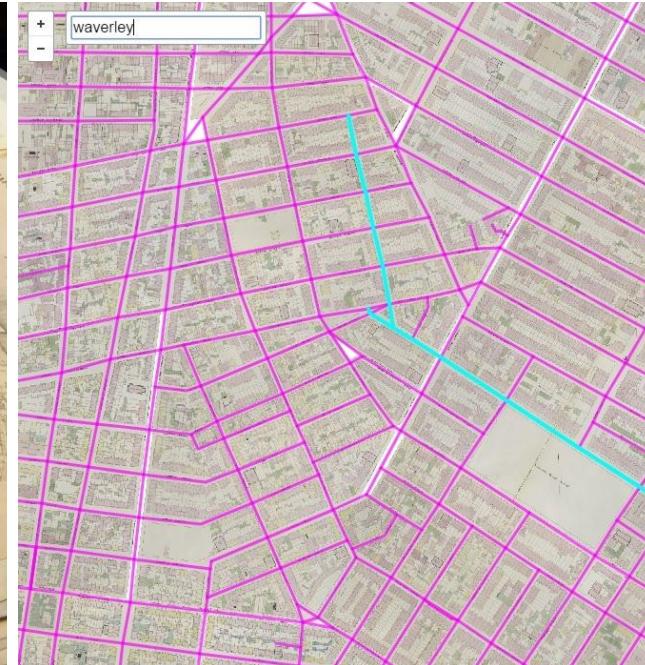
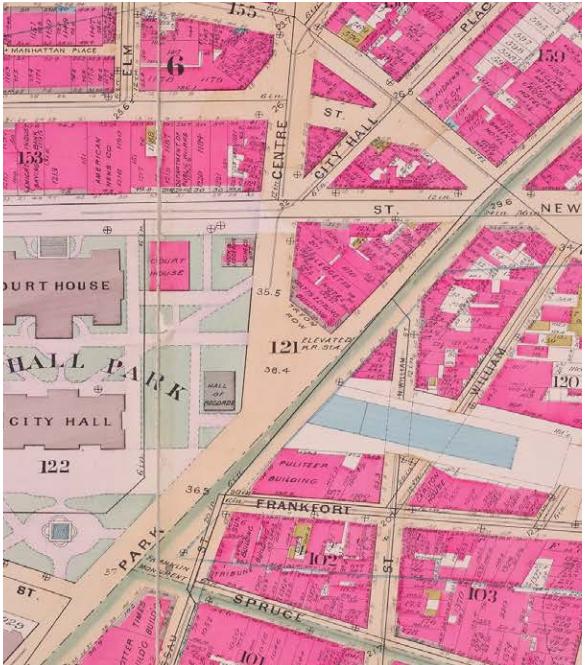


Genealogy and Maps

Digital Initiatives at The New York Public Library Stephen A. Schwarzman Building

Philip Sutton, Librarian



Lionel Pincus and Princess Firyal Map Division

Holdings

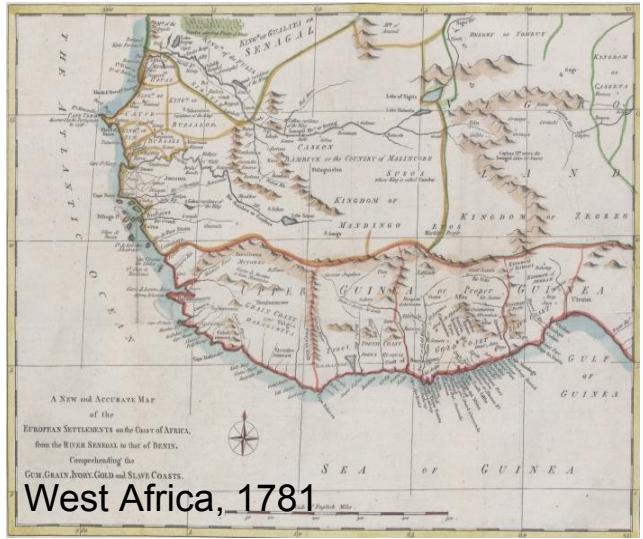
- 433,000 sheet maps
- 20,000 books and atlases
- 10,000 pages from 162 atlases documenting New York City
- 16th century to present day

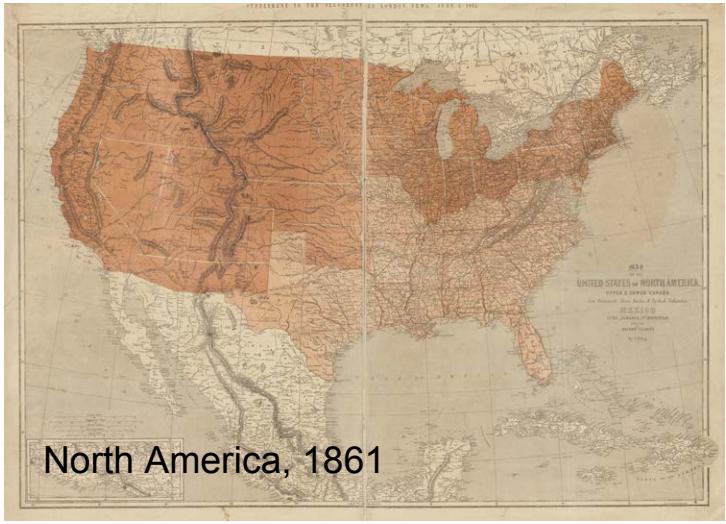
Genealogy?

- Gazetteers
- Topographical maps
- Fire insurance maps
- Farm maps
- Historical maps of New York City
- County maps and atlases



