



cottage labs

The Distribution of DSpace

Hrafn Malmquist
hrafn@cottagelabs.com
Software engineer, Cottage Labs

DSpace

open source repository platform

- ingests files with a flexible metadata schema
- supports OAI-PMH interface and Google Scholar optimizations
- supports PID integrations with handle.net and DataCite DOI



DSpace release history

	2006	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
1														
2														
3														
4														
5														
6														
7														
8														



Vulnerable dependencies < 7



Hibernate version pinned to 4.2, 4.3 does not work with the spring version we are currently using

Upgrading the spring version will make the XMLUI crash

Comment left in main pom.xml file on Aug 21, 2015



Apache Cocoon

Apache Cocoon



Developer(s)	Apache Software Foundation
Stable release	2.2.0 / May 15, 2008; 16 years ago
Repository	svn.apache.org/repos/asf/cocoon/trunk/  
Written in	Java, XML
Operating system	Cross-platform
Type	Web application framework
License	Apache License 2.0
Website	cocoon.apache.org 

News

Apache Cocoon 2.3.0 Released

The Apache Cocoon Community is proud to announce the new release of Apache Cocoon, 2.3.0. [\[more\]](#)

 submitted by Cédric Damioli, 11/25/23 19:30:00 CET

[News Archive](#)



Java Server Pages/JSPUI



RhoOfFeh • 3y ago

Honestly, it's fine to know the very basics, but most of the hours I put into learning JSPs and Servlets are lost forever to me. If today, in 2021, someone offers you a job working with JSP and servlet technologies, and the job description does not include "you will help us to modernize our code base by moving from antiquated technologies" run away.



5



Award



Share



Improvements with 7

Technology	<7	=>7
Java	7	11
Spring	3.2	5.3
Hibernate	4.2	5.6
Frontend	XMLUI and JSPUI	Angular



Three registries of repositories

Name	URL	DSpaces May '24
Lyrasis Registry	https://registry.lyrasis.org/	3192
OpenDOAR	https://v2.sherpa.ac.uk/opensoar/	2416
ROAR	https://roar.eprints.org/	2466



How many?

Between 3000 and 4000 ?



Methodology

Harvest data from the three repositories and deduplicate based on the host name.

Probe the list of repositories to establish which version, and if applicable, which user interface it is using.

Example: `https://digitalrepository.salemstate.edu/`

Sub domain

Domain

Top level domain



wrap ☐

<!DOCTYPE html>

```
<!--[if lt IE 7]> <html class="no-js lt-ie9 lt-ie8 lt-ie7" lang="en" >
<!--[if IE 7]> <html class="no-js lt-ie9 lt-ie8" lang="en">
<!--[if IE 8]> <html class="no-js lt-ie9" lang="en"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js" lang="en"> <!--<![endif]-->
<head><META http-equiv="Content-Type" content="text/html; charset=UTF-8">
<meta content="text/html; charset=UTF-8" http-equiv="Content-Type">
<meta content="IE=edge,chrome=1" http-equiv="X-UA-Compatible">
<meta content="width=device-width,initial-scale=1" name="viewport">
<link href="/themes/OR//images/favicons/apple-touch-icon.png" sizes="180x180" rel="apple-touch-icon">
<link href="/themes/OR//images/favicons/favicon-32x32.png" sizes="32x32" rel="icon">
<link href="/themes/OR//images/favicons/favicon-16x16.png" sizes="16x16" rel="icon">
<link href="/themes/OR//images/favicons/manifest.json" rel="manifest">
<link color="#5bbad5" href="/themes/OR//images/favicons/safari-pinned-tab.svg" rel="mask-icon">
<link href="/themes/OR//images/favicons/favicon.ico" rel="shortcut icon">
<meta content="/themes/OR//images/favicons/browserconfig.xml" name="msapplication-config">
<meta content="#ffffff" name="theme-color">
<meta name="Generator" content="DSpace 5.7">
<link type="text/css" rel="stylesheet" media="screen" href="/themes/OR//styles/main.css">
<link href="/themes/OR/styles/main.css" rel="stylesheet">
<link type="application/rss+xml" rel="alternate" href="/feed/rss_1_0/site">
```

s XML file does not appear to have any style information associated with it. The document

