

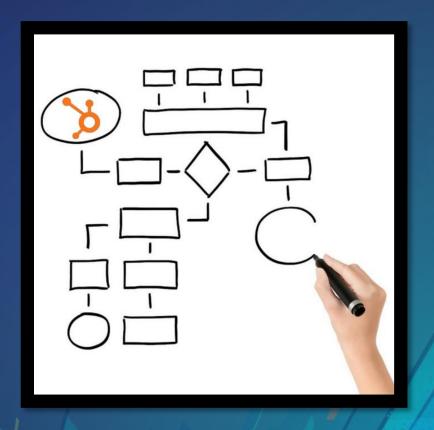
Cartography - Bring Your Data to Life

Clint Loveman

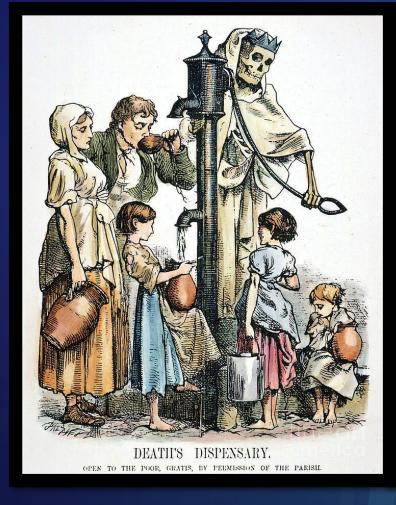


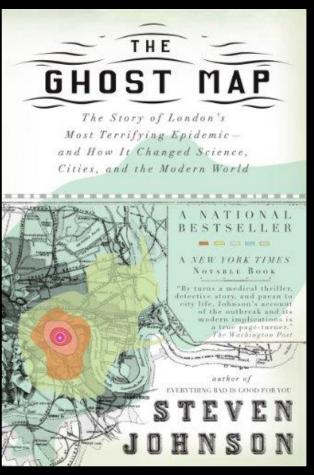
Workflow

CUSTOM IS KEY



Best Workflow Design Begins Open-ended FREEDOM IN THE LACK OF INITIAL SPECIFICITY





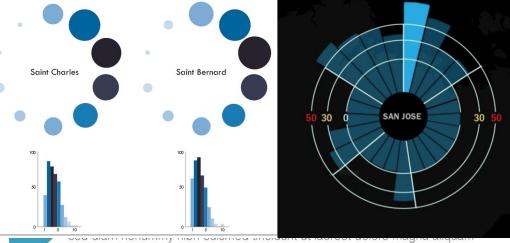
Mapping & Visualization

UNPACKING THE JARGON

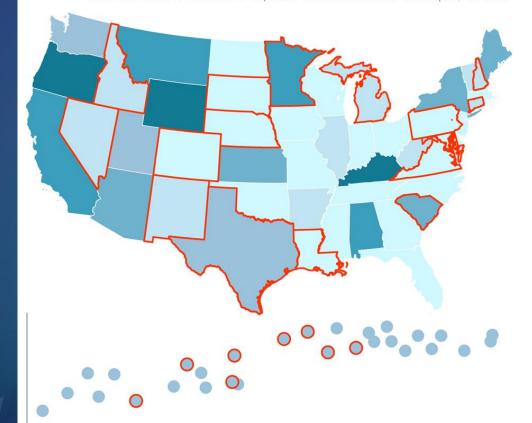
VISUALIZATION - "The representation of an object, situation, or set of information as a chart or other image" - Oxford Dictionaries, 2017

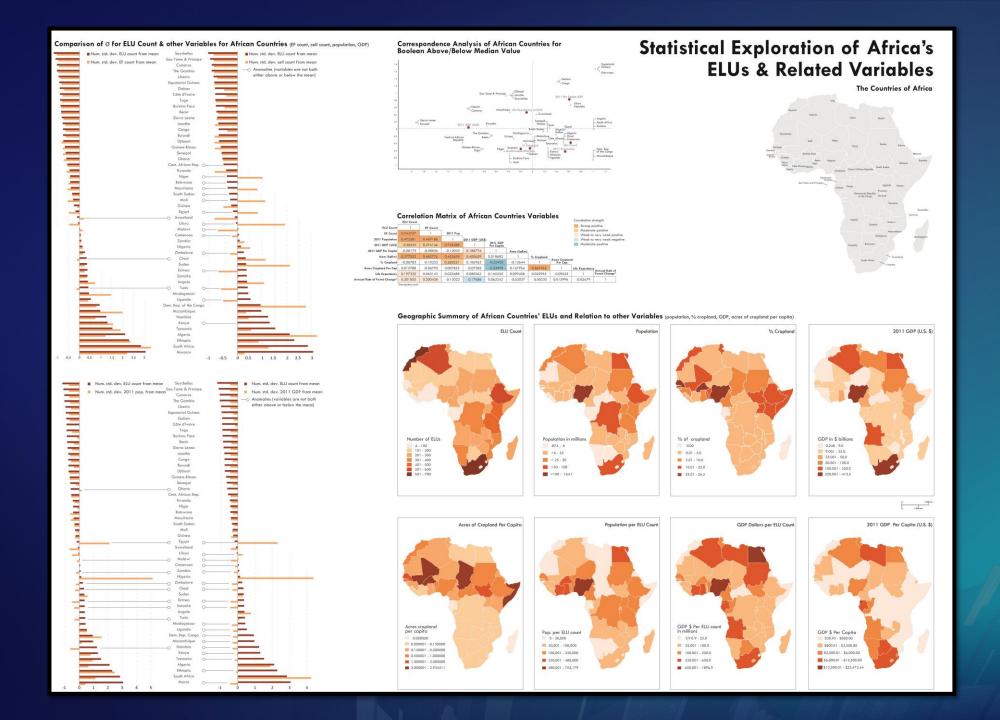
INFORMATION VISUALIZATION - "Information visualization is the process of representing data in a visual and meaningful way so that a user can better understand it." - Interaction Design Foundation, 2017 (www.interaction-design.org)

DATA VISUALIZATION - "Information visualization with datasets."



