

## Attachment C: Data Management Plan

Open data is not only a core operating principle of *NYC Chronology of Place*, but its primary objective. As with other NYPL projects (*New York City Historical GIS* and *What's on the Menu?*), data will be available to scholarly and technical users in a range of formats and via multiple services, and all tools and software involved will be documented and released in an open source repository. The data to be produced by this project fall into two primary categories: geospatial data and software code.

### Geospatial Data

The central purpose of *NYC Chronology of Place* is the creation of linkable, open data describing historical locations in New York City. This data will include:

- Spatial coordinates (latitude/longitude)
- Spatial geometry (points, polygons geometry collections, and bounding boxes)
- Timeframes (dates and date ranges)
- Feature type (e.g., village, farm, and ward)
- Other feature information and attributes (e.g., place names, addresses, and building types)

Data will be made available on *NYC Chronology of Place* through web services (WFS, WFS-g/WGS, geoRSS, geoJSON, RDF/XML, and other formats), as downloads (SHP, CSV, and KML) and with a uri/url for each feature. Through continuous, automated export into this range of formats, NYPL will make the data independent of specialized software, and relatively immune to obsolescence based purely on changes in software infrastructure. Based on accepted archival practices, NYPL is confident that this open and redundant approach to data storage is among the best available at present.

Geospatial data will ultimately be stored in NYPL's Fedora repository, designed for the long-term preservation of the library's (and by extension, the public's) digital assets. Additionally, it will be published to established repositories such as the ALA MAGERT, WAML, and the Geospatial One Stop as well as local repositories such as the New York State GIS data Clearinghouse.

As an added sustainability and accessibility measure, we will post periodic exports of the gazetteer data to the open Freebase repository, providing redundant storage, and allowing the data to be eventually linked to other data sets.

### Software Code

The gazetteer software designed for the *NYC Chronology of Place* will be open-source (i.e., free to use, copy, distribute, and modify) and will be made freely available to any user through [github.com](https://github.com), a code repository for collaborative software development projects. Ultimately, NYPL will document the software, detailing how it works and how it fits within the historical map architecture developed by the NYPL and community. In keeping with the open-source philosophy, NYPL is committed to fostering the community of practice developing around open-source historical GIS in the humanities by seeking collaboration with partner institutions with similar goals, pushing further NYPL's own software development cycles, and seeking funding to develop momentum for such activities.