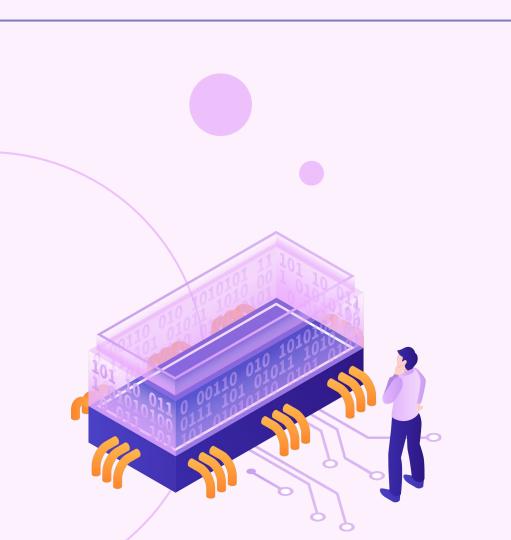


Info Challenge 2025

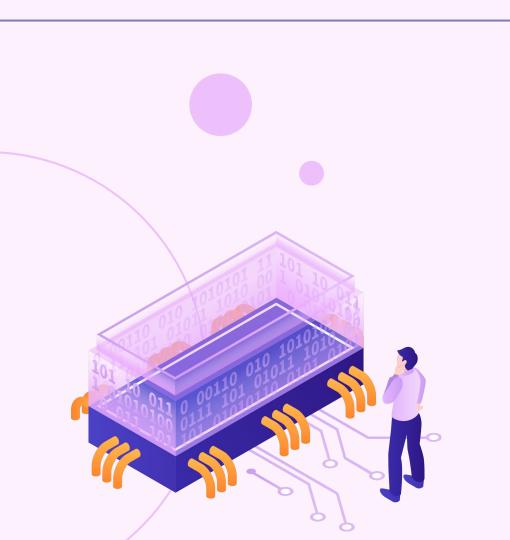
Team: IC25005

Asher Nguyen, Luke Roskelley, Olivia Fermo, Mekhi Mudie, Brian Solomon



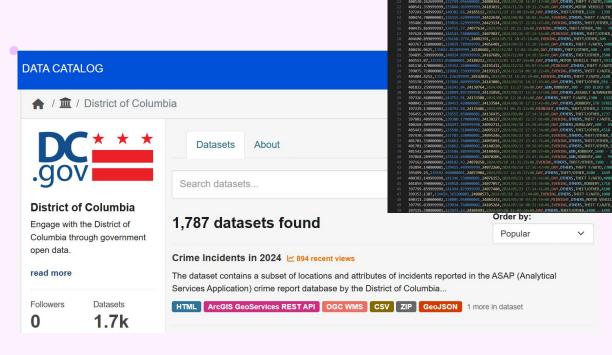
Abstract

Crime vs Non-Tap Ridership



Sources

Crime CSV from...



X,Y,CO,HERRÍ, DAT, SHITT, PETRO, OFFICE, BLOCK, MAGOCK, YALLOCK, MAGO, MC, DISTRICT, PS.A., BELGREGORDO, CLUSTER, BLOCK, CRUST, PS.D., THAT, TOTTING, PLOCK, THAT, COLUMN, THAT, BLOCK, THAT, CLUST, CLUST, CLUST, CLUST, AND ALL STATEMENT, AND ALL ST

https://catalog.data.gov/dataset/cri me-incidents-in-2024

Metro Station information from...