--

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<http://www.dspace.org/license/>

->

```
document xmlns="http://di.tamu.edu/DRI/1.0/" xmlns:i18n="http://apache.org/
<body>
```

```
  <xref rend="embed" target="/home/salemstate/dspace/config/news-xmlui.xhtml"
  <div id="aspect.artifactbrowser.CommunityBrowser.div.comunity-browser" re
```

▼<head>

```
  <i18n:text catalogue="default">xmlui.ArtifactBrowser.CommunityBrowser
  </head>
```

▼<p>

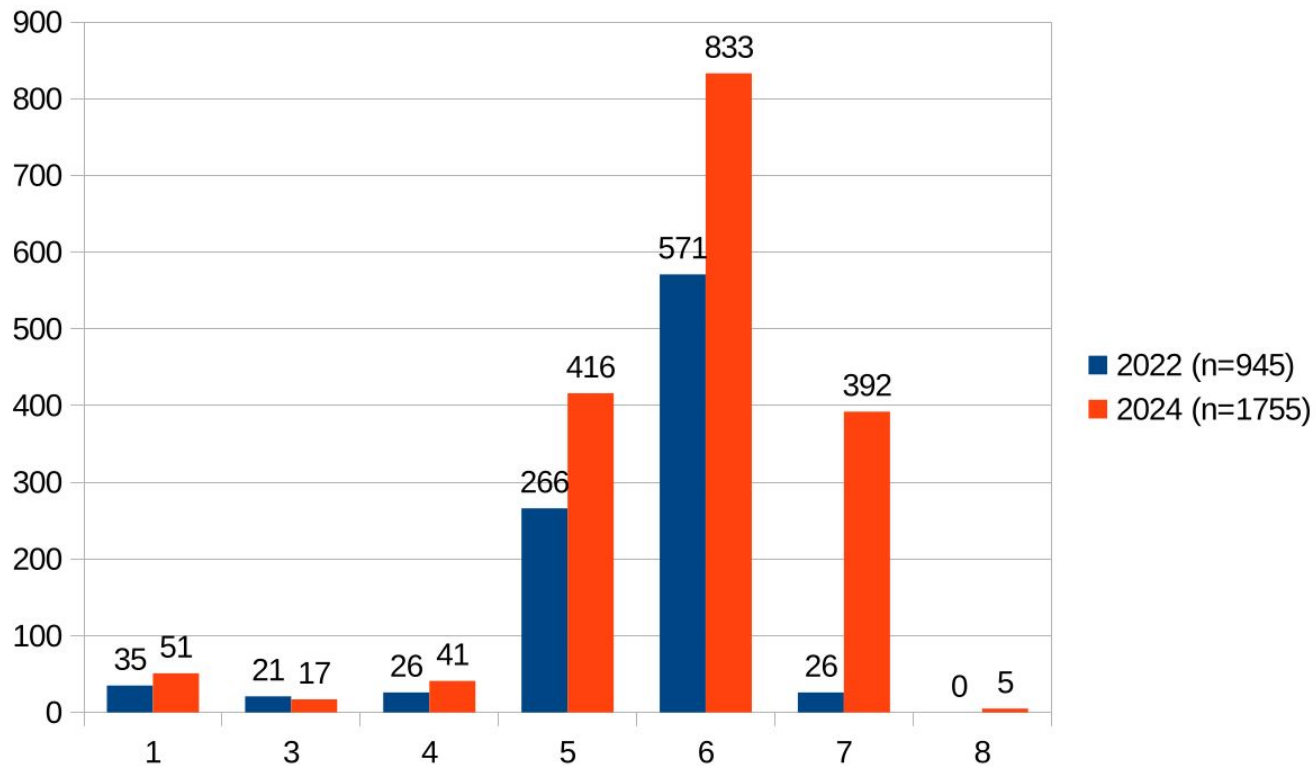
```
  <i18n:text catalogue="default">xmlui.ArtifactBrowser.CommunityBrowser
  </p>
```

