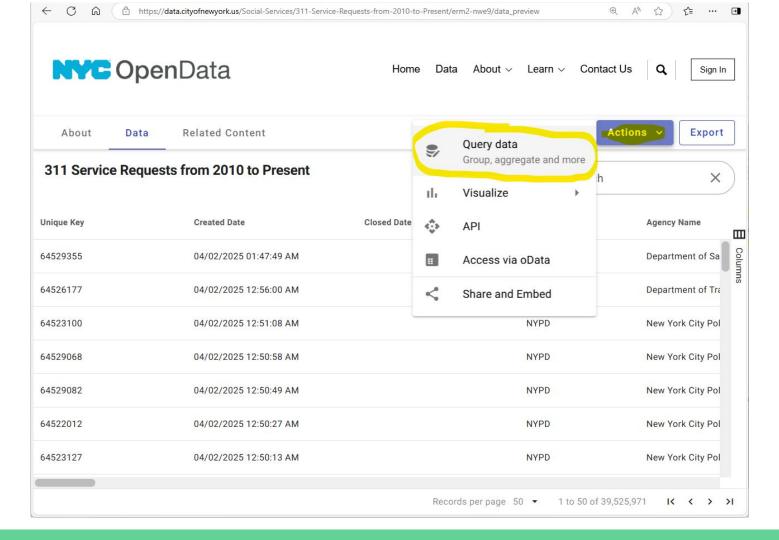
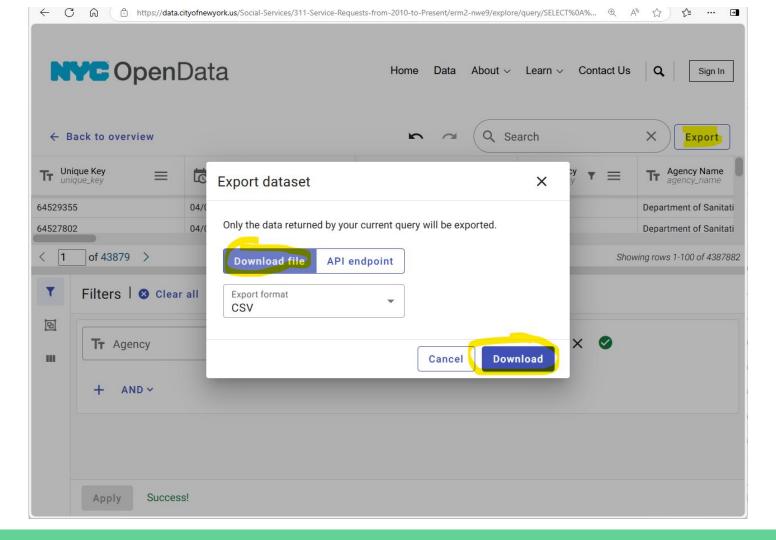
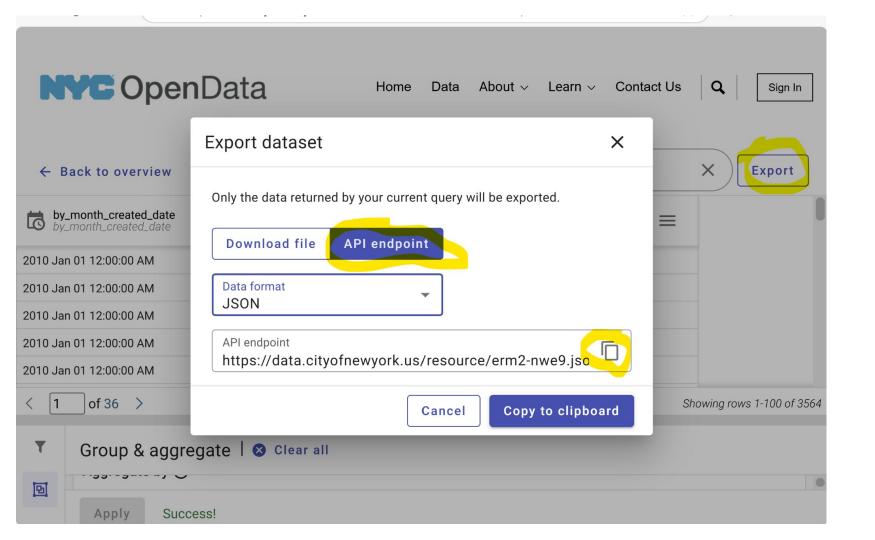
NYC OpenData & merging data