1,786

3,330

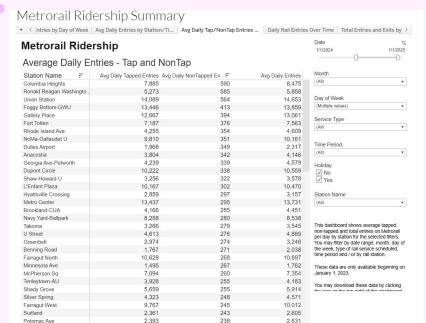
2 376

Potomac Ave

Stadium-Armory Waterfront

West Hyattsville

Washington Metropolitan Area Transit Authority

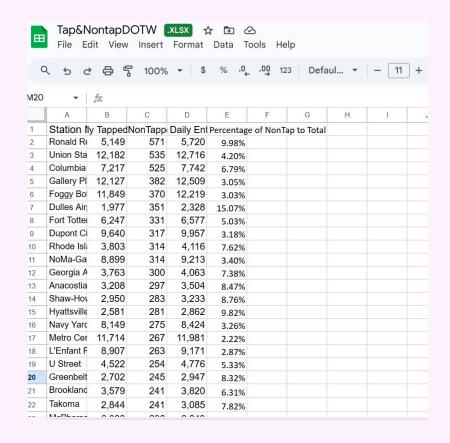


231

229

2.017

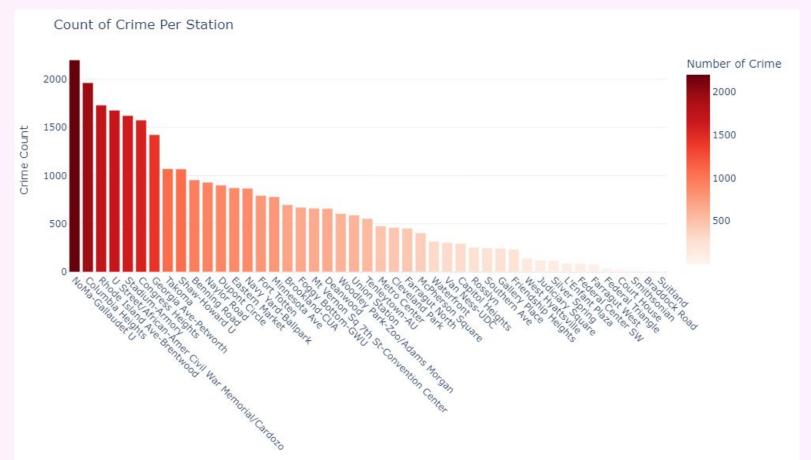
3,559





Findings

Crimes per Station



%Non-Taps vs Daily Entries



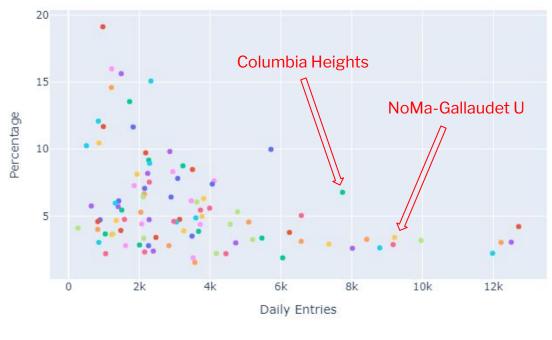


Station Name

- Ronald Reagan Washington National Airport
- Union Station
- Columbia Heights
- Gallery Place
- Foggy Bottom-GWU
- Dulles Airport
- Fort Totten
- Dupont Circle
- Rhode Island Ave
- NoMa-Gallaudet U
- Georgia Ave-Petworth
- Georgia Ave-Petwo
- Anacostia
- Shaw-Howard U
- Hyattsville Crossing
- Navy Yard-Ballpark

