NYPL & Temporal Data

Current Explorations in Linked Data

3 Major Linked Data Projects

- Research Libraries Discovery Layer (formerly Registry project)
- Digital Repository Migration
- NYC Space/Time Directory

Discovery

- User-focused discovery layer over our catalog and electronic resources
- Will eventually incorporate holdings from our Archives Portal, Digital Collections, and Prints and Photographs Catalog
- RDF-based, drawing on earlier R&D work with linked data
- Not a replacement for the catalog--enriched metadata serves discovery
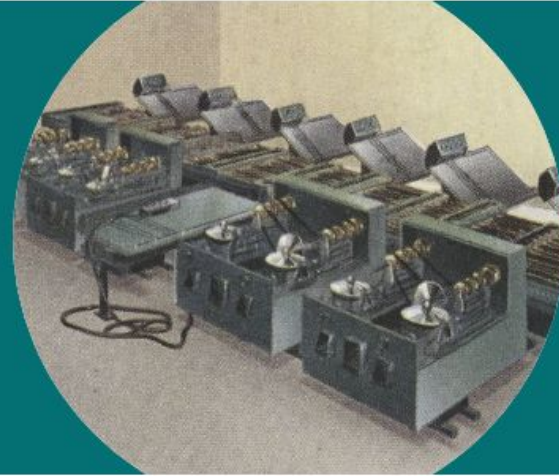
Registry Project
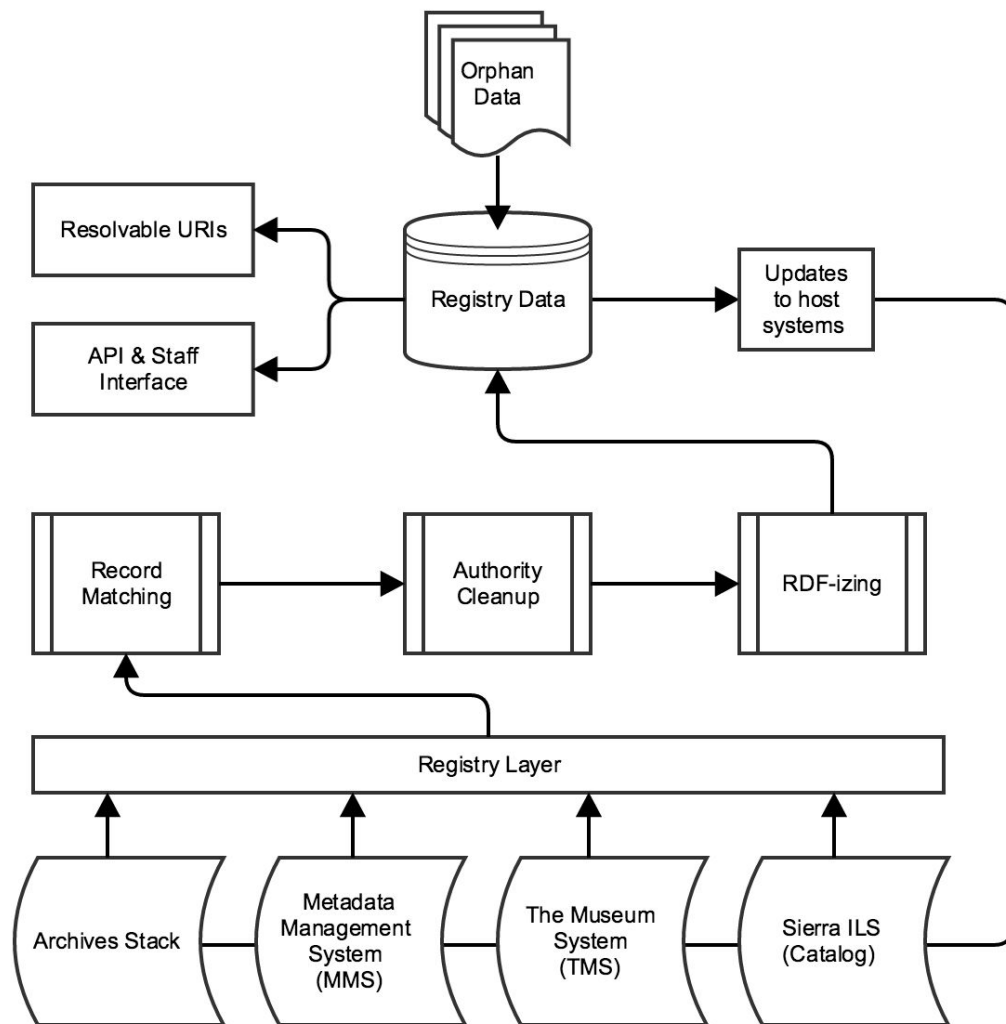
Data Model

