
A Machine Readable Interoperable World

PEGI Congress 2012

Phil Archer, W3C

Background

Past



- ICRA CTO 2000 - 2008
- Self-labeling system
- Designed to be international
- Lots of support from governments, EU and industry

Present



- Work on open government data
- Interoperability, esp. with EU ISA Programme
- Vocabulary development
- Semantic Web/Linked Data

Open Data

- Began as a campaign



- Now it's a movement

Open Data

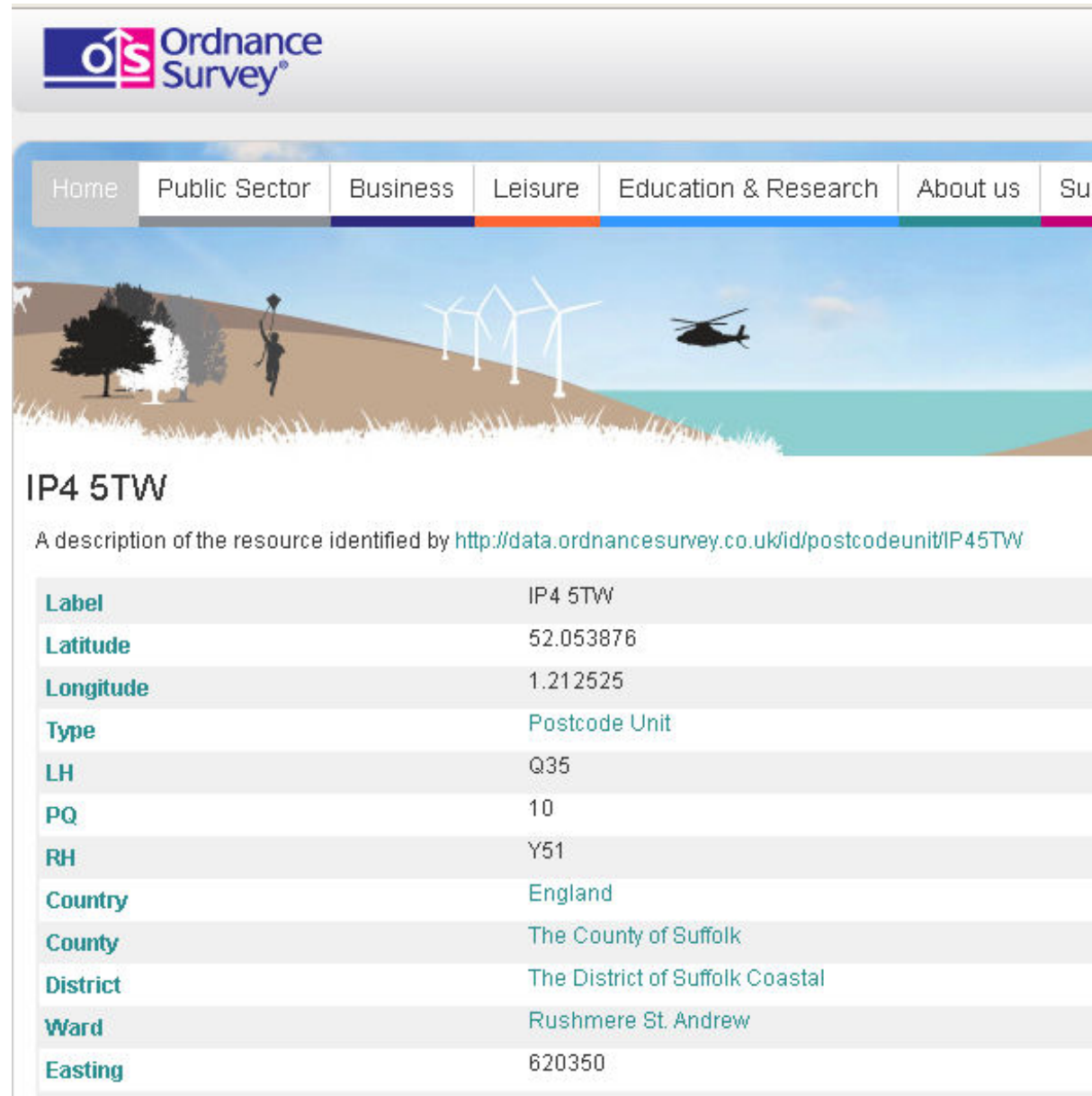
The collage features several overlapping elements:

- overheid.nl**: A Dutch government portal with a search bar and navigation tabs for 'Home', 'Particulieren', and 'Ondernemers'.
- DATA.GOV**: A logo with the tagline 'EMPOWERING PEOPLE'.
- HM Government**: A header for the UK government's data portal.
- DATA.GOV.UK**: A prominent green banner with the text 'Opening up Government' and a navigation bar with 'Home', 'Data', 'Participate', 'Apps', and 'Location'.
- Digitaliser.dk**: A Danish portal with a search bar and navigation tabs for 'Forsiden' and 'Kata'.
- data.gouv.fr**: A French portal with the tagline 'INNOVATION TRANSPARENCE . OUVERTURE' and a search bar for 'Postcode of plaatsnaam'.
- What is Linked Data?**: A video thumbnail featuring a man with glasses and the text 'An introduction to Linked Data'.
- Compass Logo**: A red square with a white compass rose.

ember 2012, Berlin

phil@philarcher.org

Open Data



The screenshot shows the Ordnance Survey website interface. At the top is the Ordnance Survey logo. Below it is a navigation menu with links for Home, Public Sector, Business, Leisure, Education & Research, About us, and Support. A banner image depicts a coastal landscape with a person, wind turbines, and a helicopter. The main content area displays the postcode unit IP4 5TW, followed by a description and a table of metadata.

IP4 5TW

A description of the resource identified by <http://data.ordnancesurvey.co.uk/id/postcodeunit/IP45TW>

Label	IP4 5TW
Latitude	52.053876
Longitude	1.212525
Type	Postcode Unit
LH	Q35
PQ	10
RH	Y51
Country	England
County	The County of Suffolk
District	The District of Suffolk Coastal
Ward	Rushmere St. Andrew
Easting	620350
Northing	314300



Bathing Water Data Explorer




Environment Agency

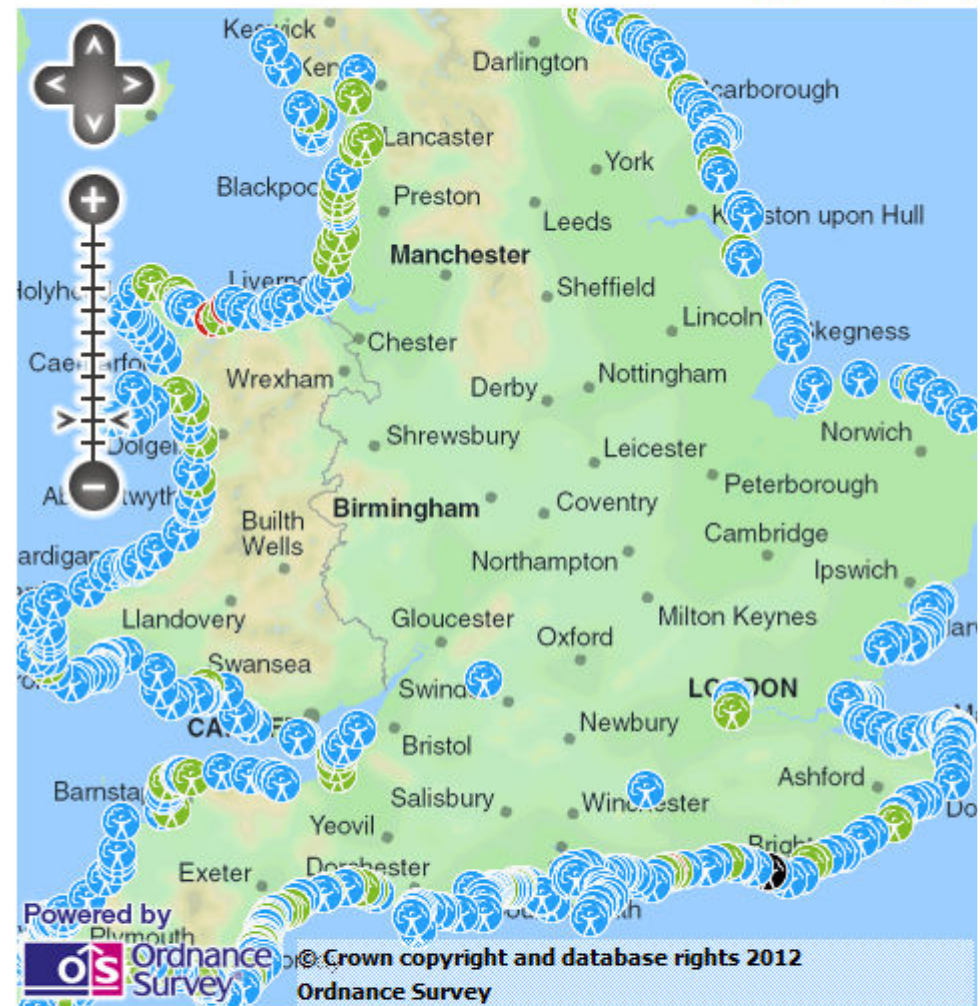
[home](#) [help](#)

