

Atlanta Target store burned and fireworks were set off inside, officials said

The Target at Lindberg in Buckhead was damaged after downtown protests moved north.

Coronavirus Lockdown May Spur Su Mental Illness, U.N. Warns

Childhood disease may also soar as the pandemic claims million of indirect victims by blocking access to medical care.

The federal unemployment rate dropped in May for the first time since the coronavi sent the economy into a tailspin, the strongest sign yet that the economic damage is bottoming out — although 21 million people remain out of work.

The economy gained 2.5 million jobs in May, the first time it has added jobs since eds of thousands of workers flooded back to jobs in restaurants, on with the reopening of several states in mid-May.

> ment rate dropped to 13.3 percent from 14.7 percent. The positiv the fact that the Bureau of Labor Statistics said it had misclassif d in April and March. Without the error, the unemployment rat ent for May, down from 19.7 percent for April, the agency said.

Atlanta protests devolve into fireworks and fire at Target in The New Hork Times

Ahmaud Arbery's Killing Will Go to Grand Jury as Graphic Video Emerges

Mr. Arbery, 25, was killed after two men pursued him in a South Georgia neighborhood, a confrontation that was caught on video. A prosecutor said charges should be considered in the case.





Lockdown Delays Led to at Least 36,000 More Deaths, Models Find

All 50 states have begun to reopen to some degree, but rules vary. Scientists say they see progress on the path to developing a

Protesters seek justice for death of George Floyd in Atlanta - May 29, 2020



How has Covid affected crime rates in Atlanta? A comparison of May 2019 and May 2020



Overall change

Is there an overall change in total crime rates?



Top Crime Types

What are the top crime types in 2019 compared to 2020? Were there actually changes in crime types?



Neighborhood & Zone

What trends are seen in crime rates and crime types per neighborhood?

Zone?



Unemployment

Is there a correlation between unemployment rates and crime rate/crime types in Atlanta?

Hypothesis: Negative correlation between covid rates and crime rates.

Crime Types

Larceny-Non Vehicle: the unauthorized taking of another person's property with the intent to permanently deprive them of the use of the property without force

Larceny-From Vehicle: involves taking property from a vehicle without the use of force and/or breaking into a structure to do so

Agg Assault: an attempt to cause serious bodily harm to an individual with disregard for human life.

Robbery: takes property from the person or presence of the owner by either using force or by threatening the imminent use of force

Auto-Theft: the criminal act of stealing or attempting to steal a motor vehicle

Homicide: the deliberate and unlawful killing of one person by another; murder.

Burglary: intentionally enters a place without the consent of the person in lawful possession and with intent to steal or commit a felony

Data Sources

Atlanta Crime Data: Atlanta Police

Department Open Data Portal



Covid Case Data:

Atlanta Regional Commission

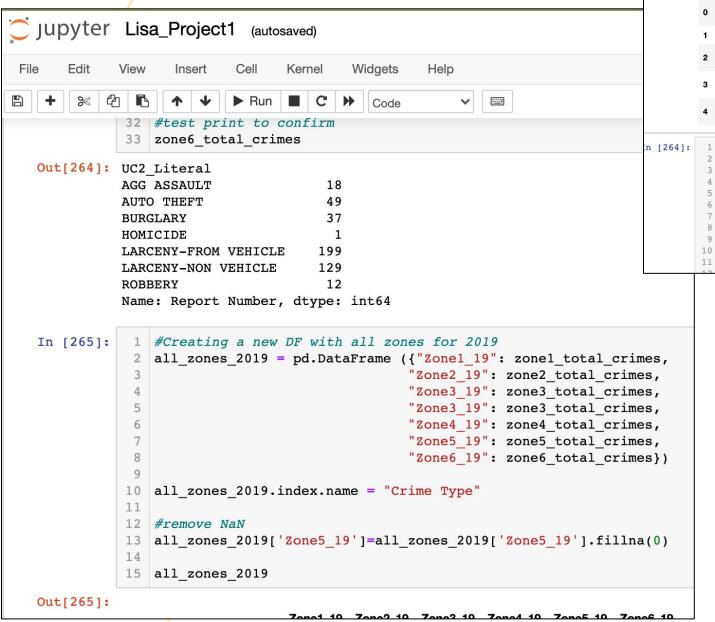
Unemployment

Rates: <u>U.S. Bureau of</u>

Labor Statistics

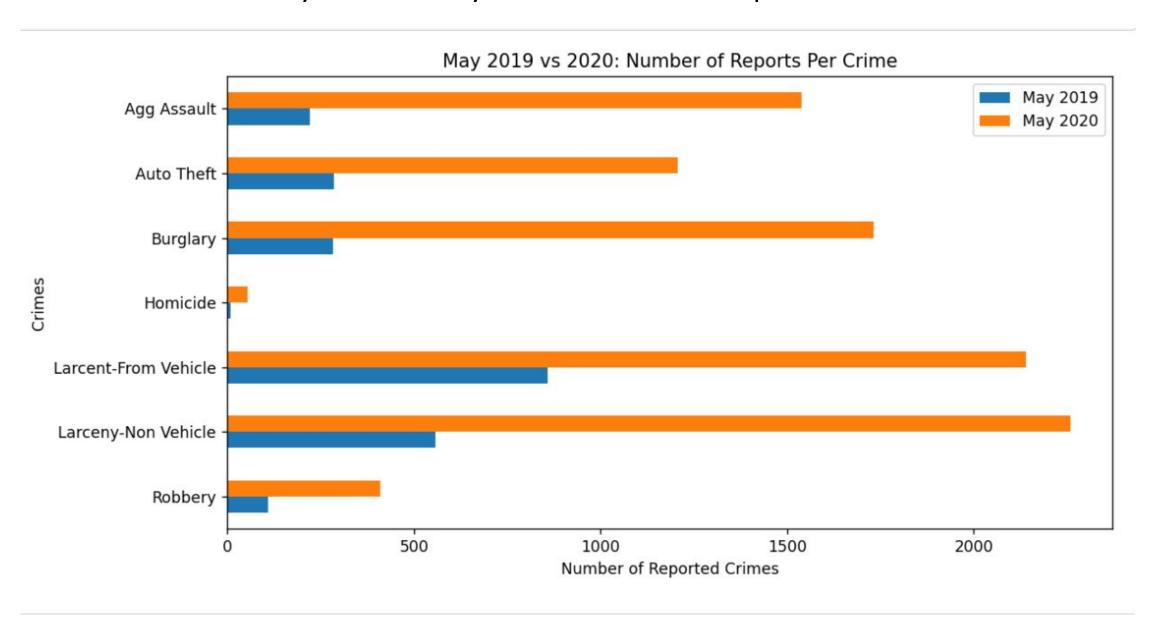
*All data in csv format

Data Cleaning

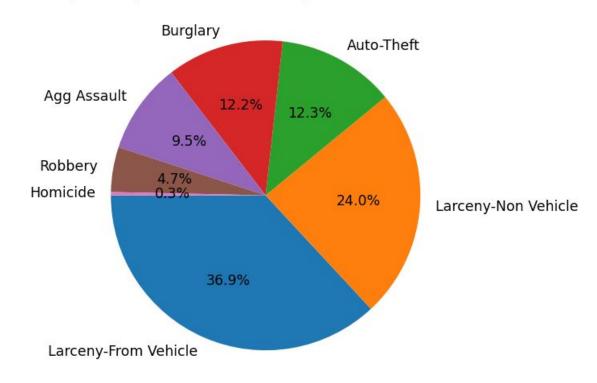


```
Out[7]:
                                       Report
                             Report
                                                                                                          Unnamed:
                UC2 Literal
                                                          Location Beat Neigborhood NPU
                                              2423 MARTIN L KING JR
                                                                             Florida
                          191511609 05/31/2019
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                                                                                                              NaN
                                                           DR NW
                                                                            Heights
                          191511253 05/31/2019 2031 CHICAGO AVE NW 107
                                                                          Grove Park
                                                                                      J 33.76485 -84.45386
