

PLAYER 1



HIGHSCORE 2500



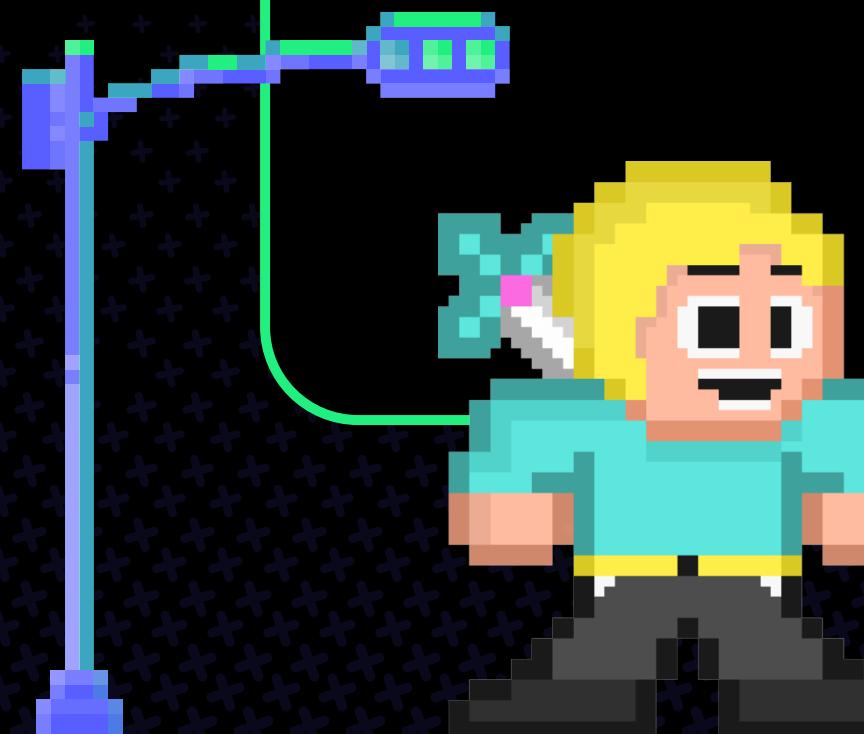
PLAYER 2

NYC AND CRIME (AND NOT LAWANDORDER STYLE)