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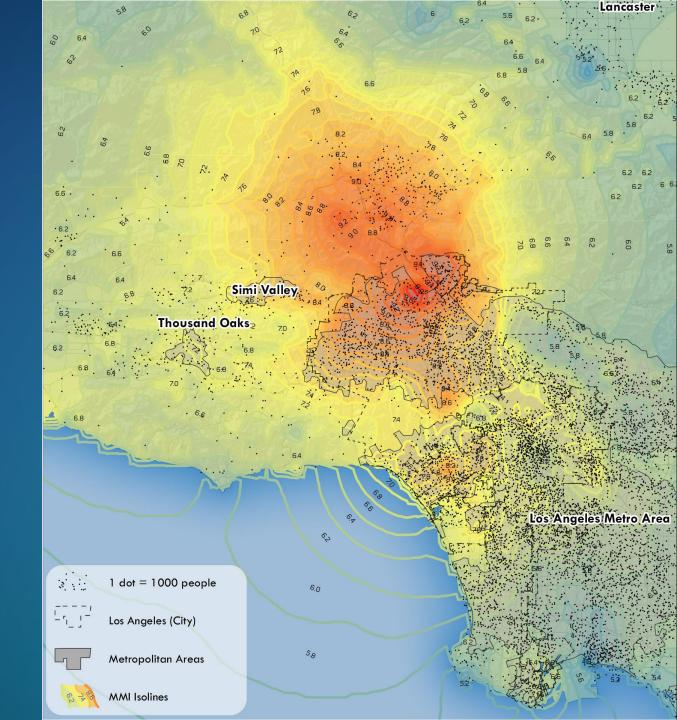


The Right Viz for the Data

OPTIMIZING DATA COMMUNICATION

Point Data

- Geoprocessing rows and columns into point data is straightforward
- 2. Point data is the simplest way to indicate location on a map
- 3. There are several methods to visualize point data



Vancouver, British Columbia

THE RIGHT VIZ FOR THE DATA

Type of crime:
Break & Enter Commercial'
Break & Enter Residential/Other
Mischief
Other Theft
Theft from Vehicle
Theft of Bicycle
Theft of Vehicle
Vehicle Collision

III	iiii crime_shp_2003 ×										
Fie	Field: 🛱 Add 🛱 Delete 🛱 Calculate Selection: 🗗 Zoom To 🔡 Switch 🗎 Clear 💂 Delete										
⊿	FID	Shape	TYPE	YEAR	MONTH	DAY	HOUR	MINUTE	H_BLOCK	N_HOOD	
	0	Point	Mischief	2003	7	9	23	15	31XX E 58TH AVE	Killarney	
	1	Point	Mischief	2003	1	12	6	0	8XX PRINCESS AVE	Strathcona	
	2	Point	Theft from Vehicle	2003	3	29	18	0	18XX W 61ST AVE	Kerrisdale	
	3	Point	Theft from Vehicle	2003	10	5	23	0	18XX W 63RD AVE	Kerrisdale	
	4	Point	Mischief	2003	6	29	21	0	31XX E 62ND AVE	Killarney	
	5	Point	Theft from Vehicle	2003	1	14	12	0	22XX W 37TH AVE	Arbutus Ridge	
	6	Point	Mischief	2003	10	5	11	45	8XX PRIOR ST	Strathcona	
	7	Point	Theft from Vehicle	2003	8	30	15	30	4XX BROUGHTON ST	Central Business Dist	
	8	Point	Theft from Vehicle	2003	10	16	2	0	60XX YEW ST	Kerrisdale	
	9	Point	Theft from Vehicle	2003	3	30	22	0	18XX W 64TH AVE	Kerrisdale	
	10	Point	Theft from Vehicle	2003	9	3	3	10	60XX YEW ST	Kerrisdale	
	11	Point	Theft from Vehicle	2003	1	31	18	30	24XX W 1ST AVE	Kitsilano	
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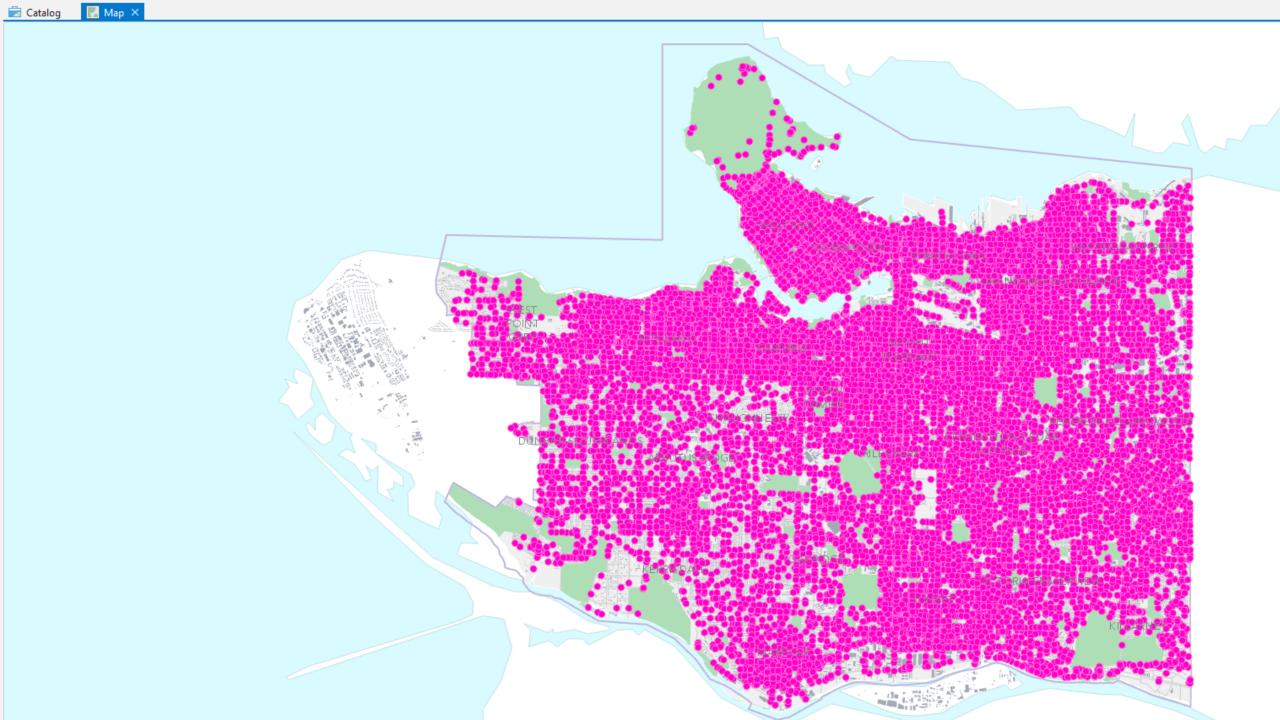
Year, Month, Day, Hour, Minute

