norwood knickerbocker mark

Introduction

Health is one of the only things that unites all of humankind, regardless of a person's heritage or identity. However, access to space, race, ethnicity and income may influence someone's participation in activities that benefit health, such as general exercise or yoga. According to a study done by the Department of Health and Human Services in the year 2000, white people of higher income exercise more often than black and Hispanic people. The National Housing Act of 1934 allowed for the division of neighborhoods up according to race in direct correlation to home loan approvals. Can mapping present day fitness facilities help us understand who has priority access to public or private, indoor or outdoor space and fitness at an affordable cost? How can this information be used to help guide more people to healthy living?

Data & Methodology

A total of 455 fitness venues were mapped for this study across 4 NYC Boros excluding Staten Island. All fitness facilities websites were visited and were originally found by Google Maps search between March 2022 - May 2022. Fitness modalities and venues considered for this study aimed to be as broad and as accessible as possible. Yoga, barre, pilates, dance, strength and resistance training and major gyms were all included in this count but only if they were easy to find and their site clearly stated that they offer public classes to groups of 2 people or higher in person, both indoors or online. Means for disqualification is a very unclear website, unclear information regarding open or closed status or the area had too many items already. For gyms, they must be a general fitness center or gym with open floor space for activities and offer a monthly membership to the public. Gyms that host rock wall climbing or fitness like Capoeira, Martial Arts and other more technical fitness modalities were left out of this study due to their very small search results and their less accessible means of doing exercise for the general public. Physical Therapy offices and exclusive or private wellness facilities were not included in this study. A variety of attribute table joins by location and filtering of data was used to offer us a meaningful spatial analysis of NYC Fitness using QGIS and NYC Open Data Sources.

Results & Conclusion

Manhattan and Brooklyn far outweigh fitness options and yoga and gyms own the most real estate overall. Queens seems to have very little fitness options and is home to some of the most diverse communities in the world. Unfortunately, this research and variety of maps reinforce that fitness is still considered more of [a luxury service, spoken mostly in English, especially] in locations like the Bronx, south Brooklyn. In the winter time, when parks are not the ideal locations for fitness, this could be troublesome for those looking for a local fitness solution who don't live near the subway. Alternatively, it is a welcome time for affordable chains to take up real estate like Retro Fitness, Planet Fitness and Blink in almost every neighborhood that shows any historical low income as those gyms cost \$20 or less per month. Crunch gym also has affordable tiered options in locations of lower income, listed on their site and in comparison to this data. Manhattan and Brooklyn