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                                              2045 DONALD LEE
HOLLOWELL PKWY NW
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                                                                                     G 33.77774 -84.47583
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                                              HOLLOWELL PKWY NW
          1 #groupby 2019 crime type
           2 #zone1
          3 zone1 2019 = zone1 may2019[['UC2 Literal']]
             zone1 crime type 2019 = zone1 may2019.groupby(['UC2 Literal'])
             zone1 total crimes = zone1 crime type 2019['Report Number'].count()
          7 #zone2
          8 zone2 2019 = zone2 may2019[['UC2 Literal']]
          9 zone2 crime type 2019 = zone2 may2019.groupby(['UC2 Literal'])
         zone2 total crimes = zone2 crime type 2019['Report Number'].count()
```

May 2019 vs May 2020: Number of Reports Per Crime



Percentage of Reports Per Crime- May 2019

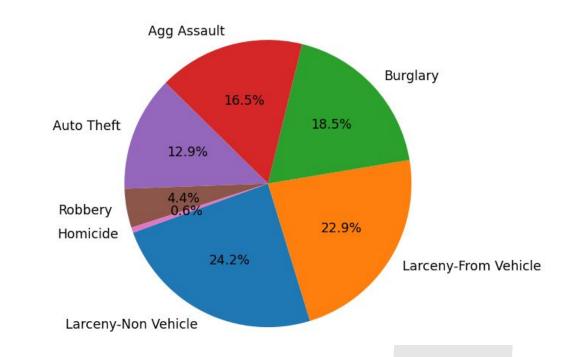


Top 5 Crimes (by Number of Reports)

1.	Larceny-From Vehicle	859
2.	Larceny-Non Vehicle	559
3.	Auto-Theft	286
4.	Burglary	284
5.	Agg Assault	222

Percentage of Reports Per Crime- May 2020

Percentage Per Crime by Overall Total



Top 5 Crimes (by Number of Reports)

