

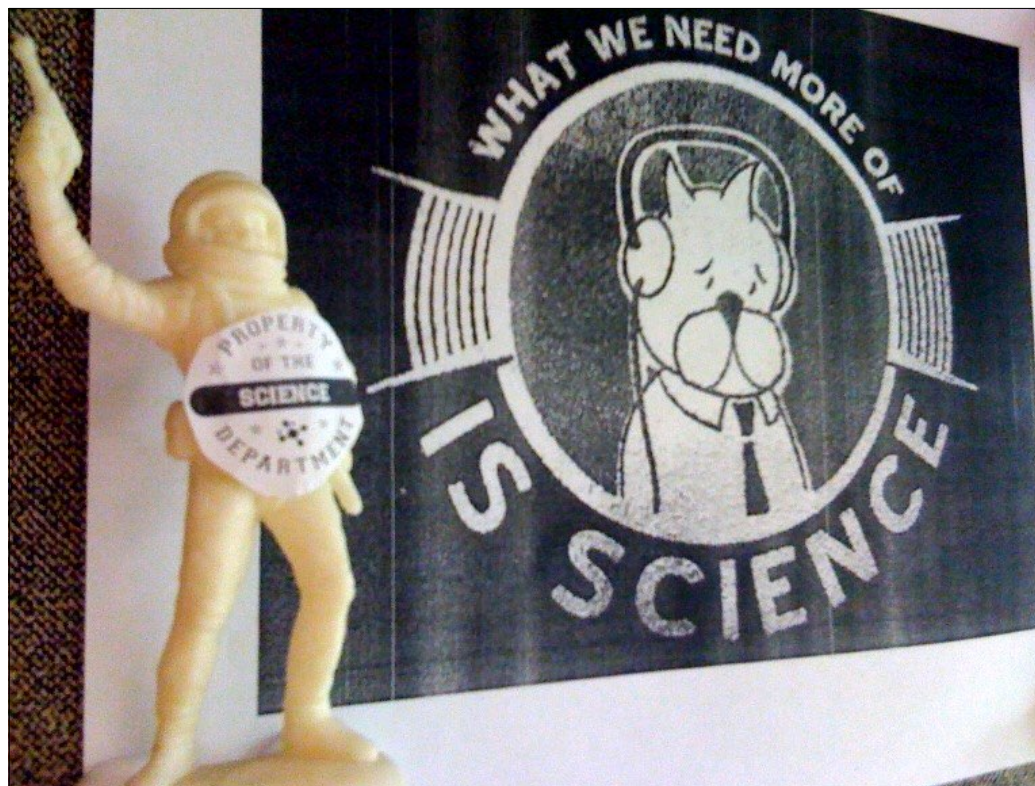
I am not sure if I totally agree with the organisers policy to save the best for the last.
But given that you are all still here, it seems to be not such a bad policy after all.

All joking aside, I realise I'm the last thing standing between you and refreshing Belgian beers, so I will make this worth your time and attention.



My name is Bram Luyten, and for the past 13 years of my life, I have been helping universities, ngos and companies with sharing their research papers with the world, leveraging systems known in my field as "Institutional Repositories". We build these repositories with the Open Source software DSpace.

I do this together with a team of 28 other people of Atmire, a company I co-founded together with Lieven Droogmans and Ben Bosman. We are a spin-off of KU Leuven, and their repository Lirias was the first thing we ever made. I'm very proud of my Alma mater and since I want to respect our hosts for today, I'm just going to say that like ULB, KU Leuven is pretty awesome institution as well.



