- Setting the Scene
- School Libraries
- Public Libraries
- Academic Libraries
- Discussion

Open Access (OA)

Ina Smith

LIASA Pre-Conference Workshop

22 September 2014

Introduction

Setting the Scene

What is Open Access (OA)?

http://www.growingyourbaby.com/2013/09/05/new-global-index-exposes-gaps-in-health-care-between-rich-and-poor/

Open Access defined …

"By Open Access, we mean the **free, immediate, availability** on the public Internet of those works which scholars give to the world without expectation of payment – permitting any user to **read**, **download**, **copy**, **distribute**, **print**, **search** or **link** to the full text of these articles, **crawl** them for indexing, pass them as data to software or use them for any other lawful purpose."

Timeline (1990 -):
http://legacy.earlham.edu/~peters/fos/timeline.htm

Source: http://www.sparc.arl.org/resources/open-access/why-oa

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Traditional library

- **Building** containing information resources
- Information sources in **print** format
- Open **6 days a week**, limited hours
- **Users** (downloaders)
- **Collection development**
- **Acquisition, processing, storage, indexing, organ**ising
- **One user, one source**
- **Currency** of publications
- **Challenges** e.g. lost & damaged copies
- **Costs** associated with print
- Physical **space**
- Geographical **areas**
- And more …

Library in the digital age

- **World Wide Web** containing information resources
- Information sources in **digital** format
- Open **24/7**
- **Users** (downloaders) & **Contributors** (uploaders)
- All users can help **build collection**
- **E**-Acquisition, processing, storage, indexing, organising
- **Once source, many users**
- **Currency** of online resources
- **Challenges** e.g. username & password, downtime
- **Subscription** costs
- Virtual **space**
- **Global**
- And more …

Traditional vs Digital

"Quality"

Open Access …

- No username, no password
- Same quality as research behind paywall

Open Access

Paid Access

http://blogs.library.duke.edu/blog/2013/10/11/open-access-panel-discussion/

Why "Open" Access?

- **Research** is **expensive** – funded with tax payers' money
- **Publishing** research on WWW comes at **minimal cost**
- Open access accelerates **pace of scientific discovery**, encourage **innovation**, enrich **education**, stimulate **economy** – to improve public good …

http://www.sparc.arl.org/resources/open-access/why-oa

Open Access can save lives

Jack Andraka (16) invented a diagnostic test for pancreatic cancer http://chronicle.com/article/Open-Access-to-Research-Can/136065

Open Access to advance innovation

Elon Musk released patents as OA to advance innovation in electrical vehicle movement

http://www.dailytech.com/Elon+Musk+Freely+Offers+All+Tesla+Motors+Patents+to+Everyone+Hopes+to+Spur+EV+Movement/article36047.htm

SA Bill of Rights

- Everybody has the right to …
  - Education
  - Information

http://constitutionallyspeaking.co.za/bill-of-rights/Infomration
http://www.belgrade-meu.org/beum-herald/

Human Development Index (HDI)

- Summary measure for assessing long-term progress in three basic dimensions of human development:
  - access to knowledge
  - decent standard of living
  - long and healthy life

HDI high, longer life expectancy …
more aware of health,
better informed, better educated, better lifestyle

HDI rank	Country	Human Development Index (HDI) Value, 2013	Life expectancy at birth (years), 2013	Mean years of schooling (years), 2012 a	Expected years of schooling (years), 2012 a	Gross national income (GNI) per capita (2011 PPP $), 2013
	Very high human development					
1	Norway	0.944	81.5	12.6	17.6	63,909
2	Australia	0.933	82.5	12.8	19.9	41,524
3	Switzerland	0.917	82.6	12.2	15.7	53,762
4	Netherlands	0.915	81.0	11.9	17.9	42,397
5	United States	0.914	78.9	12.9	16.5	52,308
6	Germany	0.911	80.7	12.9	16.3	43,049
7	New Zealand	0.910	81.1	12.5	19.4	32,569
8	Canada	0.902	81.5	12.3	15.9	41,887
9	Singapore	0.901	82.3	10.2 b	15.4 c	72,371
10	Denmark	0.900	79.4	12.1	16.9	42,880
57	Russian Federation	0.778	68.0	11.7	14.0	22,617
79	Brazil	0.744	73.9	7.2	15.2 q	14,275
91	China	0.719	75.3	7.5	12.9	11,477
118	South Africa	0.658	56.9	9.9	13.1 p	11,788
135	India	0.586	66.4	4.4	11.7	5,150

Very high

High

Medium

United Nations Development Programme (2014)

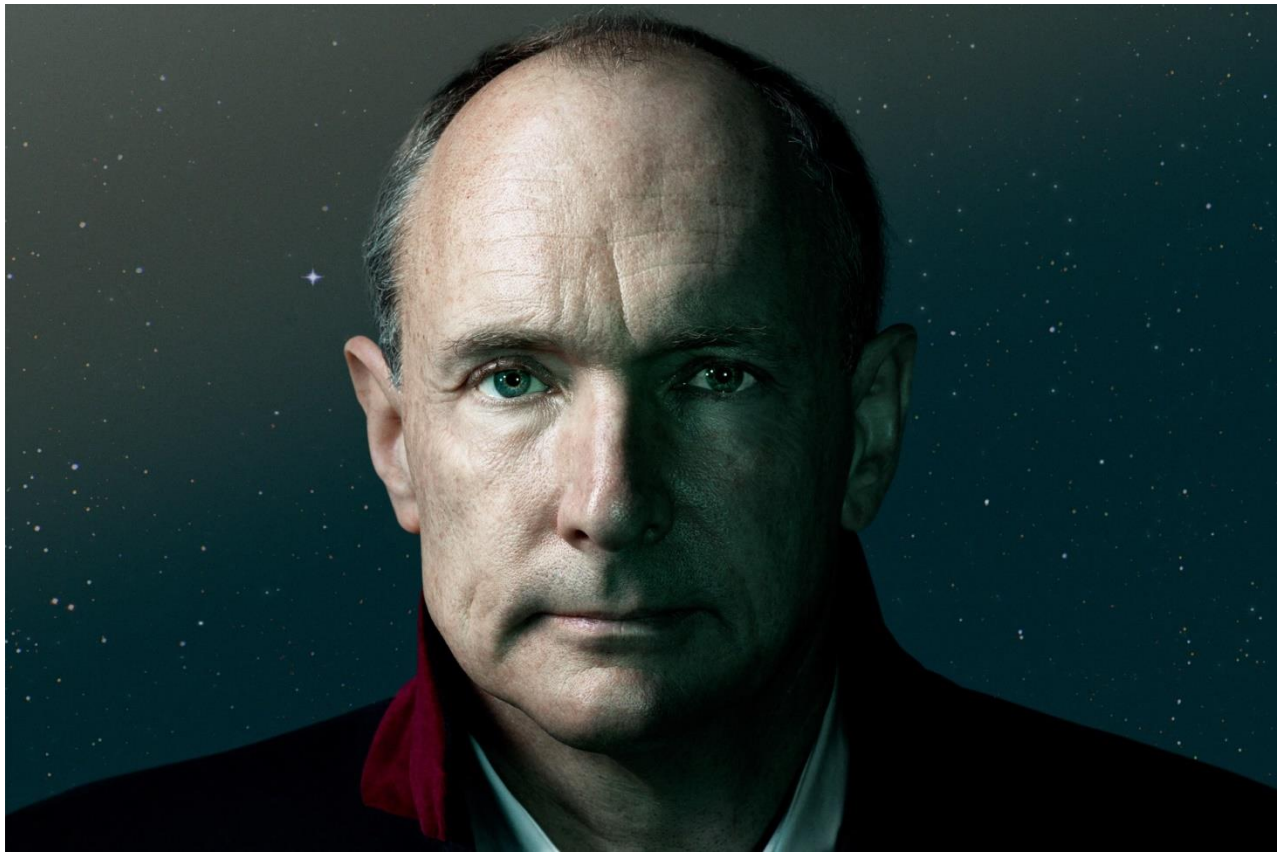
http://hdr.undp.org/en/content/table-1-human-development-index-and-its-components