Panorama of the Borough of the Bronx issued by the Bronx Home News, 1921





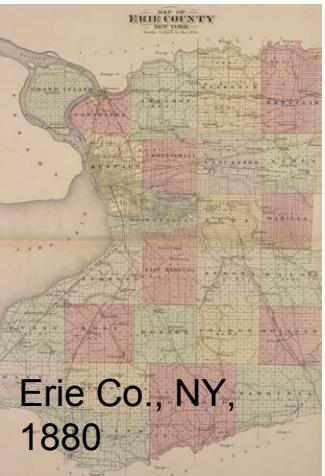
North America, 1861



Oshkosh, WI, 1885



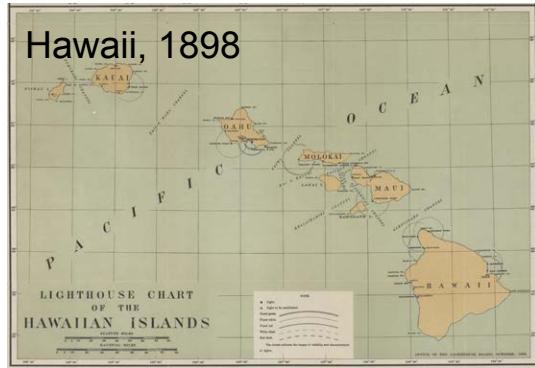
Philadelphia, 1824



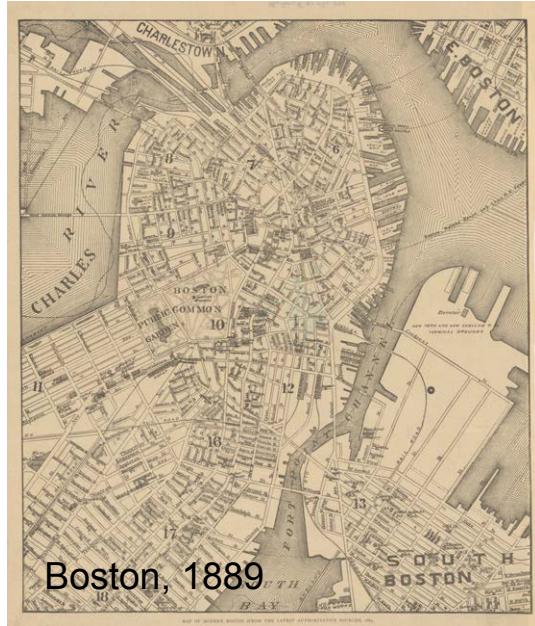
Erie Co., NY,
1880



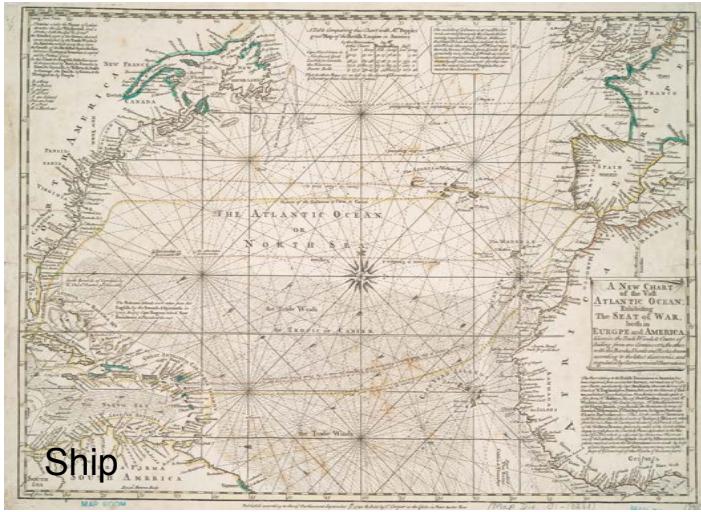
Buffalo, NY,
1880



Hawaii, 1898



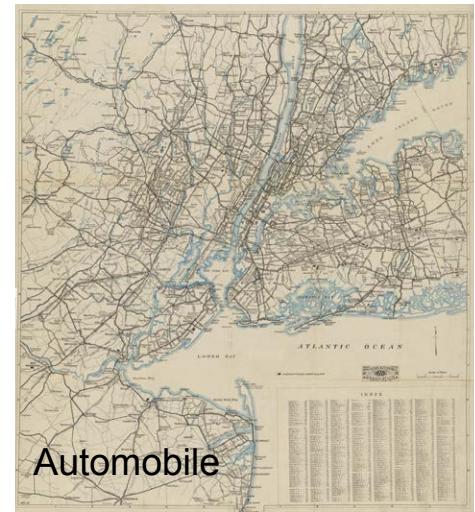
Boston, 1889



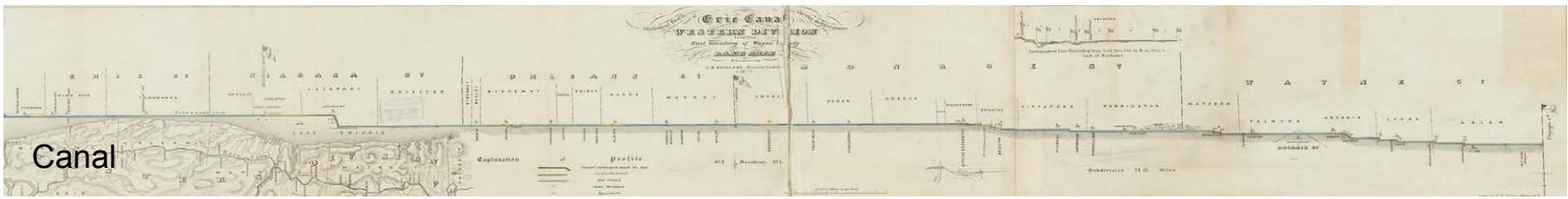
Ship



Wagon trail



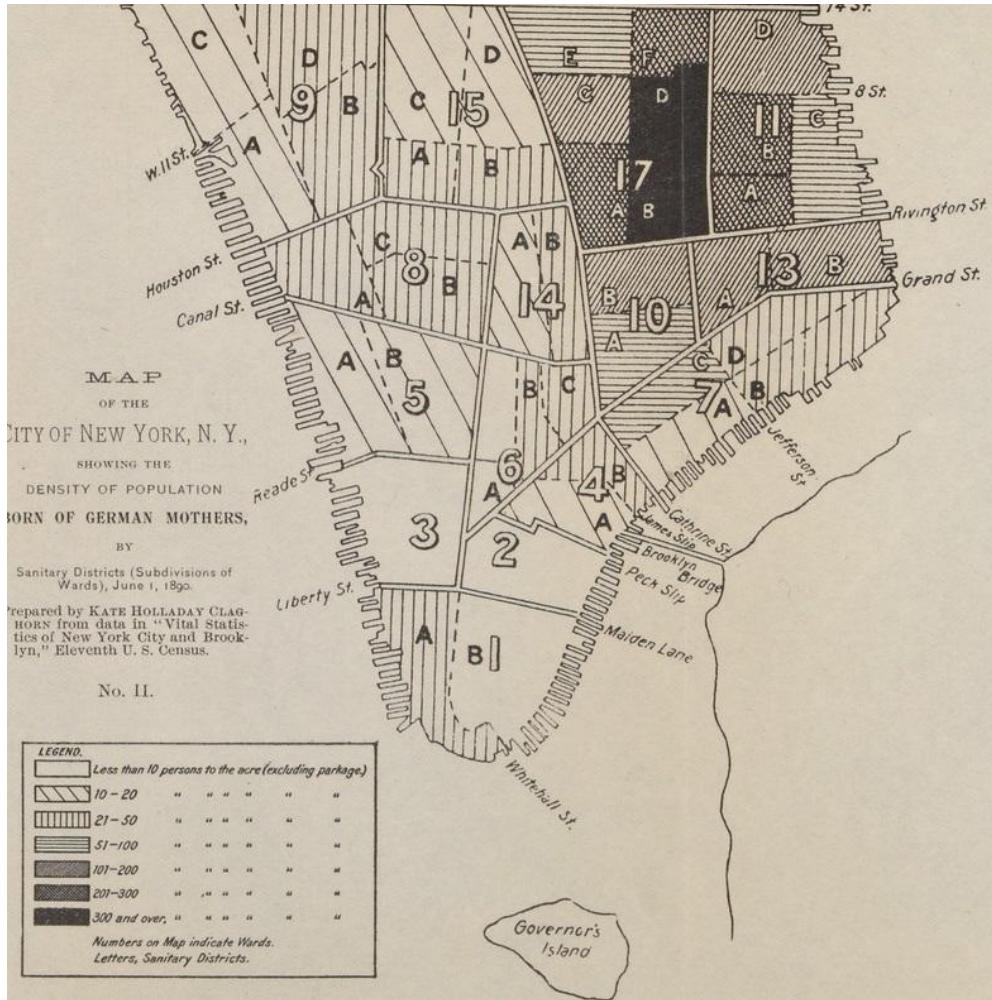
Automobile



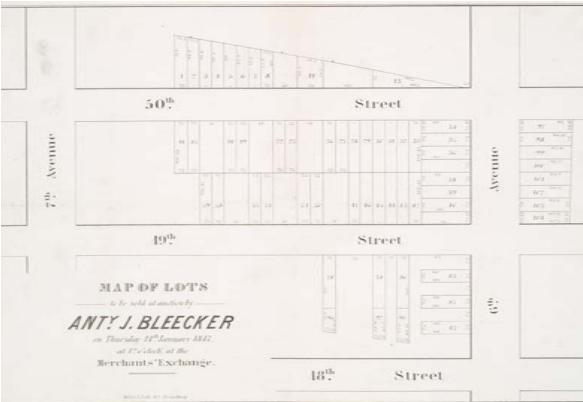
Canal



Railroad



44	84.8	25.1	25	405
454	4.5	85.7	5B	405
1799	1798	1797	1796	1795
94.1	27.9	25	25	25
656	4B	7	5B	7
658	4B	7	5B	7
660	"	5B	5T	5T
662	2 $\frac{1}{2}$ B	88.9	2 $\frac{1}{2}$ B	100
664	25	92	25.1	25.1
666	2 $\frac{1}{2}$ B	91.8	87.5	87.5
668	1793	1794	1795	1796
260	100	100	100	100
	3 $\frac{1}{4}$ W	92.7	93.9	93.9
	T	T	T	T
	669	1792	1793	1794
	25	25	25	25
	44	86.8	86.8	86.8
	407	1701	1701	1701
	25	25	25	25
	1700	1700	1700	1700
	85.8	85.8	85.8	85.8
	T	T	T	T
	409	411	413	413
	5B	5B	5B	5B
	T	T	T	T
	409	411	413	413
	25	25	25	25
	1706	1706	1706	1706
	5B	5B	5B	5B
	T	T	T	T
	417	417	417	417
	25	25	25	25
	1706	1706	1706	1706
	5B	5B	5B	5B
	T	T	T	T
	419	419	419	419



JOSEPH P. DAY, Auctioneer
OFFICES, 31 NASSAU STREET, NEW YORK CITY

TUESDAY, OCTOBER 15th, 1907

At 12 o'Clock Noon, at the
Exchange Salesroom, 14 and 16 Vesey Street

CATALOGUE NO. 527

GARRISON HEIGHTS

ROUTE OF THE NEW HAVEN & NEWCASTLE R.R.
FALL RIVER LINE

There will be Sold at Public Auction

193 High Grade Lots

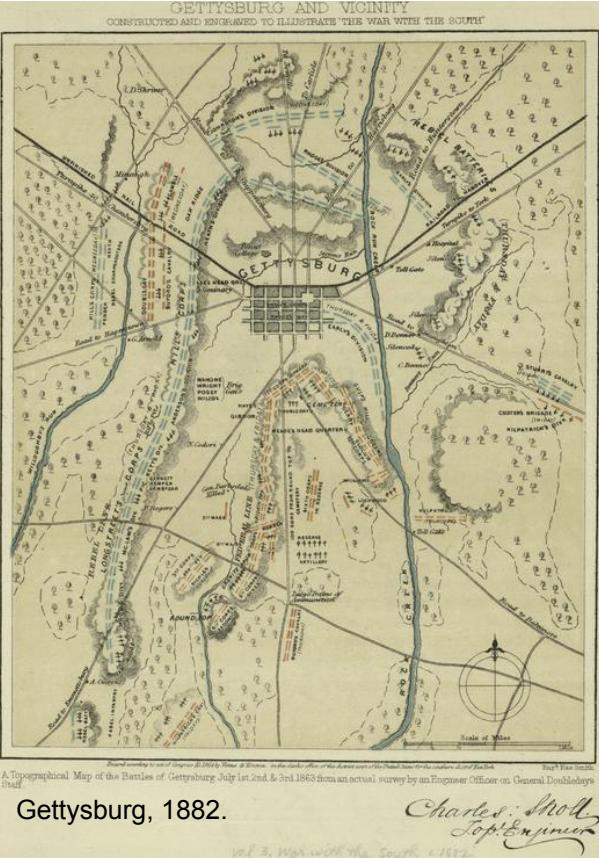
SITUATED

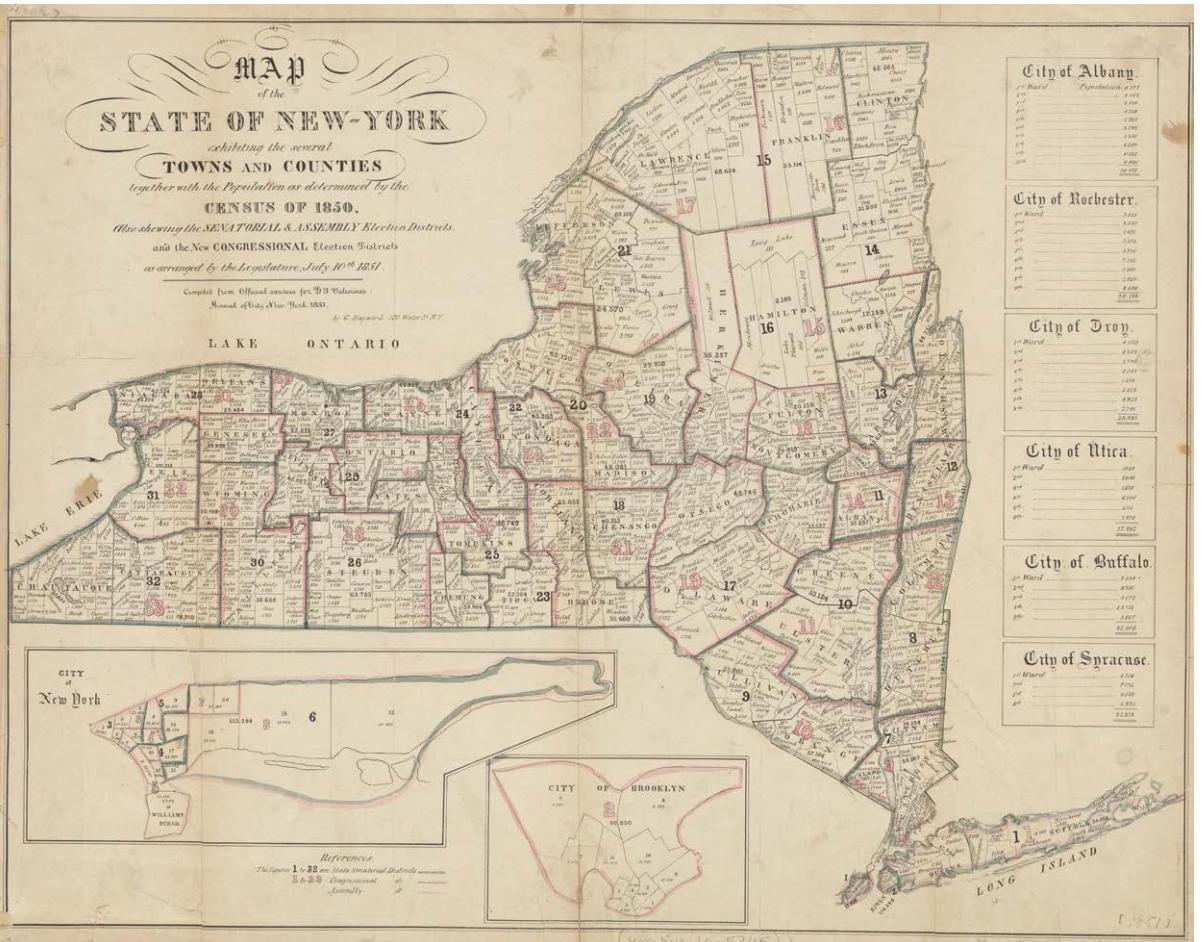
East 156th Street Tiffany Street
 Manida Street Barreito Street
 Casanova Street 23rd Ward, Borough of Bronx Spofford Avenue
 Longwood Avenue Brown Avenue Garrison Square
 Five Minutes' Walk South on Longwood Avenue from Prospect Avenue Subway Station.

70 per cent. of the purchase price may remain on bond and mortgage for 1 or 2 years.
 Policies of Title Insurance delivered free of charge to purchasers.

For information apply to Auctioneer, Empire Development Co., S. H. Gainsborg, President, Flatiron Bldg., Broadway and 23rd Street, or Gross & Smulders, Attorneys, 308 Broadway, Manhattan.

Printed by M. B. Brown Co., 60 Park Place, New York.