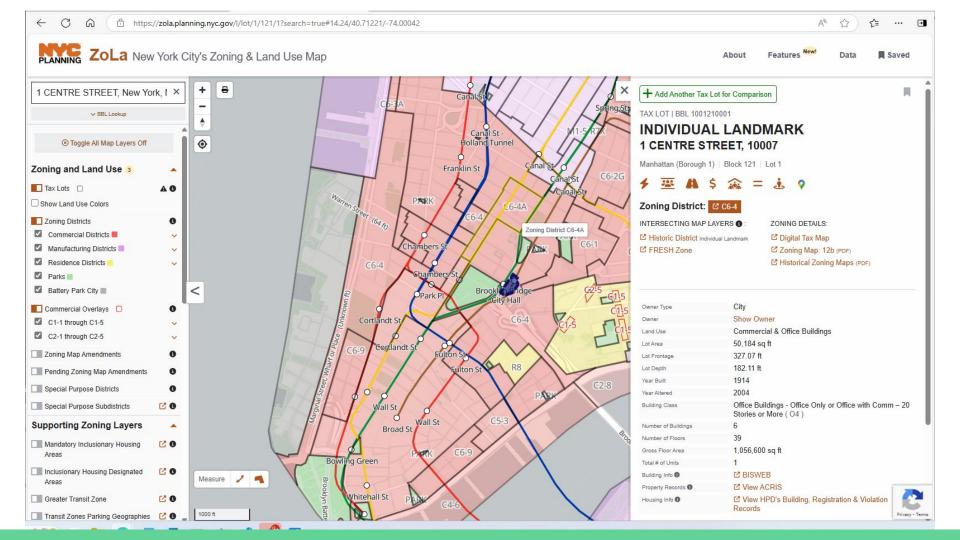
NYC OpenData







```
pd.read_csv(
    'https://data.cityofnewyork.us/api/views/6xgr-kwjq/
    rows.csv?accessType=DOWNLOAD',
)
```

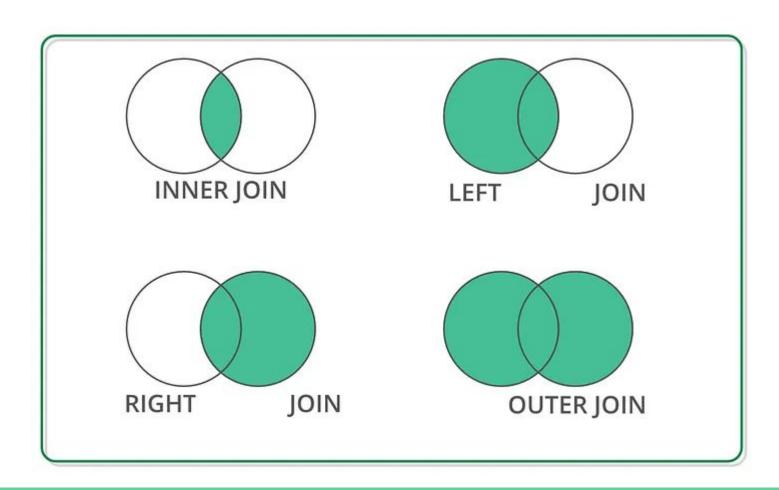


Joining data

Merge

 Extend datasets matching on a common key and combining columns from both sources

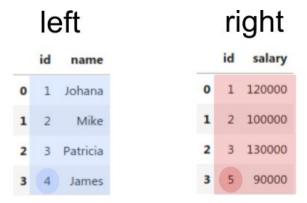
	left				right				Result				
	key	А	В		key	С	D		key	Α	В	C	D
0	KD	AD	BO	0	KD	В	DO	0	KD	AD	B0	СО	D0
1	кі	AI	B1	1	кі	а	D1	1	кі	A1	B1	а	D1
2	K2	A2	B2	2	K2	æ	D2	2	K2	A2	B2	Q	D2
3	КЗ	A3	B3	3	КЗ	В	D3	3	КЗ	A3	B3	В	D3



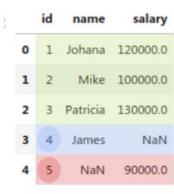
	e	eft	rigl		
ic	d	name		id	sal
0 1	1	Johana	0	1	1200
. 2	2	Mike	1	2	1000
2 3	3	Patricia	2	3	1300
3	4	James	3	5	900

merge(how='inner')

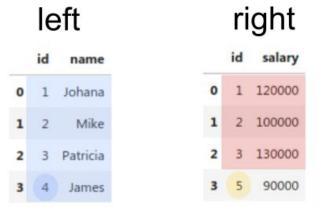
	id	name	salary
0	1	Johana	120000
1	2	Mike	100000
2	3	Patricia	130000



merge(how='outer')



datacomy.com



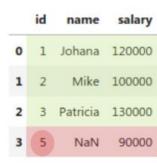
merge(how='left')

	id	name	salar
0	1	Johana	120000.
1	2	Mike	100000.
2	3	Patricia	130000.
3	4	James	Naf