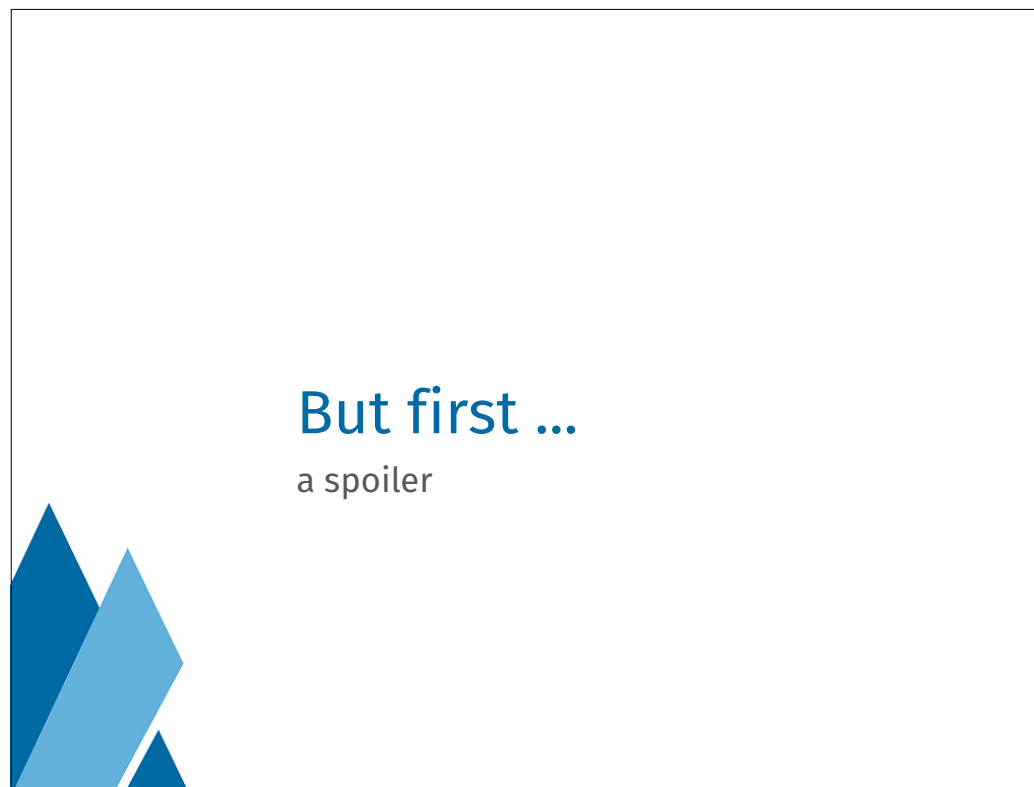
In my talk today, I will first give you my view on the trends and evolutions in Scientific communication that we operate in.



Then I will give you insight into the DNA of our specific open source community, the DSpace community.



And lastly, without getting too much into the technical details, I will share how we have embarked on the largest development endeavour in the history of the project, the deprecation of the two different UIs we had for DSpace, with the goal of replacing them with a new Angular based UI in DSpace 7.



Since it's been a very long day, I would already be happy if there is just a single idea you retain from my talk:



I believe that we, not meaning Atmire or the DSpace community, but everyone in this room, can speed up scientific progress by getting the most recent results of research QUICKER in the hands of MORE people.

Communicating results

How fast are we going today?





A quick reminder of the pre-internet model, where scientific publishers essentially operated like a newsstand. There were marginal costs associated with the actual printing of each issue of a journal, and getting them shipped to libraries.

Authors submitted in their articles, they were not paid for this, nor did they have to pay for any publisher services.

Publishers covered their costs and made their margin on charging subscriptions to the libraries and individuals

Fast forward to today



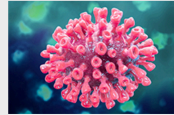
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2019-nCoV Resource Centre

To assist health workers and researchers working under challenging conditions to bring this outbreak to a close, *The Lancet* has created a Coronavirus Resource Centre. This resource brings together new 2019 novel coronavirus (2019-nCoV) content from across *The Lancet* journals as it is published.



All content listed on this page is free to access.

Useful links

- WHO: Novel Coronavirus (2019-nCoV)
- Elsevier's Novel Coronavirus Information Center

Media queries

For media enquiries in relation to content published below, please contact pressoffice@lancet.com.