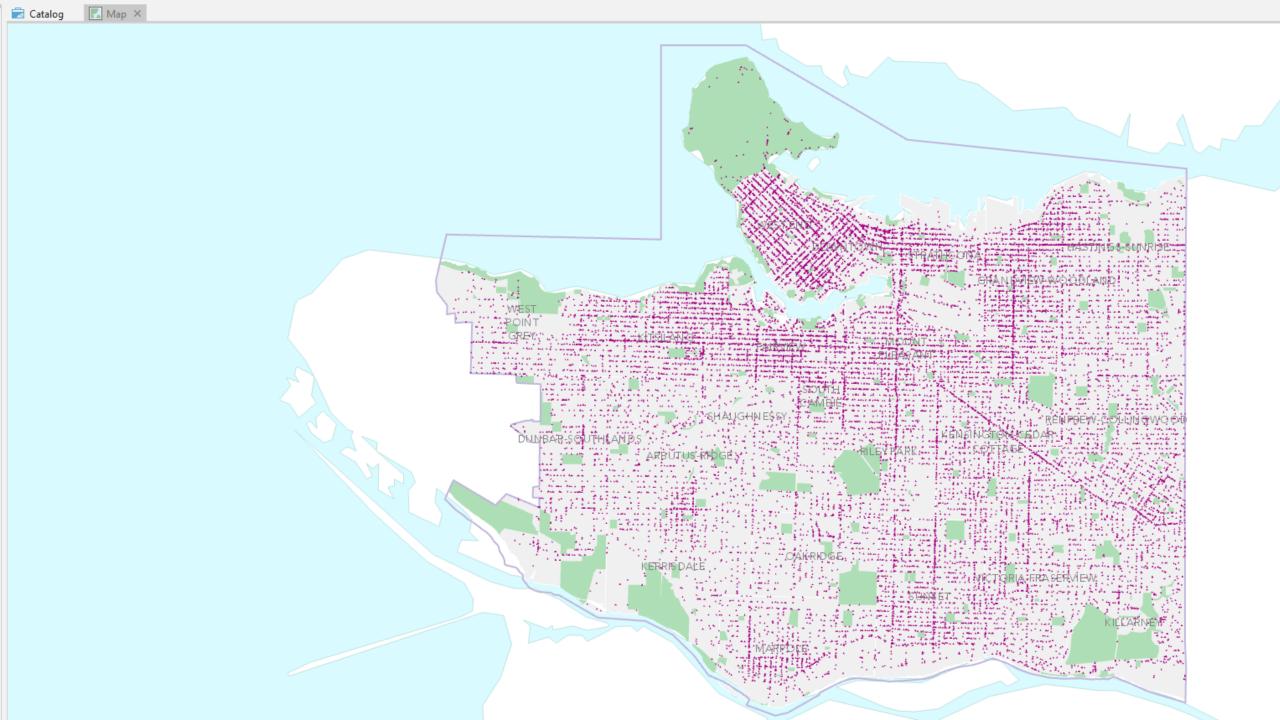
Neighborhood

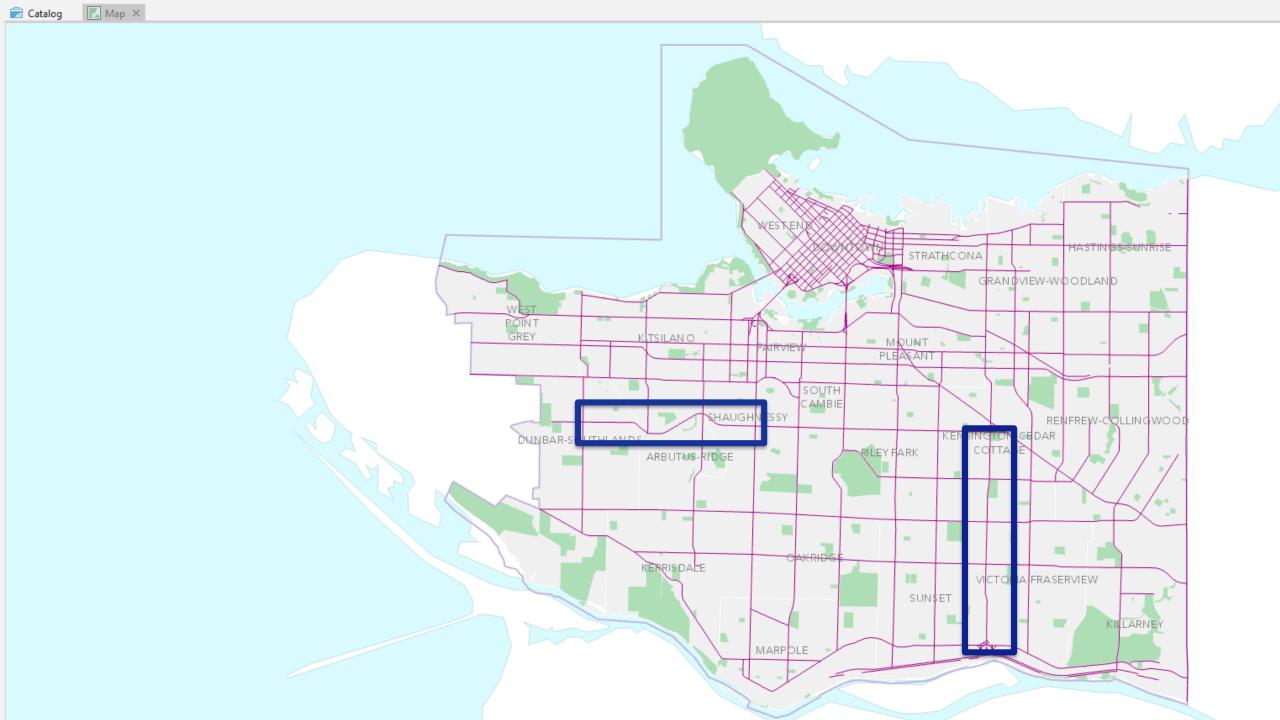
Over 46 thousand records

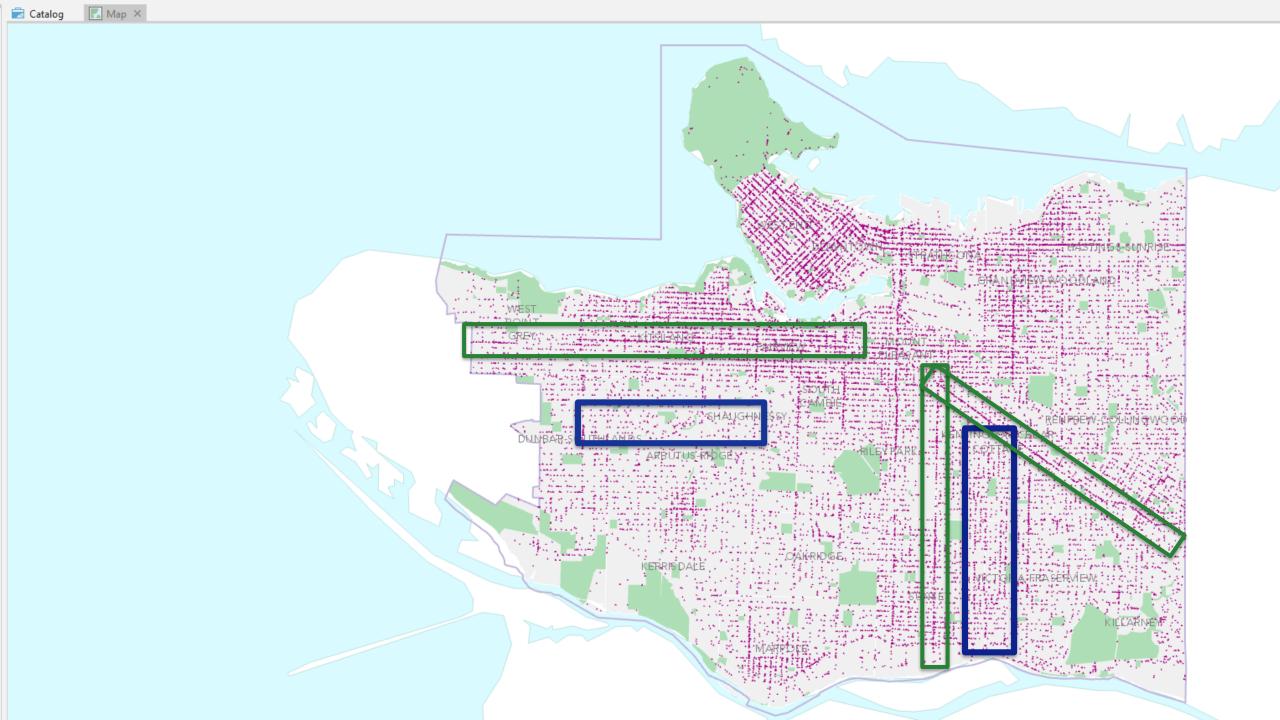
Legal Disclaimer

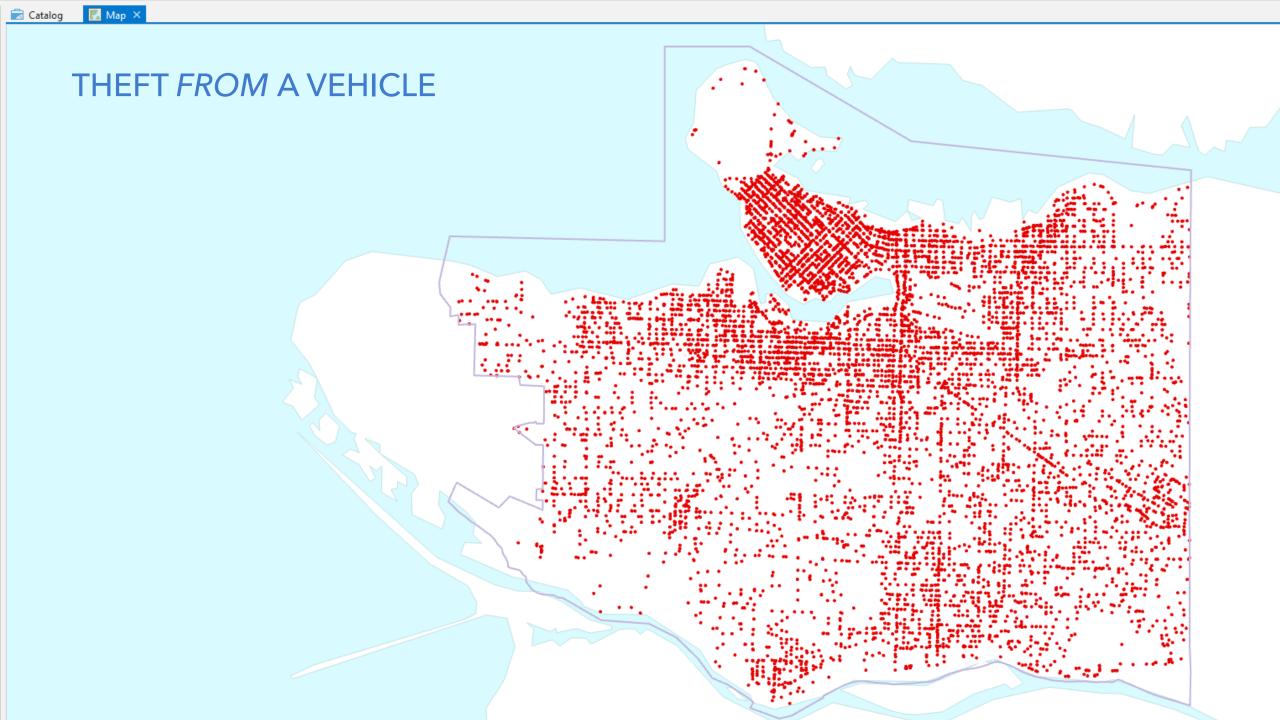
The release of Vancouver Police Department (VPD) crime data is intended to enhance community awareness of policing activity in Vancouver. Users are cautioned not to rely on the information provided to make decisions about the specific safety level of a specific location or area. All data must be considered offset and users should not interpret any locations as related to a specific person or specific property.