City of Albany.	
1 st Ward	4,002
2 nd Ward	4,002
3 rd Ward	4,002
4 th Ward	4,002
5 th Ward	4,002
6 th Ward	4,002
7 th Ward	4,002
8 th Ward	4,002
9 th Ward	4,002
10 th Ward	4,002
11 th Ward	4,002
12 th Ward	4,002
13 th Ward	4,002
14 th Ward	4,002
15 th Ward	4,002
16 th Ward	4,002
17 th Ward	4,002
18 th Ward	4,002
19 th Ward	4,002
20 th Ward	4,002
21 st Ward	4,002
22 nd Ward	4,002
23 rd Ward	4,002
24 th Ward	4,002
25 th Ward	4,002
26 th Ward	4,002
27 th Ward	4,002
28 th Ward	4,002
29 th Ward	4,002
30 th Ward	4,002
31 st Ward	4,002
32 nd Ward	4,002
33 rd Ward	4,002

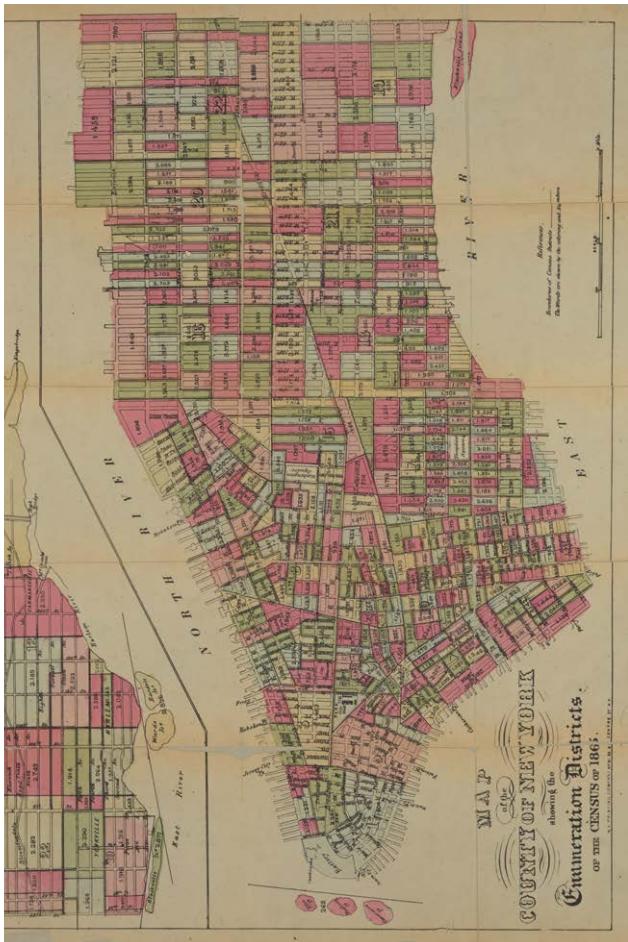
City of Rochester.	
1 st Ward	3,402
2 nd Ward	3,402
3 rd Ward	3,402
4 th Ward	3,402
5 th Ward	3,402
6 th Ward	3,402
7 th Ward	3,402
8 th Ward	3,402
9 th Ward	3,402
10 th Ward	3,402
11 th Ward	3,402
12 th Ward	3,402
13 th Ward	3,402
14 th Ward	3,402
15 th Ward	3,402
16 th Ward	3,402
17 th Ward	3,402
18 th Ward	3,402
19 th Ward	3,402
20 th Ward	3,402
21 st Ward	3,402
22 nd Ward	3,402
23 rd Ward	3,402
24 th Ward	3,402
25 th Ward	3,402
26 th Ward	3,402
27 th Ward	3,402
28 th Ward	3,402
29 th Ward	3,402
30 th Ward	3,402
31 st Ward	3,402
32 nd Ward	3,402
33 rd Ward	3,402

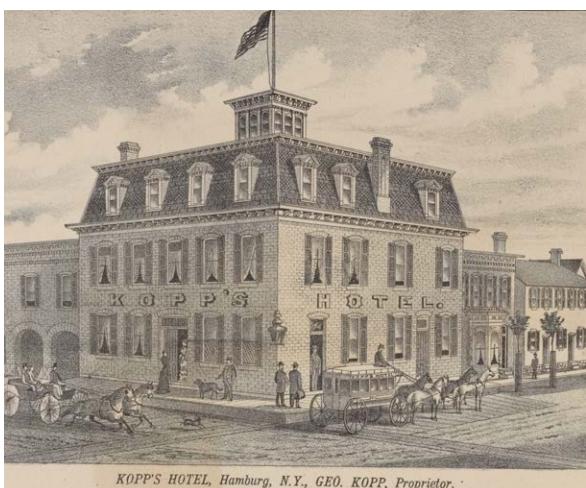
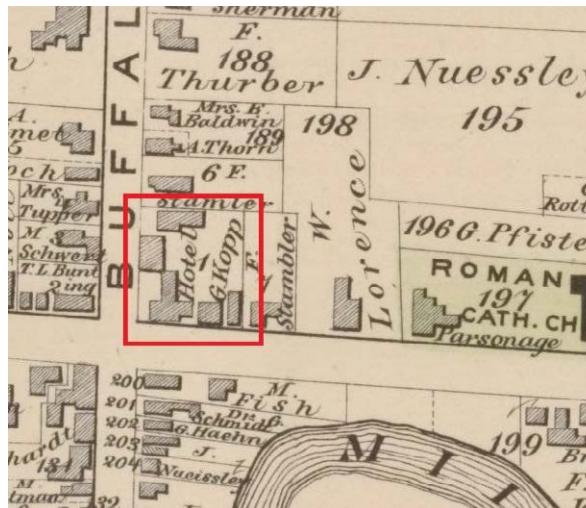
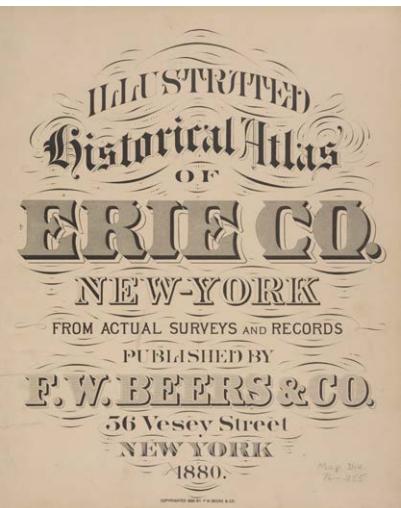
City of Troy.	
1 st Ward	4,002
2 nd Ward	4,002
3 rd Ward	4,002
4 th Ward	4,002
5 th Ward	4,002
6 th Ward	4,002
7 th Ward	4,002
8 th Ward	4,002
9 th Ward	4,002
10 th Ward	4,002
11 th Ward	4,002
12 th Ward	4,002
13 th Ward	4,002
14 th Ward	4,002
15 th Ward	4,002
16 th Ward	4,002
17 th Ward	4,002
18 th Ward	4,002
19 th Ward	4,002
20 th Ward	4,002
21 st Ward	4,002
22 nd Ward	4,002
23 rd Ward	4,002
24 th Ward	4,002
25 th Ward	4,002
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28 th Ward	4,002
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30 th Ward	4,002
31 st Ward	4,002
32 nd Ward	4,002
33 rd Ward	4,002

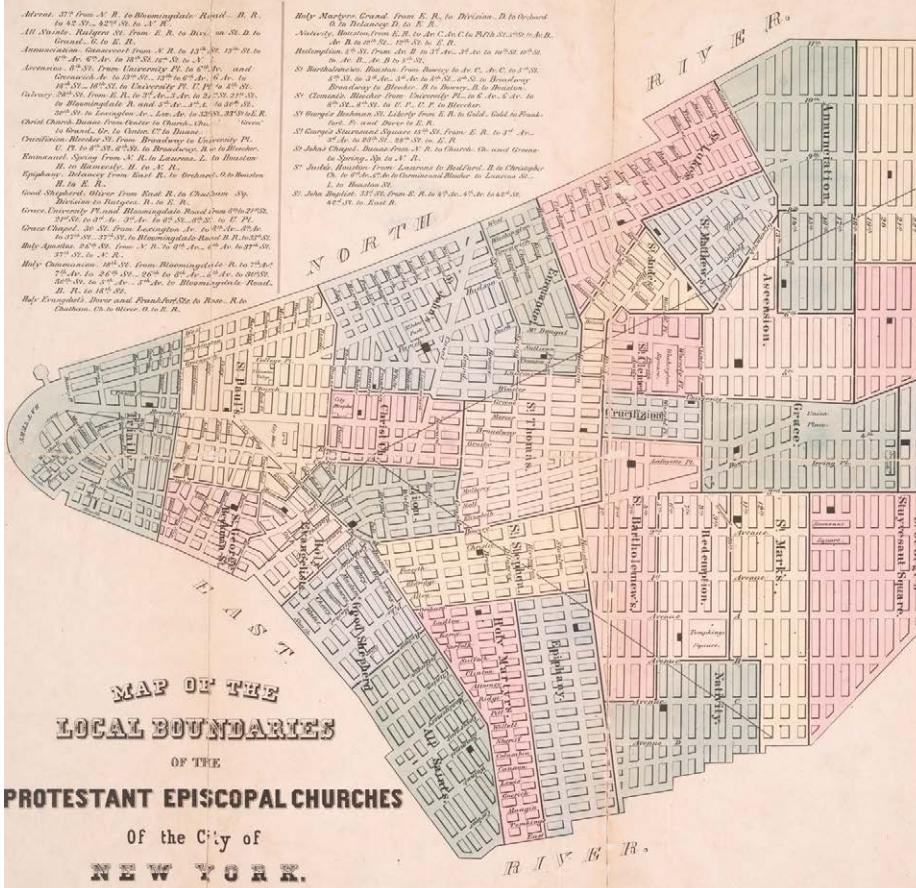
City of Utica.	
1 st Ward	1,648
2 nd Ward	1,648
3 rd Ward	1,648
4 th Ward	1,648
5 th Ward	1,648
6 th Ward	1,648
7 th Ward	1,648
8 th Ward	1,648
9 th Ward	1,648
10 th Ward	1,648
11 th Ward	1,648
12 th Ward	1,648
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14 th Ward	1,648
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18 th Ward	1,648
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21 st Ward	1,648
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30 th Ward	1,648
31 st Ward	1,648
32 nd Ward	1,648
33 rd Ward	1,648