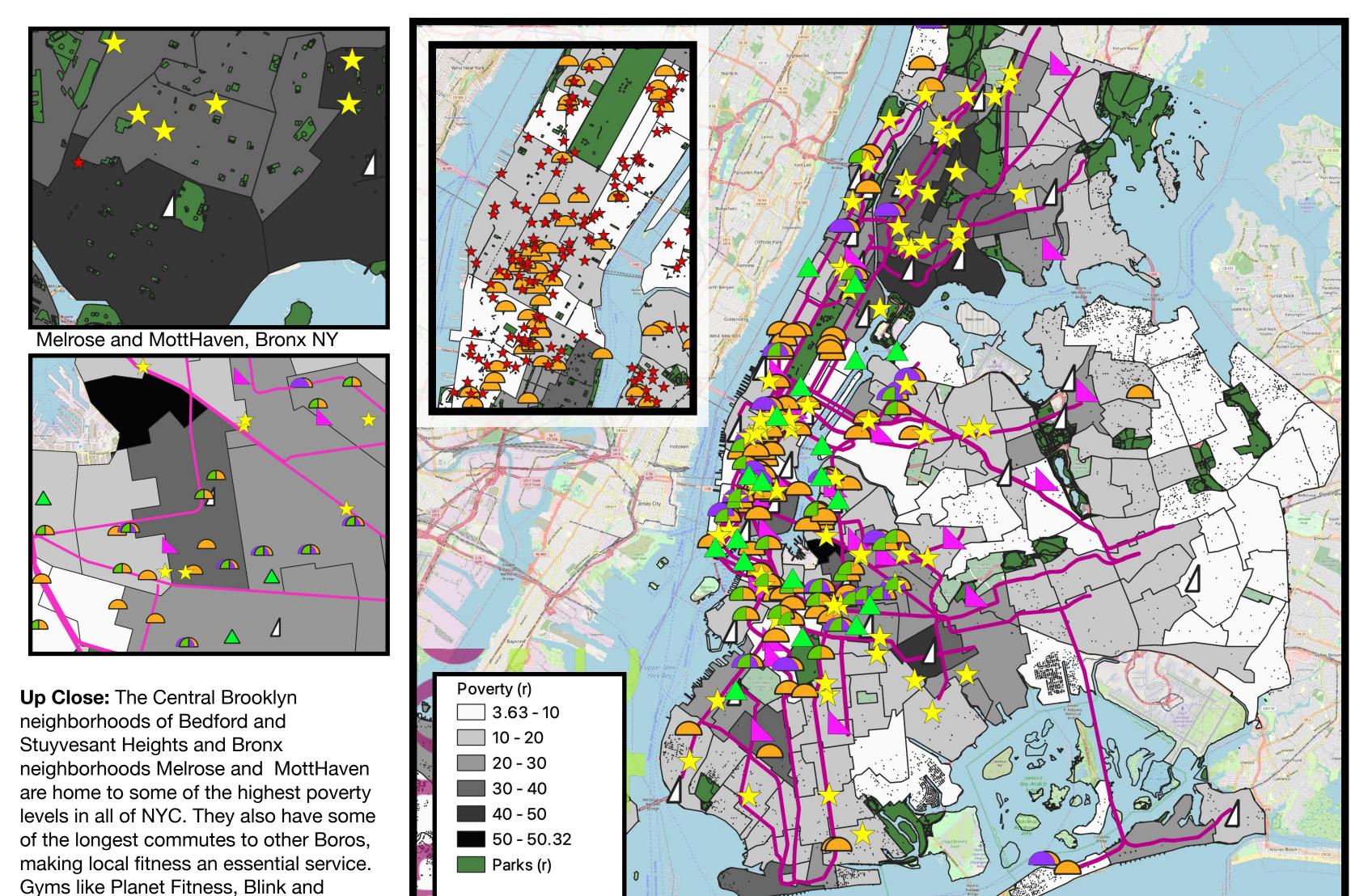
Legend

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- ▲ Fitness in NYC Parks
- Studios W/ Park Classes
- Low Cost Gyms [74]
- ★_Gyms and Boutique Fitness [277]
- Low Cost Classes [25] Open Yoga Studios [123]
- YMCA [24]
- Recreation Centers [31]
- Subway Lines Swimming pools (r)

Poverty and NYC Fitness



OpenStreetMap

Wellness or Welfare? Equinox and Soul Cycle operate 92 out of 94 of their facilities in Manhattan The average yoga class in 2022 is \$26.71, with 21 of them \$35, 12 at \$30, and 21 at \$25 out of a total of 123 yoga studios that listed drop in prices on their website.

