



The Future of HEB

Northern Expansion





The Problem: Where In NYC Does Northern Expansion Locat

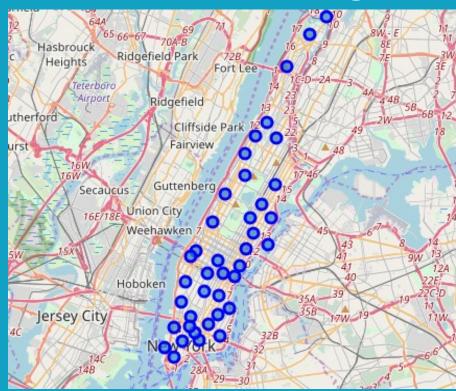


- •NYC chosen due to population density
- ·Manhattan chosen as area due to 'flagship
- •But where in Manhattan?





Using data from The New York City Planning, 40 Manhattan 'Neighbork



- Data uses centriods to locate neighborhood centers
- This data set addresses population density naming framework



Laying Foursquare Data on The N 1247 competitors ident



- Foursquare data uneven in terms of reports stores
- •There are 20 venue types, including Groce Supermarket, plus many smaller stores like butchers





Using One Hot Encoding, venues numerical data and cou

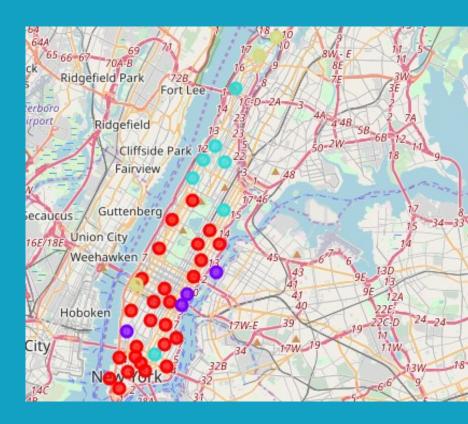
	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude
Neighborhood				
Battery Park City	16	16	16	16
Carnegie Hill	31	31	31	31
Central Harlem	25	25	25	25
Chelsea	33	33	33	33
Chinatown	49	49	49	49
Civic Center	50	50	50	50
Clinton	25	25	25	25
East Harlem	28	28	28	28
East Village	50	50	50	50
Financial District	17	17	17	17

- Data indicates raw number of competitors in neighborhood regardless of type
- •Variation from 13 to 50





K-Means clusters venues on the top for each neighborho

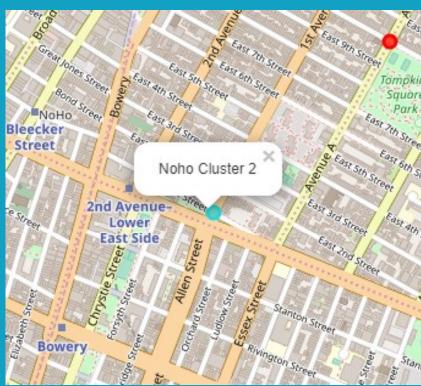


- •Red dots indicate the most common compedescribing 26 out of 40 neighborhoods
- Now, weak clusters in high density neighbor





By looking at density and uncomments the clusters, we see high density with low or weaker comp



•Noho, The West Village, and Hudson Yan highly dense neighborhoods but have lower completion and are outside the default comconfiguration.