Information needs

- Start a private company
- Pet care
- News from all over the world
- Find a hotel, directions, how to get there
- Medical diagnosis
- Play an instrument
- Law e.g. wrongful dismissal
- Find a house
- Telephone directory

Tim Berners-Lee (8 June 1955 -)

English Computer Scientist & Inventor of WWW



Internet (incl. WWW)

Conferences

Library

Mail

Music

Newspaper

Radio

Videos

Academic Journals

Popular Magazines

Internet (incl. WWW) (1991)

"The WorldWideWeb (WWW) project aims to allow all links to be made to any information anywhere. [...] The WWW project was started to **allow high energy physicists to share data**, **news**, and **documentation**. We are very interested in spreading the web to other areas, and having gateway servers for other data. Collaborators welcome!"

—from Tim Berners-Lee's first message

Tim Berners-Lee 25 years later

"Very soon, millions more sensors, appliances and other devices large and small will take the web to **new places**. The potential excites me and concerns me at the same time -- that makes the web worth our **ongoing stewardship**. We must **build and defend it** now so that those who come to it later will be able to create things that we cannot ourselves imagine.

I believe that the future of the web is under threat from some **governments** that may **abuse their powers**, some **businesses** that may try to **undermine the open market**, and from **criminal activity**. "

http://www.wired.co.uk/magazine/archive/2014/03/web-at-25/tim-berners-lee

"The **good news** is that the web has **openness** and **flexibility** woven into its fabric. The protocols and programming languages under the hood -- including URLs, HTTP, HTML, JavaScript and many others -- have nearly all been designed for evolution, so we can **upgrade** them **as new needs, new devices and new business models expose current limitations**."

http://www.wired.co.uk/magazine/archive/2014/03/web-at-25/tim-berners-lee

"Open platforms **let users choose which software** to install. The **open-data** movement seeks to **boost governments' economic efficienc**y, **knowledge** and **public trust** by **liberating people's data**. Like decentralisation, **openness empowers people**, contributing to the **innovation** that produces **economic and social gains**."

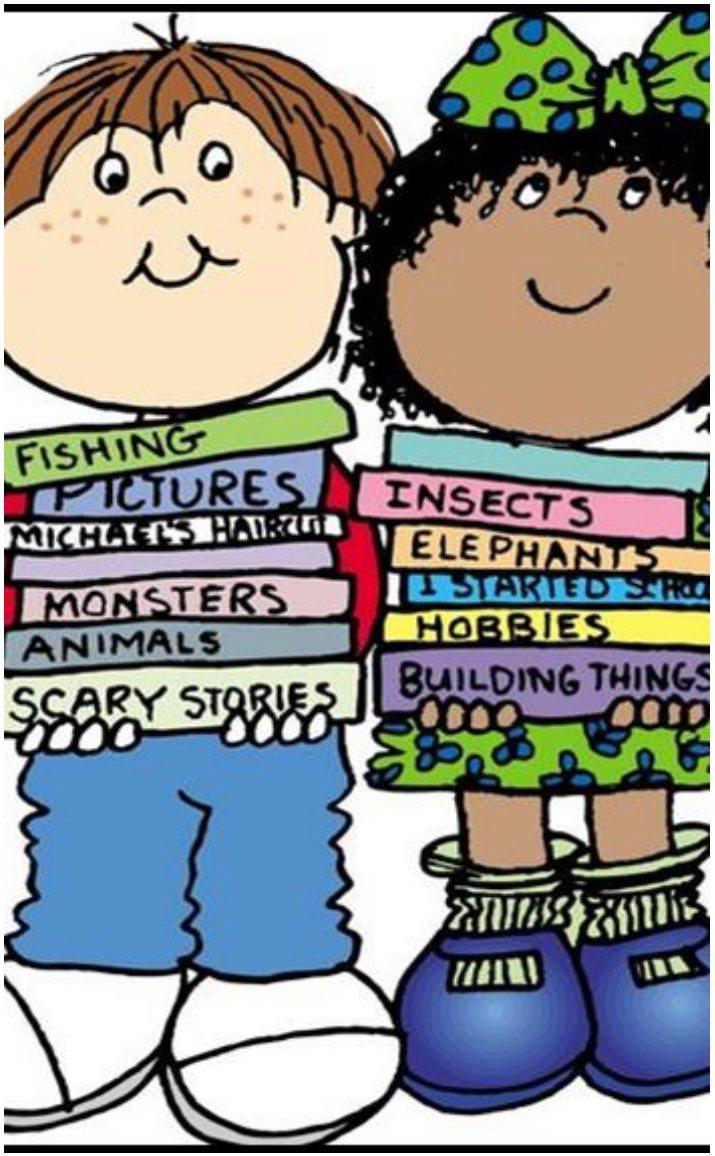
http://www.wired.co.uk/magazine/archive/2014/03/web-at-25/tim-berners-lee

"It seems unthinkable that the web is already 25 years old, and many of us can barely imagine life without it. **We all helped to build this**, and the web's **future still depends on us**. All of us must use our **creativity**, **skills** and **experience to make it better**: **more powerful, more safe, more fair and more open**."

http://www.wired.co.uk/magazine/archive/2014/03/web-at-25/tim-berners-lee

"Let us choose …the
Web We Want,
and thus, the
World We Want."

