

Open Data: The Why and How of Contributing to and Benefitting from the Open Data Ecosystem

Karl Benedict

Director of Research Data Services, College of University Libraries and Learning Sciences

University of New Mexico

kbene@unm.edu



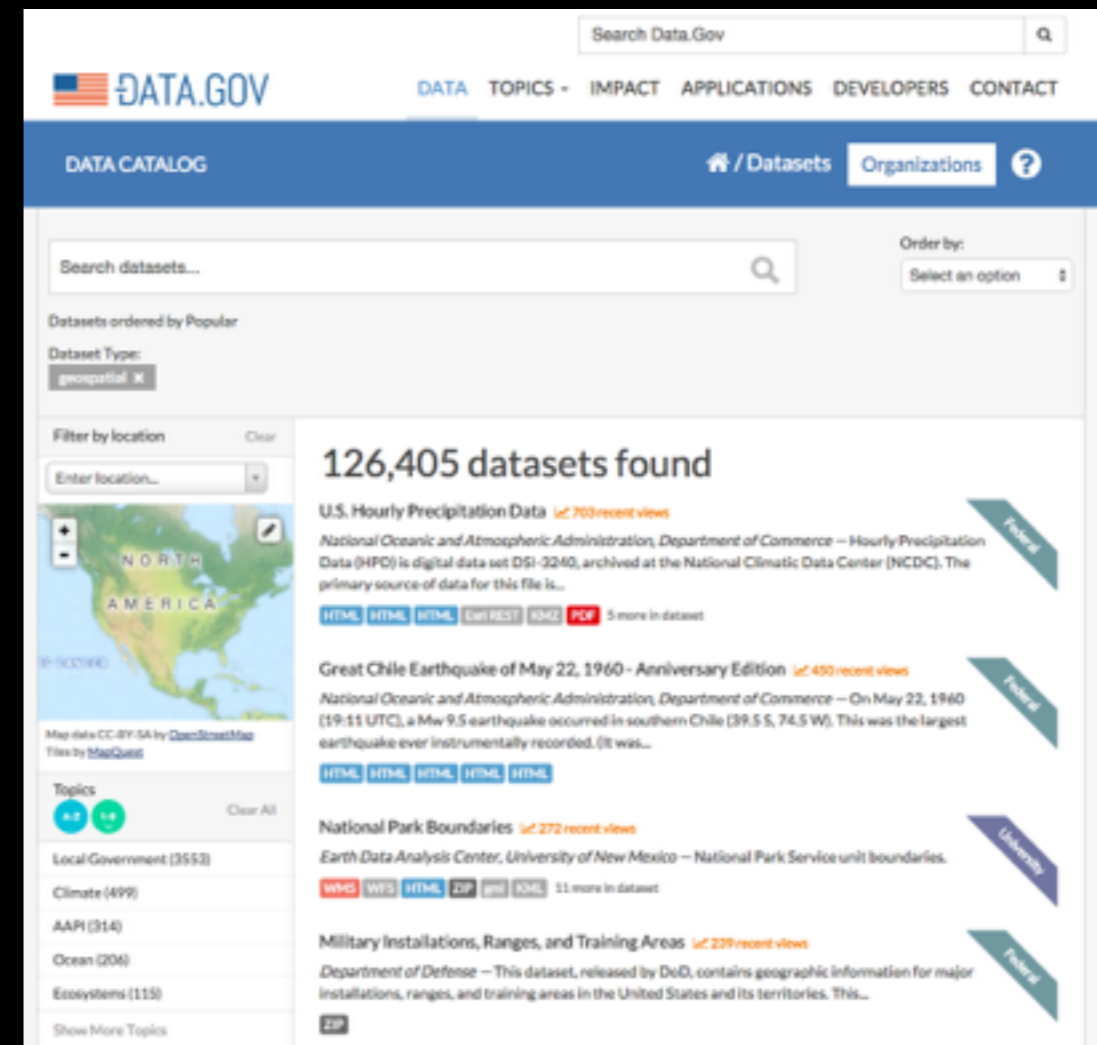
<http://goo.gl/0ixTa2>

Presentation Outline

- Introduction
- Current Context
- Where & How You Can Get Stuff
- Where Your Stuff Can Go



The geospatial data community has a long tradition of Open Data and Data Sharing



... and Open Standards to support data discovery, visualization and access



FGDC - *Content Standard for Digital Geospatial Metadata*

ISO - 19115,
19115-2, 19115-1
and related standards



- Open Geospatial Consortium
- Web Map Services (visualization)
 - Web Feature Services (WFS - data access, vector)
 - Web Coverage Services (WCS - data access, raster)
- ... and many others

The rest of the Open Data community is

OMB Memorandum M-13-13 (pg. 1-2)

*Specifically, this Memorandum requires agencies to collect or create information in a way that supports **downstream information processing and dissemination activities**. This includes using **machine readable and open formats, data standards, and common core and extensible metadata** for all new information creation and collection efforts. It also includes agencies ensuring **information stewardship** through the use of **open licenses and review of information for privacy, confidentiality, security, or other restrictions** to release. Additionally, it involves agencies building or modernizing information systems in a way that maximizes interoperability and information accessibility, maintains internal and external data asset inventories, enhances information safeguards, and clarifies information management responsibilities.*

