Ride at Your Own Risk: Insights into Toronto's Bicycle Theft Hotspots*

[To Be Updated….]

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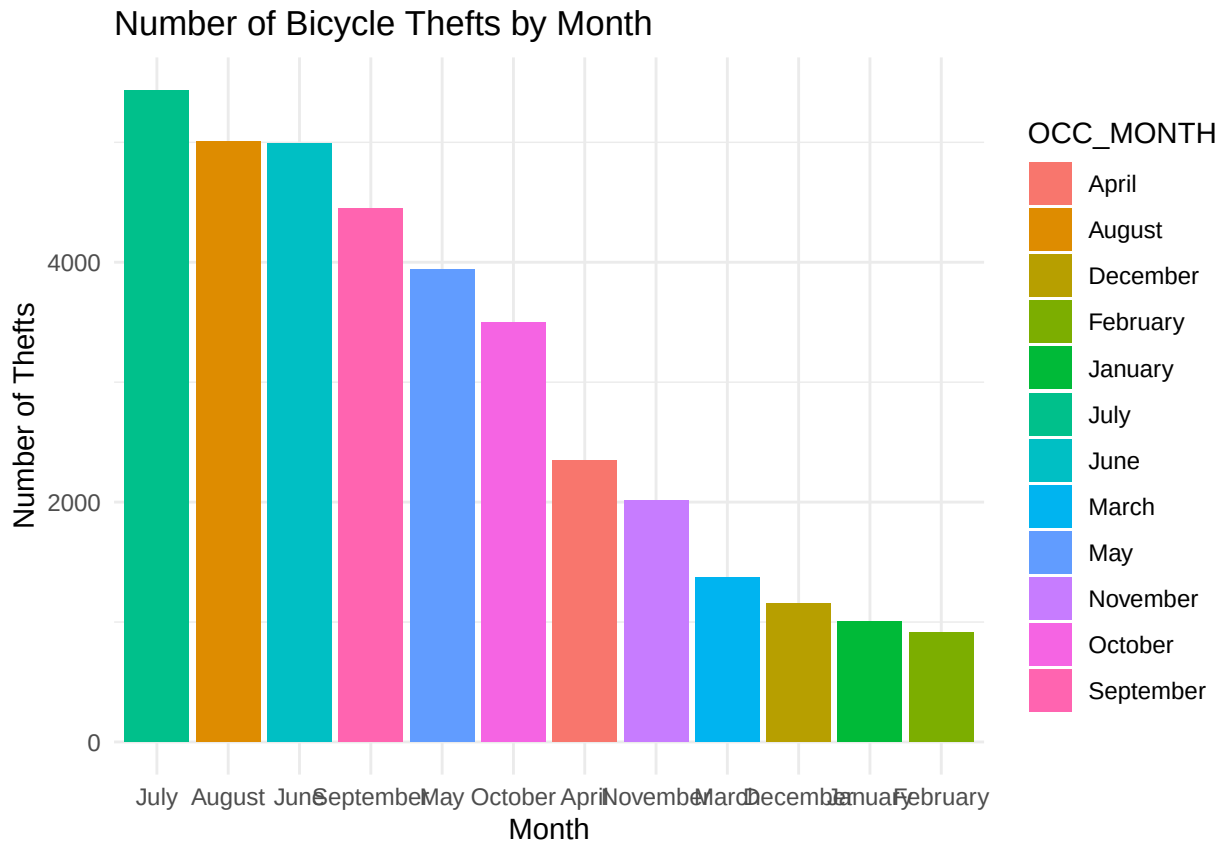
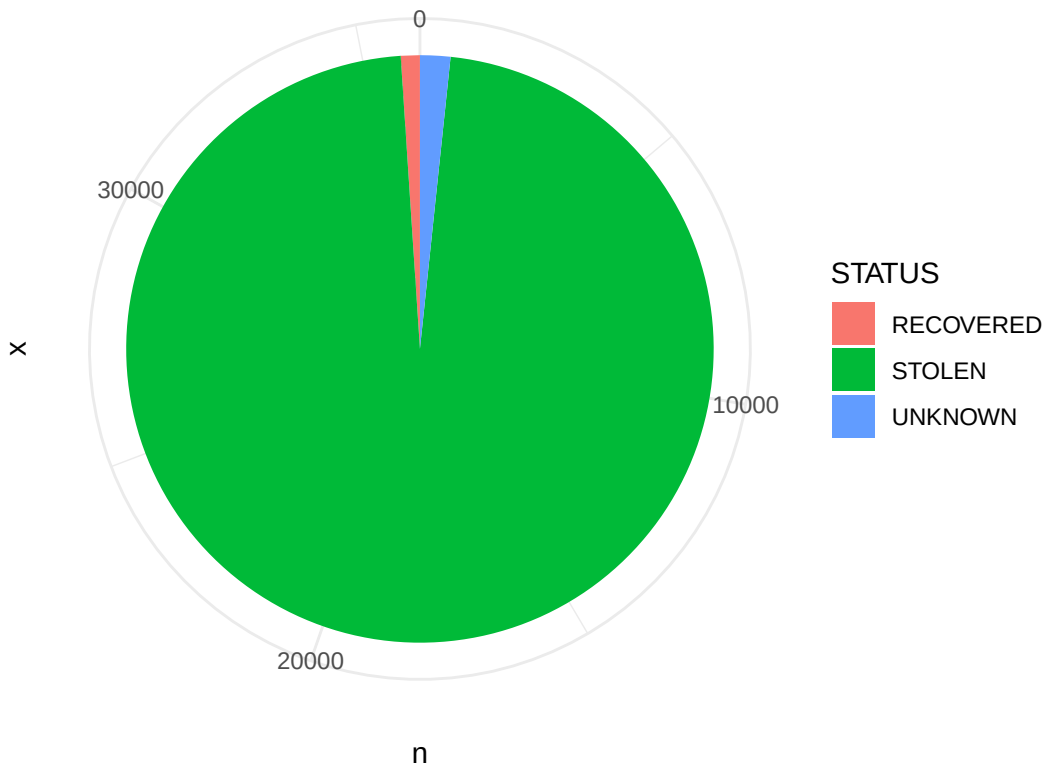
today