Infographics

Shenzhen-based family visit infected relatives in Wuhan, and return with illness

Latest content

A new analysis, published in *The Lancet*, includes 99 patients with laboratory-confirmed 2019 novel coronavirus (2019-nCoV) who were transferred to

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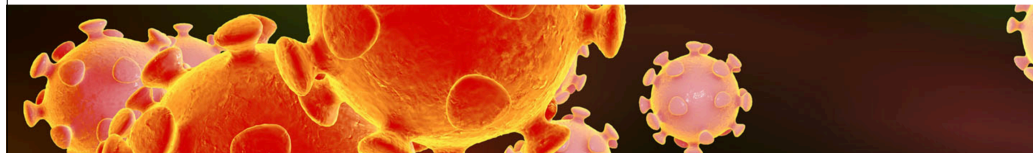
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Novel Coronavirus Information Center

Elsevier's **free** health and medical research on novel coronavirus (2019-nCoV)

[Expert guidance](#) [Clinical Solutions](#) [中文资源 \(Chinese-language\)](#) [Research](#) [Related resources](#)



<https://www.elsevier.com/connect/coronavirus-information-center>



Problem solved?

Can you raise your hand if you know someone who is diagnosed with the coronavirus?

Can you raise your hand if you know someone who has cancer?



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Clinical Oncology

Volume 32, Issue 2, February 2020, Pages 101-109



Original Article

Assessment of Intrafraction Motion of the Urinary Bladder Using Magnetic Resonance Imaging (cineMRI)

C. Wilson [†] [✉], E. Moseshvili [†], M. Tacey ^{††}, I. Quin [§], N. Lawrentschuk [†], D. Bolton [†], D.L. Joon [†], M. Chao [†], T. Dunshea ^{†¶}, T. Kron ^{||}, F. Foroudi [†]

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Bladder Using Magnetic Resonance Imaging (cineMRI)

C. Wilson †,*, E. Moseshvili †, M. Tacey ††, I. Quin §, N. Lawrentschuk †, D. Bolton †, D.L. Joon †, M. Chao †, T.
Dunshea †¶, T. Kron ||, F. Foroudi †

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The screenshot shows the Clinical Oncology journal website. At the top, a blue header contains the journal logo, the title 'Clinical Oncology', and a green-bordered box with the text 'Supports open access'. Below the header is a navigation bar with links: 'Articles in press', 'Latest issue', 'Article collections', 'All issues', and 'Submit your article'. A search bar is located below the navigation bar. The main content area features 'Volume 32, Issue 2' with page numbers 'Pages 69-132, e39-e86 (February 2020)' and a 'Download full issue' link. To the right, there are navigation links for 'Previous vol/issue' and 'Next vol/issue'. Below the volume information, there are sections for 'Actions for selected articles' (with links for 'Download PDFs', 'Export citations', and 'Show all article previews') and a 'Sign in to set up alerts' button. A quote at the bottom states: 'Authors may choose to publish open access by **paying an article publishing charge.**' An arrow points from the 'Supports open access' banner to this quote.

Clinical Oncology

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Science in Focus

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Even though, the Journal states that it "supports open access".

Supporting open access in the context of this journal really means that they put the choice with the author: If the author wants people to download their article for free, they need to pay a fee that often goes into the thousands of dollars.

Bladder Cancer

Original Articles

☐ Research article ● Open access

The Intensity-Modulated Pelvic Node and Bladder Radiotherapy (IMPART) Trial: A Phase II Single-Centre Prospective Study

M.P. Tan, V. Harris, K. Warren-Oseni, F. McDonald, ... R.A. Huddart

Pages 93-100

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☐ Research article ○ Abstract only

Assessment of Intrafraction Motion of the Urinary Bladder Using Magnetic Resonance Imaging (cineMRI)

C. Wilson, E. Moseshvili, M. Tacey, I. Quin, ... F. Foroudi

Pages 101-109

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So it's not even on a journal by journal clear cut case. It's often article by article.

Research on a respiratory epidemic virus with limited fatalities like corona should be open & "free".
But the latest research on the cancer that is killing your uncle, father or aunt shouldn't ? I don't get that.



35 Results for term "coronavirus"

Items/Page Order by



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Potent binding of 2019 novel coronavirus spike protein by a SARS coronavirus-specific human monoclonal antibody

Xiaolong Tian, Cheng Li, Ailing Huang, Shuai Xia, Sicong Lu, Zhengli Shi, Lu Lu, Shibo Jiang, Zhenlin Yang, Yanling Wu, Tianlei Ying

bioRxiv 2020.01.28.923011; doi: <https://doi.org/10.1101/2020.01.28.923011>

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Origin time and epidemic dynamics of the 2019 novel coronavirus

Chi Zhang, Mei Wang

bioRxiv 2020.01.25.919688; doi: <https://doi.org/10.1101/2020.01.25.919688>

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Luckily an increasing bigger number of disciplines are embracing **preprint** culture, where results are shared quicker, through preprint servers instead of journals.



