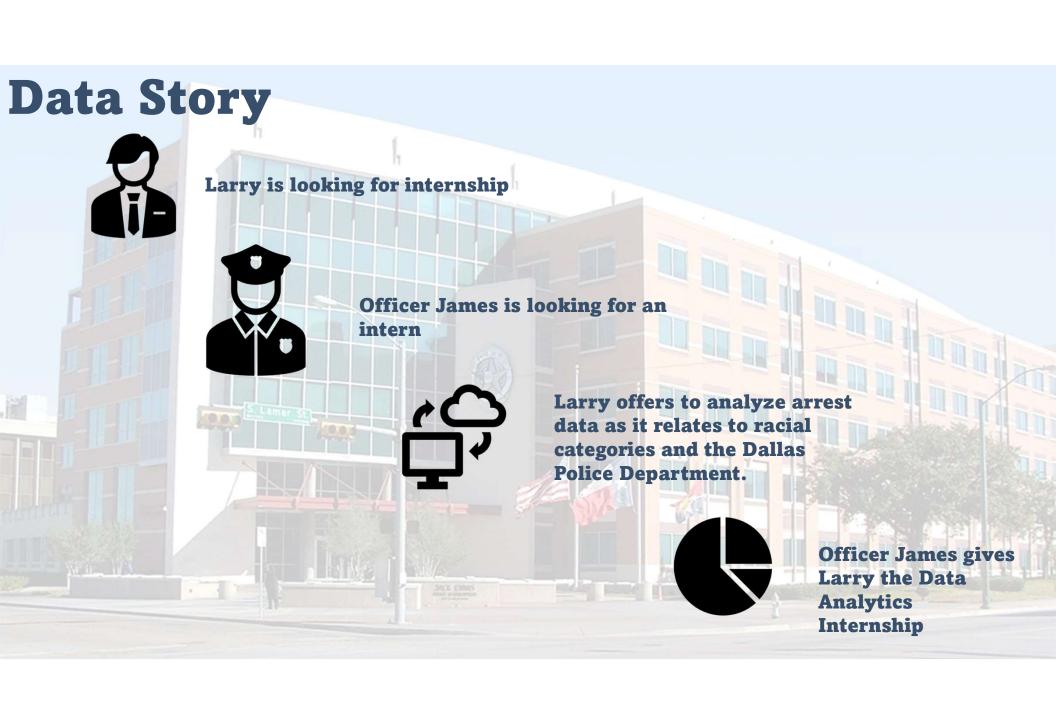


Disclaimer

• We are not criminologists, sociologists, or law-enforcement professionals. We are simply analyzing a public dataset on arrests, which included demographic variables. We are NOT in any way claiming that certain ethnic or racial group are more prone to commit certain crimes, get arrested, or be more dangerous to others. Rather, we are creating a data visualization dashboard for more qualified experts to draw their own conclusions. Our analysis and call-to-action is simply our take on the data and does not reflect any compelling statements, which some people may or may not take offense or take out of context. Please do NOT use our data to make any uninformed or misguided decisions about others.



Plot.ly Dataset

	race	day	drugRelated	weapon	gender	year	genderCount	arrestCount	avgAge
0	American Indian or Alaska Native	Tue	No	None	Female	2014	1	1	50.0
1	American Indian or Alaska Native	Wed	No	None	Female	2014	2	2	39.0
2	American Indian or Alaska Native	Mon	Uknown	None	Female	2014	1	1	45.0
3	American Indian or Alaska Native	Wed	Uknown	None	Female	2014	1	1	46.0
4	Asian	Fri	No	None	Female	2014	1	1	59.0
			***						***
4387	White	Sat	Yes	Unarmed	Male	2022	3	3	32.0
4388	White	Sun	Yes	Unarmed	Male	2022	2	2	44.0
4389	White	Thu	Yes	Unarmed	Male	2022	5	5	45.2
4390	White	Tue	Yes	Unarmed	Male	2022	2	2	25.5
4391	White	Wed	Yes	Unarmed	Male	2022	1	1	33.0

