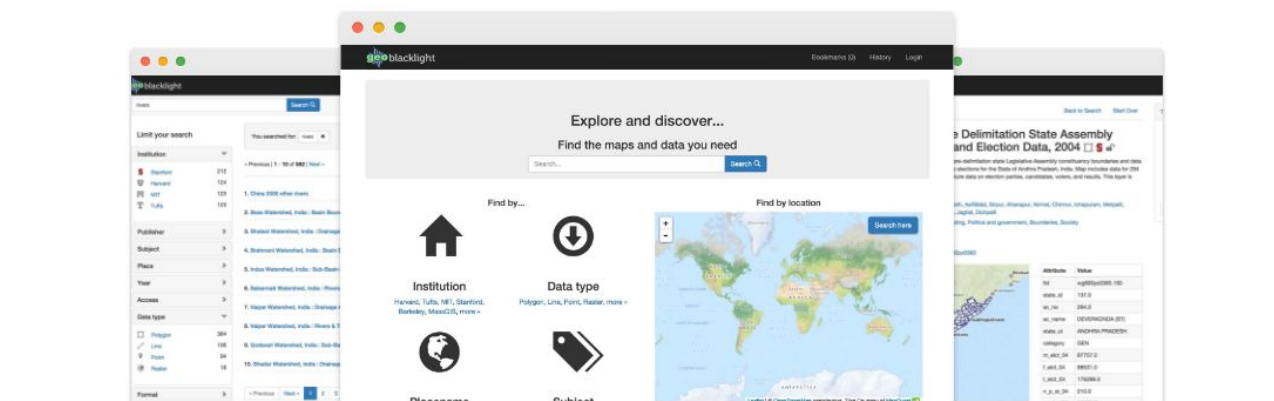
An open source solution enabling librarians, curators, and others to create attractive, feature-rich websites that highlight digital collections.

WHY SPOTLIGHT?

Deploy Spotlight at your institution or organization and you can offer a **self-service approach** for creating exhibit websites that **highlight your digital collections**. Your curators can build highly-customized exhibits, tailored to their collections, with easy-to-use site configuration and page-building options. And because Spotlight is based on [Blacklight](#), your exhibits offer end-users robust searching, browsing, and object display capabilities.

GeoBlacklight

A multi-institutional open-source collaboration building a better way to find and share geospatial data.



Easy to install

Quick and easy to get going with GeoBlacklight. Follow the simple [installation instructions](#) or checkout one of the [tutorials](#).

Easy to customize

GeoBlacklight uses SASS and Twitter Bootstrap to enable adopters to easily customize their installation.

Built for longevity

Modularized [software projects](#) that enhance each other. Test coverage and documentation is a priority.

References

Free Software: The Free Software Foundation site <http://fsf.org>

Digital Archives: ISO 14721:2005/2014 or better: CSDS 652.1-M-2 – Requirements for Bodies Providing Audit and Certification of Candidate Trustworthy Digital Repositories . Magenta Book. Issue 2. (2014).

Credits

Images: (p.3 - William Morris, p.3 GNU Project, p. 7 - Diagram Dynamics, p.11 12 ditto, p. 14 Islandora Project, p. 19 Duraspace Foundation, p. 20 22 24 26 28 30 Blackduck)

Questions?

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