With more and more funders strongly backing the Plan S initiative, that wants to get rid of embargo periods all together, it basically looks like we are really on the way where open access will become the norm, rather than the exception.

However I don't want to be naive: Open Access itself is not a silver bullet that addresses the costs of scientific research (including communication) and global equality in the scientific community.



The role of institutions

and their repositories

In this whole ecosystem, institutions, their leadership and librarians increasingly also take leadership on the stewardship of their scientific output.

Stephen Hawking's expanding universes thesis breaks the internet

Demand for 1966 PhD work, made freely available for the first time, crashes Cambridge's repository website



▲ Prof Stephen Hawking's 1966 doctoral thesis, *Properties of Expanding Universes*, has become the most-requested item in Apollo, Cambridge's open access repository. Photograph: Felix Clay/The Guardian

Stephen Hawking's 1966 doctoral thesis has broken the internet after becoming **available to the general public for the first time**.

Demand for the thesis, entitled ***Properties of Expanding Universes***, was so great on Monday that it caused Cambridge University's repository site to go down. The site was still inaccessible at 7.30pm on Monday.

Student theses is an area where increasingly more and more is being made available through repositories.

Browse

All of Apollo

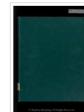
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- Thesis - Colour High Resolution (2017) (PDF, 32Mb)
- Thesis - Original Grayscale (2013, reduced size) (PDF, 12Mb)
- Thesis - Original Grayscale (2013) (PDF, 72Mb)

Authors

-  Hawking, Stephen

Advisors

Sciama, Dennis

Date

1966-03-15

Citation

Hawking, S. (1966). *Properties of expanding universes* (Doctoral thesis). <https://doi.org/10.17863/CAM.11283>

Description

This thesis has been made openly available with the kind permission of Professor Stephen Hawking.

Abstract

Some implications and consequences of the expansion of the universe are examined. In Chapter 1 it is shown that this expansion creates grave difficulties for the Hoyle-Narlikar theory of gravitation. Chapter 2 deals with perturbations of an expanding homogeneous and isotropic universe. The conclusion is reached that galaxies cannot be formed as a result of gravitational perturbations which are initially small. The propagation and absorption of gravitational radiation is also investigated in this approximation. In Chapter 3 gravitational radiation in an expanding universe is examined by a method of asymptotic expansions. The 'peeling off' behaviour and the asymptotic group are derived. Chapter 4 deals with the occurrence of singularities in cosmological models. It is shown that a singularity is inevitable provided that certain very general conditions are satisfied.

Relationships

Alternative form(s):

<https://cudl.lib.cam.ac.uk/view/MS-PHD-05437>

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PhD.54

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About this content

Kate Hodal

@katehodan

Mon 20 Jan 2020 09:42 GMT

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t

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2,908

World's 22 richest men wealthier than all the women in Africa, study finds

Startling scale of inequality laid bare as Oxfam report highlights chronically undervalued nature of care work

A teenager in Mali carries a bucket of water before school. Women in poor countries spend hours carrying water home from distant sources. Photograph: Helen H Richardson/Denver Post via Getty Images

The world's 22 **richest men** have more combined wealth than all 325 million women in Africa, according to a study.

Women and girls across the globe contribute an estimated £8.28tn (\$10.8tn) to the global economy with a total of 12.5bn hours a day of unpaid care work, a figure more than three times the worth of the global tech industry, claims an Oxfam report published on Monday ahead of the **World Economic Forum in Davos**.

The charity says women around the world, especially those living in poverty, do more than three-quarters of all unpaid care work, which is chronically undervalued and taken for granted by businesses and governments alike.

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Institution doesn't mean "academic" institution. The idea is catching on in any type of place that is either producing results with public funding, or sees other benefits in making content easily and quickly available.

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The statistical properties of stars and their dependence on metallicity: the effects of opacity (dataset)

Bate, Matthew R.