4392 rows x 9 columns

Leaflet Map Dataset

			and the same of th				
LNG	LAT	race	gender	drugRelated	zipcode	address	
-96.802681	32.746823	Hispanic or Latino	Male	No	75203	500 E JEFFERSON BLVD	0
-96.849082	32.832614	White	Female	No	75235	4800 MAPLE AVE	1
-96.736637	32.912633	Black	Male	No	75243	13165 N CENTRAL EXPY	2
-96.799427	32.787760	Middle Eastern	Male	No	75201	1800 CADIZ ST	3
-96.776443	32.782826	Black	Female	No	75226	2500 HICKORY ST	4
•••						***	
-96.838591	32.711405	Hispanic or Latino	Male	Yes	75224	1100 HOKE SMITH DR	60852
-96.781215	32.711324	Black	Male	Yes	75216	2800 E LEDBETTER DR	60853
-96.707819	32.878497	Black	Male	Yes	75238	10025 SHOREVIEW RD	60854
-96.802681	32.746823	Black	Male	No	75203	1400 N BECKLEY AVE	60855
-96.876118	32.868529	Hispanic or Latino	Male	No	75220	10110 TECHNOLOGY BLVD E	60856

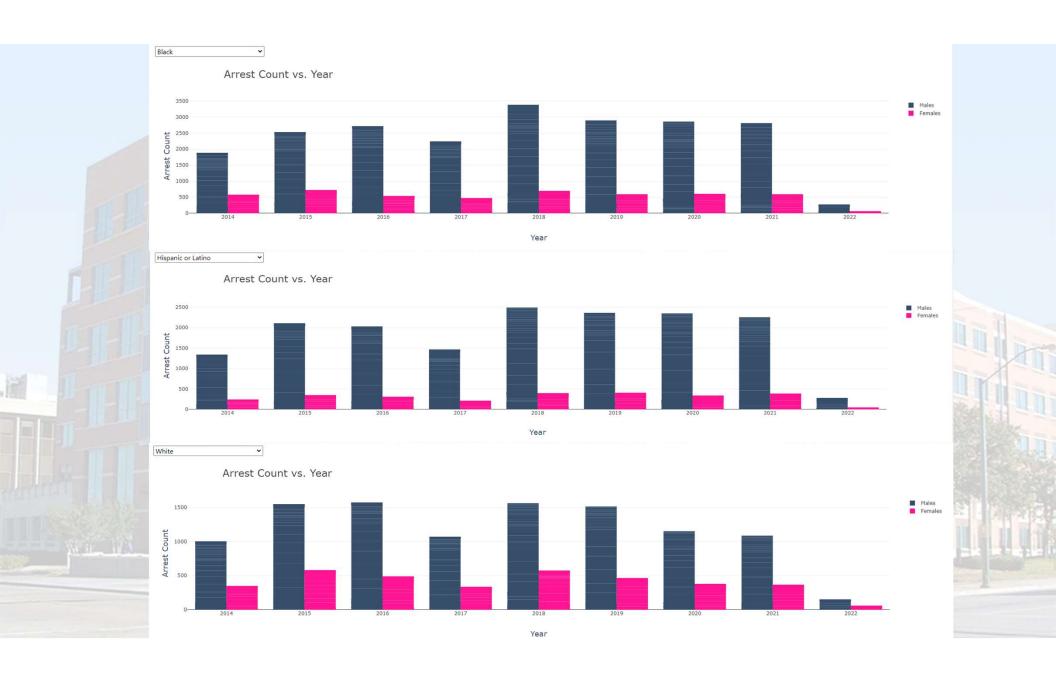
60857 rows x 7 columns

How do race and gender related to number of arrests?