Enter bathing water name, county, district or postcode


Throughout the summer, The Environment Agency of England and Wales collects detailed scientific data on the **cleanliness of our bathing waters** (mostly beaches). Weekly and annual compliance ratings are given:

-  meets the **higher** standard
-  meets the **minimum** standard
-  **fails** to meet the minimum standard

Use this web site to **search for** a bathing water by name, county or postcode, or by **browsing around the map**. You can then see the detailed data the agency has collected about that site.



Key: most recent **weekly** classification:

-  higher standard,
-  minimum standard,
-  fail,
-  closed

creating a better place

Open Data Berlin

Berlin.de Politik, Verwaltung, Bürger Kultur & Ausgehen Tourismus Wirtschaft Themen Branchenbuch Stadtplan

Home Nutzungsbedingungen Suche FAQ Glossar Links Login Re

BERLIN OPEN DATA BETA

STARTSEITE DATENSÄTZE ANWENDUNGEN INTERAKT

Datensätze finden Anwendungen finden Dialog führ

Open Data Berlin

Willkommen auf dem Berliner Open Data Portal. Open Data steht für eine weltweite Bewegung, öffentliche Verwaltungsdaten frei zugänglich zu machen. Mit dem ersten deutschen, dem Berliner Open Data Portal, erproben wir dies seit September 2011. Inzwischen stehen 87 Datensätze in 18 Kategorien für Recherchen und Apps-Entwicklungen bereit. Nutzen Sie Anwendungen, welche auf den Rohdaten basierend, anschauliche Applikationen bieten oder geben Sie direkt im Suchfeld einen Begriff ein. Unter Interaktion, freuen wir uns über Ihr Feedback oder Hinweise und Diskussionen rund um das Thema Open Data.

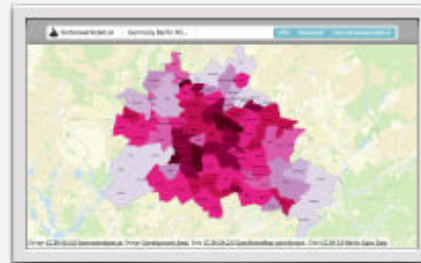
Wirtschaft
OpenGovernment
Offene Daten
Transparenz
Bürgerbeteiligung
Information
Berlin
Partizipation
Haushalt
Verwaltung
Wahlen
Feedback
API
XML
Boddy
Kindergärten
Geodaten
Weiterverwendung
Mashups
Verkehrsmitteln
Spisplätze
Fragen
Glascontainer
Arbeitsmarkt
Mehrwert
Formate
Forum
Umwelt
Anfragen
KML
Datensätze
CSV
Statistik
JSON
Neugierigkeiten
Antworten