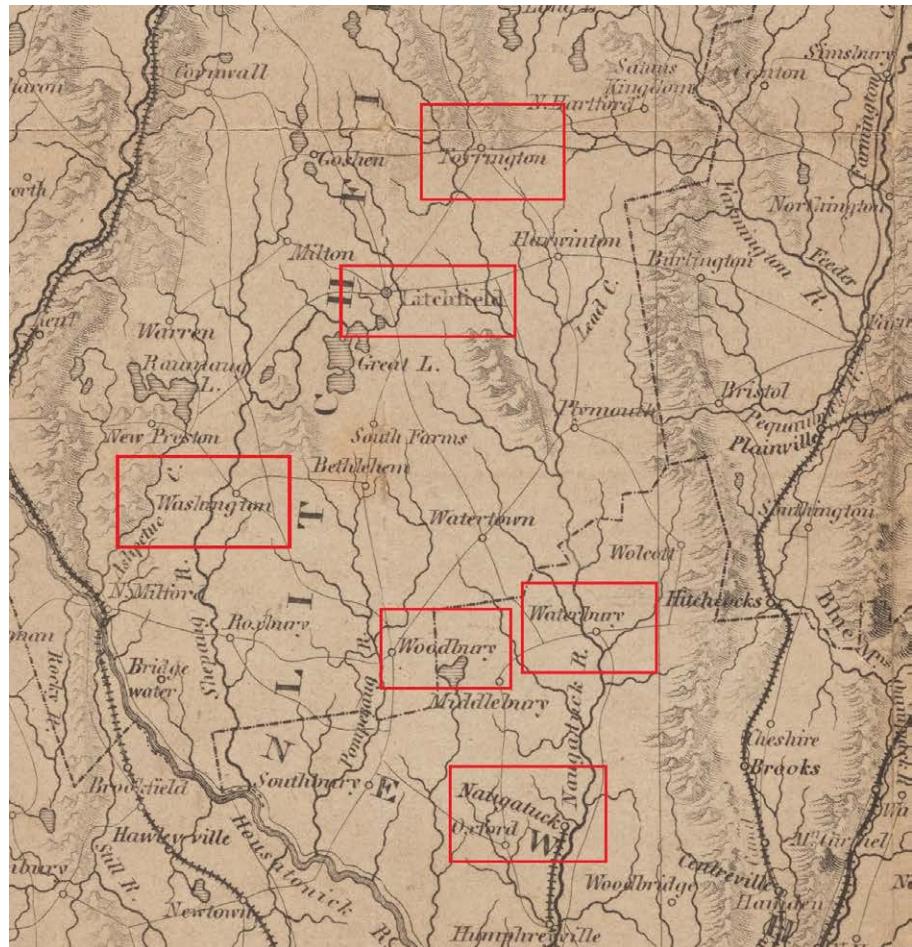
City of Buffalo.	
1 st Ward	7,344
2 nd Ward	7,344
3 rd Ward	7,344
4 th Ward	7,344
5 th Ward	7,344
6 th Ward	7,344
7 th Ward	7,344
8 th Ward	7,344
9 th Ward	7,344
10 th Ward	7,344
11 th Ward	7,344
12 th Ward	7,344
13 th Ward	7,344
14 th Ward	7,344
15 th Ward	7,344
16 th Ward	7,344
17 th Ward	7,344
18 th Ward	7,344
19 th Ward	7,344
20 th Ward	7,344
21 st Ward	7,344
22 nd Ward	7,344
23 rd Ward	7,344
24 th Ward	7,344
25 th Ward	7,344
26 th Ward	7,344
27 th Ward	7,344
28 th Ward	7,344
29 th Ward	7,344
30 th Ward	7,344
31 st Ward	7,344
32 nd Ward	7,344
33 rd Ward	7,344

City of Syracuse.	
1 st Ward	3,038
2 nd Ward	3,038
3 rd Ward	3,038
4 th Ward	3,038
5 th Ward	3,038
6 th Ward	3,038
7 th Ward	3,038
8 th Ward	3,038
9 th Ward	3,038
10 th Ward	3,038
11 th Ward	3,038
12 th Ward	3,038
13 th Ward	3,038
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21 st Ward	3,038
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32 nd Ward	3,038
33 rd Ward	3,038





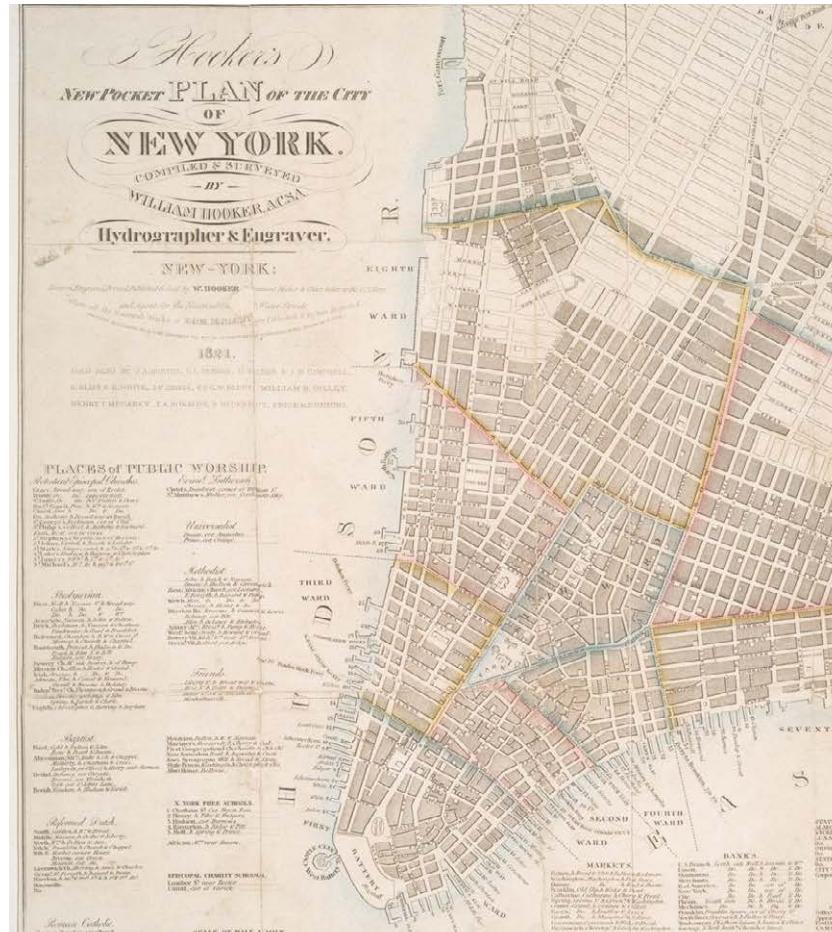




Hooker's new pocket plan of the city of New York / William Hooker (1824)

- Streets
- Wards
- Churches, cemeteries
- Markets
- Banks
- Government offices
- Newspapers
- Schools and colleges
- Libraries, theatres, museums
- Waterfront, ferry routes
- Landmarks: Castle Clinton, Bowling Green, City Hall, Belle Vue

Maps lead to records



Hooker's new pocket plan of the city of New York / William Hooker (1824)

DAILY PUBLIC JOURNALS.

American, Nassau betwⁿ Wall & Pine Streets.
Evening Post, W^m b. Wall & Pine.
Mercantile Advertiser, Pearl, b. Wall & Pine.
Daily Do. Tontine Coffee House.
Commercial, Do. Wall, b. Pearl & William.
National Advocate, Do. b. Do. & Do.
Statesman, Do. b. Nassau & Do.
Gazette, Hanover Sq. b. Pearl & Stone.
Patriot, S^t side Fulton, near Broad Way.

COLLEGES.

COLUMBIA, Church, b. Barclay & Murray.
PHYSICIAN'S & SURGEON'S, Barclay, b. W^s & Ch^h
with BOTANIC GARDEN, 5th Av. b. 47th & 51st St^s.

LIBRARIES

N. York Society, Nassau, b. Cedar & Liberty
Apprentices, Chamber, b. Chatham & Augustus
Mercantile, Fulton, b. Pearl & Cliff.

Daily Public Journals

American, Evening Post,
Commercial Advertiser,
National Advocate,
Statesman

America's Historical
Newspapers [database]
Mercantile Advertiser, Daily
Advertiser, Gazette
*ZY [microfilm]

Fire Insurance Maps

History

- Beginning in New York City in 1852
- Insurance inspector surrogate
- William Perris, G.W. Bromley, Sanborn Map Company
- First to describe buildings and addresses in detail

Genealogy source information

- Historical streets and building numbers
- Clues to records
 - Churches, synagogues, cemeteries
 - Government offices
 - Schools, orphanages, hospitals
 - Businesses
- Cultural life: theatres, cinemas, parks, rivers
- Earlier farms and estate boundaries
- Transport: streetcars, subways, elevated railroads

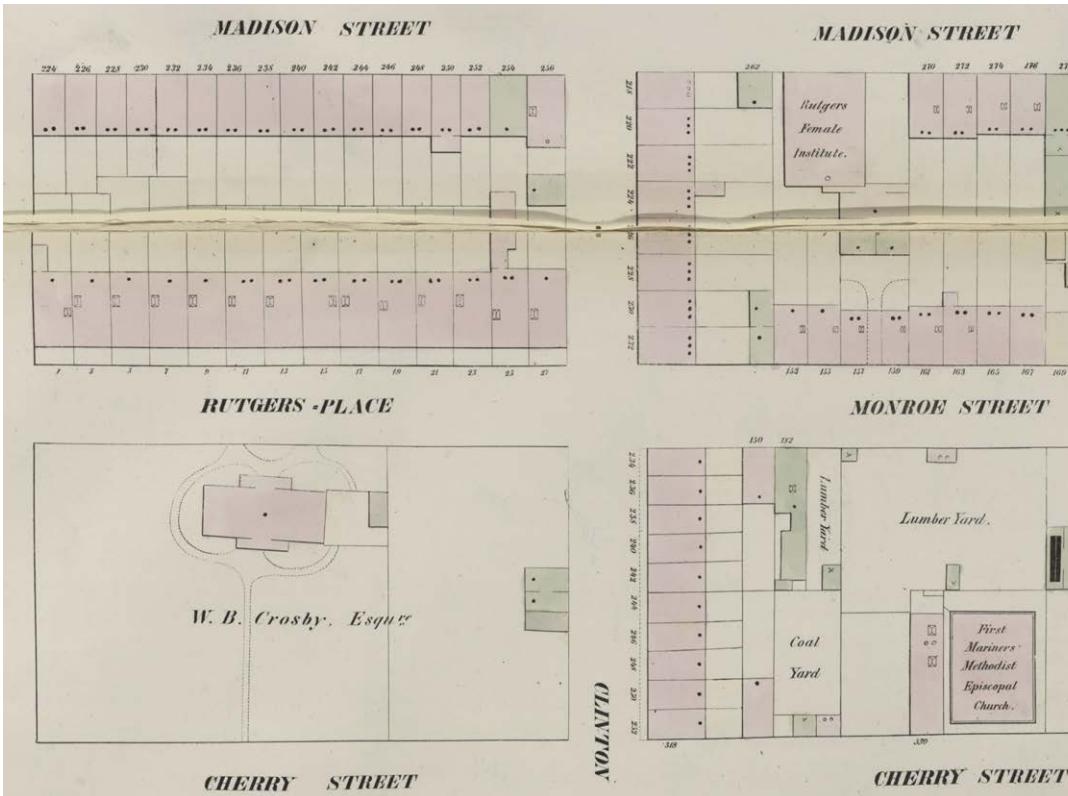


Plate 16: Map bounded by Division Street, Montgomery Street, South Street, Jefferson Street, Perris, 1852-4