Tim Berners-Lee



School (& Public) Libraries

Open Access for School Libraries

Role of school library

- Help learners to …
  - Develop critical thinking skills
  - Foster innovation, inquiry, curiosity
  - Find answers – solve problems
  - Evaluate information
  - Construct new knowledge
  - Different learners, different needs
  - Needs of facilitators/teachers

Benefits of OA

- Find quality & relevant literature
- Contributes to core mission of advancing knowledge
- Democratizes access across all institutions – regardless of budget/size
- Enriches quality of education
- Ensures access to all learners need to know, rather what school can afford
- Contributes to better-educated workforce
- Self-learning & citizen scientists

http://www.sparc.arl.org/resources/open-access/why-oa

Fiction

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Download all the Brothers Whim books for free right here.

Stick's Masterpiece
Book 1 – Stick's Book Series

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- Video: download mp4

- Watch on YouTube

Fiction

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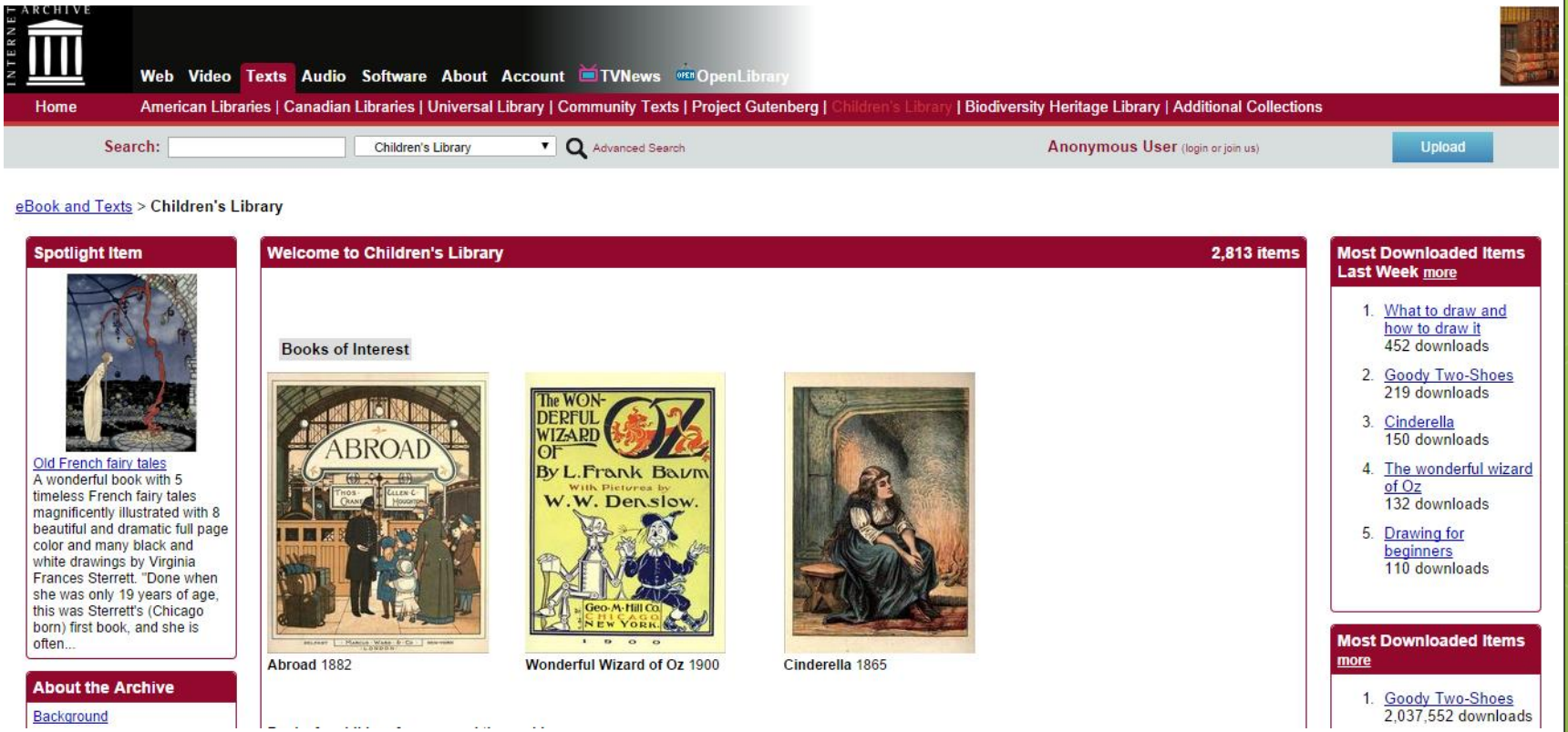
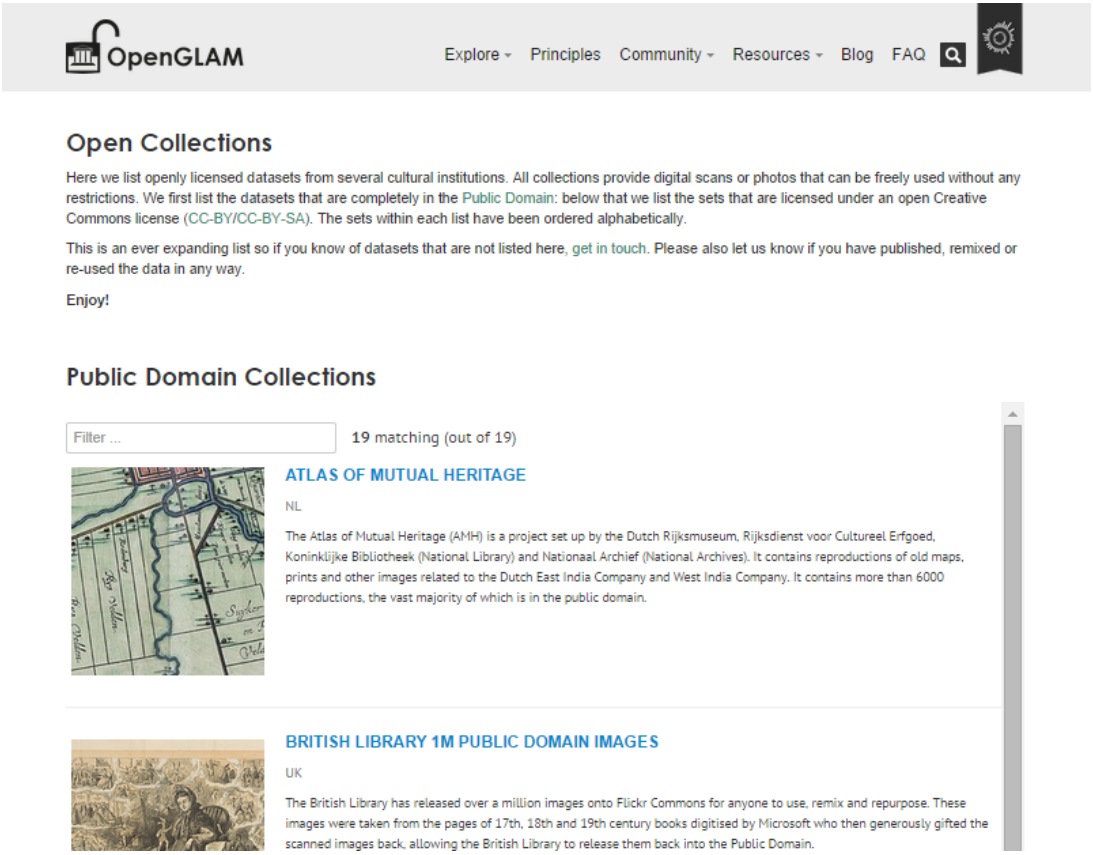
Welcome to Aaron's home page! Here are loads of free treats and resources for teachers, librarians, storytellers, children's authors, parents, kids, and more—all from award-winning author Aaron Shepard. You'll also find info on Aaron and his books. (Self publishers, though, should go here.)
So, where are the goodies? A complete menu is below. Just scroll down and enjoy.