Date: 29 April 2014

http://hdl.handle.net/10871/14881

BATE2012.zip (ZIP, 4.174Gb)

BATE2012_0176_0180.zip (ZIP, 17.51Gb)

BATE2012_0181_0185.zip (ZIP, 17.56Gb)

View more

Dataset

Publisher

University of Exeter (dataset)
Oxford University Press (paper)

Related links

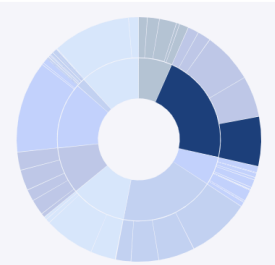
http://hdl.handle.net/10871/16537

Abstract

This is the dataset that was used to produce the paper published in MNRAS. It contains the output from each of the SPH simulations, including dump files and the scripts used to generate the figures for the paper.

View full metadata

Show Statistical Information



Physics and Astronomy


College of Engineering, Mathematics and Physical Sciences

Item views 953

Full item downloads 13,471

<https://ore.exeter.ac.uk/>

The sharing goes far beyond traditional text materials. This dataset has multiple terabytes of data, neatly split into 17GB zipfiles, accessible to anyone who wants it.



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<https://repository.helmholtz-hzi.de/>

Due to the reward and promotion mechanisms, most, if not all research is still being submitted to journals, preferably with high impact factors.

However, versions of these papers can already be made available through repositories in a very early stage.

Even though you see restricted resource and an embargo period in this example, look what happens when you click the Download button.

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And I haven't gotten to the best thing.



The best thing ?

No need to remember the urls to these sites !!!!

The image displays two screenshots of Google Scholar search results. The top screenshot shows a search for "properties of expanding universes" with approximately 48 results. The first result is "Properties of expanding universes" by S. Hawking, published in 1966, with a PDF link to cam.ac.uk. The bottom screenshot shows a search for "Time to care: unpaid and underpaid care work" with 1 result. The result is "[PDF] Time to Care: Unpaid and underpaid care work and the global inequality crisis" by M. Lawson, A. Parvez Butt, R. Harvey, and D. Sarosi, published in 2020, with a PDF link to openrepository.com.

Top Screenshot: "properties of expanding universes"

Google Scholar search results for "properties of expanding universes". About 48 results (0,13 sec).

Any time
Since 2020
Since 2019
Since 2016
Custom range...

Properties of expanding universes
S. Hawking - 1966 - repository.cam.ac.uk
Some implications and consequences of the expansion of the universe are examined. In Chapter 1 it is shown that this expansion creates grave difficulties for the Hoyle-Narlikar theory of gravitation. Chapter 2 deals with perturbations of an expanding homogeneous and ...
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[PDF] cam.ac.uk

Bottom Screenshot: "Time to care: unpaid and underpaid care work"

Google Scholar search results for "Time to care: unpaid and underpaid care work". 1 result (0,06 sec).

Any time
Since 2020
Since 2019
Since 2016
Custom range...

Sort by relevance
Sort by date

[PDF] Time to Care: Unpaid and underpaid care work and the global inequality crisis
M Lawson, A Parvez Butt, R Harvey, D Sarosi... - 2020 - oxfamlibrary.openrepository.com
La desigualdad económica está fuera de control. En 2019, los 2153 millonarios que hay en el mundo poseían más riqueza que 4600 millones de personas. Esta enorme brecha es consecuencia de un sistema económico fallido y sexista que valora más la riqueza de una élite privilegiada, en su mayoría hombres, que los miles de millones de horas del esencial trabajo de cuidados no remunerado o mal remunerado que llevan a cabo fundamentalmente mujeres y niñas en todo el mundo. Cuidar de los demás, cocinar, limpiar ...
☆ ⓘ ⌕

[PDF] openrepository.com

You don't even have to know the repositories **exist**.

The repositories are the infrastructure on which Google Scholar relies to show you those PDF links on the right side. Even though you sometimes have to click that "All X versions" link in order to see the repository version.



DSPACE



Success factors?



Localization support

MIT License

Documentation

Meritocracy

Very specific software scope

Registered service provider program



With an installation base between 2000 and 3000 repositories, depending on how you count, DSpace is the most widely adopted repository solution.