1.	Larceny-Non Vehicle	2259
2.	Larceny-From Vehicle	2140
3.	Burglary	1732
4.	Agg Assault	1539
5.	Auto Theft	1208

Crime Rates by Zones in Atlanta

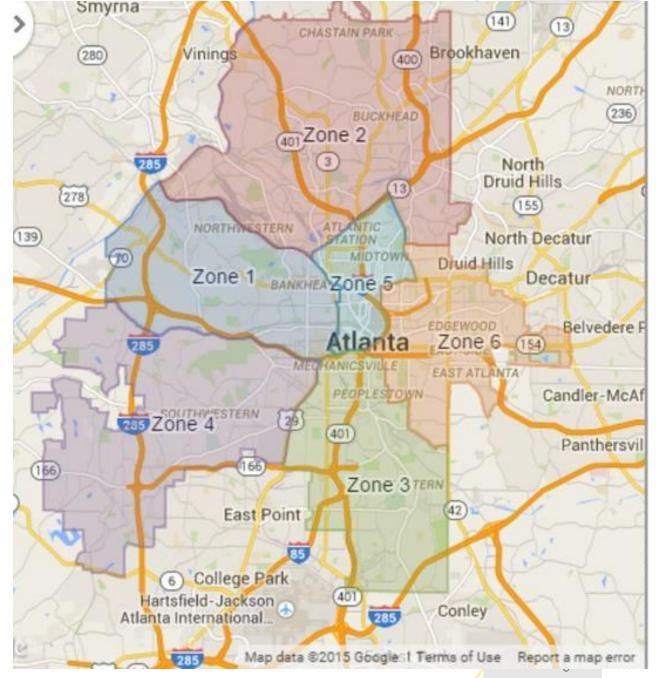
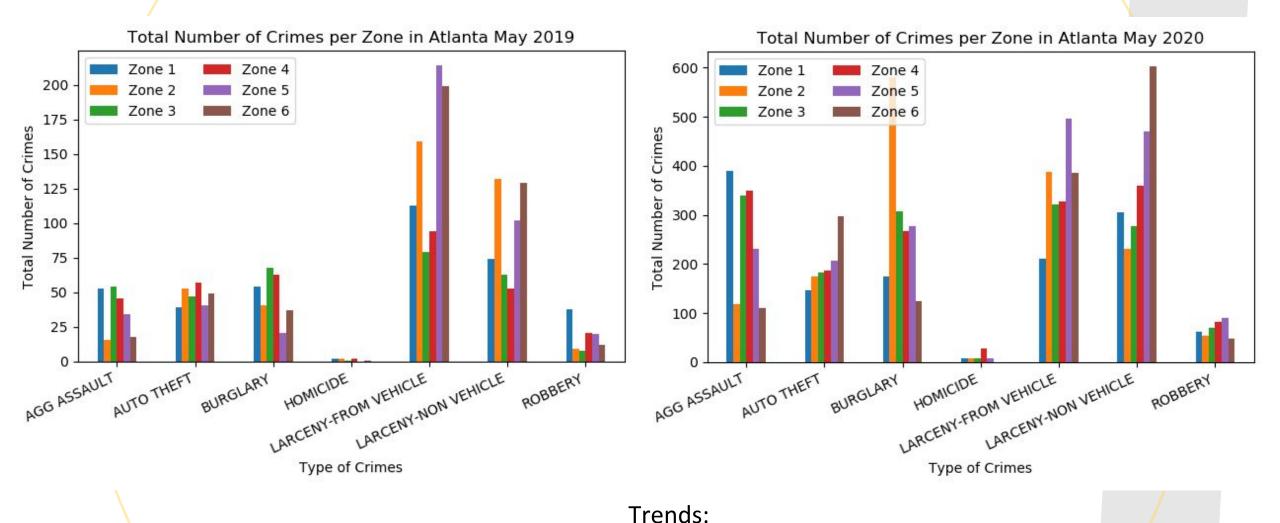


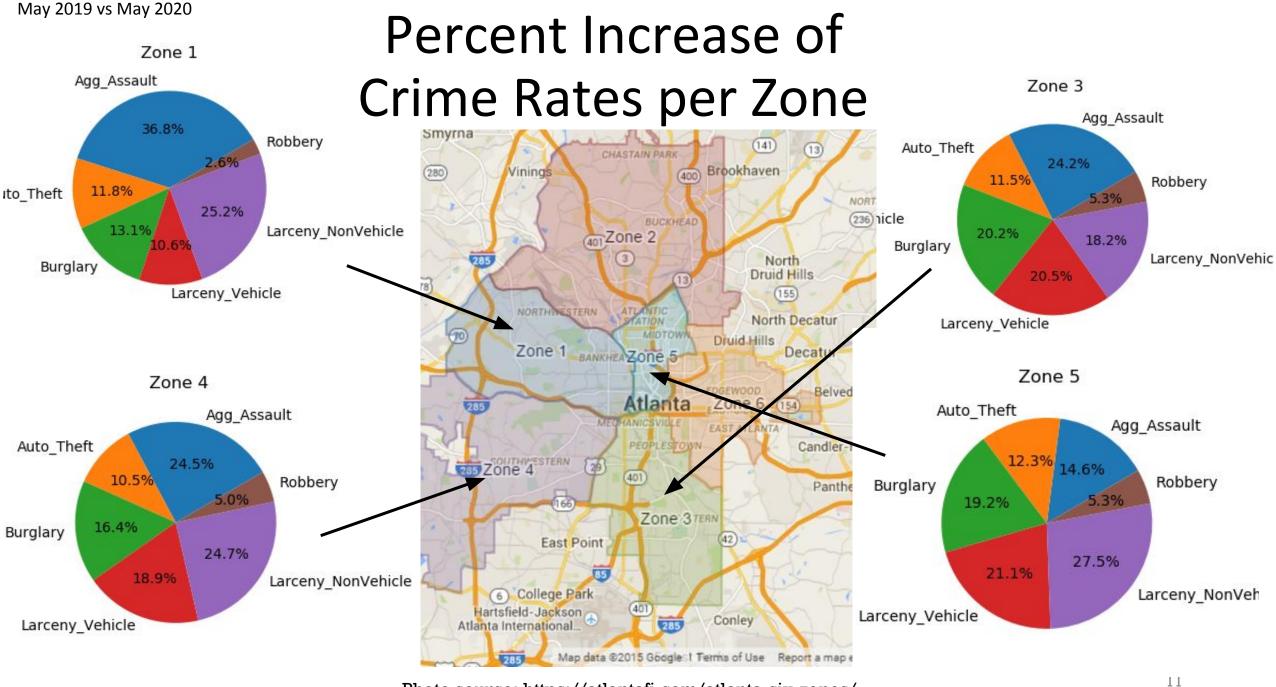
Photo source: https://atlantafi.com/atlanta-six-zones/