%Non-Taps vs Daily Entries



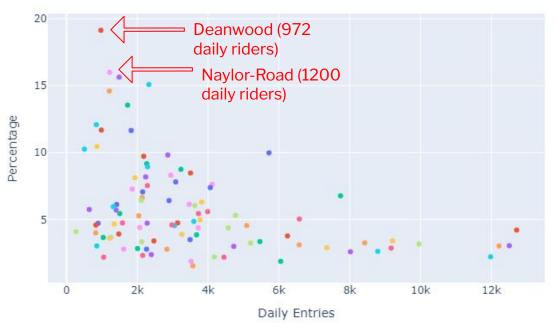


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%Non-Taps vs Daily Entries

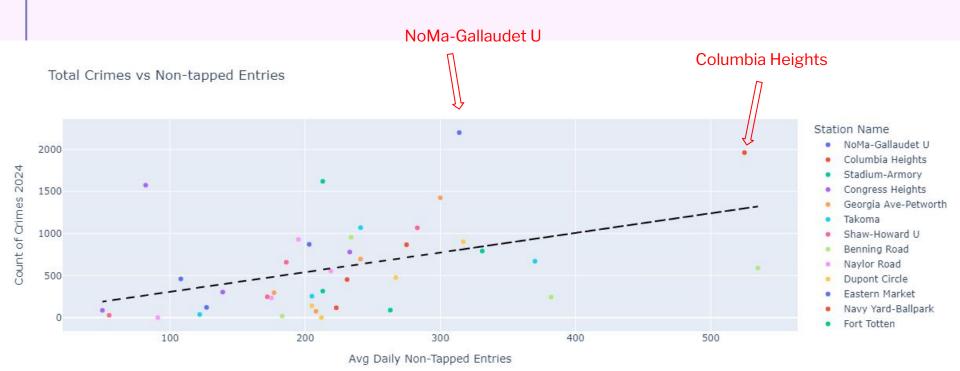




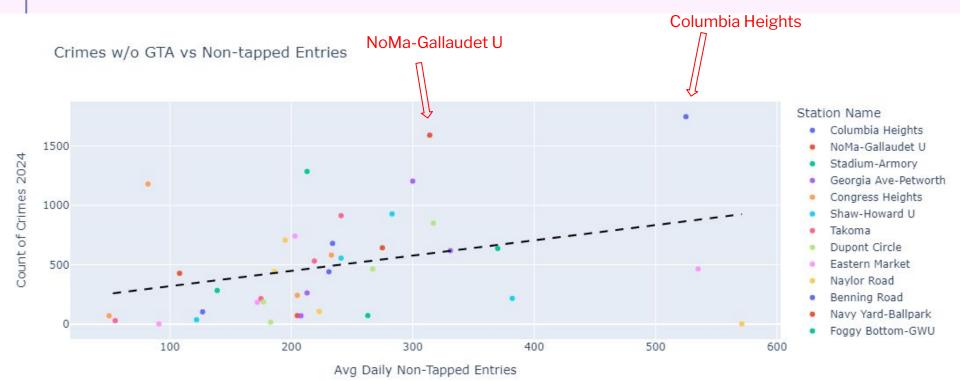
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- Georgia Ave-Petworth
- Anacostia
- Shaw-Howard U
- Hyattsville Crossing
- Navy Yard-Ballpark