Data

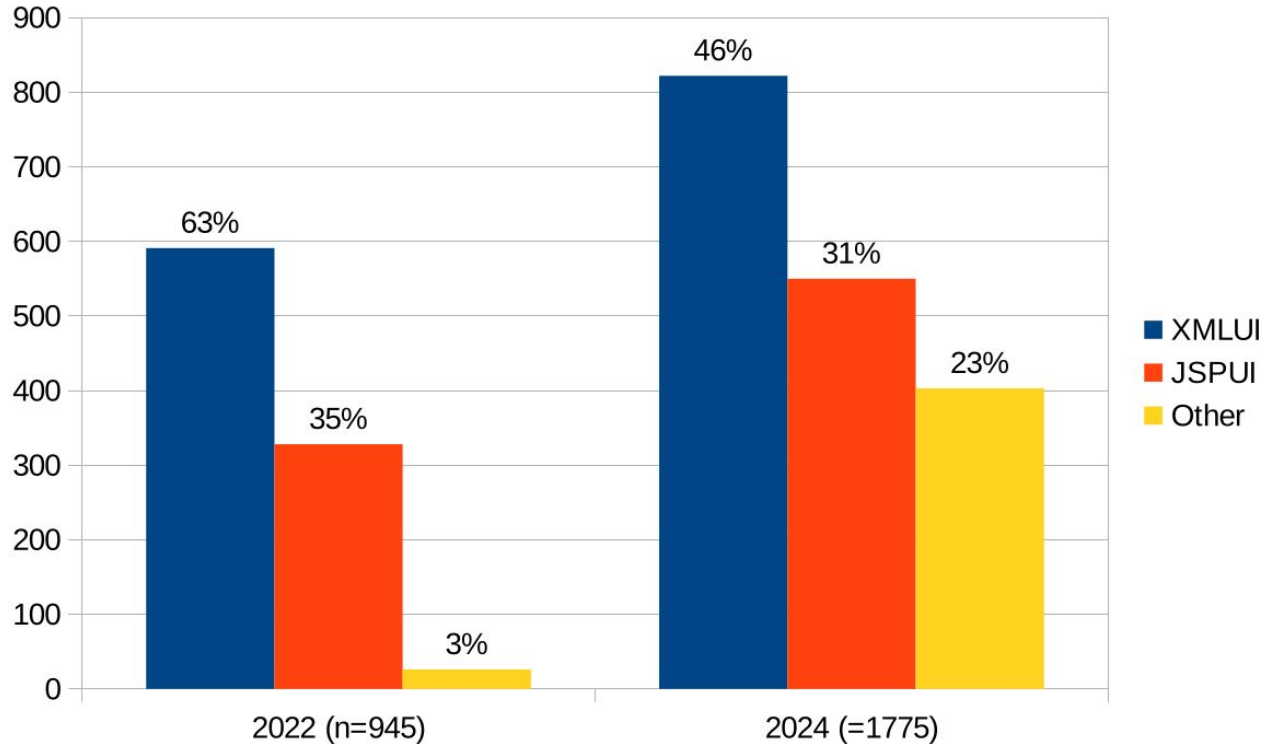
	October 2022	May 2024
Combined registries	?	8074
Repositories probed, after deduplication	3191	3743
Successful probes	945 (30%)	1775 (47%)