Crime Rates by Zones in Atlanta

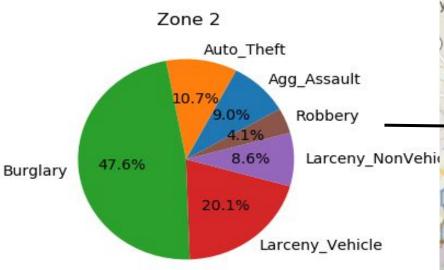


Overall increase in all crimes for all zones.
Spikes in aggravated assault, burglary and

larceny.

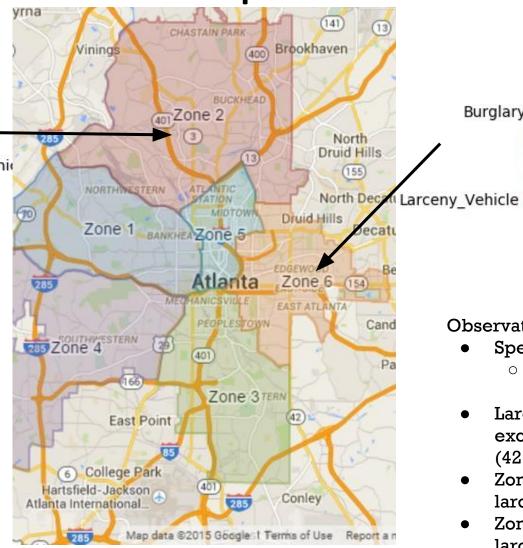


Percent Increase of Crime Rates per Zone





- Increase in all crimes, all zones
- Robbery = lowest % increase
- Specific crime type per zone
 - Zone l = highest aggravated assault
 - Zone 2 = highest burglary



Observations:

Burglary

Specific crime type per zone cont.

Zone 6

22.1%

Agg Assault

Robbery

Larceny NonVehicle

Auto Theft

7.8%

16.5%

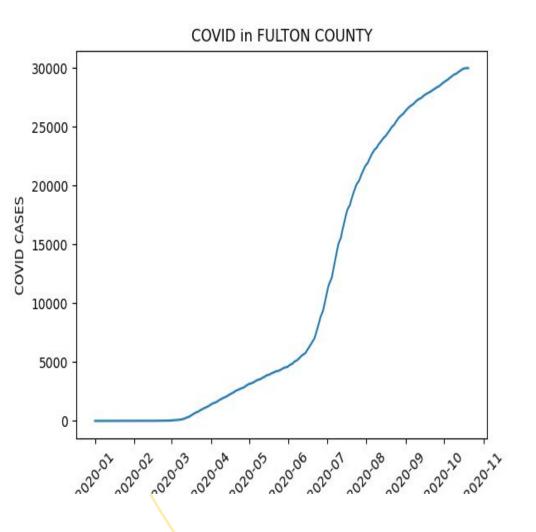
Zone 6 = highest Larceny (non vehicle)