Open Data Berlin

Anwendungen und Mashups

Hauptmenü

- › Startseite
- › Datensätze
 - › Arbeitsmarkt
 - › Bildung
 - › Demographie
 - › Geographie und Stadtplanung
 - › Gesundheit
 - › Kunst und Kultur
 - › Protokolle und Beschlüsse
 - › Sonstiges
 - › Sport und Erholung
 - › Tourismus
 - › Umwelt und Klima
 - › Ver- und Entsorgung
 - › Verbraucherschutz
 - › Verkehr
 - › Wahlen
 - › Wirtschaft



[Berlin OSM Ortsteile](#)

Die Anwendung der Website [karterwerks](#) Berlin übersichtlich auf einer Karte dar und Datensätze, die über dieses [daten.berlin](#)



[Berlinwahlkarte](#)

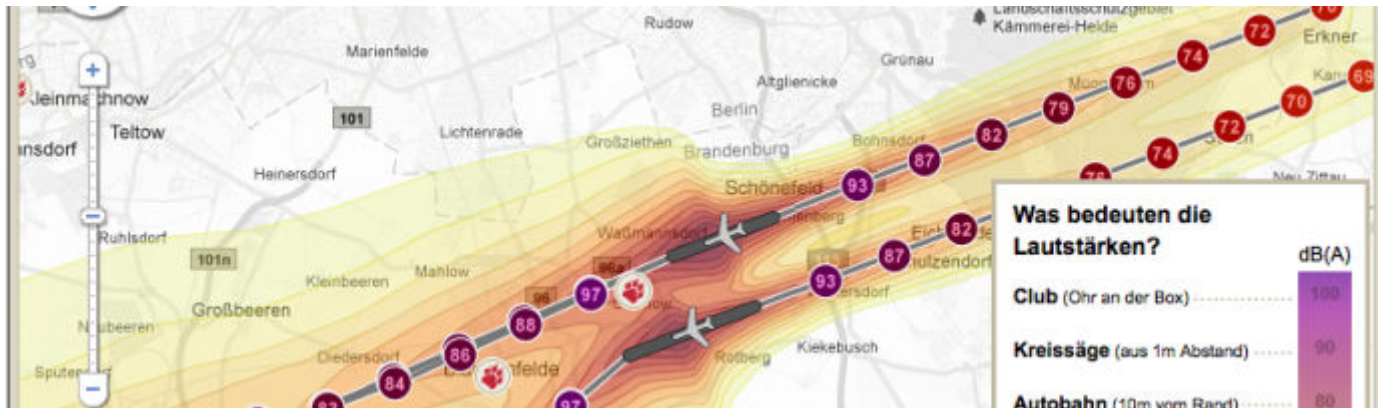
Die Berlinwahlkarte zeigt die Wahlergebnisse 2011 grafisch aufbereitet in einer Karte dem Nutzer, die zahlreichen erhobenen und gesuchten Informationen zu finden.



[Ozon Sonar](#)

Der Ozon Sonar zeigt den aktuellen Ozonwert graphisch aufbereitete Skala benutzt, die

Open Data Berlin



Source: <http://www.taz.de/>

Open Data Berlin

Berlin Christmas Markets 2012

[Home](#) » [records](#) »

Berlin Christmas Markets 2012

E-mail contact: [Section IIE](#)

Website: <http://www.berlin.de/sen/wirtschaft/service/maerkte/xmas/>

Time period: from 31.10.2012 until 31.01.2013

License: [Creative Commons Attribution](#)

Temporal granularity: [Year](#)

Published end point: [Senate Department for Economics, Technology and Research, IIE](#)

Geographical coverage: [Berlin](#)

Geographical granularity: [Berlin](#)

published 16 OCT 2012

updated twenty-three

NOVEMBER 2, 2012

CC BY

Resource:

Website of "Berlin's Christmas Markets 2012". Here you can already submit queries and view data.