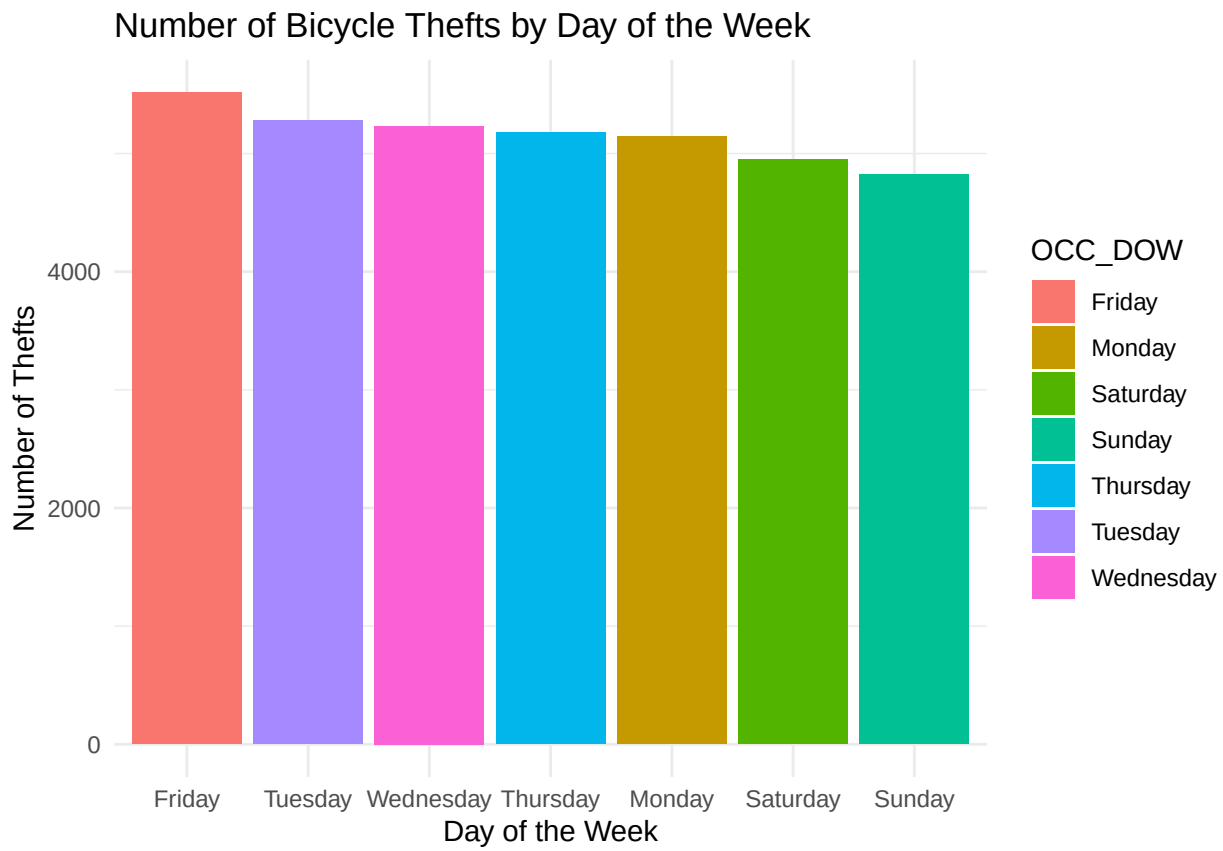


Bar chart

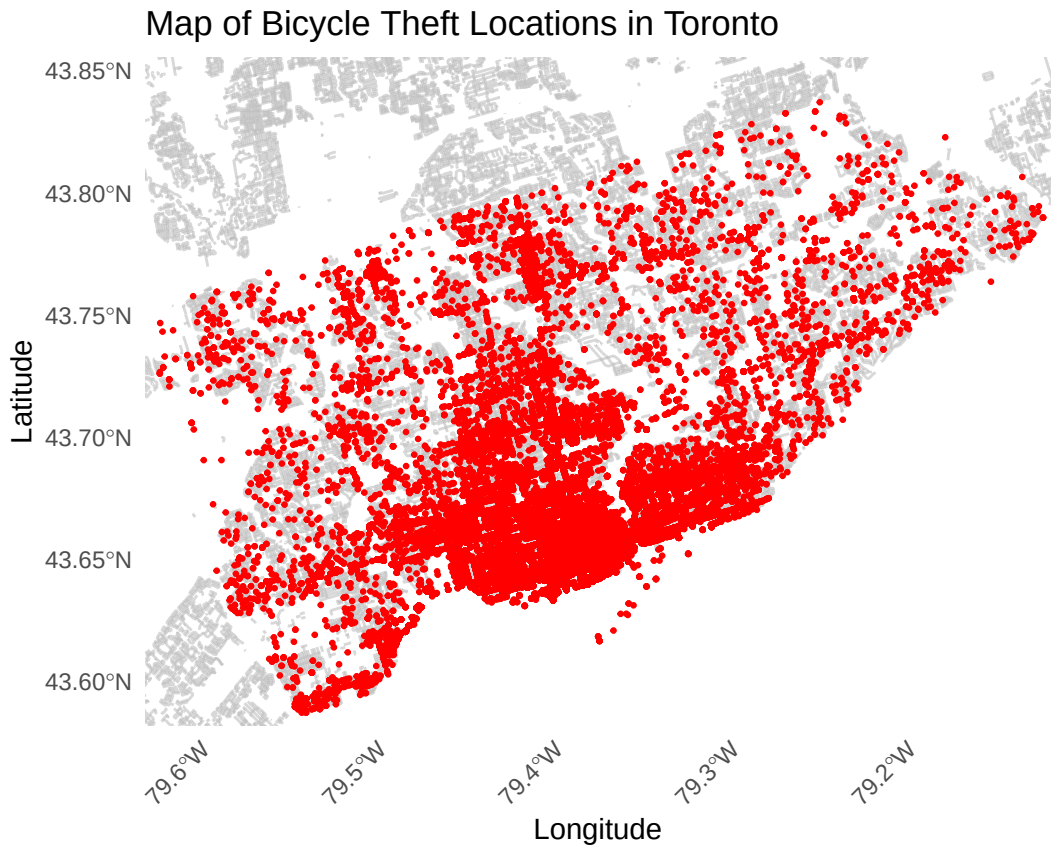
*Code and data are available at: https://github.com/iJustinn/Toronto_Bicycle_Thefts/tree/main.


Bicycle Theft Status (Stolen vs Recovered)
0
10000
20000
30000
x
n
STATUS
RECOVERED
STOLEN
UNKNOWN

Pie chart


Number of Bicycle Thefts by Day of the Week
Number of Thefts
4000
2000
0
Friday
Tuesday
Wednesday
Thursday
Monday
Saturday
Sunday
Day of the Week
OCC_DOW
Friday
Monday
Saturday
Sunday
Thursday
Tuesday
Wednesday

Bar chart



Map

introduction write an intro to convey the issue the goal of the article :be careful of bikes

When Are Bikes at the Greatest Risk? A Look at Seasonal and weekly Patterns

Explore temporal insights, such as trends by month, day of the week with visualizations that reveal when thefts are most likely to occur.

What Makes a Bike a Target? Analyzing Theft by Bicycle Type and Value

Discuss any available data on bike types, brands, or values, showing if certain bikes are more vulnerable to theft than others.

A Decade of Disappearing Bikes: Tracing Theft Trends Over Ten Years

- timeline

Mapping the Danger Zones: High-Risk Locations Across Toronto

Use a map visualization to highlight theft hotspots across Toronto, pointing out neighborhoods or transit hubs with the highest incidence rates.

- map

Discussion

- Consolidation of all the info that we present, we first talk about…this is how all visualizations are connected together, in the future what can be done…

Conclusion

- short reminder for the audience, tips to protect their bikes

General tips: - This paper wants to tell the story about tips to protect bikes

- after every visualizations talk a bit about the visualization itself, key points, make sure the story that we are talking about is proved by this visualization so each plot make sense (for example in 2016 there is a peak in May illustrated by the visualization, why? find relevant news and articels to explain it and cite), descriptive explain visualization plot with proves.