

Open Data - An Introduction

Part II

HTW Berlin

April 9, 2014

Michael Hörz - hoerz@michael-hoerz.de - [@data_meining](https://twitter.com/data_meining)

Brief Repetition

- About me: Data Journalist and Open Data Enthusiast (michael-hoerz.de)
- Course Structure, Timetable + Slides: michael-hoerz.de/open-data-htw
- Introduce yourselves & Expectations?

Focus & Organization

- Understanding Open Data and Data Types
- Find and use data, build applications

Course: Lecture + Student Presentations

Übung: Team Projects (max. groups of 4)

Projects presented in last session

Official Definition

opendefinition.org/od

- Access - no cost in the best case
- Redistribution may not be restricted
- Reuse / derivations must be allowed
- Absence of Technological Restrictions
- Attribution: Name List if necessary
- Integrity: Other name for derivations

Official Definition II

- No Discrimination Against Persons or Groups
- No Discrimination Against Fields of Endeavor - shall prevent split into Non Commercial & Commercial
- Distribution of Licence
- Licence Must Not Be Specific to a Package
- Licence Must Not Restrict the Distribution of Other Works - may also be bundled with other, non-open works

Open Data

- Data of public bodies
- No personal data
- Raw data, no excerpts
- Already paid through taxes
- Usable at no costs (USA: “Commons”)
- Usable by everyone
- Machine readable

Open Government

- Right to (Easy) Government Document Access
- Better Processes
- Lower Costs
- Accountability & Transparency
- Measurable & Comparable
- Best Case: Administrations have to publish everything (and justify the exceptions i.e. in Hamburg -> Transparency Law)

Examples

USA

- data.gov (90.000 + Data sets)
- data.cityofchicago.org (1000 Data sets)
- Drastic Example:
data.cityofchicago.org/Administration-Finance/Current-Employee-Names-Salaries-and-Position-Title/xzkq-xp2w

UK

- National: data.gov.uk (18000 + Data sets)
- London: data.london.gov.uk

Examples II

AT

- National: data.gv.at (1200+ data sets)
- Vienna: open.wien.at/site/open-data (230)
- Styria: data.steiermark.at (50+)
- Engerwitzdorf:
data.gv.at/auftritte/?organisation=gemeinde-engerwitzdorf (120+)

DE

- govdata.de (6900+) + offenedaten.de
- daten.bremen.de (130+)
- daten.berlin.de (800)
- Open Data Showroom (Overview): opendata-showroom.org/de

Possible Data

- Spending Data
- Business Data (number of certain businesses in area)
- Election results (+ shape files of electoral district)
- Administrative Data (i.e. Schools, Locations)
- Statistics
- Geo Data, Aerial Photos, Maps & Shapefiles
- Environmental Data (incl. measured data, sensor data)
- Consumer information data
- Health Data
- Transport & Traffic Data (incl. accidents)

Public Data Sources in DE

Federal

- Federal Meta Portal: govdata.de
- PortalU: portalu.de
- Federal Statistics Office:
www-genesis.destatis.de/genesis/online

Federal States (Länder)

- Baden-Württemberg (Prototype):
opendata.service-bw.de/Seiten/default.aspx
- Bavaria: opendata.bayern.de
- Berlin: daten.berlin.de
- Bremen: daten.bremen.de
- Hamburg: daten.hamburg.de

Public Sources in Germany

State Statistics Offices (some cover two or more states)

- Example Berlin-Brandenburg: statistik-berlin-brandenburg.de
- Example Hesse: statistik-hessen.de

Cities

- Cologne: offenedaten-koeln.de
- Leipzig (API): apileipzig.de
- Moers: offenedaten.moers.de
- Rostock: opendata-hro.de
- Wennigsen/Deister: data.wennigsen.net/daten.php

Further Sources I

- EU Data Portal - (mainly Eurostat):
open-data.europa.eu/en/data
- Eurostat (very detailed):
epp.eurostat.ec.europa.eu/portal/page/portal/eurostat/home
- WHO: who.int/research/en/index.html

Further Sources II

- FAO: faostat.fao.org
- OECD: oecd.org/statistics
- World Bank: data.worldbank.org
- KfW - Development Aid:
transparenz.kfw-entwicklungsbank.de
- Vattenfall Berlin - Grid Data: netzdaten-berlin.de

Key Players

- NGOs / Activists: i.e. Open Knowledge Foundation, Digitale Gesellschaft
- Politicians
- Administrations (Agents of Change inside)
- Developers & Businesses
- The Internet

Possible Users

- Citizens
- Developers
- Journalists
- Scientists
 - Students
- Civic Society

Introductory Links

- Open Knowledge Foundation: okfn.org/opendata
- Tim Berners-Lee:
blog.ted.com/2010/03/08/the_year_open_d
- How Open Data is changing the world (video):
theguardian.com/media-network/media-network-blog/video/2013/jul/19/how-open-data-changing-world
- Further reading:
thegovlab.org/govlab-selected-readings-on-open-data