Fire Insurance Maps

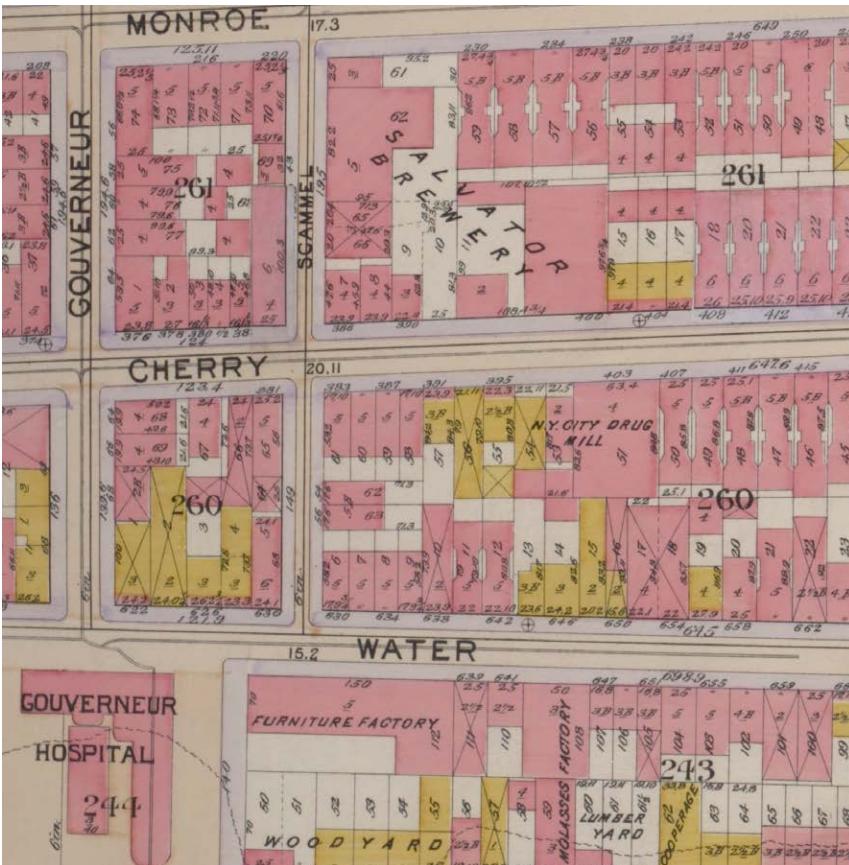
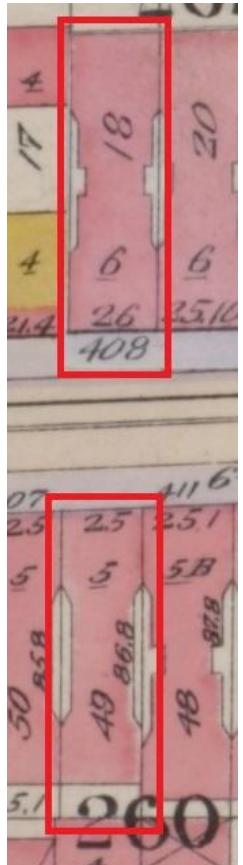
The Miller family in 1900

- Dave Miller, 38, driver
- Bessie Miller, 33
- Marie Miller, 18
- Isaac Miller, 17, butcher
- Celia Miller, 16
- Moses Miller, 10
- Hyman [Charlie] Miller, 4

Demographics

- 409 Cherry Street
- 5 story Old Law tenement, built 1879
- Business on ground floor
- 18 families
- 96 people
- 53 adults, all immigrants (5-10 years)
- 43 native born, all children
- Russian-Jewish
- Working class

Maps tell stories



Atlas of the City of New York [...], / G.W. Bromley, 1902, Plate 14

NYPL Digital Collections

Digital holdings

716,025 items (209,124 public domain)

Including...

Maps

c.25,000 maps, digitized

- 17,000 fire insurance maps
- 3,000 county maps
- 1,000 land auction pamphlets
- 1,000 separate historical maps of NYC

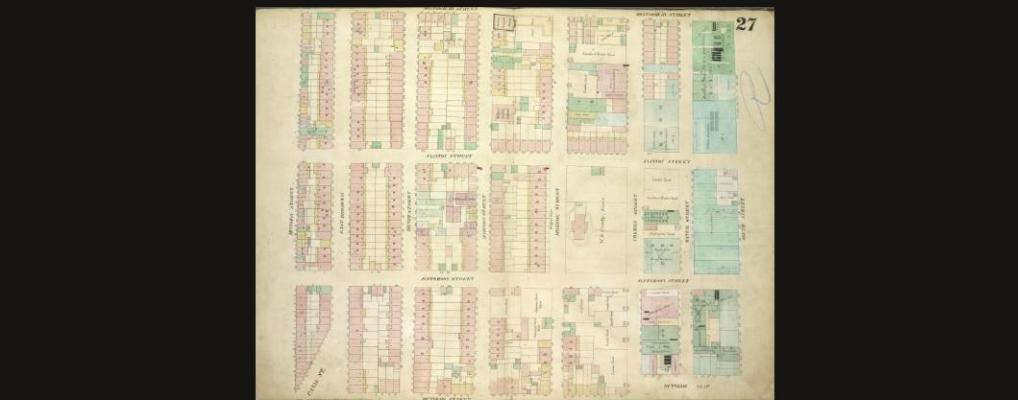
Features

- Zoom, rotate, and print.
- Internet Archive Bookreader
- Download Hi-Res maps
- Selection of citation tools
- Links: NYPL Catalog, NYPL Archives Portal, Digital Library of America, [NYPL data extraction tools](#)

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Search keyword(s) Search Browse Help

Items >
Plate 27: Map bounded by Montgomery Street, South Street, Rutgers Slip, Rutgers Street, Division Street; Including East Broadway, Canal St, Henry Street, Madison Street, Monroe Street, Cherry Street, Water Street



Zoom Rotate Print

Plate 27: Map bounded by Montgomery Street, South Street, Rutgers Slip, Rutgers Street, Division Street; Including East Broadway, Canal St, Henry Street, Madison Street, Monroe Street, Cherry Street, Water Street

IMAGE ID PERMALINK
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More Details Cite This Item

Feedback

Genealogy resources

In addition to maps...

- Historical photographs
 - Archive collections
 - Institutional records
 - Manuscripts
 - Letters, photos, etc
 - Guidebooks
 - Local newspapers
 - Records of events, people and places
 - Genealogical materials
 - **City directories**
 - Family trees
 - Bible records
 - Oral histories



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[DIGITAL COLLECTIONS](#)

Items : Abraham D. Beame

Search (keyword(s)) [Search](#) [Browse](#)

Item Details

Abraham D. Beame

1 - 4.

— Then what did he have to move the city from? It was unusual that his observations to that effect are nonessential.

Would you tell me a little something about your relationship with Victor Ostwald? How did you meet him?

A. Well, frankly, my relationship was not unusually warm with him.

Q. Oh!

A. I had much warmer relationships with the heads of other city agencies, the sanitation, [unclear] the police, the fire.

Q. Harry [unclear]?

A. Harry Feltenthal, or so. But we got to know each other rather well however, in trying to solve some problems that we were faced with there. I brought the unions in, and we discussed frankly and openly what the situation was. I sought their help, I referred to give them any leads [unclear] enough we necessary, and I talked over the years they now have I dealt with them, they trusted me.

Q. That was the message that he gave that night.

A. As a matter of fact, his predecessor, Harry Wurf —

Q. Yes.

A. — I dealt with just as I dealt with him and they all had that kind of reaction. As a result, they agreed to do what I asked them to do, which I mentioned earlier, which was to lend the city the money the city wasn't able to raise in the open market.

View Text

Page 5 of 77

Feedback

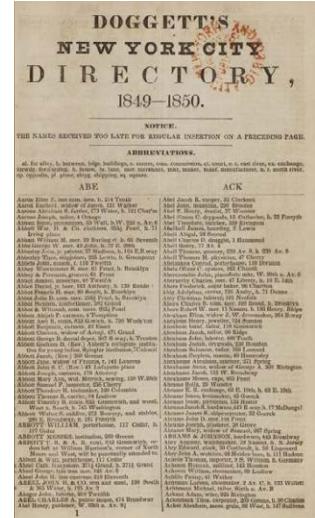
Abraham D. Beame

TYPE OF RESOURCE: **Oral History**

DATE SEARCHED: **10/07/2013**

ID #: **127125685-000001**

PERMALINK: <http://nycopubliclibrary.org/cdm/ref/collection/p15738coll10/id/127125685-000001>



Beyond Metadata

Extracting data from the contents of digitized items

NYPL Digital Collections
716,025 digitized items

Metadata

Digital Collections portal search by title, description, creator, year of publication, catalog record, item number, subject terms, etc..

But not all the useful content is easily captured, e.g. the details in a fire insurance map, or the names in a city directory

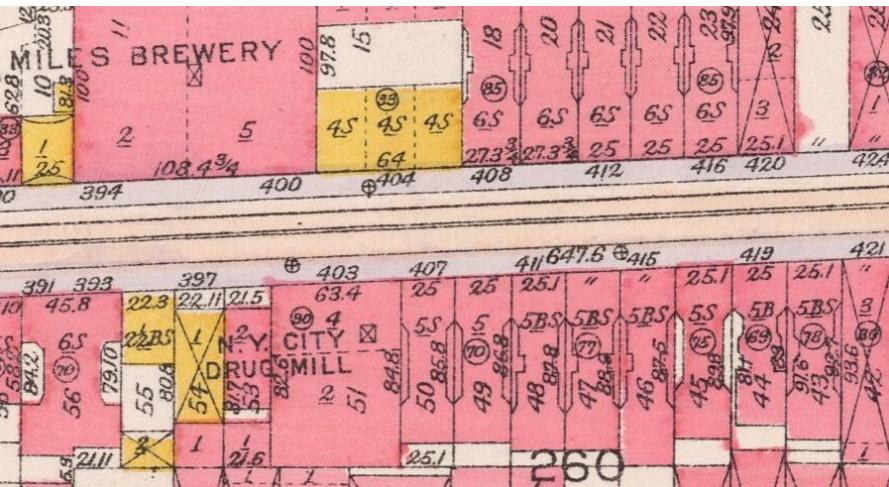
Solutions?

Software and crowdsourcing

Top: Manhattan, Cherry Street / Percy Loomis Sperr, 1937.

Bottom: Atlas of the City of New York [...], Plate 14 / G.W. Bromley, 1902

Summer Palmer, turner, 65 Barclay, h. 6 Conestoga pl.	Sutherland Spencer, bricklayer, h. E. 29th n. Second av.
SUMNER, HUBBARD & CO, 128 Broadway	Sutherland William, carpenter, h. 4 Milligan pl.
Sun Reuben, fireman, h. Eleventh av. n. W. 35th	Sutherland William, mer. 58 Front, h. 215 W. 18th
SUN (The), 128 Fulton	Sutherland Wm. fruits, 30 Wash. mkt. h. 45 Greenwich
SUNDAY ATLAS (The), 44 Ann	Sutherland William jr. police, h. 176 Tenth av.
SUNDAY COURIER (The), 15 Spruce	Sutherland William H. carman, h. 69 W. 15th
SUNDAY DISPATCH (The), 22 Beekman	Sutherland Wm. G. late shoemaker, h. 215 W. 18th
SUNDAY MERCURY (The), 22 Spruce	Sutherland & Metzler, shipcarvers, 191 Lewis
SUNDAY SCHOOL ADVOCATE (The), 200 Mulberry	Sutherland & Monell, lawyers, 54 Wall
SUNDAY SCHOOL JOURNAL (The), 147 Nassau & 358 Park row	Sutil Diego, com. mer. 48 South, h. 45 W. 24th
SUNDAY TIMES (The), 162 Nassau	Sutil John C. carpenter, h. 14 Hester
Sunday John R. segarmaker, h. 338 Sixth	Sutor Elsie, wid. William, h. r. 22 Jane
Sunday Joseph, painter, h. r. 230 Hudson	Sutphen John, 67 Wall, h. 184 W. 22d
Sundelius Peter, pianos, 79 E. 13th, h. 10 Patchin pl.	Sutphen John S. com. mer. 92 West, h. 310 W. 24th
Sundmacher George, physician, h. 189 W. 23d	Sutphen Teneyck, paperhanger, 404 Broadway h. 76 Clinton, Brooklyn
Sundstrom Andrew G. sailmaker, 58 West, & segars, — Rector, h. Brooklyn	SUTPHEN & BREED, paperhanglers, 404 Broadway & 1 Pine
SUN MUTUAL INS. CO, 49 Wall	Sutro Charles, mer. 31 Cedar, h. 107 Second
Sundy John, painter, h. r. 280 Houston	Sutter Jacob, sashmaker, h. 86 W. 35th
Sundy Sarah, wid. Richard, nurse, h. 74 Waverley pl.	Sutter James, wheelwright, 185 W. 15th, h. 185 W.
Sunter Alexander, shoemaker, 75 Greenwich av.	15th



Crowdsourcing data extraction

Library-built tools designed to extract data from digitized library collections

Menus, maps, oral histories, photographs, bank records, city directories, and streets

 A New York Public Library website | Explore others! | Est. 2011 | Search keyword(s) | Go

NYPL Labs  What's on the menu? | Dishes | Data | Blog | About | Help

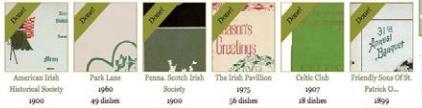
Help The New York Public Library improve a unique collection!