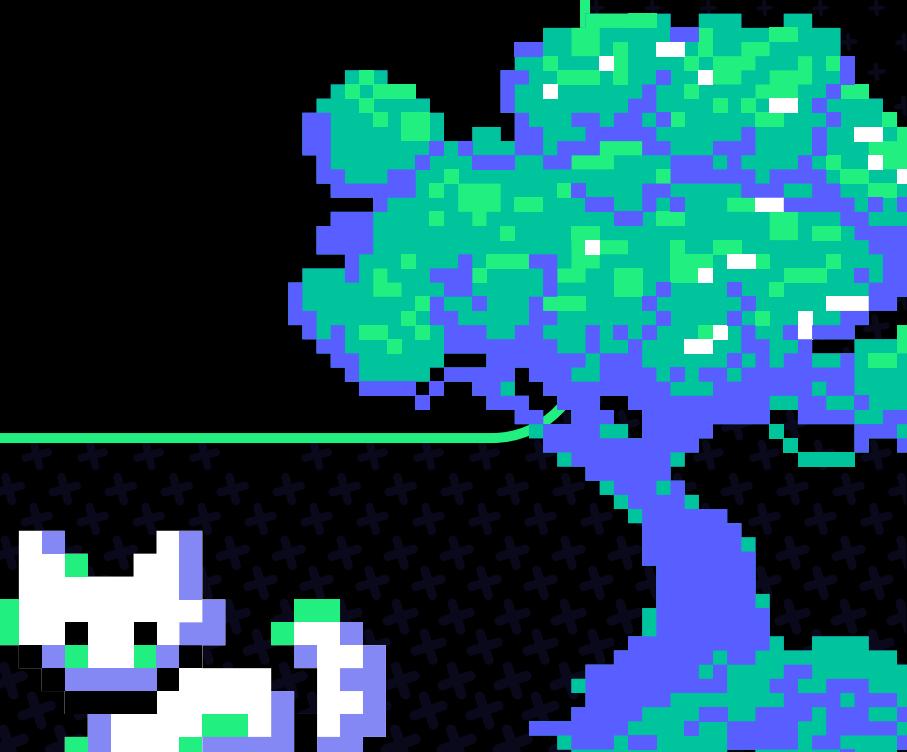
SIGN IN

MENU

START



◆ A01023339 CARLA CORONA



WHAT IS DEFINED AS A CRIME?

- ❖ ACTION THAT CONSTITUTES AN OFFENCE THAT MAY BE PROSECUTED BY THE STATE AND PUNISH BY THE LAW.
- ❖ ILLEGAL ACTIVITIES.
- ❖ UNACCEPTABLE ACT OR SITUATION.

FELONY?

➡ REALLY SERIOUS CRIME WITH EXTREME VIOLENCE AND THE PENALTY IS 1 YEAR IN JAIL TO DEATH.

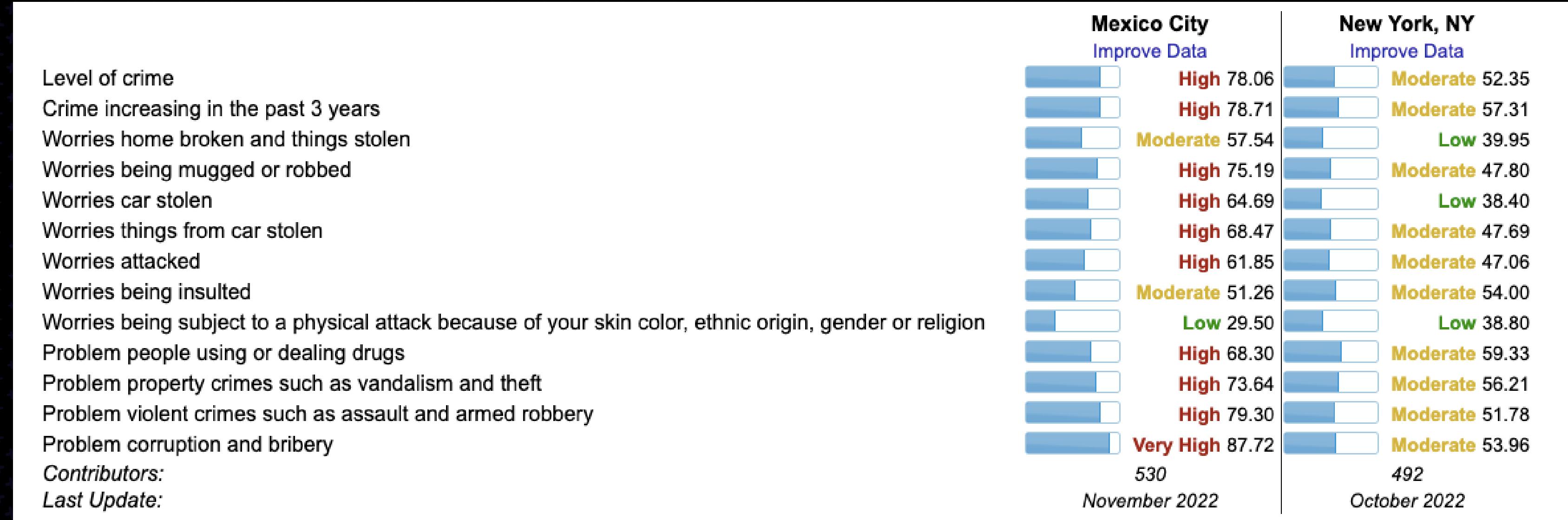
MISDEMEANOR?

➡ NOT BIG CRIME, BUT STILL CRIME. SECOND TYPE OF CRIMINAL OFFENSE, MAX 1 YEAR JAIL

VIOLATION?