 When considering all race categories, Males were arrested more frequently between 2014 and 2022 in Dallas, TX.

Arrest Count vs. Year





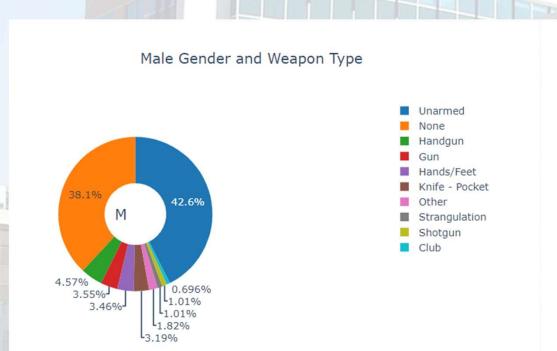
White, Black, and Latinos had the most Arrests Counts where as...

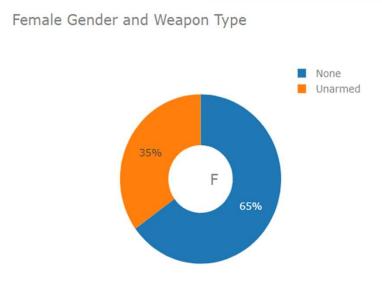
American Indian or Alaska Native 🕶

Arrest Count vs. Year

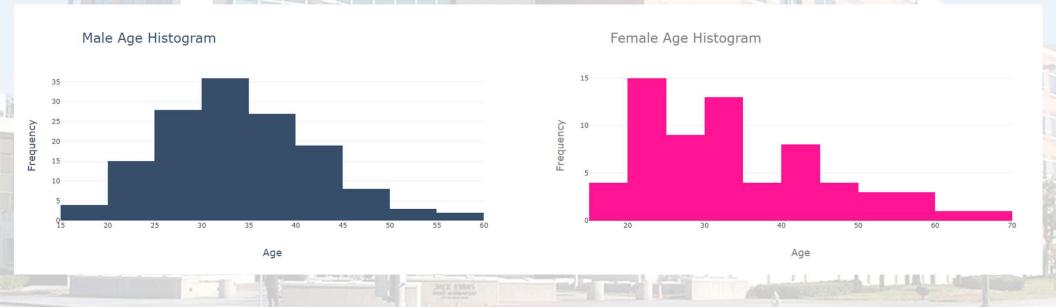


Middle Eastern Race and Weapon Type Divided by Gender



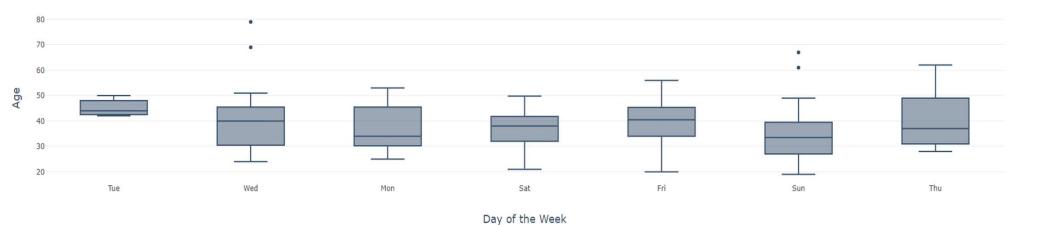


Asian Race and Age Frequency Divided by Gender

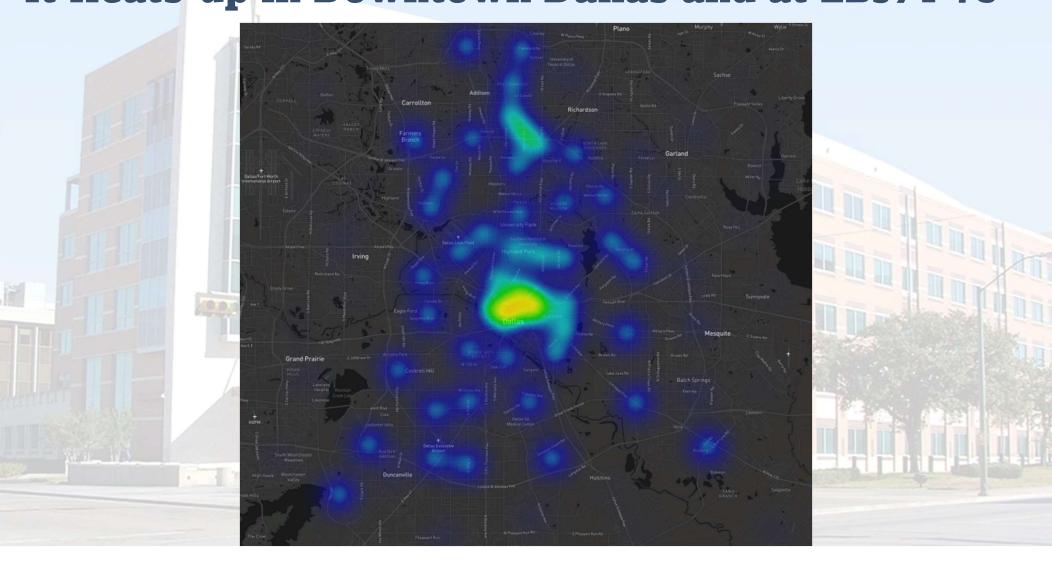


American Indian Arrestees and Days of the Week/Age

