## The controversies within Open Data publishing

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Researching Linked Open Data publishing at







More info: http://pieter.pm





For instance, the Web should be able to answer: What's the route to work with the highest chance to see a waterbird?

ersel-Dreef

Zunder

kske

Open Trip Planner with data by @openov



peterdesmet on Mar 12 Migrate files from existing dataset repos

### **The Open Definition**

The **Open Definition** sets out principles that define "openness" in relation to **data and content**.

It makes **precise** the meaning of "open" in the terms **"open data"** and **"open content"** and thereby ensures **quality** and encourages **compatibility** between different pools of open material.

It can be summed up in the statement that:

"Open means **anyone** can **freely access, use, modify, and share** for **any purpose** (subject, at most, to requirements that preserve provenance and openness)."

Put most succinctly:

OpenDefinition.org

"Open data and content can be **freely used, modified, and shared** by **anyone** for **any purpose**"

# **Documents on the web**



# **Open Data**

Because public data increases its value when it gets reused

# **3 controversies**

Linked Data
Maximise reuse, or functionalities?
Why? Where's the money?



## Web of Documents

Chordate

From Wikipedia, the free encyclopedi



### Designed for humans

CC

This article is about the animal phylum. For the lear shape, see Cordate

Chordates (/<u>kordetts</u>) are animals possessing a notochord, a hollow dorsal nerve cord, pharyngeal slits, an endostyle, and a post-anal tail for at least some period of their life cycles. Taxonomically, the phylum includes the subphyla Vertebrata, including mammals, fish, amphibians, reptiles, birds; Tunicata, including salps and sea squirts; and Cephalochordata, comprising the lancelets. Members of the phylum Chordata are bilaterally symmetric, deuterostome coelomates, and the vertebrate chordates display segmentation.

The phylum Hemichordata including the acorn worms has been presented as a fourth chordate subphylum, but it now is usually treated as a separate phylum. It, along with the phylum Echinodermata, including starfish, sea urchins, and sea cucumbers and their kin, are the chordates' closest relatives. Primitive chordates are known from at least as early as the Cambrian explosion.

Of the more than 65,000 living species of chordates, about half are bony fish of the class Osteichthyes. The world's largest and fastest animals, the blue whale and peregrine falcon respectively, are chordates, as are humans.<sup>[3]</sup>

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The X-ray tetra (*Pristella maxillaris*) is one of the few chordates with a visible backbone. The spinal cord is housed within its backbone.

Scientific classification

Animalia

Chordata Haeckel, 1874<sup>[1][2]</sup>

Deuterostomia

Kingdom:

Phylum:

Superphylum:

## Web of Documents



... it was mainly hard for people to imagine that this hypertext system would scale up to where it is today

It's the community that made it happen:  $\rightarrow$  we're all doing our part









#### **DBpedia – Linked Data Fragments**

#### DBpedia 2014

Query DBpedia 2014 by triple pattern

subject:		
predicate:	http://dbpedia.org/ontology/phylum	
object:	http://dbpedia.org/resource/Chordate	
Find matching triples		

#### Matches in DBpedia 2014 for { ?s <http://dbpedia.org/ontology/phylum> <http://dbpedia.org/re...

Showing triples 1 to 100 of ±50,737 with 100 triples per page. next

%3FOryzomys pliocaenicus phylum Chordate. %3F\_Nycticebus\_linglom phylum Chordate. phylum Chordate. %C5%BBubro%C5%84 %CA%BB%C4%80maui phylum Chordate. %CA%BB%C5%8C%CA%BB%C5%AB phylum Chordate. %CA%BBAkepa phylum Chordate. %CA%BBAkiapola%CA%BBau phylum Chordate. %CA%BBAkikiki phylum Chordate. %CA%BBAkohekohe phvlum Chordate. %CA%BBAnianiau phvlum Chordate. %CA%BBApapane phylum Chordate. %CA%BBI%CA%BBiwi phylum Chordate. %CA%BBUla-%CA%BBai-Hawane phylum Chordate. %E2%80%98%C5%8Cma%E2%80%99o phylum Chordate. %E2%80%98Akeke%E2%80%98e phylum Chordate. %E2%80%98Elepaio phylum Chordate. %E2%80%98Eua\_Rail phylum Chordate. 10-spine grouper phylum Chordate. AEECL's\_sportive\_lemur phylum Chordate.

### Everything with phylum Chordata?

## Query the Web yourself at <u>http://client.linkeddatafragments.org</u>





# 2. Maximising reuse

Or maximising functionalities?



### What do we want?



Read more at <u>http://linkeddatafragments.org</u>

### **Confusion arose**



## Publishing data vs. data services



# 3. Why?

Where's the money?







### 2. Web of documents $\rightarrow$ web of data

### We want a world where knowledge creates power for the many, not the few.