Data Source: Poverty Data - NYC Open Data 2015-2019 Accessed 17 May 2022

Race and NYC Fitness



Crunch all offer memberships under \$20/

neighborhood hosts extensive boutique

Note: Low cost classes & gyms = \$20 or

month. Unfortunately, neither

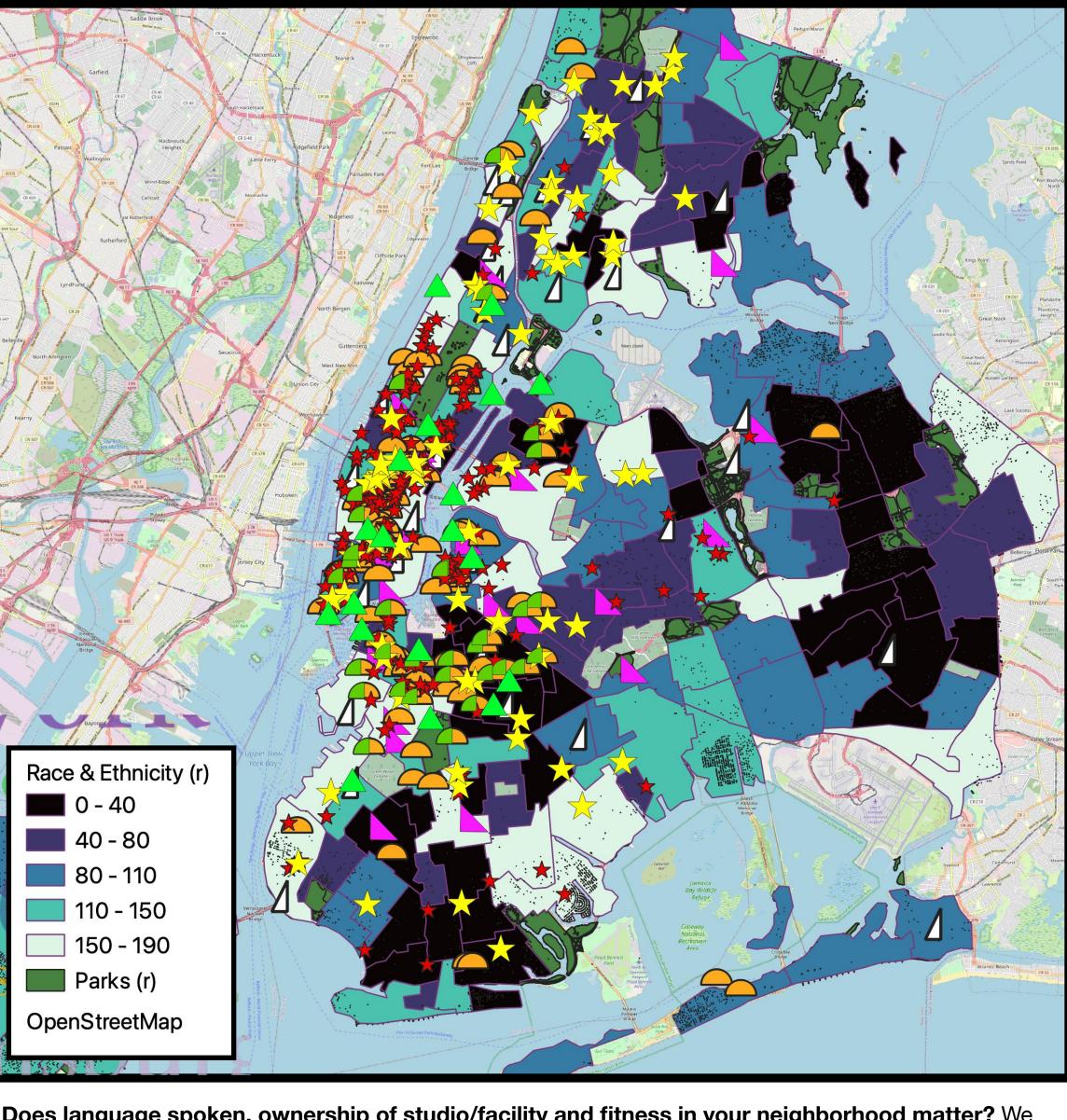
fitness studios.