➡ PEOPLE ACTING IN SILLY GOOFY MOOD, MINOR OFFENSES, YOU PAY A FINE BUT NO JAIL TIME.

WHY NYC AND NOT MEXICO?



NYC AND MEXICO

Maybe it's not exactly the same but its the closest comparison we have to determine crimes

WHY NYC AND NOT MEXICO?

How does Mexico City compare to New York?

- ✓ 5.5°C higher average maximum temperature ⓘ
23.7°C vs 18.2°C
- ✓ 3.5°C higher average temperature ⓘ
17.7°C vs 14.2°C
- ✓ 41.14% lower population density ⓘ
6000 people/km² vs 10194 people/km²
- ✓ 116.24\$ cheaper monthly public transport ticket ⓘ
12.76\$ vs 129.00\$
- ✓ 0.6% lower unemployment rate ⓘ
3.7% vs 4.3%
- ✓ 2 597.06\$ cheaper rent for a one-bedroom apartment ⓘ
682.81\$ vs 3 279.87\$
- ✓ 9 more universities ⓘ
27 vs 18
- ✓ Has lake/s ⓘ

How does New York compare to Mexico City?

- ✓ Has a seaside beach ⓘ
- ✓ 5 401.49\$ higher average salary ⓘ
6 058.32\$ vs 656.83\$
- ✓ 890\$ billion higher GDP (PPP) ⓘ
1280\$ billion vs 390\$ billion
- ✓ 1.6°C lower average minimum temperature ⓘ
10.2°C vs 11.8°C
- ✓ 7.2% lower VAT ⓘ
8.8% vs 16%
- ✓ 2 more airports ⓘ
3 vs 1
- ✓ 85# ahead in the Mercer Quality of Living Survey ⓘ
44# vs 129#
- ✓ 84 more billionaires from annual Forbes report residing within the city ⓘ
92 vs 8

NYC AND MEXICO

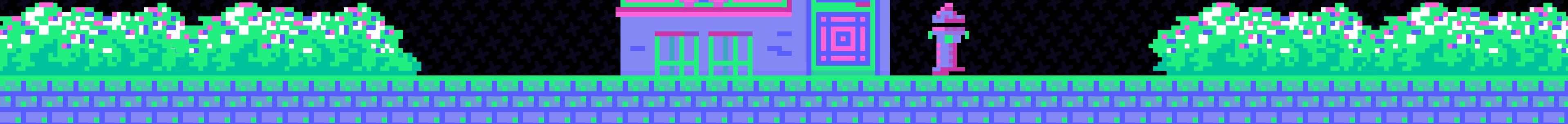
We have lower unemployment rates and less population, and more universities. But still they're #44 in Quality of Living.

SIGN IN



BACK TO AGENDA PAGE

WHY CARE ABOUT CRIME?



CLUSTERS

K-MEANS

IT ALLOWS TO GROUP THE DATA ACCORDING TO THE EXISTING SIMILARITIES AMONG THEM IN K CLUSTERS, GIVEN AS INPUT TO THE ALGORITHM. IT USES ABSOLUTE DEVIATIONS TO FORM K CLUSTERS IN THE DATA. THE CENTROID OF THE CLUSTERS IS THE MEDIAN OF THE DATA POINTS IN THE CLUSTER.

K-MODES

K-MODES IS AN EXTENSION OF K-MEANS. INSTEAD OF DISTANCES IT USES DISSIMILARITIES (THAT IS, QUANTIFICATION OF THE TOTAL MISMATCHES BETWEEN TWO OBJECTS: THE SMALLER THIS NUMBER, THE MORE SIMILAR THE TWO OBJECTS)