According to me, these are some of the critical success factors that contributed to the success.

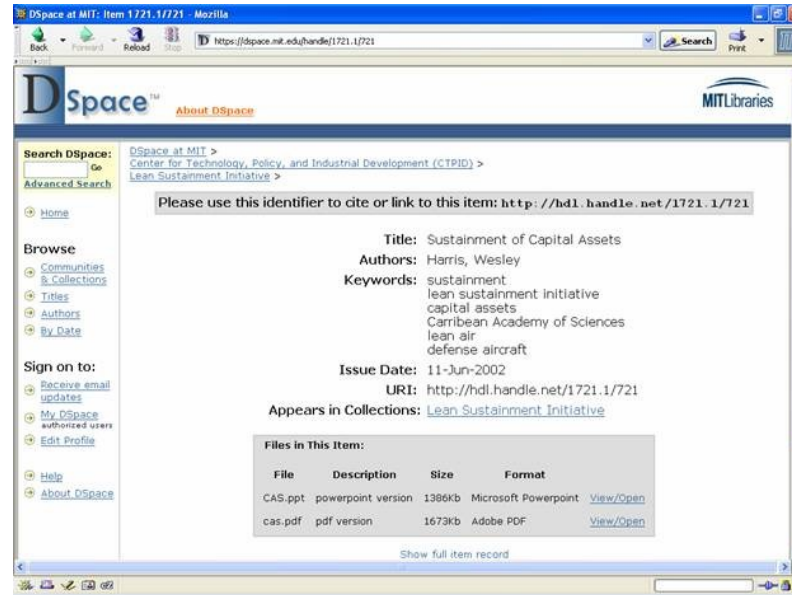
Already in very early versions of the software, there was attention for localisation. This definitely added to the success in non-English speaking countries including Taiwan, China, Japan. In some of these countries, the MIT license has allowed local forks of DSpace to flourish. In China, there's one of these around aptly named "CSpace".

The documentation also sets it apart from other solutions, especially closed source ones, that often don't have their documentation publicly available.

I'm not sure whether the meritocratic aspects of the community, where any developer who has a good idea and code for some improvements, can get it in, is unique. But it definitely helps to empower people and to grow the contributor base.

DSpace does not want to be a tool that can do everything. It's power lies in ingesting and exposing metadata and associated digital assets. Together with the fine grained access control challenges that come with it, it does this very well. It is software people like to use, which is in essence, the key aspect of uptake and growth.

2002 - JSPUI

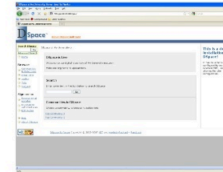


2007 - XMLUI Contributed

Manakin vs JSUI

JSUI (Java Server Pages)

- Difficult to extend
- Monolithic interface



XMLUI (Manakin Framework)

- Modular design
- Multiple interface
- Metadata in native formats



2020 - XMLUI



English ▾ Login

🏠 DSpace Home

DSpace Demo Repository

Welcome to the DSpace.org demonstration/sample repository (Manakin / XMLUI interface)!

This repository is currently running on **DSpace version 6.3**, with the following extra features enabled:

- Mirage 2 responsive theme
- Authority Control (on Authors and Publishers) in Submission process
- Embargo in Submission process
- Item counts in communities/collections are visible
- Community/Collection/Item Statistics are publicly visible
- OpenSearch
- Google Scholar metadata
- SWORD Client
- Mobile Theme
- Elastic Search Statistics (login as admin and browse to any community/collection/item, then choose the last 'View Usage Statistics' link from the menu)
- ORCID integration
- PDF CoverPage generation

The following Demo Users are set up in the system (all users have password equal to the lowercase name of this software):

- Demo Site Administrator = dspacedemo+admin@gmail.com
- Demo Community Administrator = dspacedemo+commadmin@gmail.com
- Demo Collection Administrator = dspacedemo+colladmin@gmail.com
- Demo Submitter = dspacedemo+submit@gmail.com

WARNING: All content on this site resets automatically **every Saturday at 23:59 UTC**, at which point any changes are lost.