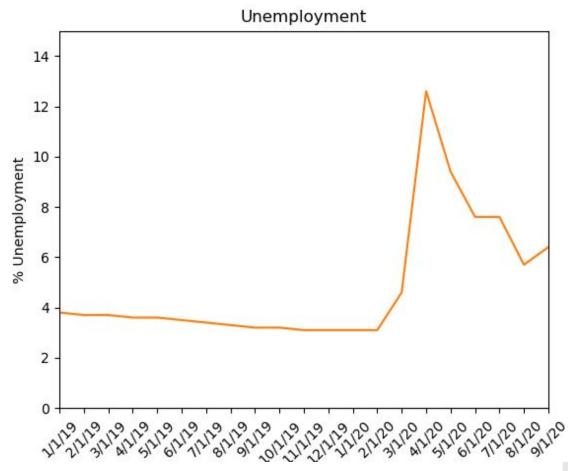
42.0%

- Larceny (non vehicle) around 20% except in Zone 2 (8.6%) & Zone 6 (42%)
- Zone 2: highest burglary, lowest larceny (non vehicle)
- Zone 6: lowest burglary, highest larceny (non vehicle) 12

Photo source: https://atlantafi.com/atlanta-six-zones/

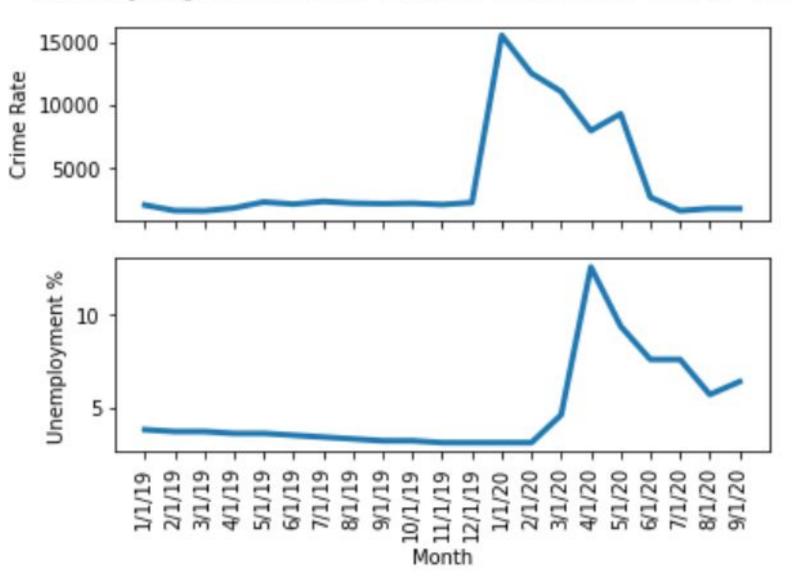
