Linking Education Data

emtacl10
emerging technologies in academic libraries
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#1 Technology evolution
evolution of the internet
JANUARY 1, 2000

THE COMPUTER CRASH OF THE MILLENNIUM!

ALL BANKS WILL FAIL!

FOOD SUPPLIES WILL BE DEPLETED!

ELECTRICITY WILL BE CUT OFF!

THE STOCK MARKET WILL CRASH!

VEHICLES USING COMPUTER CHIPS WILL STOP DEAD!

TELEPHONES WILL CEASE TO FUNCTION!

DOMINO EFFECT WILL CAUSE A WORLDWIDE DEPRESSION!
systems of record

Library Management System

Student Records System

Finance System
integration has to be planned
Netbook (Shipments)

 Millions of users living in the cloud

Laptops → Netbooks → Tablets ← Phones

Research - Nov 4th, 2009

http://www.flickr.com/photos/ndevil/4117337167/sizes/o/
transactions vs. interactions

#2: Linked data

[Diagram showing a network of linked data resources]

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The web circa 1991

World Wide Web

The WorldWide Web (WWW) is a wide open hypertext information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Making live - Policy, November's W3 news, Frequently Asked Questions.

What's out there? Points to the world's online information, networks, W3 servers, etc.

Help - on the browser you are using

Software Products - A list of W3 project components and their current status (e.g. Line Mode, X11 Viewer, Netscape, Java, Motifview).

Technical - Details of protocols, formats, programs, libraries etc.

Bibliography - Paper documentation on W3 and references.

People - A list of some people involved in the project.

Privacy - A summary of the privacy of the project.

How can I help? - If you would like to support the web.

Getting code - Getting the code by anonymous FTP, etc.

World-Wide Web Bibliography

The following lists pages and articles about the W3 initiative and related matters which you may want to pick up for background reading or use as references. You can use one of these lists to page any page you read with W3 by its document address.

Introduction to W3


The global hypertext dream comes true in practice.

Pick up the project in postscript form from anonymous FTP to info.cern.ch, in pub/www/doc, filename ENVRAP ascent.ps.

The Whole Internet


A book all about using the internet, for professionals but not necessarily computer professionals. Has a chapter on WWW specifically, and an appendix with a list of resource available on the net.

Technical Overview of W3

Designed for appropriation
Data designed for appropriation
The deer family (Cervidae) has 44 living species, including the moose, muntjac and caribou. The males of all species of deer except the Chinese water deer have antlers. In caribou, both sexes have antlers.

**Genus**

- Dama
- Elaphurus
- Ruc
- Bk, red and sika deer

**Scientific Classification**

- Kingdom: Animalia (animalia)
- Phylum: Chordata (Chordata)
- Class: Mammalia (Mammalia)
- Order: Even-toed ungulates (Artiodactyla)
- Family: Deer (Cervidae)

**Other Artiodactyla**

- Antilocapridae (species: Pronghorn antelope)
- Camels, llamas and alpacas (Camelidae)
- Cattle, antelopes and silvies (Bovidae)
- Giraffes and okapis (Giraffidae)
- Hippopotamidae (species: Hippopotamus)
- Hogs and pigs (Suidae)

**Elsewhere on the Web**

- Animal Diversity Web (animaldiversity.ummz.umich.edu)
- Deer (wikipedia.org)
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ELSEWHERE ON THE WEB

- Animal Diversity Web (animaldiversity.ummz.umich.edu)
- Deer (wikipedia.org)
Open data
Why?
Vote for your MP and councillors in Sutton

On 6 May 2010 you can vote to choose your local MP and help to decide the next government of the country.

You can also elect your local councillors and help to decide who runs Sutton Council.

Who you can vote for depends on where you live. You can find your local candidates and get more information on how the elections work here.

My postcode is SM1 1EA Find it

Home
How the parliament election works
How the council election works
Sutton Council wards
About this website
Where did my tax go?

Have you ever wondered where your tax payments went? Well, enter your details below and we'll calculate it now. Go on, it's FREE and only takes a few seconds, you can see:

1. how much you have paid in tax since 2003
2. ...and where it was spent!

Step One.
What was your Gross Income in each of these tax years?

- 2010/2011
- 2009/2010
- 2008/2009
- 2007/2008
- 2006/2007
- 2005/2006
- 2004/2005
- 2003/2004

Step Two.
Your Current Age and Sex?

- Age
- Sex

How it works

Please enter your total gross incomes for each of the tax years listed to the left and provide your sex and current age.

We will take your details and accurately calculate the total tax due for each of those tax years based upon your personal allowances and tax rates/bandings for that tax year.

We then use data taken from Public Expenditure Statistical Analyses (PESA) published by HM Treasury, using the percentage of central government spending per sector and apply it to the amount of tax you paid in each year covered.

This gives details of where an approximate amount of your money has been spent by the government.
Mapping data and geographic information from Ordnance Survey

Create and support innovative, exciting ideas and applications using Ordnance Survey mapping. With OS OpenData you can access a selection of the most detailed mapping datasets available for Great Britain.

**view**
- Outline of Great Britain
- Overview of Great Britain
- MiniScale®
- 1:250 000 Scale Colour Raster
- OS Street View®
- Boundary-Line™

**develop**
- Create amazing web applications
- Enhance online projects
- Put Ordnance Survey maps on your website

Our API uses JavaScript to make web pages more interactive, anyone can create an application by following simple code and tutorials.

**supply**
Order OS OpenData on hard media or download direct to your PC, Mac or laptop (please note - you may need specialist GI data software to view and use this data...)

Image Credit goes here
still at the very start of this disruption...
...the real disruption is in how behaviours are modified: changing policies, approaches to licensing, challenging data ownership.
A widespread change in behaviour takes 5-10 years to become mainstream
#3 Open education

the idea that the world’s knowledge is a public good and that the Web provides an opportunity for everyone to share, use, and reuse knowledge
find,
reuse,
remix.
technology-enabled
Remixable textbooks by expert authors. Free online and affordable offline.

We preserve the best of the old — books by leading experts, peer-reviewed and developed to high editorial standards, fully supported by review copies, teaching supplements and great service. Then we change everything. Our textbooks are:

- Free online
- Affordable offline
- Open–licensed
- Customizable by educators

Educators choose the book — students choose format and price. Everybody wins.

View Our Catalog

Faculty, click to learn more.
Are you a student? Get more info.

Educator Book Finder
Search for a Flat World Knowledge textbook, or browse our full catalog.

Student Class Finder
Use the search box below to find the book for your class.
Can’t find it? Browse the full class list.

Find a book by title, author, discipline or subject
Search

Find your class by school, professor or course name
Search
the real disruption:

changing policies,
approaches to licensing,
challenging data ownership.

THE CAPE TOWN OPEN EDUCATION DECLARATION
shared innovation™

Open Educational Resources
key takeaways:

- Systems of record still important
- Embracing linked data will allow unconstrained and unplanned innovation
- The challenge is not technology, it is policy and mindset
Over to you....
Over to you....

What data can you open up?

What innovations might this enable?

Who is going to be the first open data university?
Over to you....

http://linkeddata.org
http://www.data.gov.uk
http://www.talis.com/nodalities
http://www.talis.com/education
shared innovation™
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- to Remix — to adapt the work

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