less in the legend



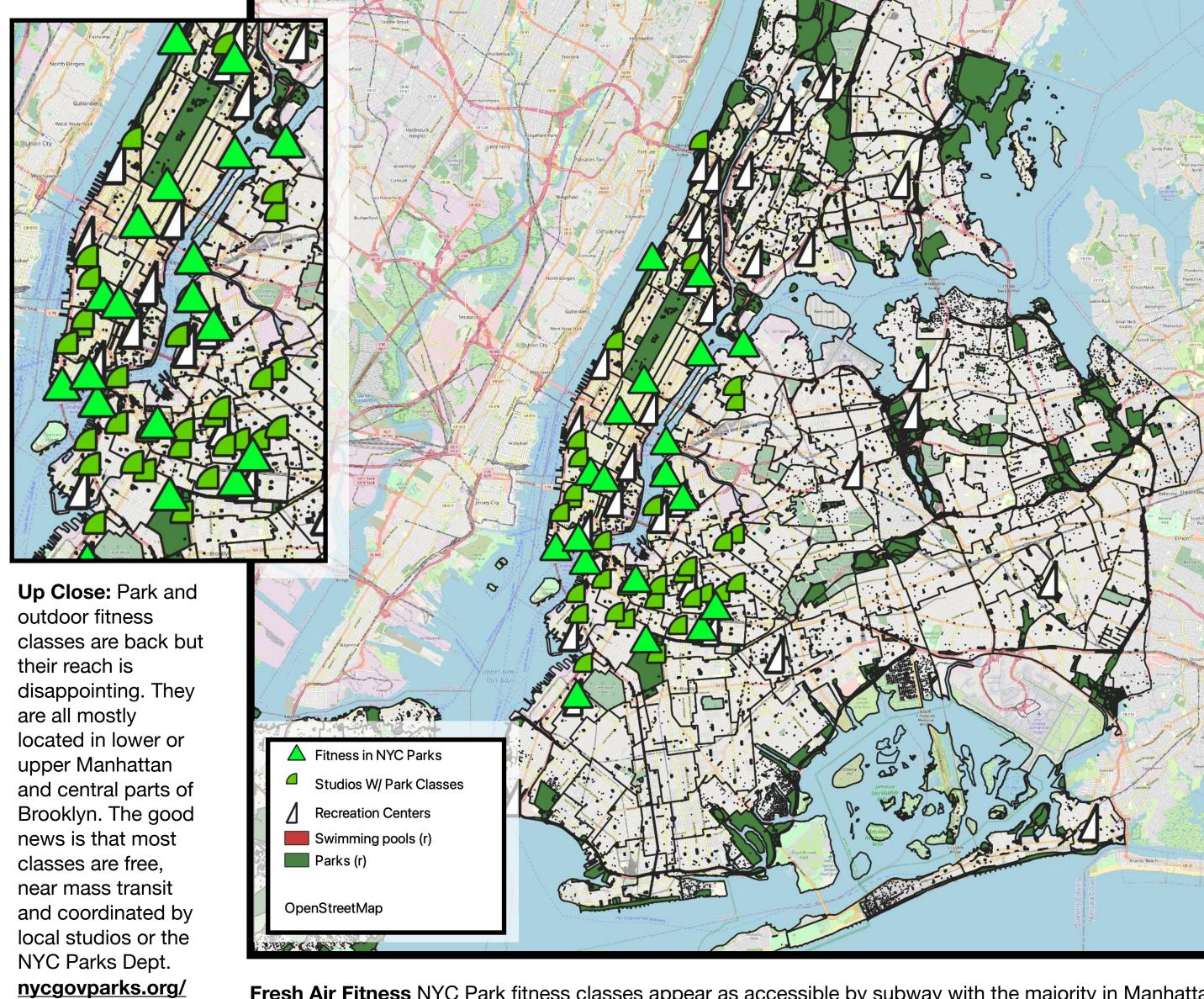
Up Close: Bedford and Stuyvesant Heights Brooklyn neighborhoods are home to high numbers of people of color. Out of all of the studios in these two neighborhoods, at least 7 out of 10 in this dataset are owned by people of

Note The dark areas represent high levels of BIPOC and extra time was spent searching in this area for boutique fitness locations and chains!



Does language spoken, ownership of studio/facility and fitness in your neighborhood matter? We think so. It's important for underserved communities not to repeat patterns of the past and to advertise their services with pride. It is unfortunate that many fitness institutions do not explicitly share their offerings in more languages other than English in a city as diverse as New York City. Data Source: Race & Ethnicity Data - NYC Open Data 2015-2019 Accessed 17, May 2022