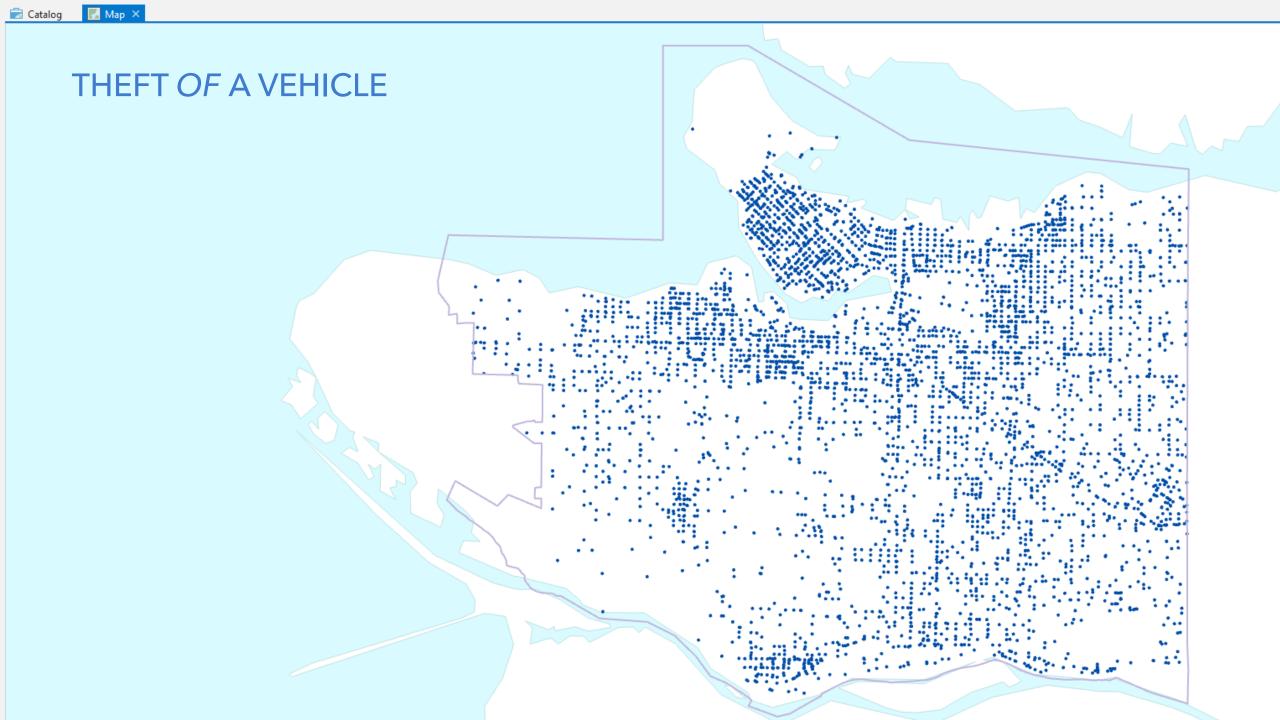


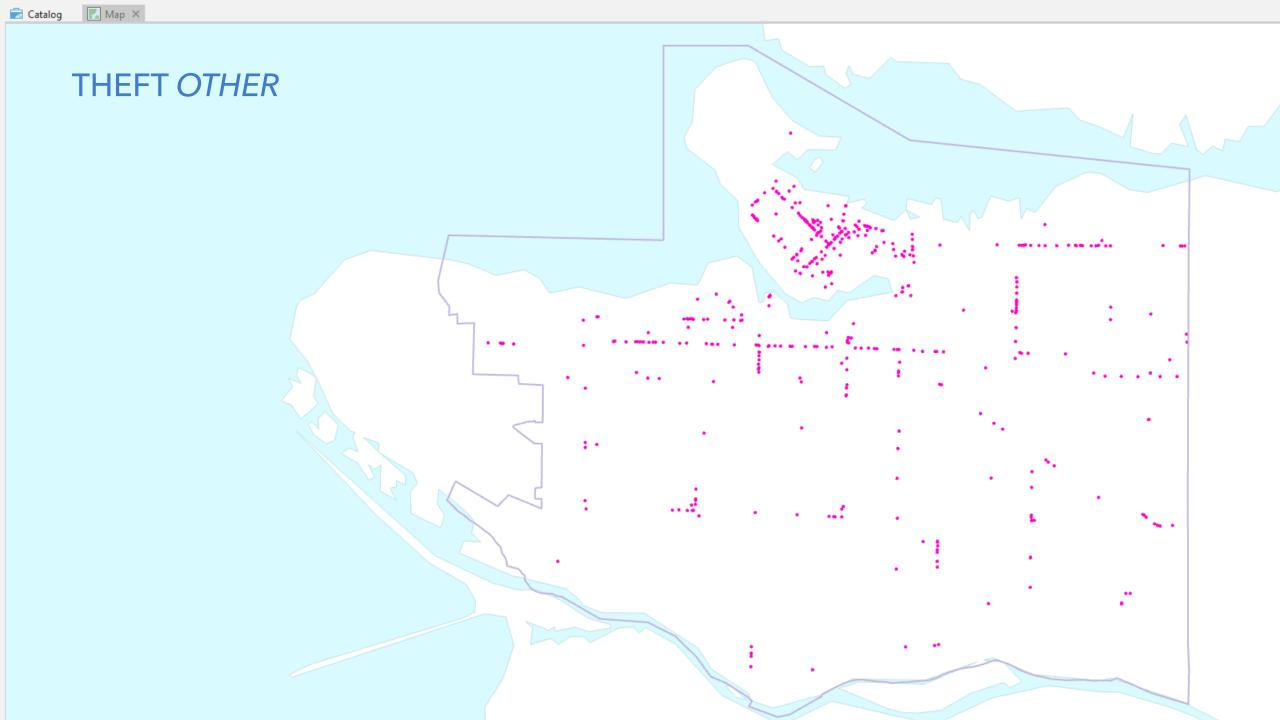


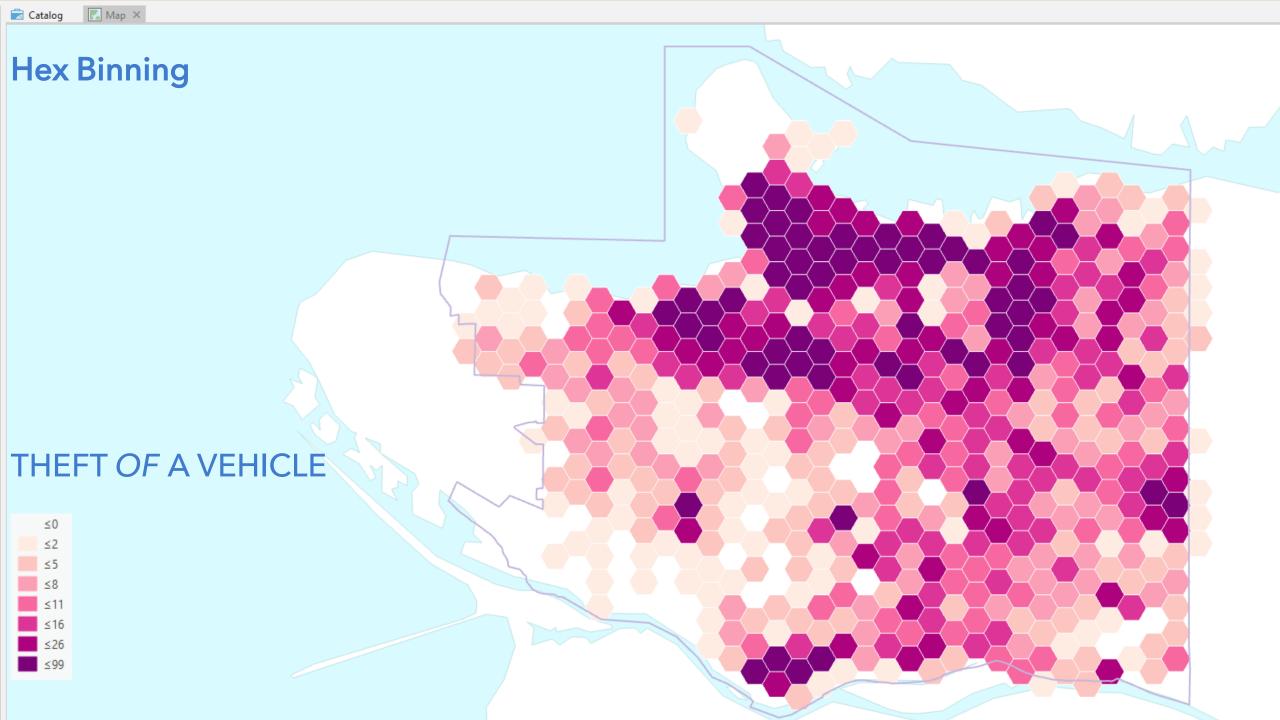