Day of the Week and Age Box Plot

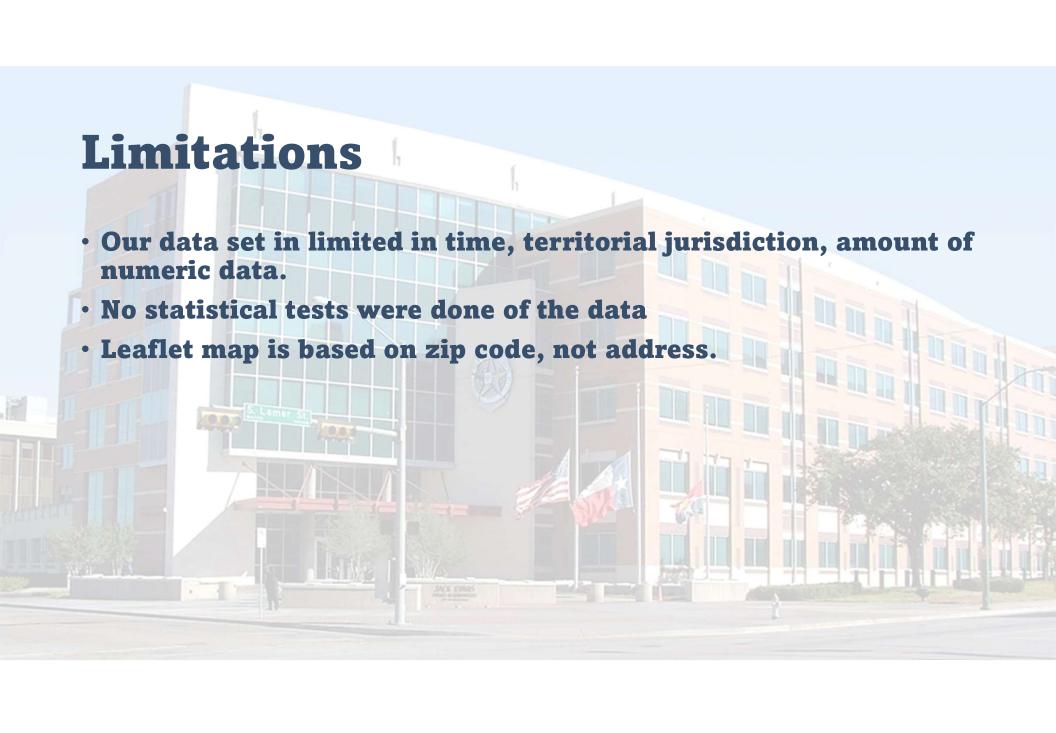


It Heats-up in Downtown Dallas and at LBJ/I-75



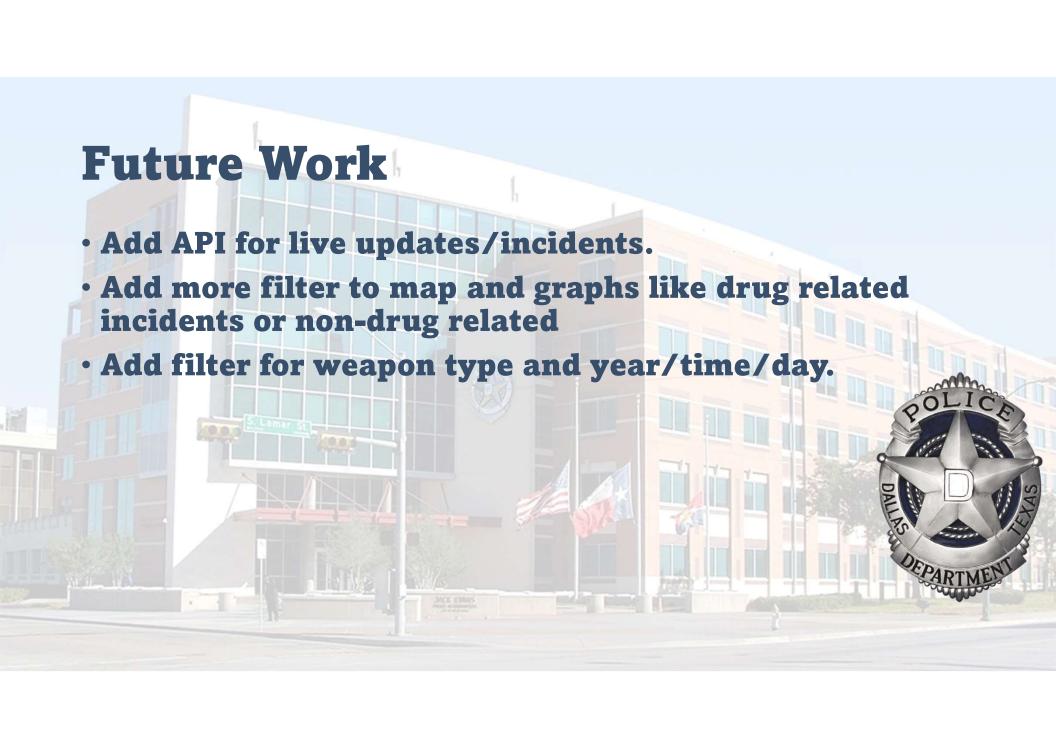


- · Males are had higher prevalence of arrests than females
- In the dataset, Whites, Hispanics, and Blacks racial groups had higher arrest counts.
- · In the dataset, downtown Dallas had higher arrest counts.
- Most of the weapons in arrests were None/Unarmed
- The average age of arrest was in the 30s
- · The average age per days of the week had no consistent trend.





- We call on criminologists, sociologists, or lawenforcement professionals to focus on reducing crime in Downtown Dallas as well as near LBJ/I-75.
- Find methods to identify violent crime and respond to them over non-violent crime.
- Create advertisement campaigns against unlawful activity and promote good citizenship among the community.



References

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- 5. PLot.ly Histogram: https://plotly.com/javascript/histograms/
- 6. Pandas Dataframe to HTML: https://www.geeksforgeeks.org/how-to-render-pandas-dataframe-as-html-table/
- 7. Plot.ly Box Plot: https://plotly.com/javascript/box-plots/#box-plotstyling-outliers