Children's classics



Images

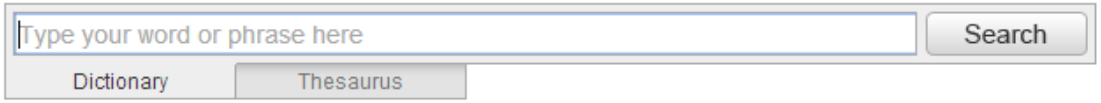


The Wellcome Library

Tutorials, Games, Apps

Encyclopaedias

Dictionaries



MACMILLAN DICTIONARY

Open Dictionary

General knowledge

25 of the strangest objects ever found inside a human body.

25 Strangest Things Found on an X-Ray
www.iflscience.com

Usually when a person needs an x-ray done, it's to examine a broken arm or leg. In the video below though, doctors found much weirder things lodged in their patients. Scissors, grenades, batteries, wedding rings, chair legs, nails, and bathroom taps...

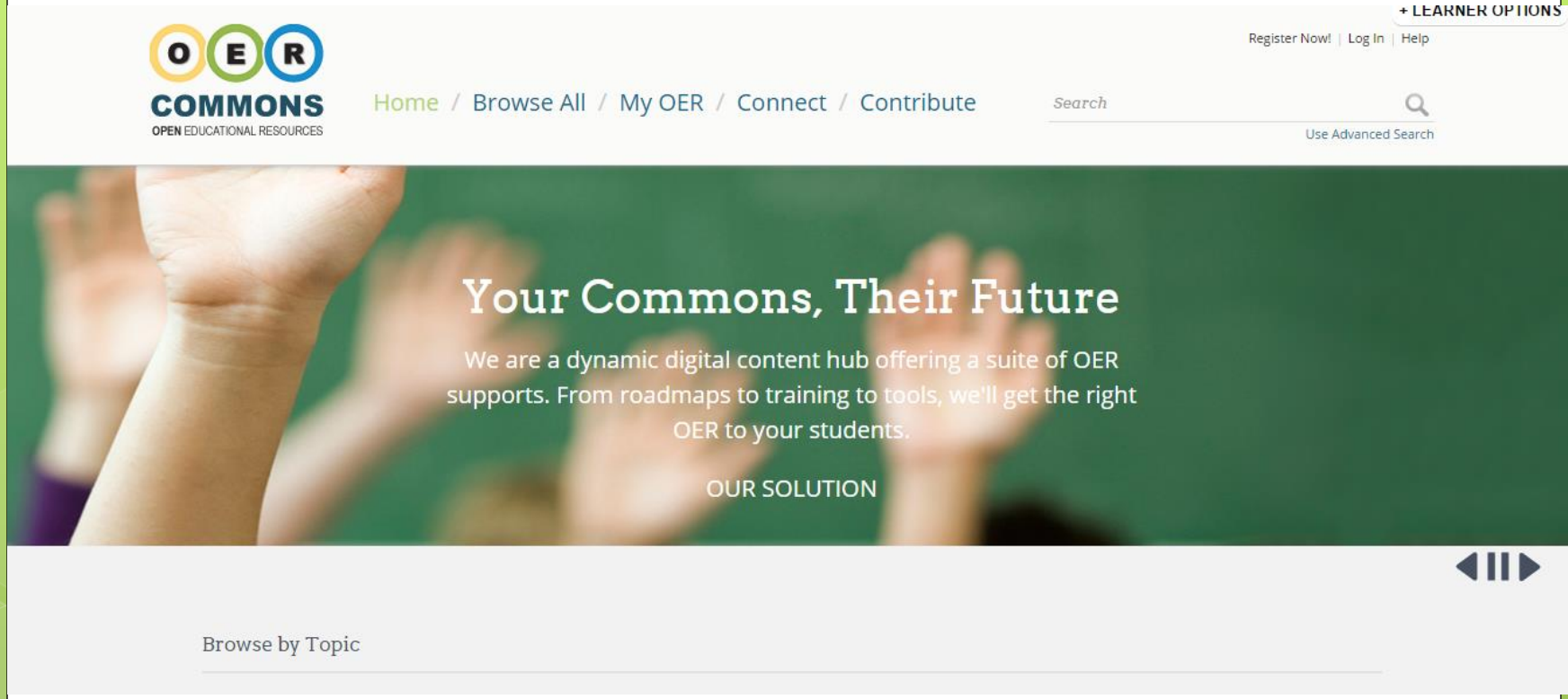
This is AMAZING! It's like waves in the sky. Seriously, this video looks like something out of Harry Potter.

Amazing Timelapse Of Asperatus Clouds Reminds Us That Clouds Can Act As A Fluid Too!
www.iflscience.com

Check out this absolutely EXTRAORDINARY time-lapse of Asperatus clouds taken in Lincoln NE, on July 7 2014 by storm-chaser Alex Schueth.