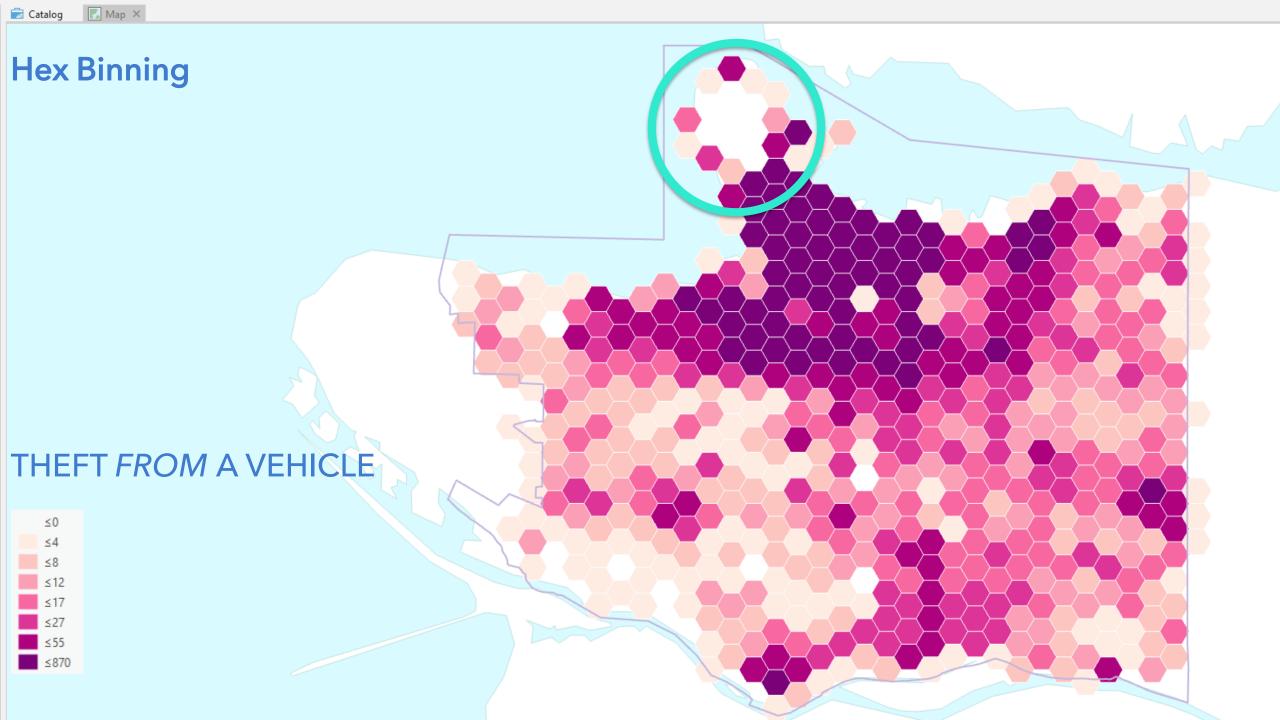


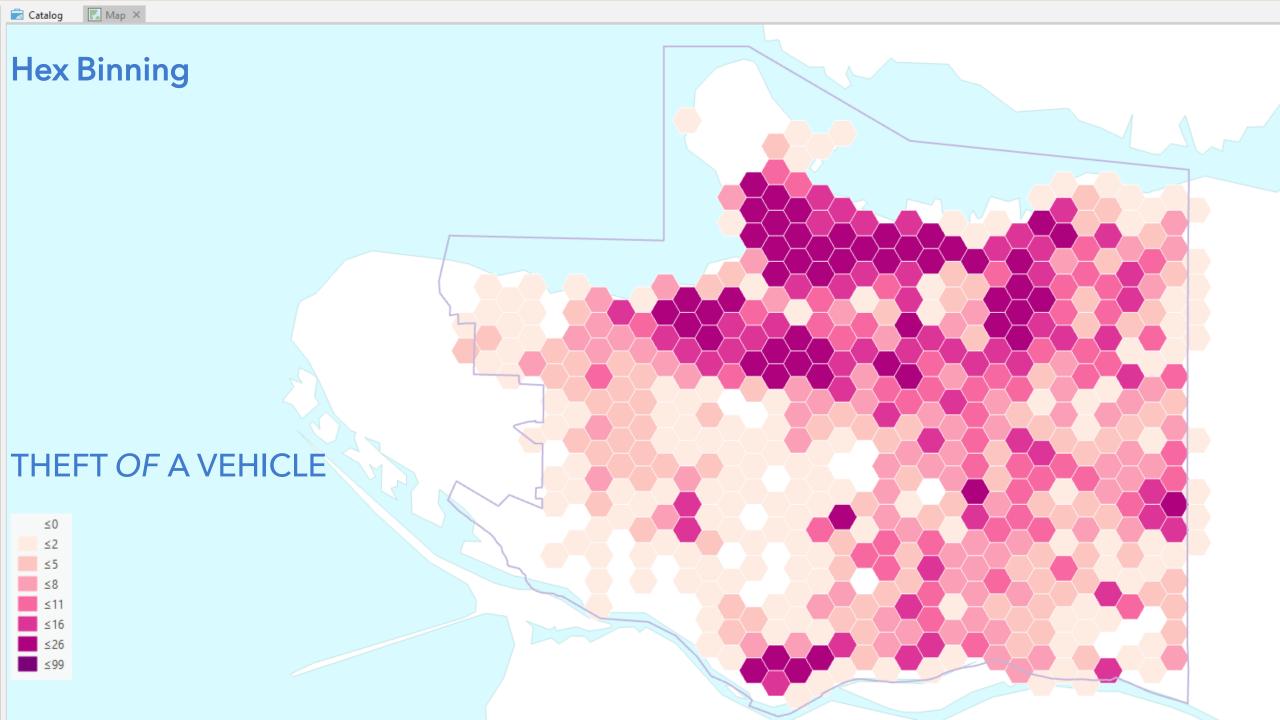




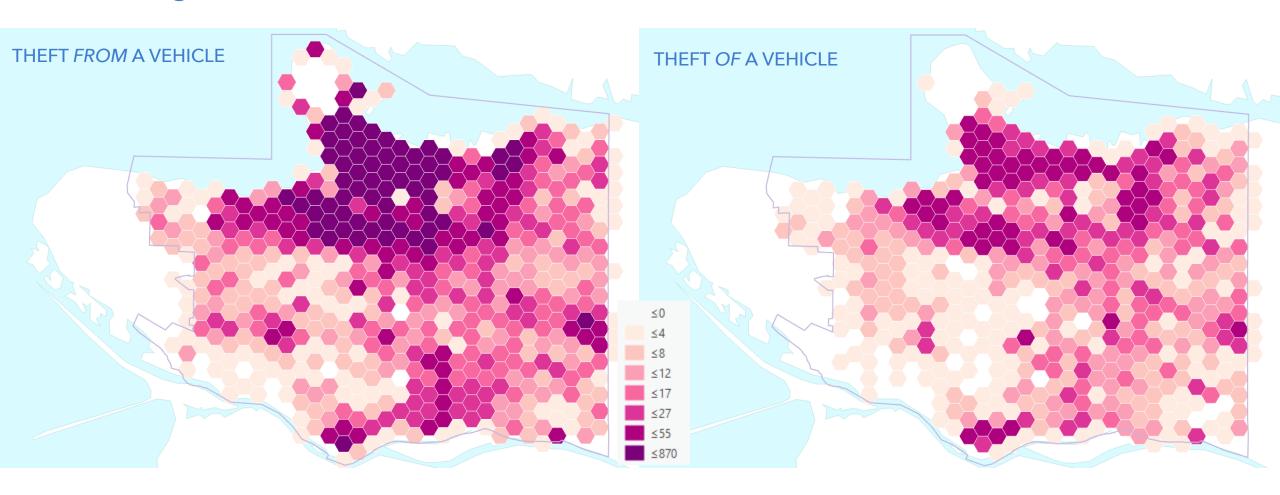


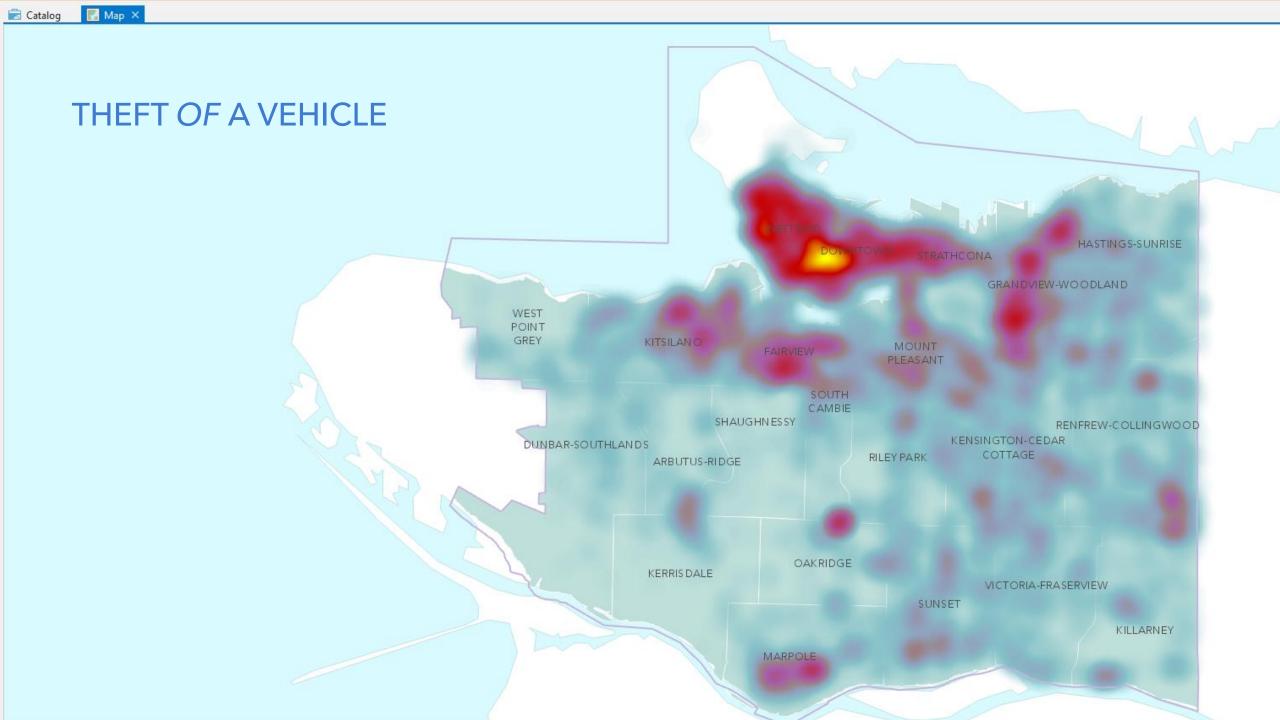