Crimes vs # of non-taps



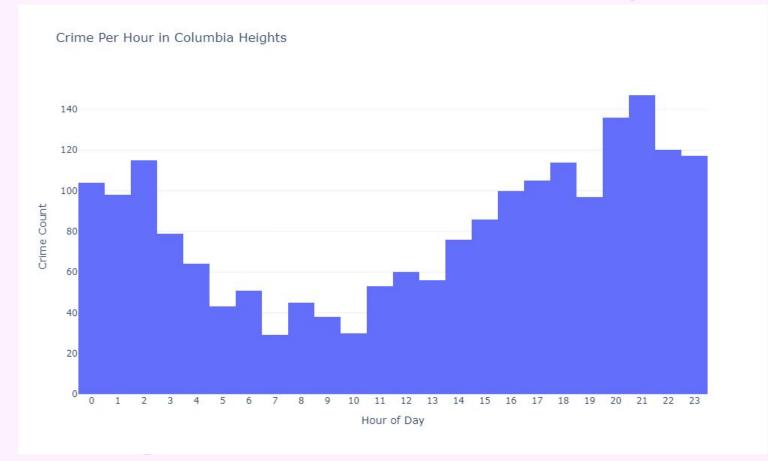
Crime vs non-tap w/out GTA



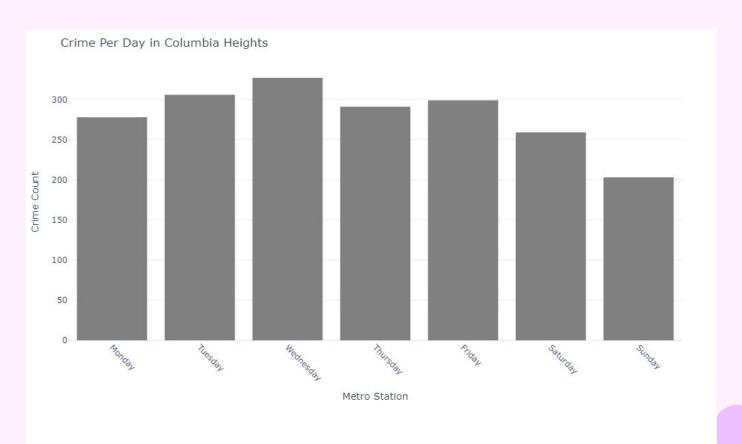


Focusing on Columbia Heights

Number of Crimes Per Hour in Columbia Heights, 2024



of Crimes Per Day in Columbia Heights, 2024



Money Lost due to Non taps per Week

- Average cost Weekday (\$2.25-\$6.75)
- N (total avg non taps per week) = 16,757
- R (avg cost of a Metro Ride) = \$4.50
- R * N * 52 = Average \$ lost due to non taps per year
- Average \$ lost due to non taps per year = \$3,921,123.97

Station Ily TappedNonTapp Daily Enl Percentag Estimated Amount Lost From Non-Taps						TOTAL LOST PER WE	EK TOTAL NON	TAPS	
Ronald Re	5,149	571	5,720	9.98%	\$ 2,569.7		\$ 75,406.	16,757	
Union Sta	12,182	535	12,716	4.20%	\$ 2,405.6				
Columbia	7,217	525	7,742	6.79%	\$ 2,364.6		TOTAL AVERGAE LOST PER YEAR		
Gallery PI	12,127	382	12,509	3.05%	\$1,719.2		\$3,921,1		
Foggy Bo	11,849	370	12,219	3.03%	\$ 1,667.0				
Dulles Air	1,977	351	2,328	15.07%	\$ 1,578.7				
Fort Totte	6,247	331	6,577	5.03%	\$ 1,487.6				
Dupont Ci	9,640	317	9,957	3.18%	\$ 1,426.8				
Rhode Isla	3,803	314	4,116	7.62%	\$ 1,411.4				
NoMa-Ga	8,899	314	9,213	3.40%	\$ 1,411.1				
Georgia A	3,763	300	4,063	7.38%	\$1,349.7				
Anacostia	3,208	297	3,504	8.47%	\$ 1,335.4				
Shaw-Hov	2,950	283	3,233	8.76%	\$1,274.1				
Hyattsville	2,581	281	2,862	9.82%	\$ 1,264.5				
Navy Yard	8,149	275	8,424	3.26%	\$1,235.3				
Metro Cer	11,714	267	11,981	2.22%	\$1,199.4				
L'Enfant F	8,907	263	9,171	2.87%	\$1,184.3				
U Street	4,522	254	4,776	5.33%	\$ 1,144.9				
Greenbelt	2,702	245	2,947	8.32%	\$ 1,103.7				
Brookland	3,579	241	3,820	6.31%	\$ 1,085.4				
Takoma	2,844	241	3,085	7.82%	\$1,085.1				
MaDharaa	0 000	000	0.040						





Conclusion

Conclusion

Our Proposal

- Proof of Concept
- Specific Allocation of Metro Resources
- Location and Time Based Security Measures