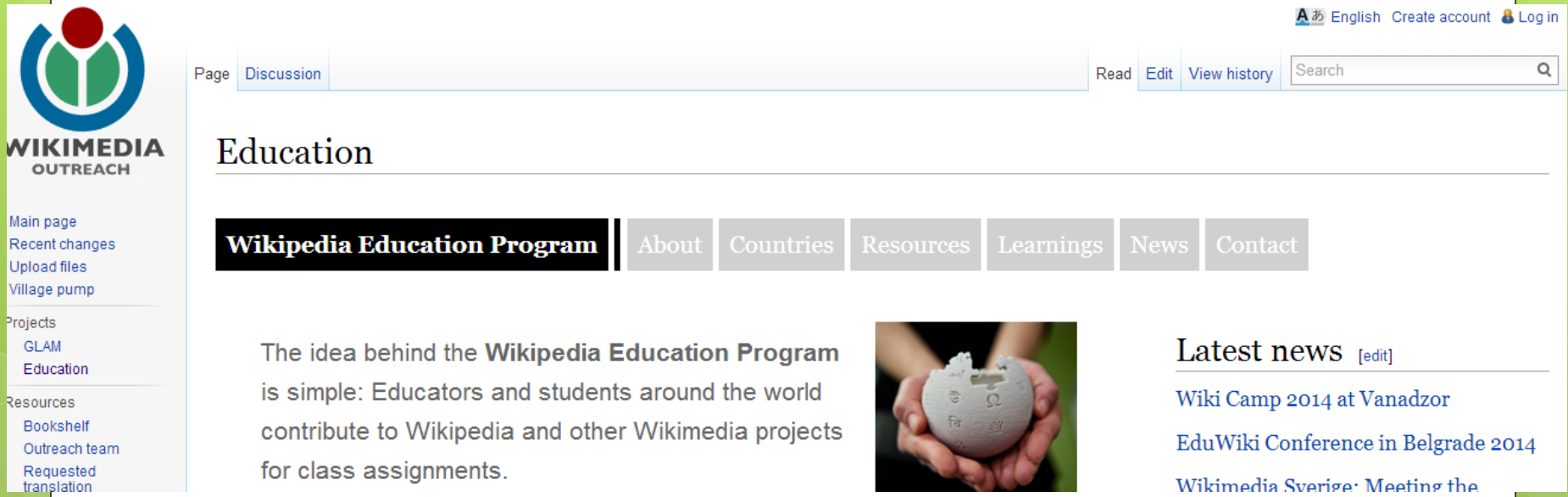
Open Educational Resources (OERs)

- Learning and teaching materials, freely available online for anyone to use
  - http://www.jisc.ac.uk/publications/programmerelated/2013/Openeducationalresources.aspx
  - http://teacherswithoutborders.org/resource/open-education-libraries



https://www.oercommons.org/

http://outreach.wikimedia.org



Educators and students around the world contribute to Wikipedia and other Wikimedia projects for class assignments

School libraries promoting OA

- Repository of learning & teaching material (OER)
- Repository of test and exam papers
- Repository of school photos, documentation, newspaper clippings
- Web page/blog with useful links for teachers & learners
- Network internationally
- Join existing projects
- Awareness – OER's
- Open Access Week
- And more ….

Public Libraries

Open Access for Public Libraries

Role of public library

- Users – children, adults, business, and more
- Welcoming community space
- Lifelong learning
- Adult education & literacy
- Help build a democratic society
- Help rate quality resources
- Collaborate with other institutions, schools, businesses
- More diverse needs

Benefits of OA

- Research funded with tax payers money … therefore public has a right to free access
- Access to info on health, energy, environment, and other areas of broad interest
- Creates better educated population – higher HDI – longer life expectancy
- Encourages support of scientific enterprise and engagement in citizen science
- New opportunities, new skills – self empowerment

http://www.sparc.arl.org/resources/open-access/why-oa

Open Access article

A high incidence of species substitution and mislabelling detected in meat products sold in South Africa/Cawthorn, Donna-Maree Steinman, Harris A. Hoffman, Louwrens C.

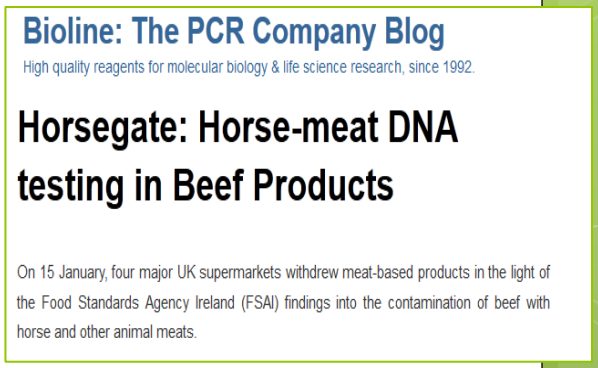
Subscription article (Elsevier):

Cawthorn, D-M., Steinman, H.A., & Hoffman, L.C. 2013. A high incidence of species substitution and mislabelling detected in meat products sold in South Africa. **Food Control**, 32(2), doi: http://dx.doi.org/10.1016/j.foodcont.2013.01.008

Open Access Copy	Downloads
12 November 2013	984
13 May 2014	1 534

Sparked dialogue (also on social media), investigations, additional reviews of article …..

We want to encourage dialogue and have results scrutinised – along scientific principles.



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More like this

- Meat Inspections & Labeling in SA: Depts of Agriculture, Health, Trade & Industry, Stellenbosch & Western Cape Universities
- Ncera Farms Forensic Investigation Report postponed, Meat Inspection services & labelling: Departments Health, Trade and Industry, Agriculture, Forestry Fishery presentations
- Meat Inspection Proposals & Working Group recommendations: Departmental briefing, Nominations for Agricultural Research Council Board deferred
- Meat Safety Bill: briefing
- Food labelling in South Africa: feedback by Department of Agriculture, Forestry and Fisheries, Department of Health & Department of Trade and Industry

Report back from Departments of Health, Trade and Industry, and Agriculture, Forestry and Fisheries on meat inspection services and labelling in South Africa

» Printer-friendly version

Agriculture, Forestry and Fisheries

Date of Meeting: 21 Jun 2013
Chairperson: Mr M Johnson (ANC) & Dr BM Goqwana (ANC)
Documents handed out:

Report from DTI on strengthening food control & food labelling

Food Safety and Food Control in South Africa: specific reference to meat labelling (DTI, DAFF ...

Audio recording of the meeting:
PC Agric: Report-back from Departments of Health, Trade & Indus... ...ection

Summary:

The Departments of ... ...ing of the Portf... DAFF ... concerns ...afety and

...ctors had proposed how challenges in the food value ...ructures would harmonise information and strengthen what was ...d by Cabinet, a more detailed action plan -- with resources and time frames -- would ...he earliest possible date for Cabinet approval would be in August. DAFF was currently leading the

The National Consumer Commission investigation would be completed by the first week of July 2013, and a comprehensive report of the findings and recommendations would then be compiled. It could not comment on its observations at this stage.

Members asked which department was the main driver of the process; which department was responsible for monitoring border control and the abattoirs; why imports from Brazil and India had been stopped; if inspection services monitored all imports; and if the departments could guarantee that the food was fresh, pure and not contaminated when it reached the shelves for consumers. They also asked if SARS identified the countries from which South Africa imported meat and how SARS fitted into the structure; how many products that were refused entry in another country were imported into SA; and for a list of South Africa's import standards compared to international standards.