- PCDM for object structure
- Application profile drawn from DPLA MAP v4
- Entification where possible and beneficial
  - Agents (People and Organizations
  - Terms (Subjects, Genres, Material Types)
  - Geospatial?
  - Temporal?

data.nypl.org

data.nypl

This site is the public side of an ongoing data project at NYPL Labs. Feel free to explore but please keep in mind this site may break or go offline at anytime. While we are working towards persistent URIs for our resources we are not quite there yet, so please do not reuse any of the identifiers found on this site.

Explore Agents
Explore Terms (coming soon)
Explore Resources

Agents in data.nypl.org

Streisand, Barbra

American singer, actress, writer, film producer, and director
Performer, Singer, Composer, Speaker, Interviewee

Resources Created By
- Collection(4)
- Still Image(10)
- Notated music(20)
- Audio(107)
- Moving image(10)
- Mixed material(3)
- Text(3)

Resources About
- Still Image(9)
- Text(34)
- Moving image(4)
- Mixed material(6)
- Audio(1)

Type:edm:Agentfoaf:Person
Birth:1942-04-24
Death:
VIAF:44486523
LC:n80144605
Wikidata:Q4636

Notated music resources contributed to by agent:

2012	What matters most : Barbra Streisand sings the lyrics of Alan and Marilyn Bergman	›
2010	Love is the answer	›
2006	Guilty pleasures : piano, vocal, chords	›
2004	The essential Barbra Streisand : [piano, vocal, guitar	›
2000	A love like ours : [piano-vocal-guitar]	›
1998	Higher ground	›
1996	All of my life : from the motion picture "The mirror has two faces"	›
1995	Barbra, the concert	›
1993	Back to Broadway	›
1989	Till I loved you	›
1987	One voice : piano, vocal, guitar	›
1985	The Broadway album : piano, vocal, guitar	›
1984	Barbra : Emotion.	›

Barbara Streisand http://data.nypl.org/agents/10043204

Digital Repository

- Upgrading from Fedora 3 to 4
- Major metadata migration from MODS XML to RDF-based application profile
- Interoperability with Discovery model

NYC Space/Time Directory = NYPL data + external datasets + databases + APIs + search + geo + RDF + open source + digitization + crowdsourcing + community

http://spacetime.nypl.org (watch this space!)

https://github.com/nypl-spacetime

Goals/principles

- Open data, plain JSON for everyone
- APIs, open source, search tools, user interface
- Tools that allow people to tell new stories about NYC's history