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All of DSpace

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By Issue Date

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DISCOVER

Author

Lewis, Stuart (22)


2020 - JSPUI

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DSpace JSPUI

DSpace preserves and enables easy and open access to all types of digital content including text, images, moving images, mpegs and data sets

[Learn More](#)



DSpace Demo Repository

Welcome to the DSpace.org demonstration/sample repository JSPUI interface

This repository is currently running DSpace version 6.3

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DSpace 7 Angular UI



Challenges

Reliance on legacy stack

Community split in 2 UI camps

2016 UI Prototype challenge

2017 Back-end refactoring

2018 First DSpace 7 prototype

2019 Preview release

2020 7.0 - fingers crossed !!!

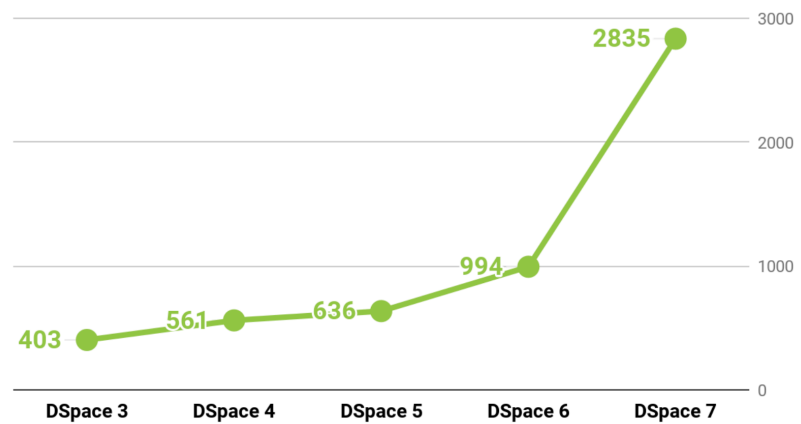


Historically, DSpace has had an almost annual release cycle for major versions, where it basically combined a slate of improvements of whatever contributors could get finished before feature freeze deadline.

One of the things that happened in this fashion over the years, is that an institution contributed an alternative to the standard JSPUI, an XML User interface based on the Apache Cocoon framework. Even though this new UI had advantages over JSPUI, it did not provide feature parity with JSPUI from the start. This resulted in the community essentially getting divided across two UI camps.

With a codebase over 10 years old, doing bigger refactoring and transitions required a different approach. In order to avoid introducing a THIRD UI, we knew feature parity with the best bits of both JSPUI and XMLUI were essential and that we had to get as many people on board as possible. That's why an elaborate UI prototype challenge was used as a method, to have in-depth discussions on the pro's and cons, enabling stakeholders to fully align on the final selected candidate: Angular.

of Code Commits per Major Release



[Video link](#)



Search DSpace ▾

test

Search

Author: Simmons, Cameron ▾ Start Date: 1998 ▾ End Date: 2012 ▾

Filters

Author

☒ Simmons, Cameron

Author name

Date

1998

2012

1998 - 1999

2000 - 2009

2010 - 2012

2

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11

Has files

Item Type

Search Results

Now showing 1 - 10 of 31

Publication

The Diagnostic Sensitivity of Dengue Rapid **Test** Assays Is Significantly Enhanced by Using a Combined Antigen and Antibody **Testing** Approach

(2011-06-01) Simmons, Cameron

BACKGROUND: Serological **tests** for IgM and IgG are routinely used in clinical laboratories for the rapid diagnosis of dengue and can differentiate between primary and secondary infections. Dengue virus non-structural protein 1 (NS1) has been... Rapid **test** for NS1 and determine if it can improve diagnostic sensitivity when used in combination with a commercial...

Publication

Comparison of two dengue NS1 rapid **tests** for sensitivity, specificity and relationship to viraemia and antibody responses

(2010-05-28) Simmons, Cameron

BACKGROUND: Dengue is a major public health problem in tropical and subtropical countries. Rapid and easy diagnosis of dengue can assist patient triage and care-management. The detection of DENV NS1 on rapid lateral flow **tests** offers a fast route... to a presumptive dengue diagnosis but careful evaluations are urgently needed as more and more people use...

[Video link](#)

Image credits

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OAI Conference group picture

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