Resulted in Investigations by Dept. of Health, Trade and Industry, Agriculture, Forestry and Fisheries

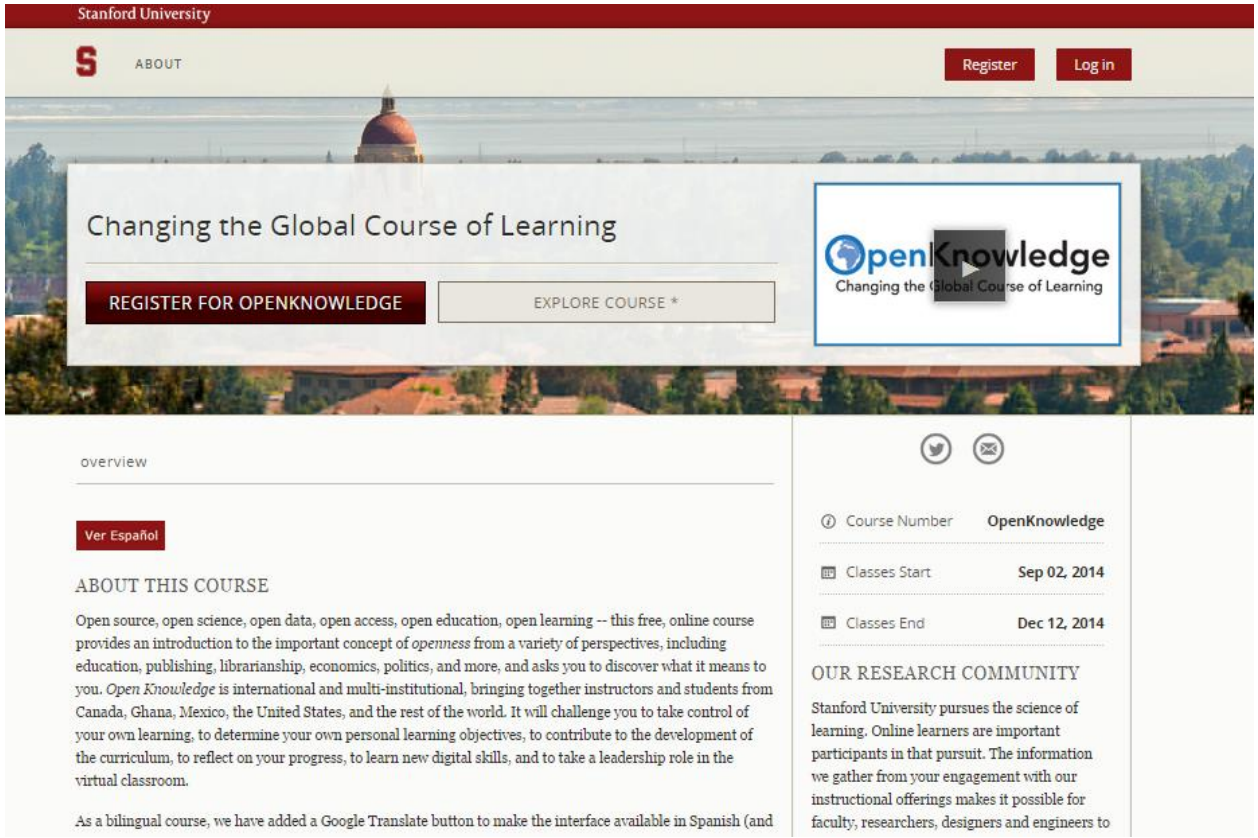
MOOCs

"A **massive open online course** (**MOOC**) is an **online** course aimed at **unlimited participation** and **open access** via the web. In addition to traditional course materials such as videos, readings, and problem sets, MOOCs provide **interactive** user forums that help build a community for students, professors, and teaching assistants (TAs). MOOCs are a recent development in **distance education** which began to emerge in 2012."

http://en.wikipedia.org/wiki/Massive_open_online_course

Example 1

CLICK HERE



Example 2

CLICK HERE

Creating Video Games

COURSE HOME

SYLLABUS

THIS COURSE AT MIT

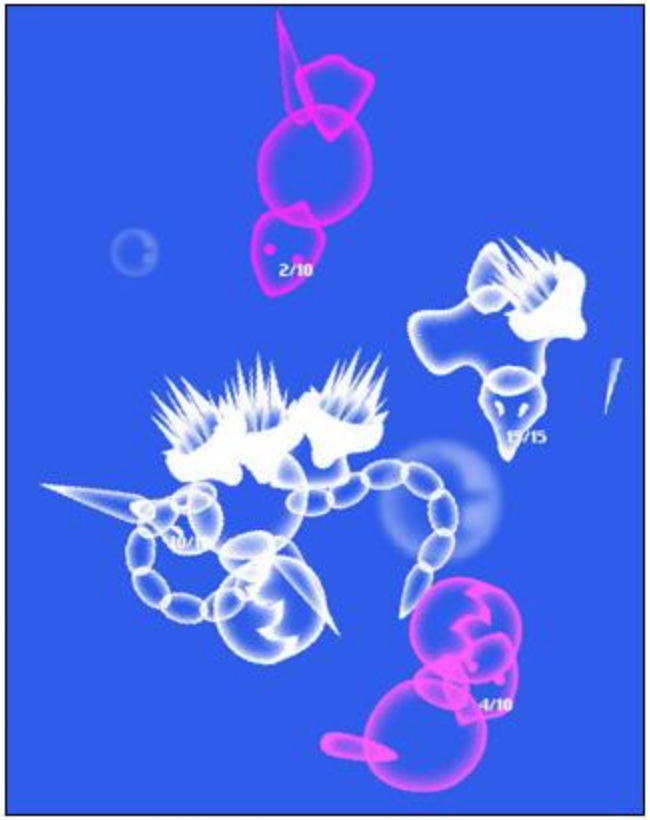
PROJECTS

CALENDAR AND READINGS

AUDIO LECTURES

GAMES

DOWNLOAD COURSE MATERIALS



Screenshot of Aquatic Evolver, a video game created by a group of MIT Students. (Courtesy of MIT Students. Used with permission.)

Instructor(s)
Philip B. Tan

Richard Eberhardt

Sara Verrilli

MIT Course Number
CMS.611J / 6.073J

As Taught In
Fall 2013

Level
Undergraduate

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Epigenetic Regulation of Stem Cells

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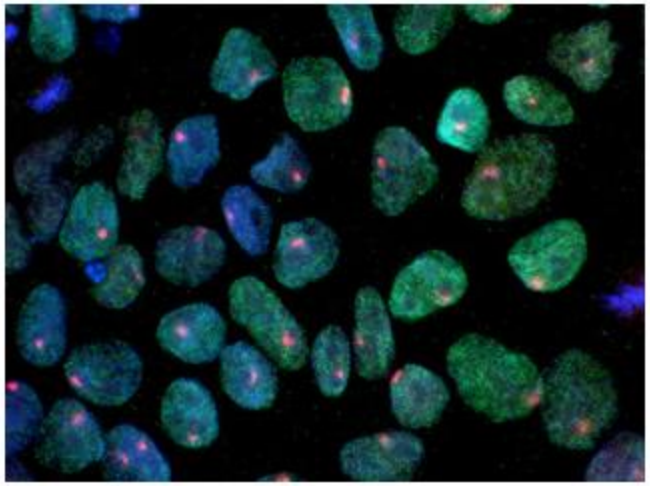

Induced pluripotent stem cells (iPSCs) derived from skin cells. The regions shown in green are proteins found in iPSCs but not found in skin cells. The red dots show the inactivated X chromosome in each cell. These cells can develop into a variety of possible cell types. See Lecture Summary 3 for more information on iPSCs. (Image by Kathrin Plath lab, University of California, Los Angeles, via CIRM, NIGMS.)