Crowdsourced datasets from primary sources

http://maps.nypl.org/warper/

Model
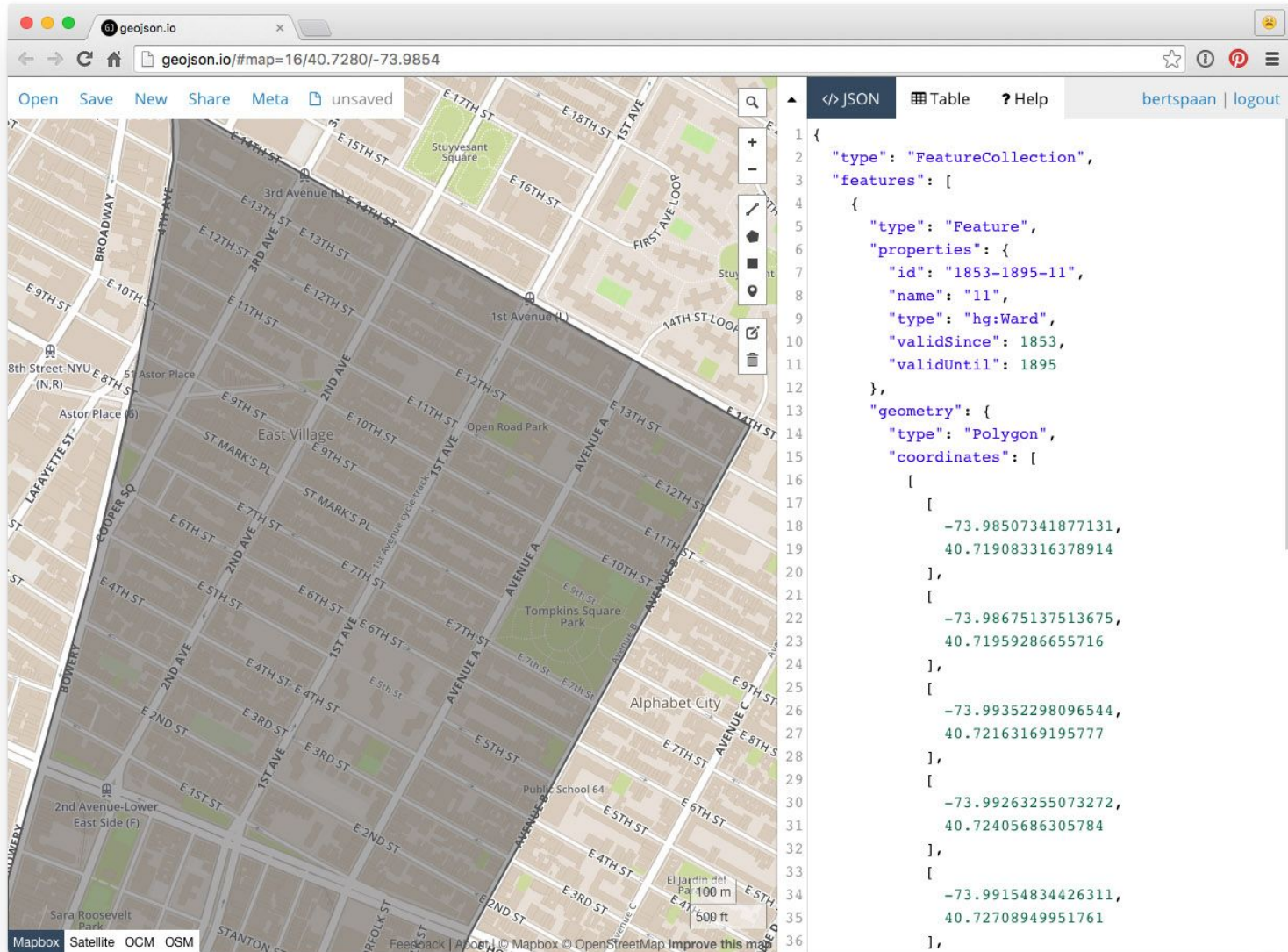
Space/Time **Object** (or "feature") = a single geospatial concept (i.e. a populated place, a country, a street, etc.)

Space/Time Objects consist of one or more **Places in Time (PIT)** objects

PITs each can have their own:

- Name
- Geometries
- Date

GeoJSON for Ward 11

Reasoning to support complex queries

- What existed at this address from 1890-1900?
- What library resources are available about this geometry from 1910?
- Who lived in this ward in 1865?

Challenges

- What are the boundaries around place concepts when geometries conflict? (What happens when places move?)
- How to use Space/Time objects in Discovery?

More Resources

Space/Time Architecture: http://spacetime.nypl.org/architecture/

Histograph API & data model definition: https://github.com/histograph/api