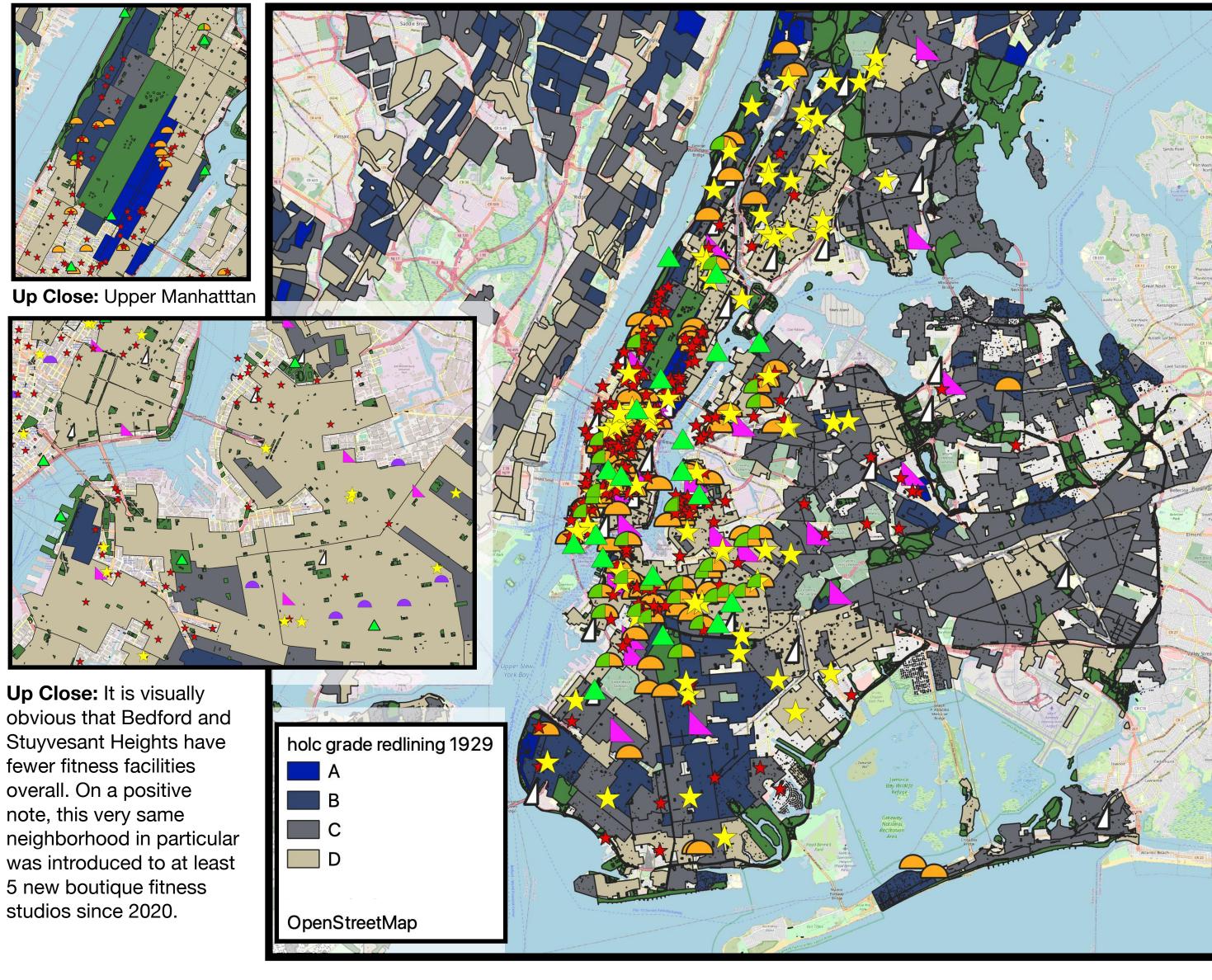
Parks and NYC Fitness



for more info!

Fresh Air Fitness NYC Park fitness classes appear as accessible by subway with the majority in Manhattan and Brooklyn. 12 of them are free or by donation! Can't make it to a class in a park? Check to see if your local park as a nearby recreation center or pool to get your summer fitness on or suggest to your local studio to offer some outdoor sessions! Data Source: Greenspaces NYC Open Data Accessed 17 May 2022

Redlining 1929 and NYC Fitness



How Can Mapping History Help Guide Us Toward a Healthier and Equitable Future? The YMCA is one of the oldest affordable health club establishments founded in 1844, are there any comparisons that we can draw in relation to this map from 1929? Visit https://www.ymca.org/ for an affordable fitness location near you!

Author: Allison Daugila, May 2022

Disclaimer: These maps are accurate but a project for DATA 787000 at the CUNY Graduate Center in NYC Under the advisement of Dr. Shipeng Sun **Other Data Referenced Here:** NYC Open Data **Public Pools** & **Athletic Facilities** Accessed 24 May 2022

Holc Grade Data Source: Robert K. Nelson, LaDale Winling, Richard Marciano, Nathan Connolly, et al., "Mapping Inequality," American Panorama, ed. Robert K. Nelson and Edward L. Ayers, accessed May 22, 2022, https://dsl.richmond.edu/panorama/redlining/[AllNYCBoros].