We're transcribing our historical restaurant menus, dish by dish, so that they can be searched by what people were eating back in the day. It's a big job so need your help! Learn more.

Connect: menus@nypl.org | Twitter | Facebook

Eating Irish

More than Meat & Potatoes...



Map our Menus!

Need a break from transcribing? Help us locate menus with our new Geotagger tool.

Today's specials

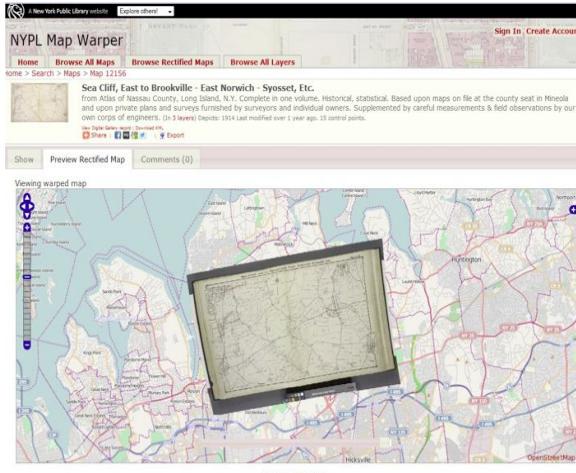
An assortment of dishes from the collection.

Help review

Transcribed menus that need a second pair of eyes. Help fix misspellings, fill in missing data...

Explore

Browse the collection. 17,545 menus digitized and counting...



The NYPL Map Warper is a web-based application for georeferencing historical maps. It allows users to upload and rectify old maps onto a modern coordinate system. The interface includes a search bar, navigation tools, and a preview of the warped map.

The New York Public Library presents

BUILDING INSPECTOR

Kill Time. Make History.

Welcome citizen cartographers! Help unlock New York City's past by identifying buildings and other details on beautiful old maps.



GET STARTED



 The New York Public Library Community Oral History Project | Transcript Editor

Make New York City history accessible — one story at a time!

Help The New York Public Library fix computer-generated transcripts from hundreds of stories from the library's Community Oral History Project.

A screenshot of the Transcript Editor interface shows a list of transcribed interview snippets:

- 0:10 Yea- yeah. Um, [laughs] where to start?
- 0:12 Uh, why do want to show
- 0:17 it's a community driven project

An example of how the transcript editor works (pick for sound).

Select an interview to get started.

Filter by Collection: All Collections | Sort by: Title (A to Z) | Search Title/Description



The New York Public Library presents

EMIGRANT CITY

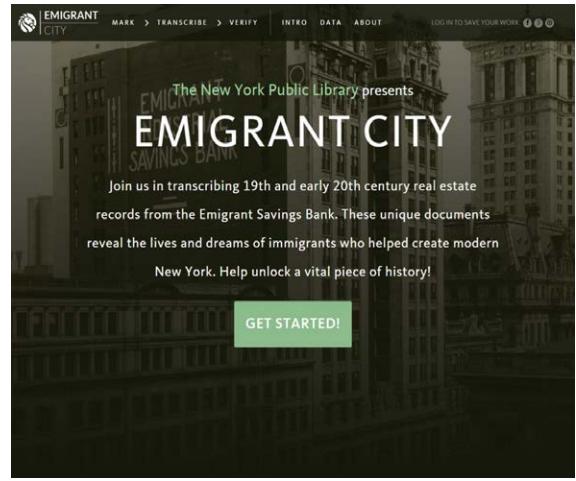
Join us in transcribing 19th and early 20th century real estate records from the Emigrant Savings Bank. These unique documents reveal the lives and dreams of immigrants who helped create modern New York. Help unlock a vital piece of history!



MARK | TRANSCRIBE | VERIFY | INTRO | DATA | ABOUT

LOG IN TO SAVE YOUR WORK

GET STARTED!



The NYPL Map Warper

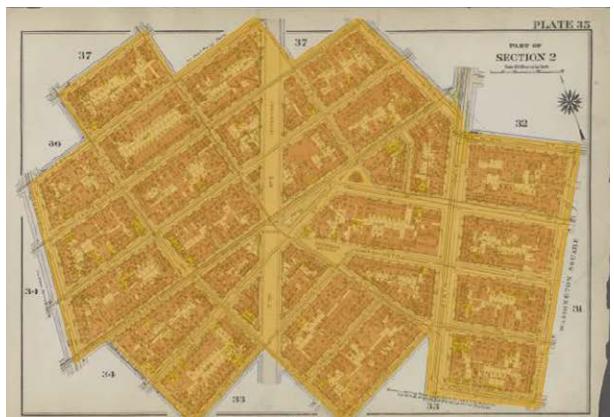
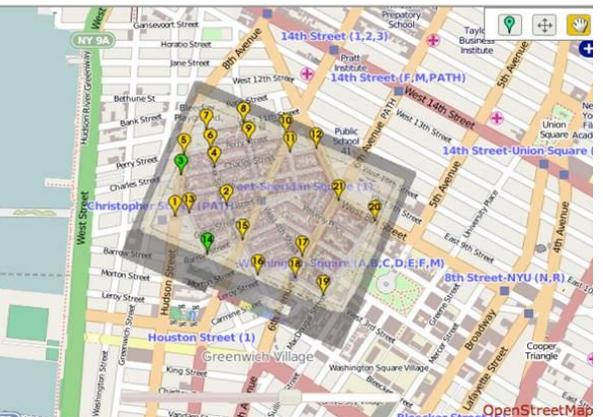
Unbinding the Atlas

"The NYPL Map Warper is a tool for digitally aligning ("rectifying") historical maps from the NYPL's collections to match today's precise maps."

2010

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

The screenshot shows the NYPL Map Warper interface. At the top, there's a navigation bar with the NYPL logo, a "Explore others!" dropdown, and "LOG IN" and "CREATE ACCOUNT" buttons. Below the navigation is a map of Bryant Park and surrounding areas. The main content area has a breadcrumb "Home > Maps" and a title "Find Rectified Maps by Location". A subtitle says "Move or zoom map - both the map and list will be updated with found maps." There's a "Year" slider set between 1895 and 2001. On the left, a vertical timeline shows historical map thumbnails for 1895, 1902, 1916, 1956, 1992, and 2001. To the right, a modern map of the same area shows buildings outlined in brown with house numbers like 250, 225, 240, 280, 65, 300, 310, 319, 251, 253, 255, 295, 293, 305, 307, 309, 311, 275, and 291. A "FIND LOCATION" button is at the top of the map. A "Citi Bike" icon is visible near Clinton Street.

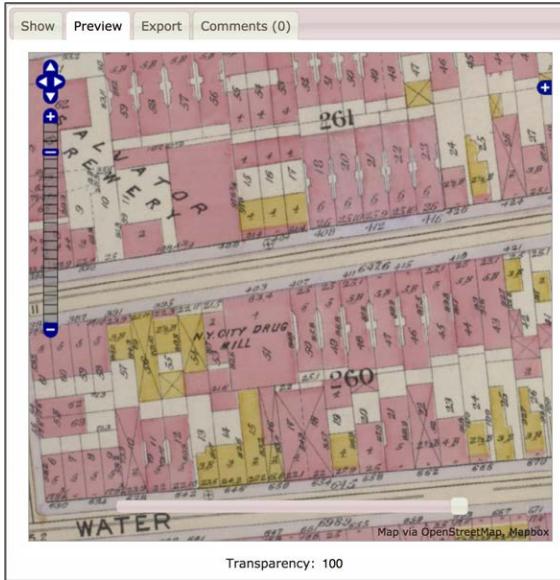


maps.nypl.org

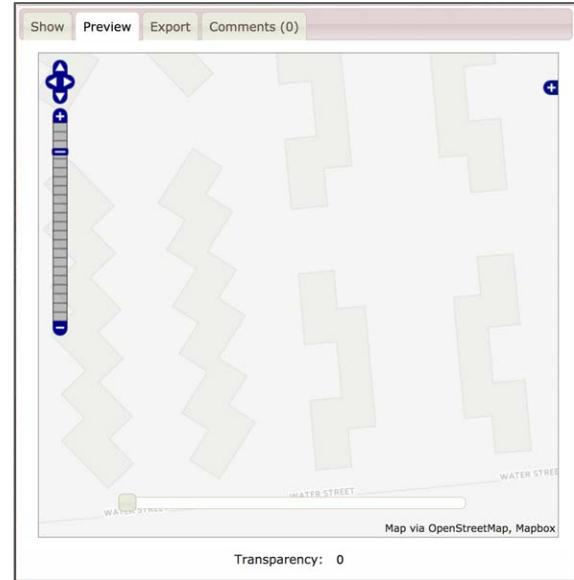
NYPL Map Warper

Genealogy uses

- Find maps by location
- Link into digital collections for citations
- Cross-reference current and historical cultural features
- Search historical addresses
- Download maps to illustrate narratives
- Download geospatial files (from maps to whole atlases) to build unique reference tools, or store in Google Earth.