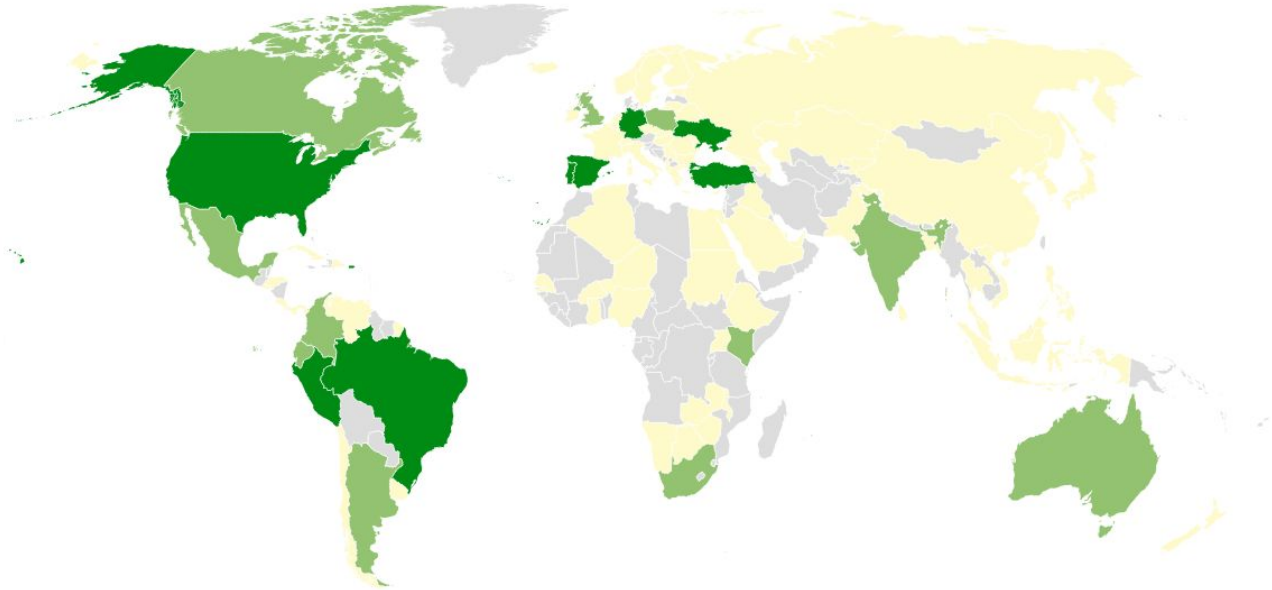
Version distribution



User interface distribution



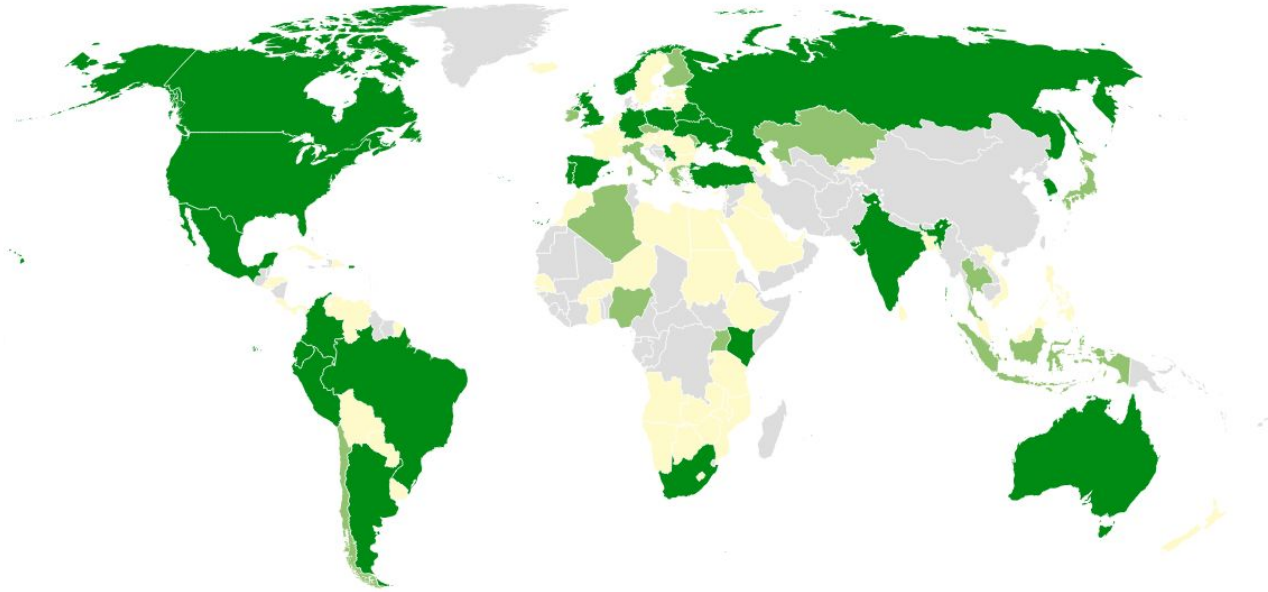
Location 2022 (n=945)