23, 2012) ⇨

- Executive Order 13642 - *Making Open and Machine Readable the New Default for Government Information* (May 9, 2013) ⇨
- OMB Memorandum M-13-13 - *Open Data Policy - Managing Information as an Asset* (May 9, 2015) ⇨

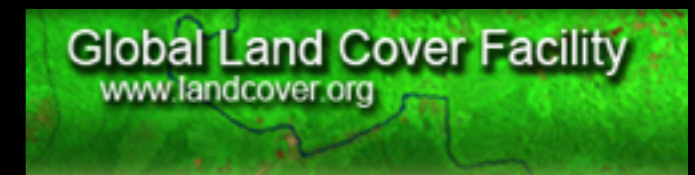
statements - examples

- Nature ⇨
- PLOS | ONE ⇨
- General increased recognition of value and benefits of adopting Open Data Principles

Where and How You
Can Get Stuff

Full-service Geospatial Data Repositories (examples)

- New Mexico Resource Geographic Information System ⇨
- Texas Natural Resources Information System ⇨
- The National Map Small Scale Data Collection ⇨ (web services ⇨)
- Global Land Cover Facility ⇨



General and Domain-Specific Data Repositories (examples)



re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES



figshare



DRYAD



zenodo



LTER Network Data Portal

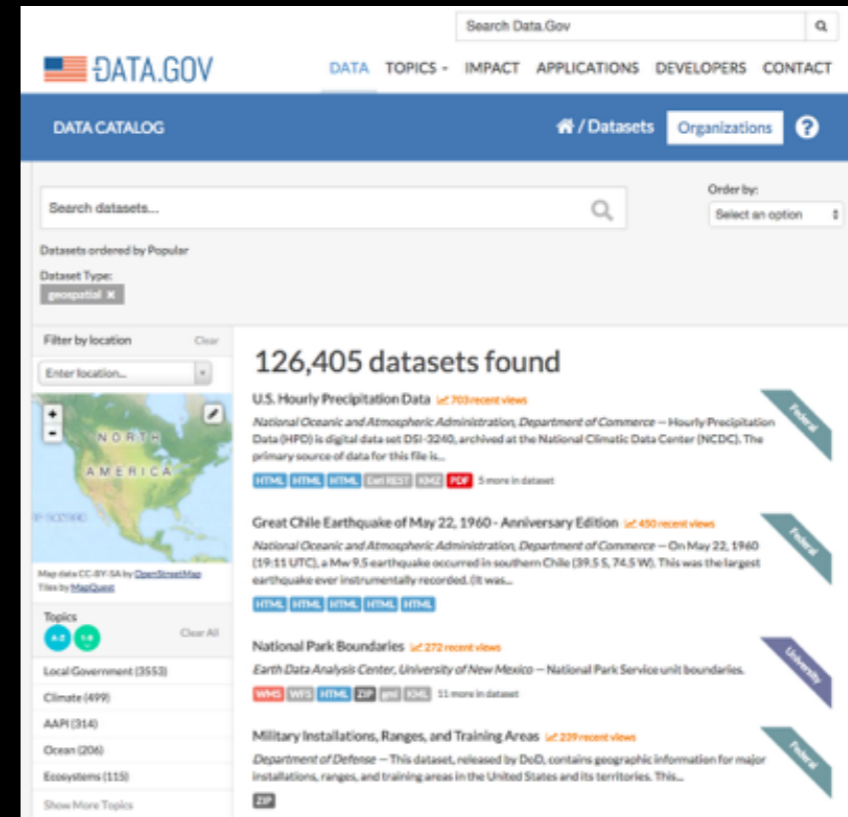


dataZoa™

- Find one for yourself: re3data.org ⇔
- Figshare ⇔
- Dryad ⇔
- Zenodo ⇔
- Long Term Ecological Research (LTER) Data Portal ⇔
- DataZoa (commercial) ⇔

Metadata Focused Data Discovery/Access

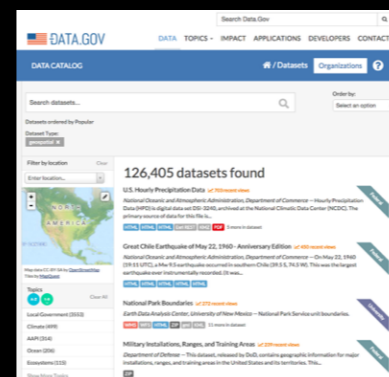
- data.gov ⇔ (data catalog ⇔)
- [GEOPLATFORM.gov](https://geoplatform.gov) ⇔
- DataONE ⇔
- Global Earth Observation System of Systems (GEOSS) ⇔



Where Your Stuff
Can Go

Many of the Same Players

- NM RGIS
- A wide variety of the increasingly popular data sharing platforms
- Metadata publication/ registration through data.gov or GEOSS



Questions?