URL: <http://www.berlin.de/sen/wirtschaft/service/maerkte/xmas/index.php>

Documentation: http://support.berlin.de/wiki/index.php/SimpleSearch_API

Hash: aae453d5-87e0-4589-B03B-e04fc3a07d0b

Open Data Berlin

Berlin Christmas Markets 2012

Search

Keyword:

District:

Date between ...:

... And ...:

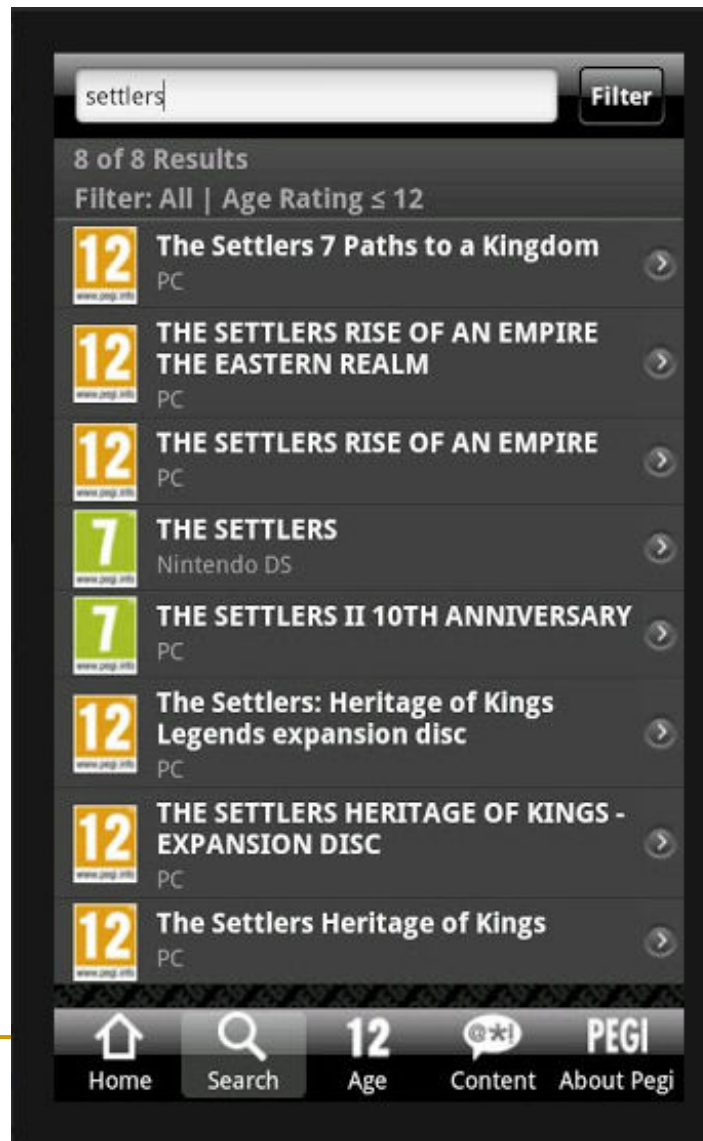
[\[+\] Advanced Search](#)

Results per page:

3 results found

Event	Road	Place and code	Date	to	Opening times	E-mail	Internet	Remarks
handmade supermarket - X-mas double feature	Market IX, Eisenbahnstr. 42/43	10997 Berlin	02.12.2012	02.12.2012	11:00 to 18:00	hallo@handmade-supermarket.de	www.handmade-supermarket.de	Early Bird Edition, commercial
handmade supermarket, Tel: 61 20 96 05  61 20 96 05								
handmade supermarket			16.12.2012	16.12.2012		hallo@handmade		

Open Data About Games





It's Just Metadata

- We know how to do metadata
- We know how to do data at Web scale
- We know how to do APIs

No new technology required to do interoperable machine readable classification.
Just apply existing standards.

Infrastructure Interoperability

Existing classifications are distinctive, recognised and trusted. Keep them, but make them available through:

- Technology-neutral data model i.e. agreed data fields (decided by policy people) like:
 - ageRating,
 - shortText,
 - icon, etc.
- Agreed data format(s), especially for bulk download
- Common style of API
- W3C Community Group could be the place to talk about this

- More at <http://philarcher.org/diary/2012/vocab-classification/>