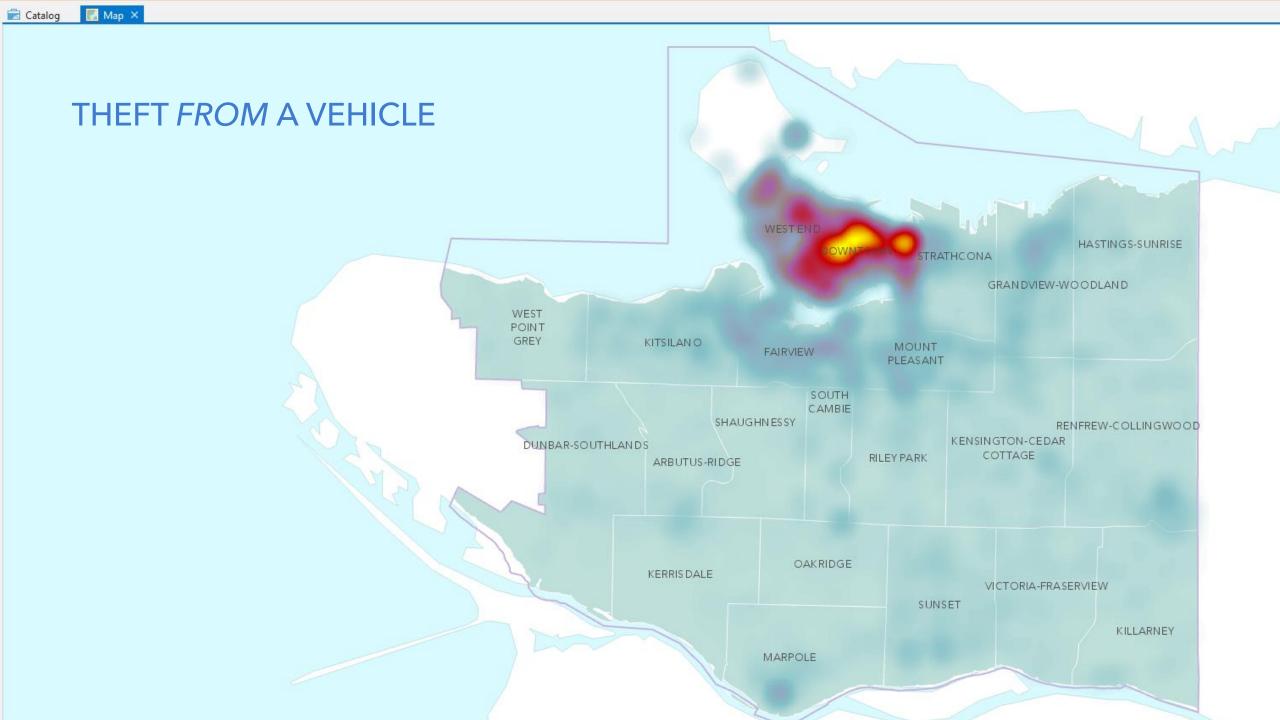




Hex Binning



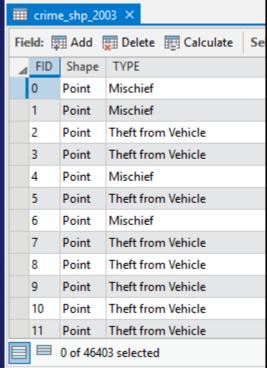




Vancouver, British Columbia

