

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

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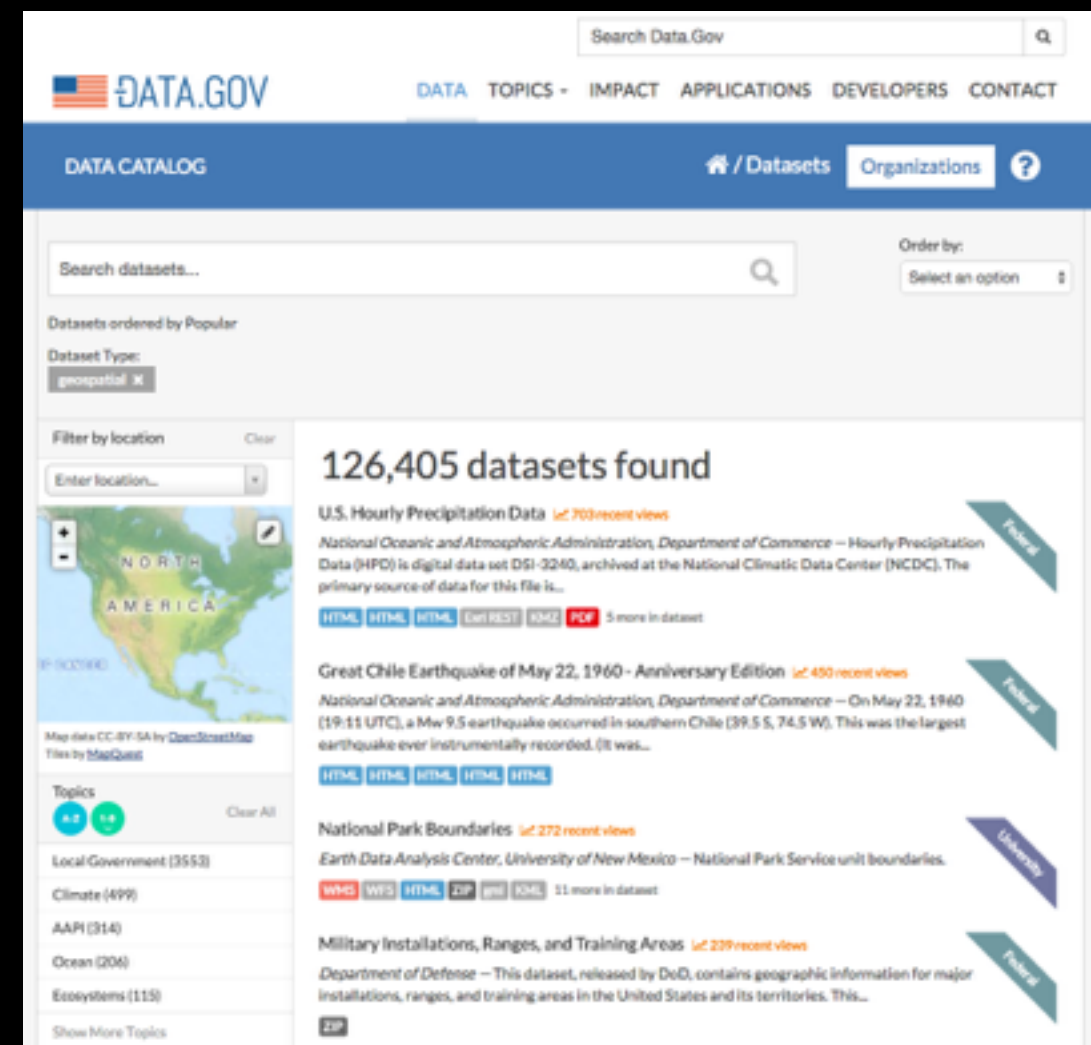
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Presentation Outline

- 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) ⇨

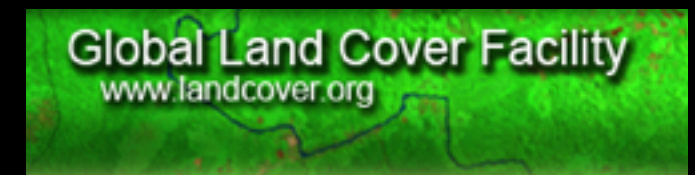
statements - examples

- 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 ⇨



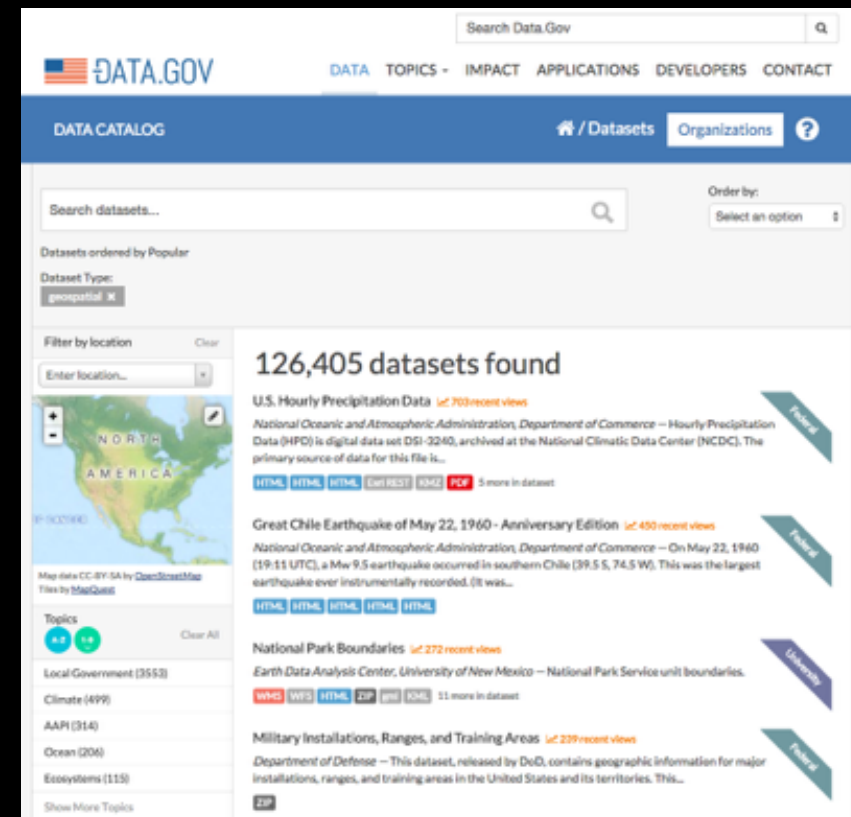
General and Domain-Specific Data Repositories (examples)



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

Metadata Focused Data Discovery/Access

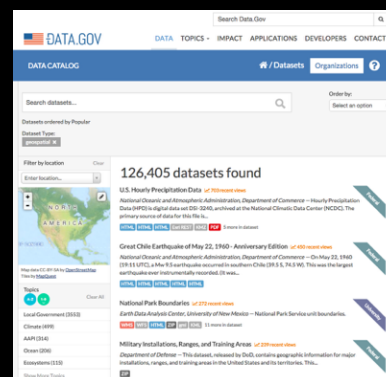
- data.gov ⇔ (data catalog ⇔)
- [GEOPLATFORM.gov](https://geoplatform.gov) ⇔
- DataONE ⇔
- Global Earth Observation
System of Systems (GEOSS)
⇔



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?