Covid Cases vs Unemployment



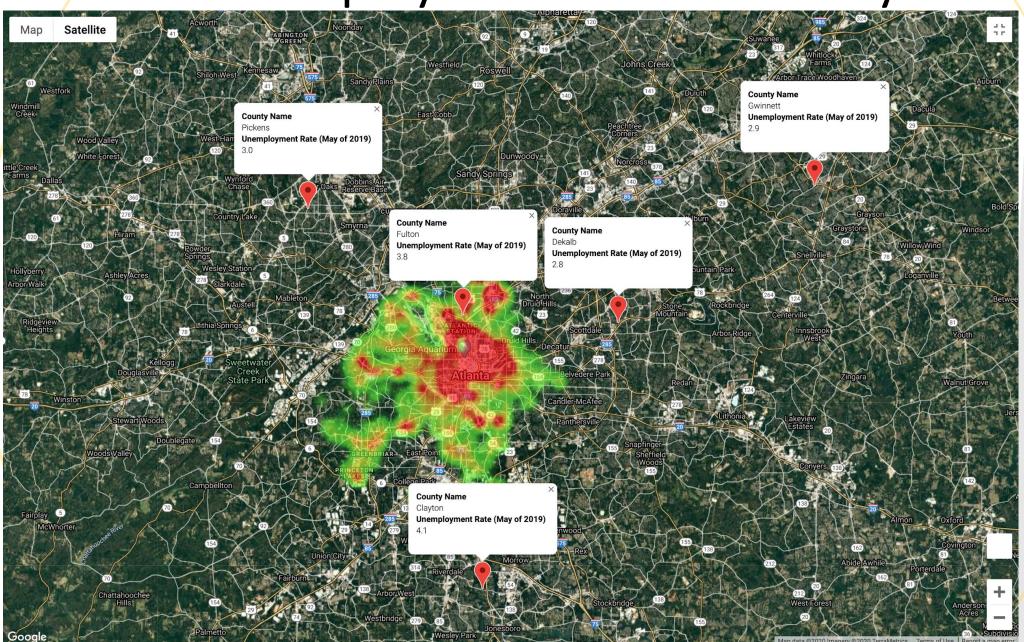


Unemployment and Crime statistic 2019-2020

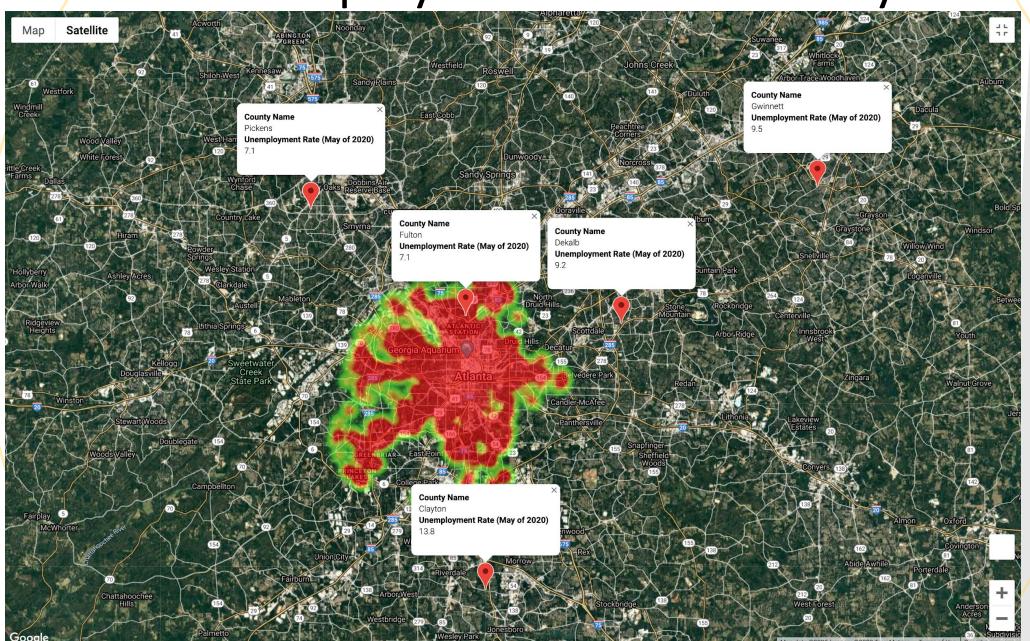
Unemployment and Crime



Crime & Unemployment Statistics: May 2019



Crime & Unemployment Statistics: May 2020



Thank you! Project 1 Group 5: Patrice, Roman, Richard, Ryan and Lisa