Cherry Street, 1902

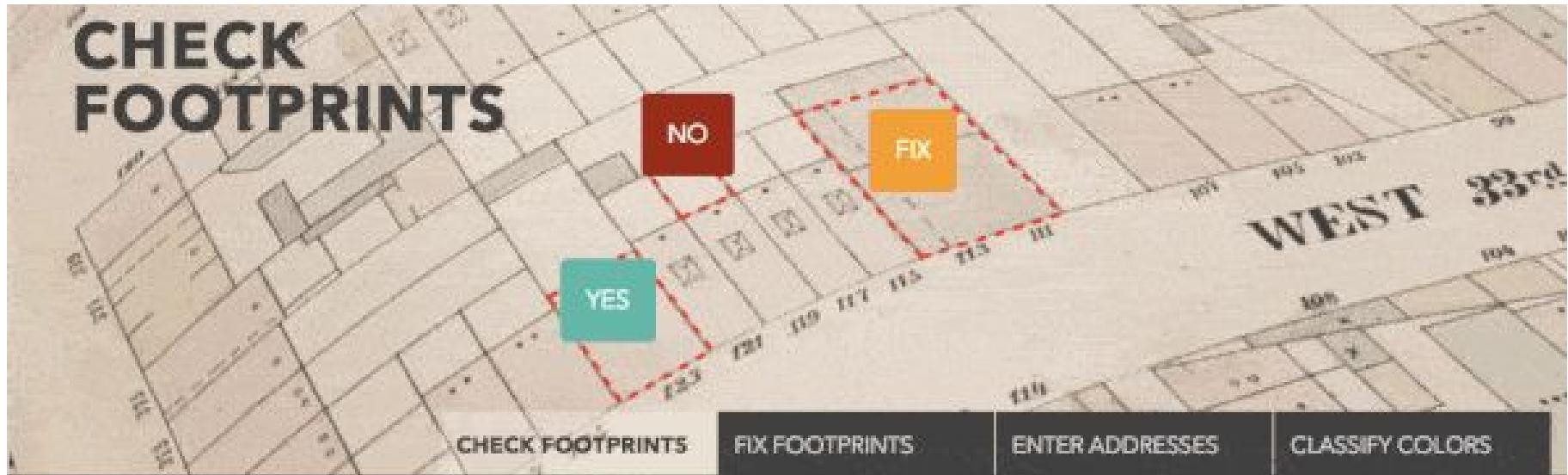


Cherry Street, 2017

Building Inspector

Correcting and extracting historical data
from digitized fire insurance maps

1. Building footprint
2. Building **number**
3. Building construction
4. Building name / type



<http://buildinginspector.nypl.org/>

Historical Streets

mgiraldo.github.io/centerlines/

Mauricio Geraldo

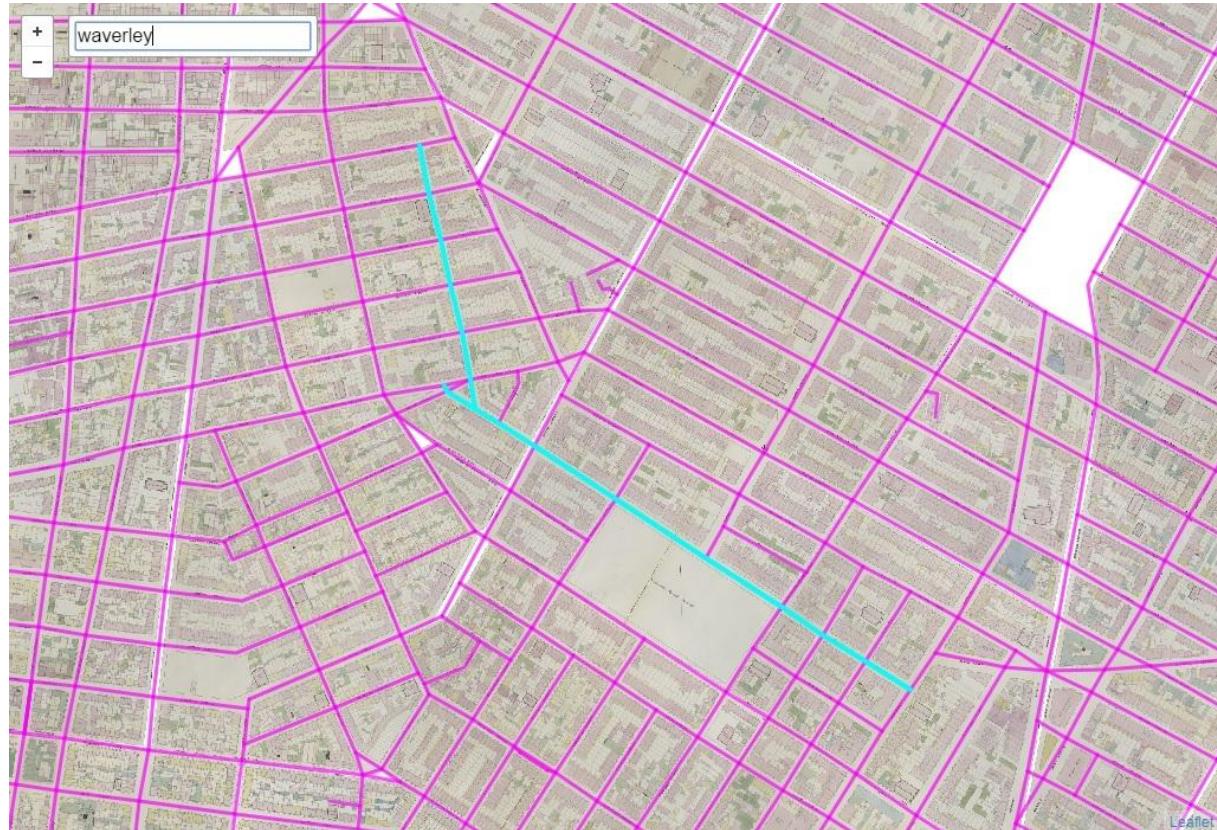
Traces the center lines of historical streets

Uses Perris NYC fire insurance map from 1854

Data set includes:

- **Street name**
- Year
- Map layer

Traced manually in QGIS



Open data

Now we have lots of data!

But...

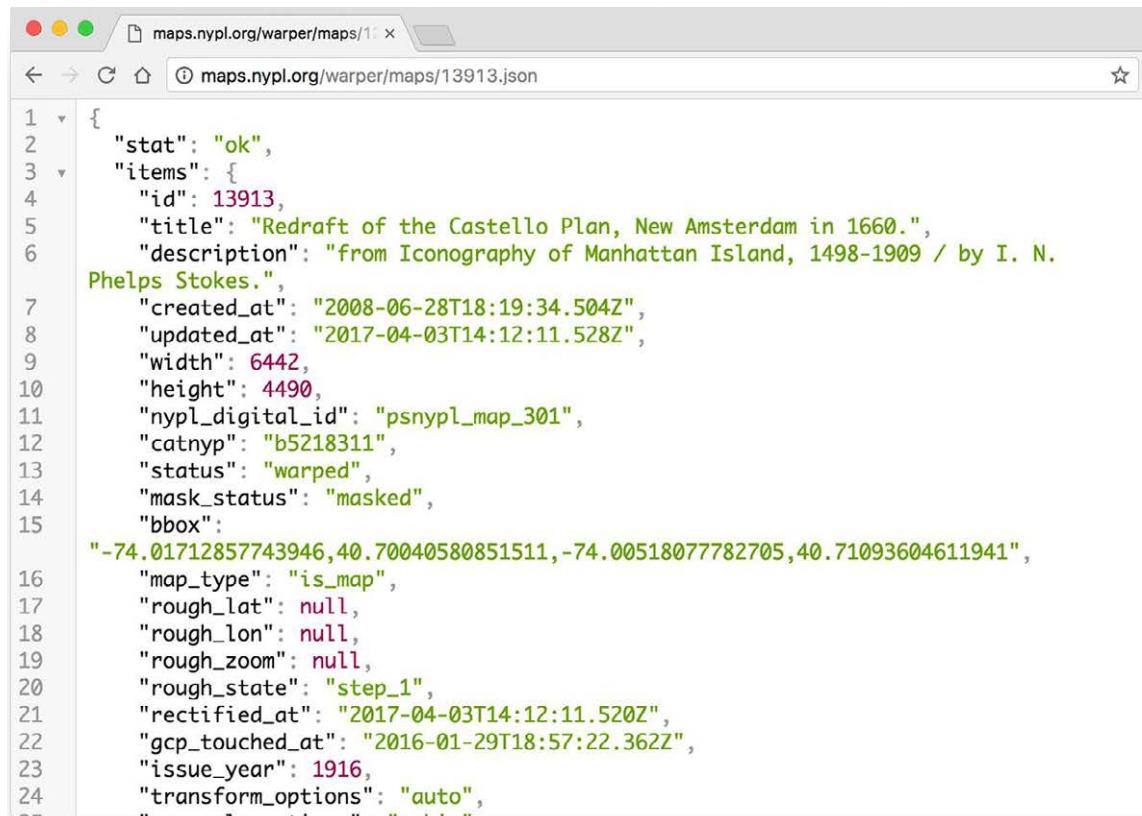
On a variety of different platforms

- Map Warper: georectified maps
- Building Inspector: building footprints data
- Historical Streets: street names
- Several others...

In a variety of formats, e.g.

- APIs
- CSV
- JSON

How can researchers access and make connections between the various tools and all their data?