Created with Datawrapper



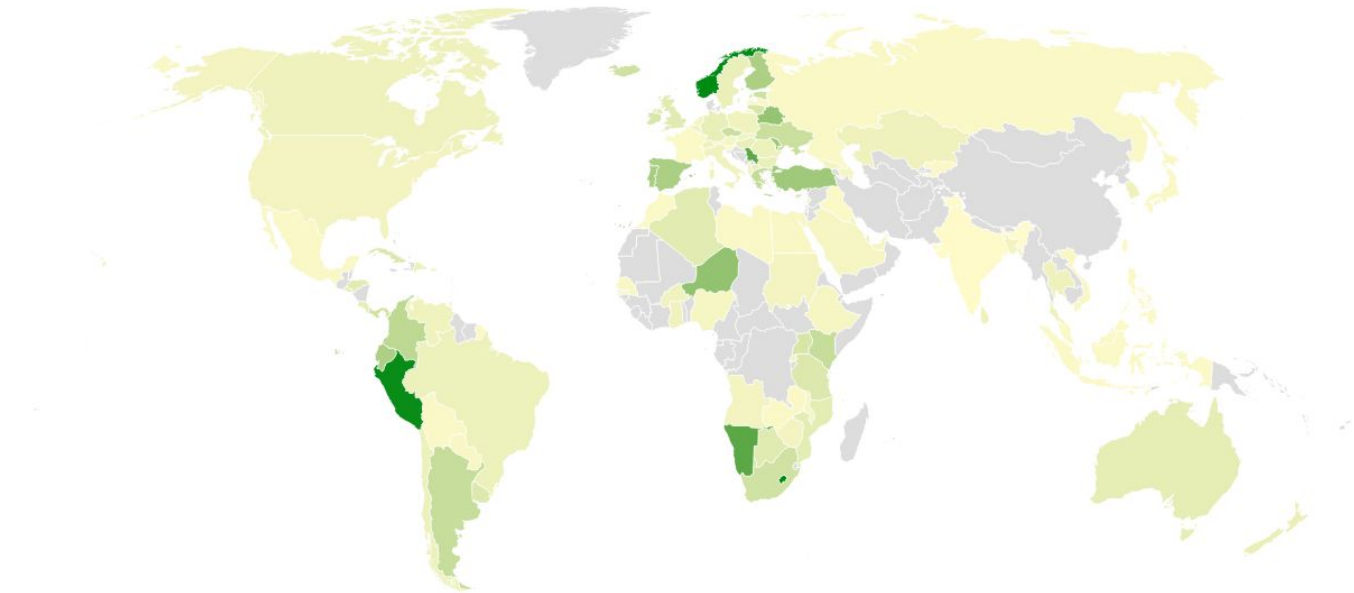
Location 2024 (n=1734)



Created with Datawrapper



Saturation 2024 (n=1734)



Created with Datawrapper



Conclusions

The distribution of DSpaces seems to be fairly normally distributed, slanted towards the most recent version.

It is used globally but some countries either do not use it, or do not wish to advertise that they do.

Peruvians and Norwegians appear to be avid users.

A lot of administrators will have to start thinking about upgrading soon.



Thanks for listening
[hrafn@cottagelabs.com]