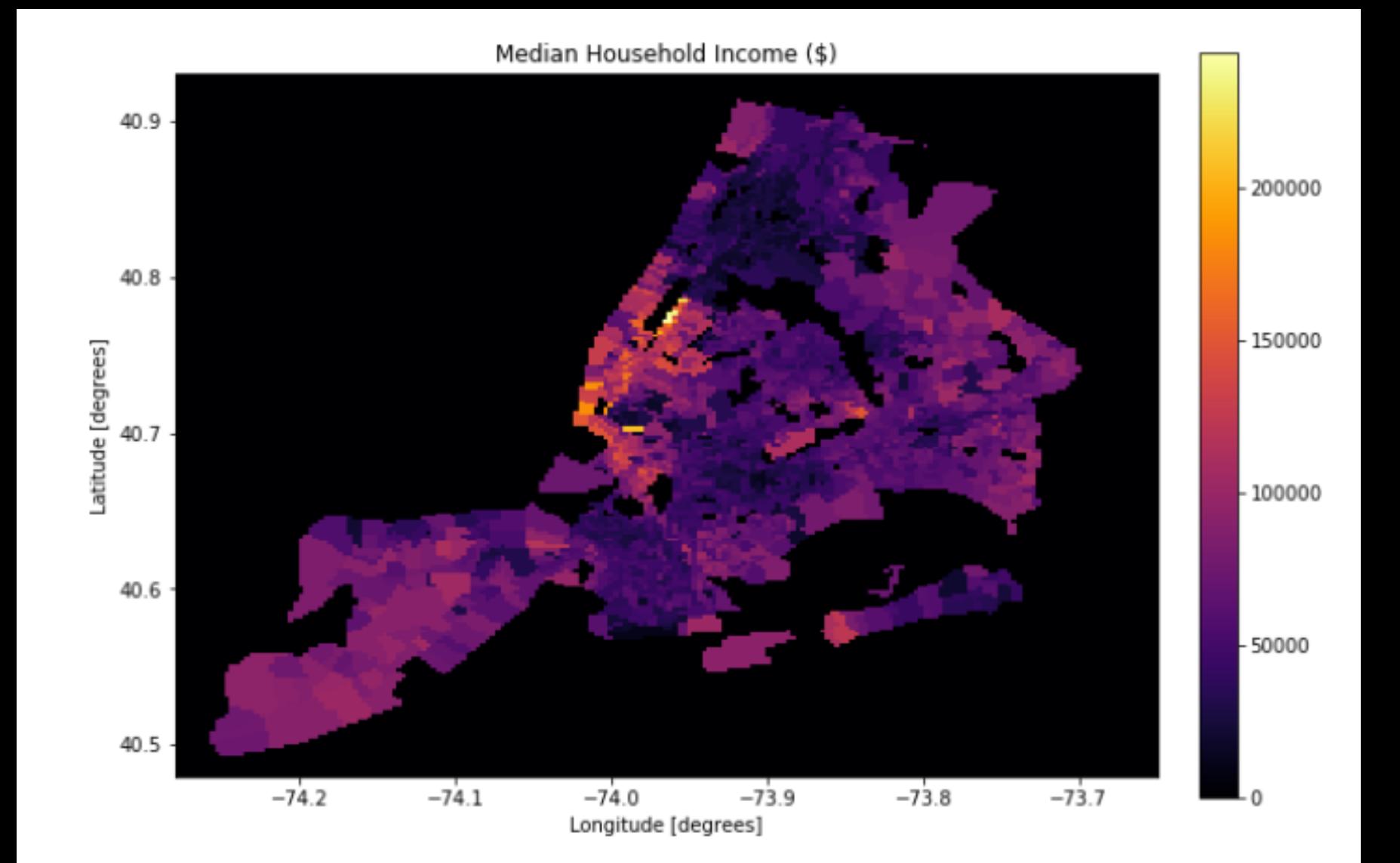




PLAYER 2

WHY CLUSTERING HELPS US SEE A PROBLEM

- COMPARING THE BOROUGHTS TO THE MEDIAN INCOME TO THE CRIME RATES D:

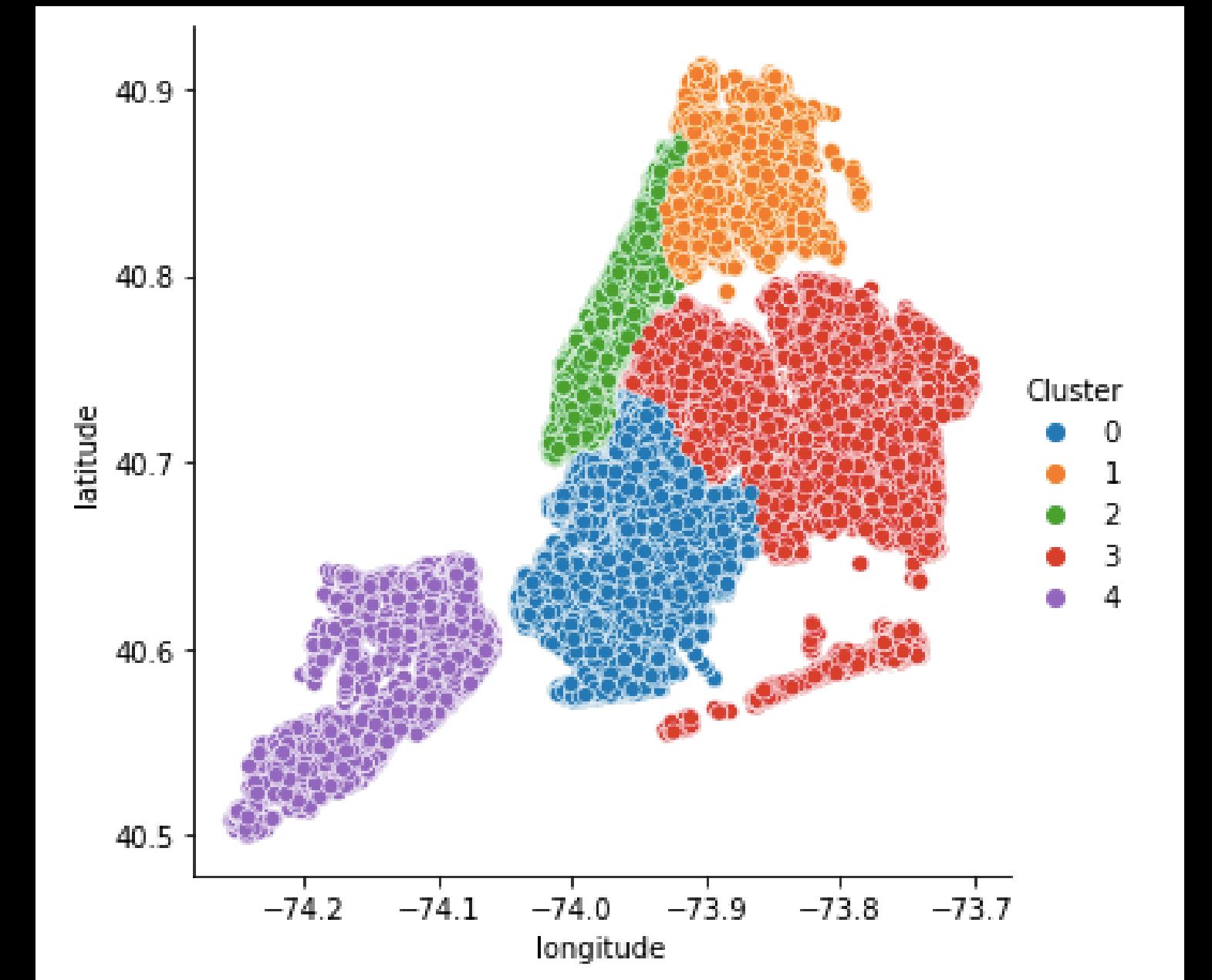


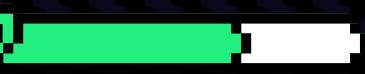


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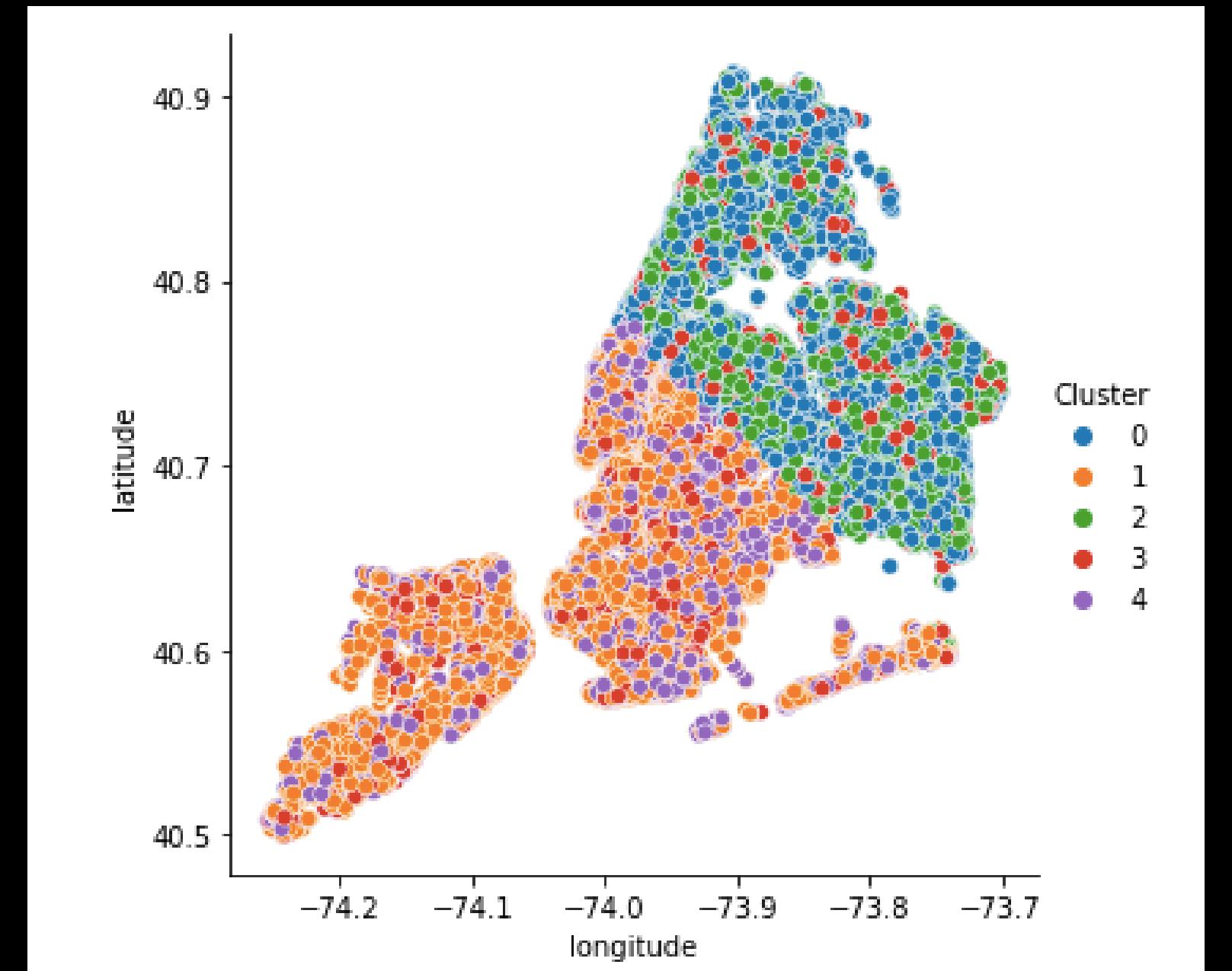




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WHY CLUSTERING HELPS US SEE A PROBLEM

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PLAYER 2

WHY CLUSTERING HELPS US SEE A PROBLEM

- COMPARING THE BOROUGHTS TO CRIME TYPES