Instructor(s)
Dr. Eric Williams
Dr. Vidya Subramanian

MIT Course Number
7.347

As Taught In
Spring 2014

Level
Undergraduate

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What is Capitalism?

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Instructor(s)
Prof. Christine Walley

MIT Course Number
21A.461

As Taught In
Fall 2013

Level
Undergraduate

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Public libraries promoting OA

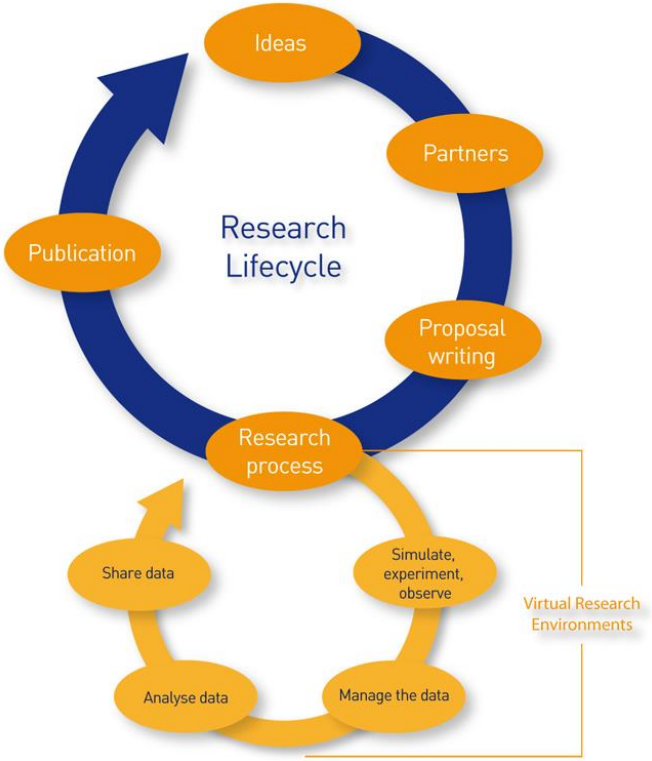
- Collaborate with school & academic libraries
- Repository of community information
- Promote OA resources
- Web page/blog with useful links for users
- Join existing projects
- Awareness – MOOCs
- Unemployment … new skills
- Open Access Week
- And more ….

Academic Libraries

Open Access for Academic Libraries

Role of academic library

- Support research
- Increase research throughput
- Disseminate research output



http://www.jisc.ac.uk/whatwedo/campaigns/res3/jischelp.aspx

Benefits of OA

- Increases readers' ability to find & use relevant literature
- Increases the visibility, readership and impact of author's works
- Creates new avenues for discovery in digital environment
- Enhances interdisciplinary research
- Accelerates the pace of research, discovery and innovation

http://www.sparc.arl.org/resources/open-access/why-oa

Benefits - Funders

- Leverages return on research investment
- Creates tool to manage research portfolio
- Avoids funding duplicative research
- Creates transparency
- Encourages greater interaction with results of funded research

http://www.sparc.arl.org/resources/open-access/why-oa

Open Access Publishing

- Articles are free to all interested readers, and the publishers place no financial or copyright barriers between the readers and the article
- Directory of Open Access Journals http://doaj.org/