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2     "stat": "ok",  
3     "items": {  
4         "id": 13913,  
5         "title": "Redraft of the Castello Plan, New Amsterdam in 1660.",  
6         "description": "from Iconography of Manhattan Island, 1498-1909 / by I. N.  
Phelps Stokes.",  
7         "created_at": "2008-06-28T18:19:34.504Z",  
8         "updated_at": "2017-04-03T14:12:11.528Z",  
9         "width": 6442,  
10        "height": 4490,  
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12        "catnyp": "b5218311",  
13        "status": "warped",  
14        "mask_status": "masked",  
15        "bbox":  
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18        "rough_lat": null,  
19        "rough_lon": null,  
20        "rough_zoom": null,  
21        "rough_state": "step_1",  
22        "rectified_at": "2017-04-03T14:12:11.520Z",  
23        "gcp_touched_at": "2016-01-29T18:57:22.362Z",  
24        "issue_year": 1916,  
25        "transform_options": "auto",  
26    }  
}
```

NYC Space / Time Directory

What is it?

1. Where data is stored
2. Where web-based tools live
3. Where information is shared
4. And connections made

Everything in one place



NYC SPACE/TIME DIRECTORY

Let's build the future of New York City's past
with support from



The New York Public Library is creating a digital time-travel service for New York City with historical maps, collections rich in geospatial data, and the public's help.

The NYC Space/Time Directory will make urban history accessible through a set of resources including: a searchable atlas of New York past, an historical location directory and geocoder, a set of APIs and data sets, and a discovery tool linking NYPL collections together in an historical and geographic context.

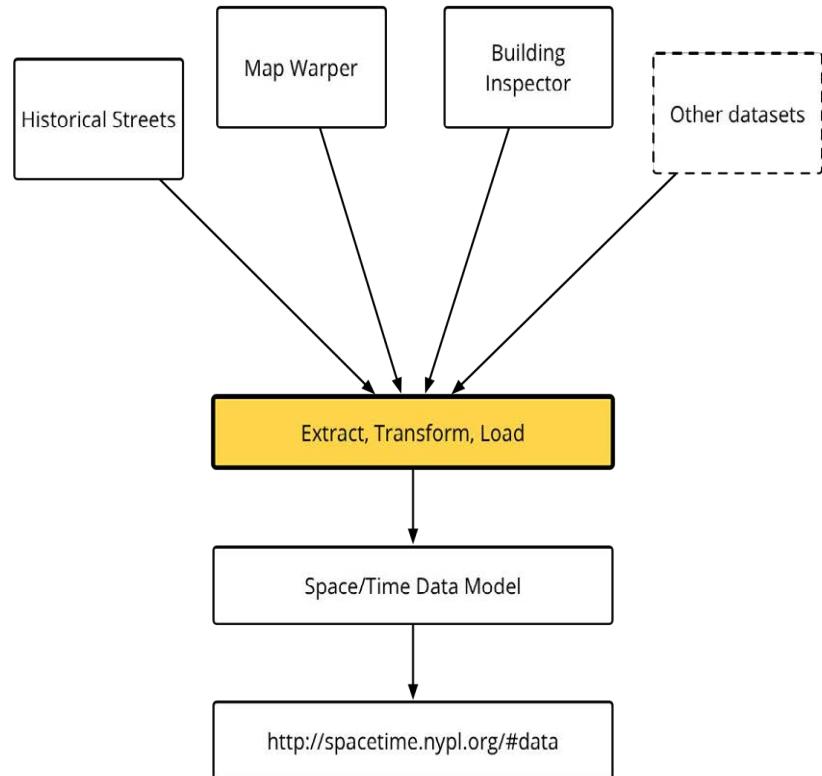
<http://spacetimenypl.org/>

NYC Space / Time Directory: Data

How data flows into NYC Space/Time Directory

1. Data is created in the Library's different web-based crowdsourcing tools
2. Data is then extracted from those locations, transformed into consistent file formats, and loaded into the NYC Space/Time Directory
3. Data is published in the NYC Space/Time Directory (spacetime.nypl.org)

Where Data is Stored



Everything in one place one place

Maps By Decade

Bert Spaan, NYPL

Where web-based tools live

- Search and exploration tool
- 5,000 digitized, georectified maps in one location
- Access all maps describing a given place in a given decade
- Links to different tools
 - View on map
 - Map Warper
 - Digital Collections
 - Data at geojson.io

The New York Public Library
NYC Space/Time Directory | Maps by Decade

Map List About

1850 - 1859

Back to overview

1860s →

3 maps selected — click again to unlock selection

[Plate 67: Map bounded by West 4...]
Year published: 1852
[Remove from map](#)
[View in Map Warper](#)
[View in Digital Collections](#)
[View data on geojson.io](#)

Map showing the old high water lines along t...
Year published: 1855
[View on map](#)
[View in Map Warper](#)
[View in Digital Collections](#)
[View data on geojson.io](#)

Plate 59: Map bounded by 12th Str...
Year published: 1857
[View on map](#)
[View in Map Warper](#)
[View in Digital Collections](#)
[View data on geojson.io](#)

<http://spacetime.nypl.org/maps-by-decade/#/1850>

Inferring connections

Building an address directory

Data now

- In one place
- In the same formats

Infer relations between data collections

E.g.

- Digitized and rectified maps from the Map Warper
- Data from Building Inspector, i.e. building numbers, e.g. "207"
- Street names and lines traced from historical maps, e.g. "Broome Street"

Street names + house numbers

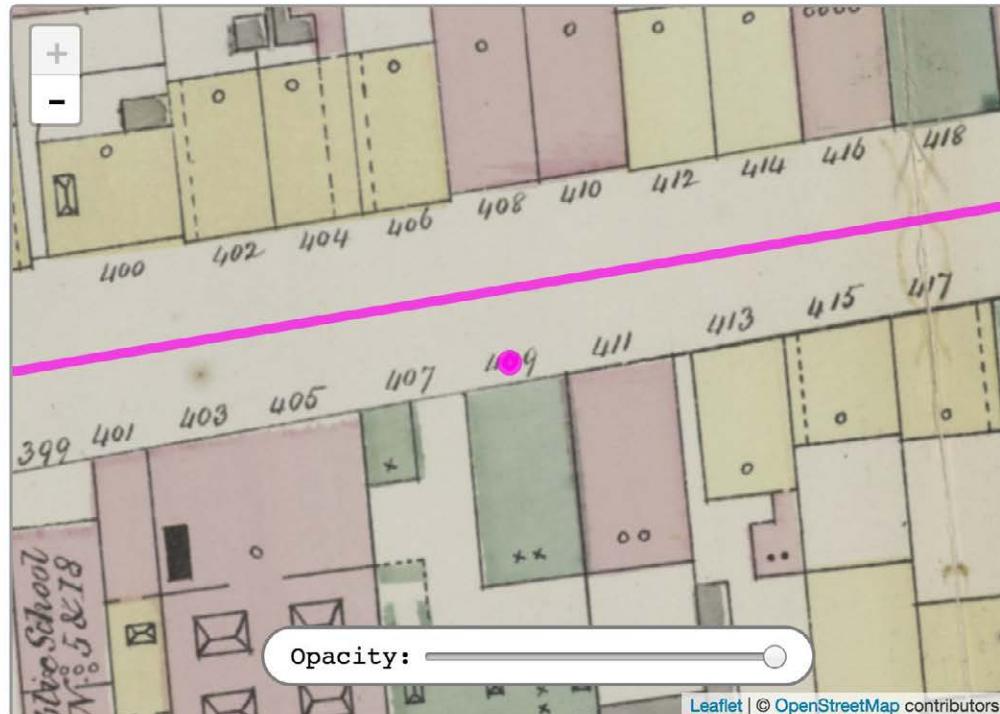
e.g. "207 Broome Street"



Model / Bert Spaan, New York Public Library

NYC Historical Addresses

409| cherry

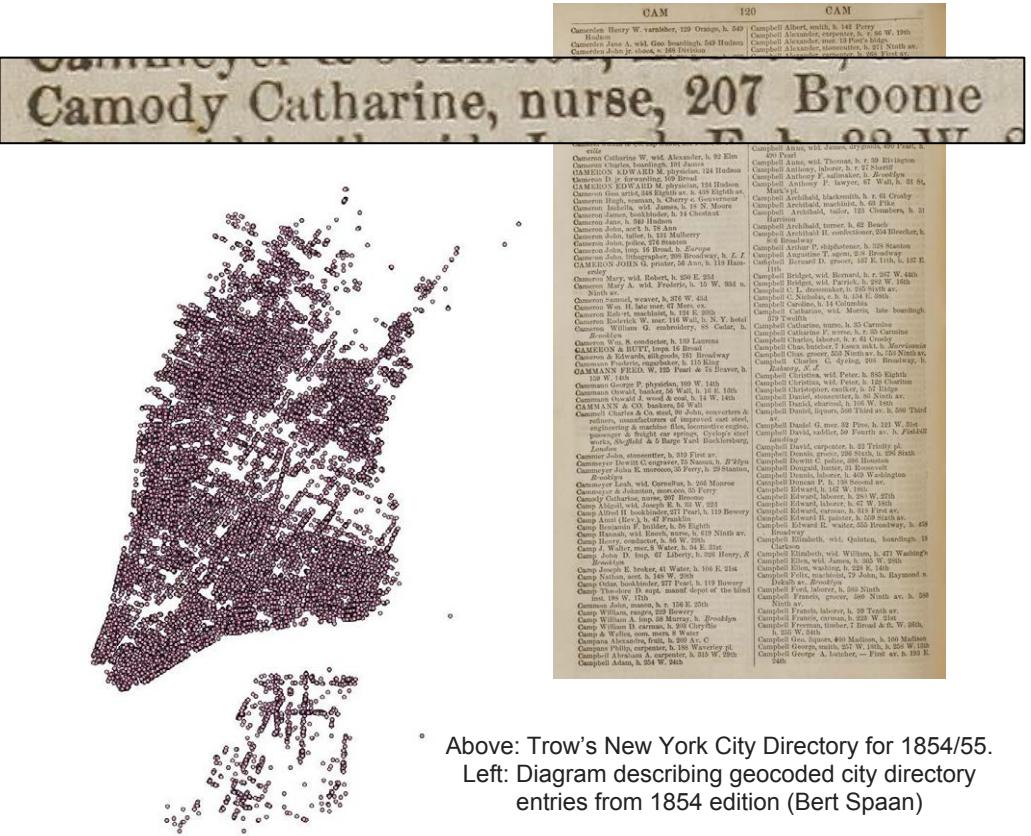


<http://spacetime.nypl.org/tutorial-historical-addresses/no-text.html>

Building an address directory

Names and addresses

- City directories, 1786-1922 digitized
- Served in NYPL Digital Collections
- Directories browsed by name
- Genealogists want to search by address
- Data extracted from 1854 NYC city directory using [Tesseract OCR](#) software (with some training!)
- Data loaded into the NYC space/time directory
- City directory entries then geocoded using Building Inspector-generated addresses



• Above: Trow's New York City Directory for 1854/55.
Left: Diagram describing geocoded city directory entries from 1854 edition (Bert Spaan)

Building an address directory

Names and addresses

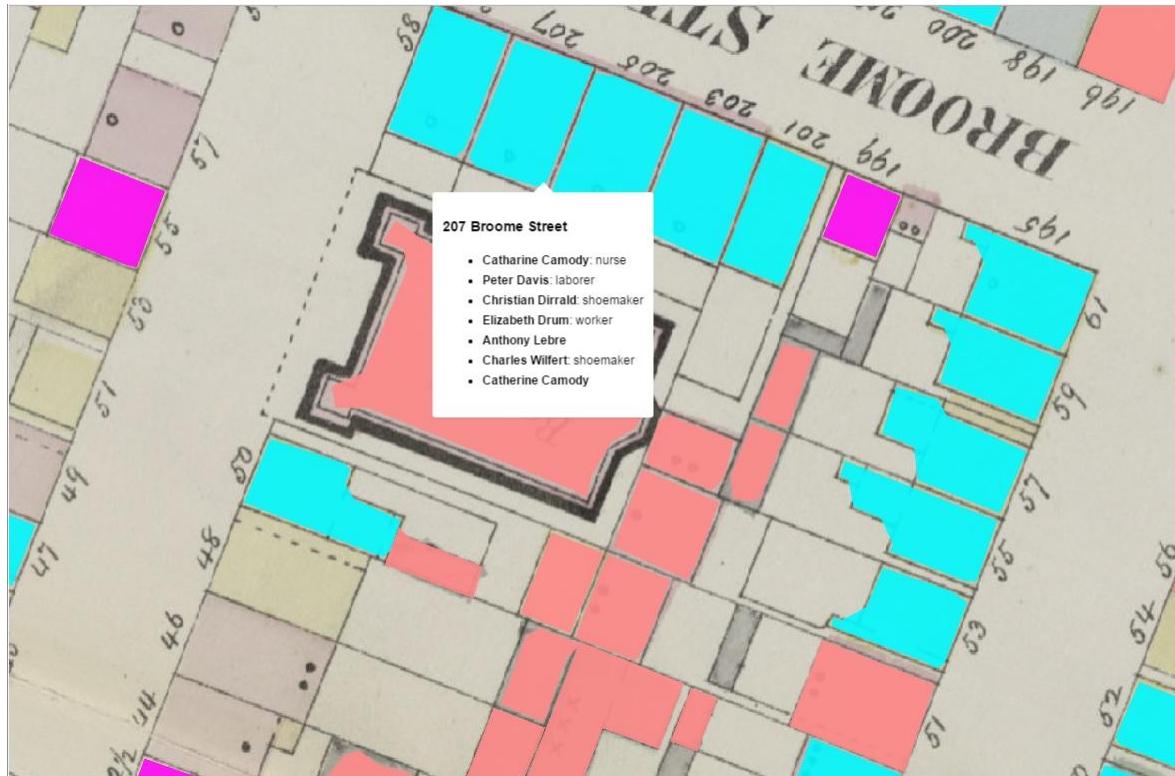
Bert Spaan (NYPL), Nicholas Wolf, and Stephen Balogh (NYU)

Combining data from

- Building Inspector
- Historical Streets
- City Directories
- Map Warper tiles

A directory that shows names of residents listed at addresses

Genealogists want this data!



<http://spacetime.nypl.org/lower-east-side-1854/>

In summary...

Maps

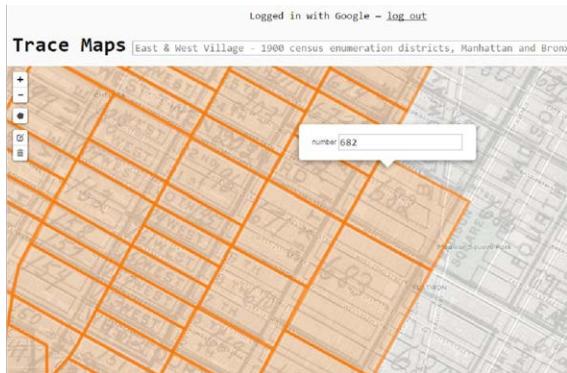
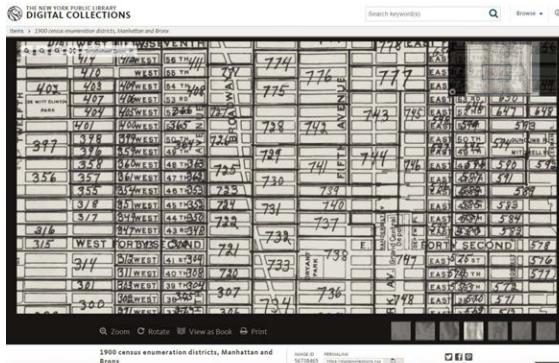
Records
Narratives

Digitized maps

Access
Preservation

Data extraction from maps

New tools
New data
New inferences
New knowledge



1900 Census Enumeration District Search tool, Fall 2017