Use a semantic registry for data-types?

http://registry.it.csiro.au/data-type

- REST API (Linked Data)
- RDF storage layer, content negotiation for output (JSON, XML, CSV, RDF)
- Fine-grained versioning
- Explicit status flag

Some datatyping initiatives

- schemas for (mostly) tabular data

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Older

Earth Science Markup Language - ESML (2004)

XML, SourceForge, no longer active

Ecological Metadata Language - EML (2003)

XML, used in DataONE - generated by Morpho, stored in Metacat

W3C - CSV on the Web

Metadata about CSV files

- includes data typing for values in columns
- datatypes based on XML Schema
  - can have (URL) identifiers
  - additional JSON & XML datatypes
  - include support for international formats for dates & numbers

To support transformation of CSV to JSON, RDF

W3C®

Open Knowledge - data packages

To create a Data Package, place a file named `datapackage.json` in the **top-level directory of your set of data files.**

Leverages **JSON Table Schema**

What is the distinction between 'datatype' and 'dataset metadata'?