http://www.sparc.arl.org/resources/open-access/why-oa

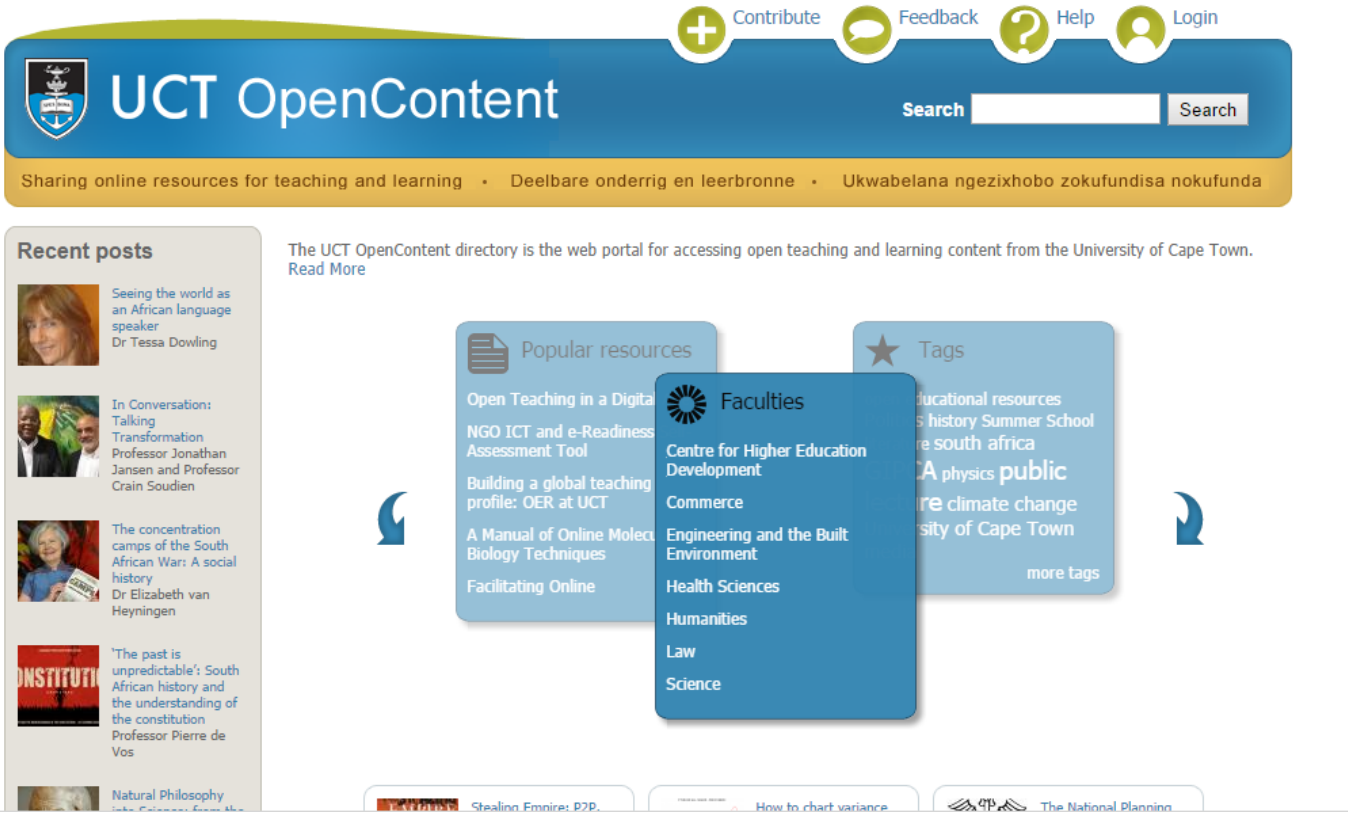
Institutional Repositories

- Authors can choose to deposit their research articles in digital archives (often called Digital Repositories or Institutional Repositories) which conform to the standards of the Open Archives Initiative (OAI), and enable readers to freely access and fully reuse the article text
- OpenDOAR http://www.opendoar.org/

http://www.sparc.arl.org/resources/open-access/why-oa

Open Educational Resources (OER)

CLICK HERE



Effectively Managed Author Rights

- As the authors of a research paper, you have ability to ensure that your article can be accessed and used by the widest possible audience. Tools such as Addenda to traditional Copyright Transfer Forms are readily available, proven resources that can help you understand open licenses, and to publish your articles under full Open Access conditions
- SPARC Authors Rights http://www.sparc.arl.org/resources/authors/addendum

http://www.sparc.arl.org/resources/open-access/why-oa

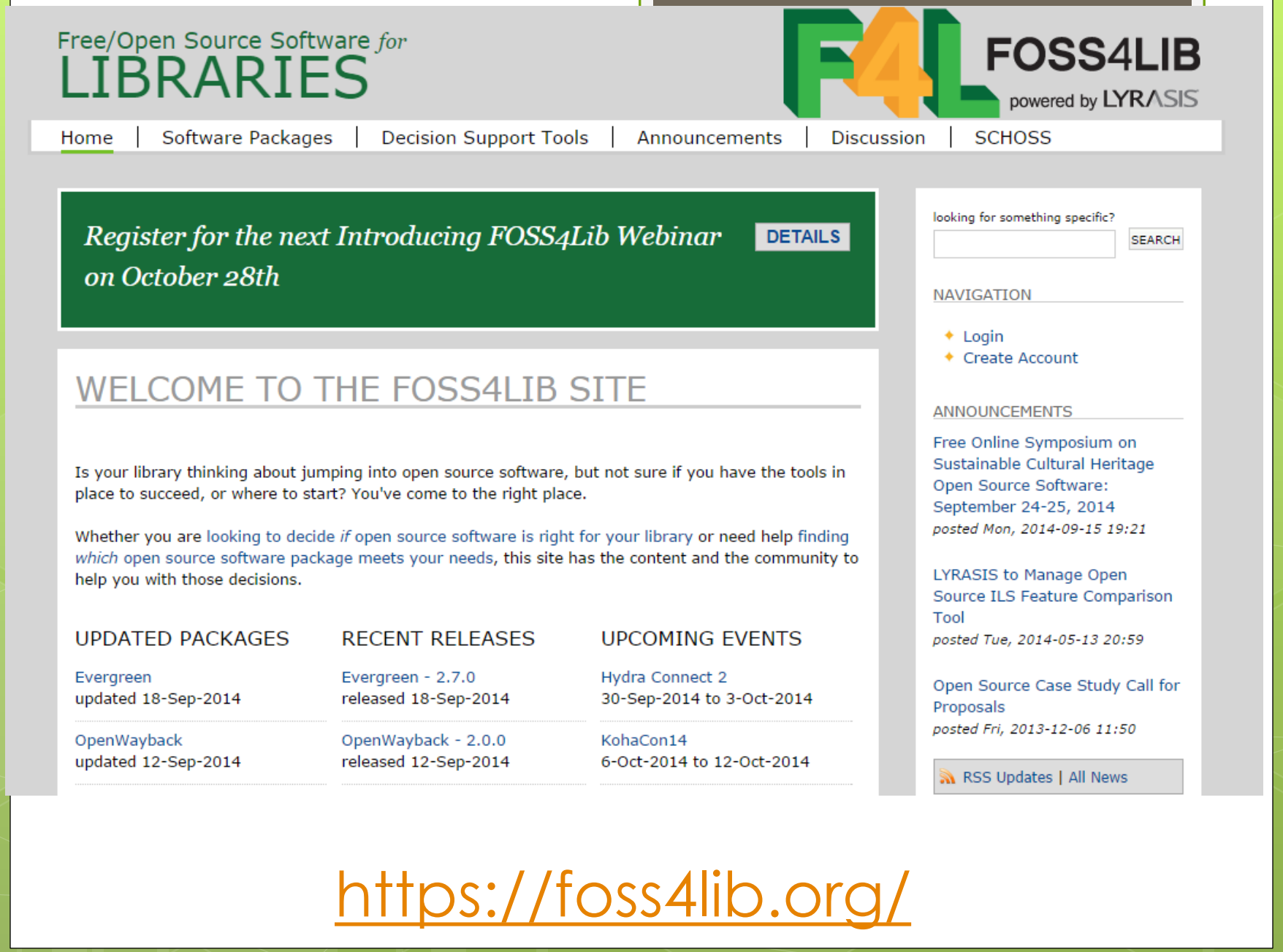
Open Access policies

- Institutions that support research, from public and private research funders to higher education institutions, can implement effective policies that that support making Open Access to scholarly research articles the default mode for their researchers
- National http://www.sparc.arl.org/advocacy/national
- Funders http://www.sherpa.ac.uk/juliet/index.php?la=en&mode=simple&page=browse

http://www.sparc.arl.org/resources/open-access/why-oa

Open Source Software

- 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
- Open source software (OSS) is very often developed in a **public, collaborative manner**
- Open-source software is the most prominent example of open-source development and often compared to (technically defined) user-generated content or (legally defined) open-content movements



https://foss4lib.org/

Open Data

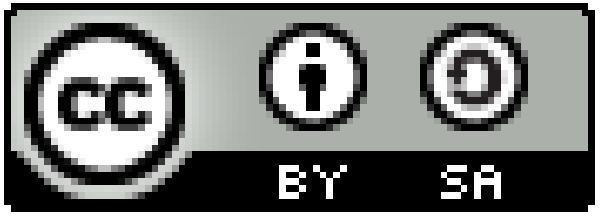
http://www.re3data.org/

TED
TIMBERNERS-LEE

Let's work towards an **OPEN** future and life for all!

"Let us choose …the
Web We Want,
and thus, the
World We Want."

Tim Berners-Lee



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