datacomy.com



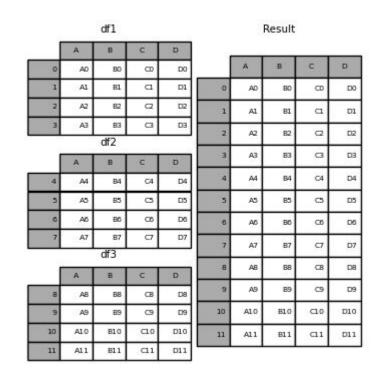
merge(how='right')



datacomy.com

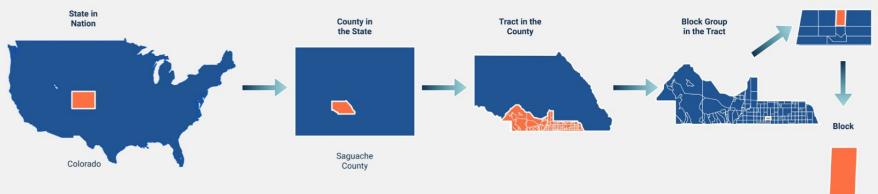
concat

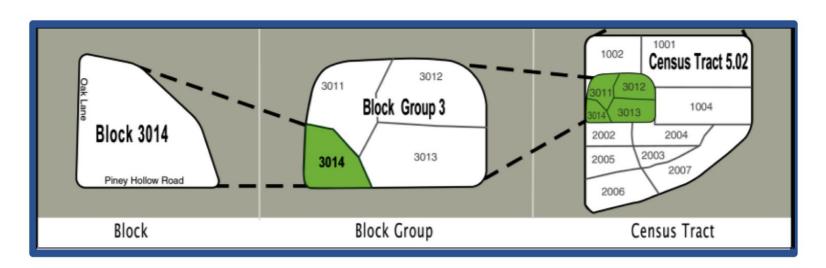
 Extend datasets by appending rows (aligned on columns)



Census data

Block in the Block Group



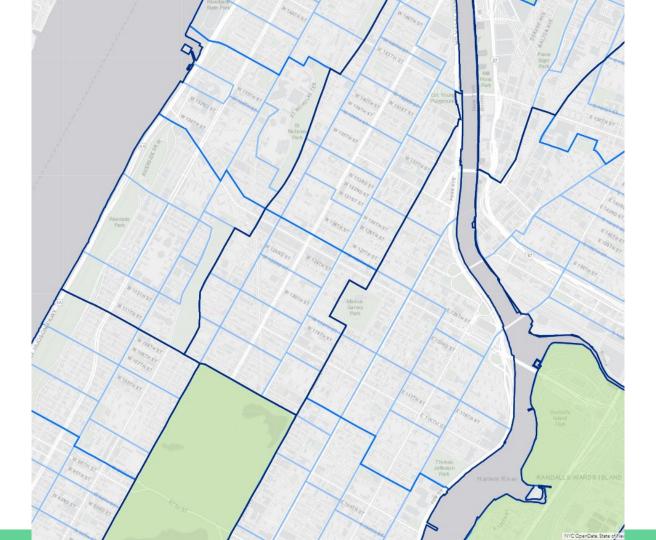


Blocks are <u>not</u> defined by population and are the smallest geographic level at which data are ever released (Decennial Census, not the ACS)

- 600 to 3,000 population
- 240 to 1,200 housing units

- 1,200 to 8,000 population (optimum 4,000)
- 480 to 3,200 housing units





Capital Projects Database BYTES of the BIG APPLE™ Census The Department of City Planning is committed to making its public data freely City Facilities

Digital City Map

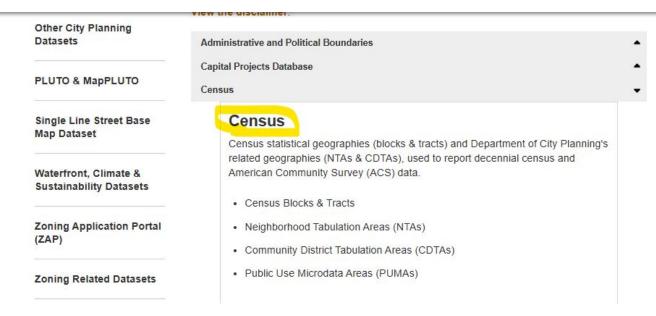
Geocoding Application

available to developers and to all members of the public.

The BYTES of the BIG APPLE™ family of software, data and geographic base map files can be downloaded here for free. To receive alerts when new data sets or updates are available, subscribe to our BYTES of the BIG APPLE RSS Feed.

City Planning's data sets are also available on the NYC Open Data platform

https://www.nyc.gov/site/planning/data-maps/open-data.page



NYC tracts map

Census GEOID identifiers



2022

Count

65.539

36,875

16,923

6.610

5,131

Share

100.0%

56.3%

25.8%

10.1%

7.8%

Census **OnTheMap**