THE RIGHT VIZ FOR THE DATA

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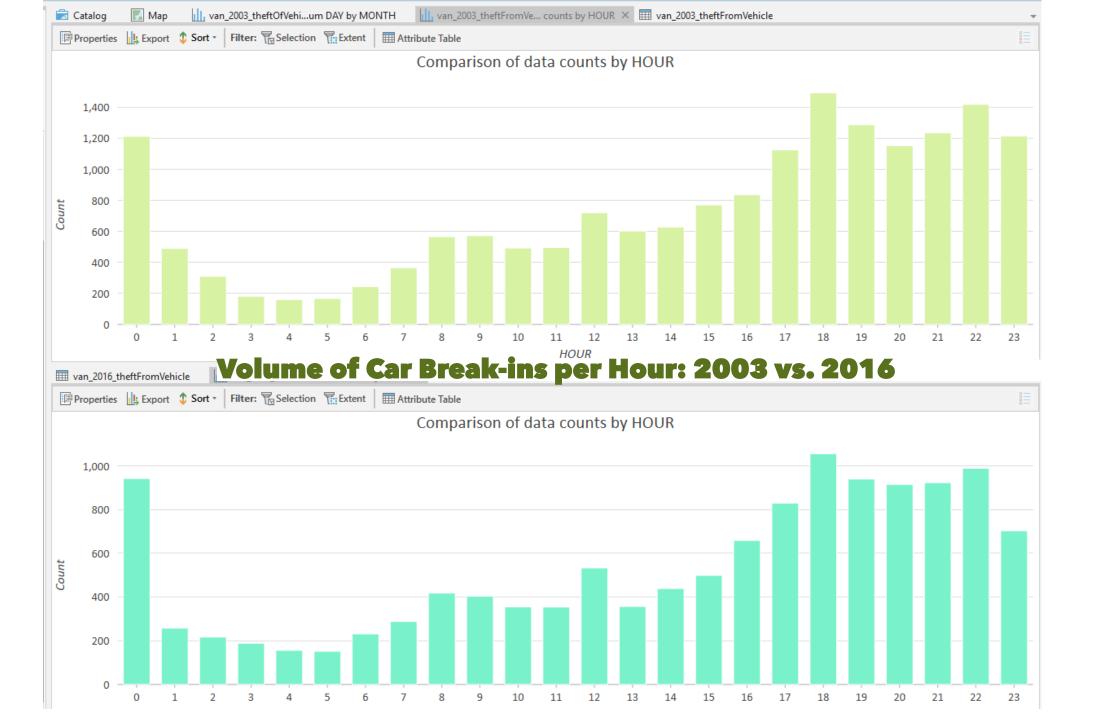


Over 46 thousand records



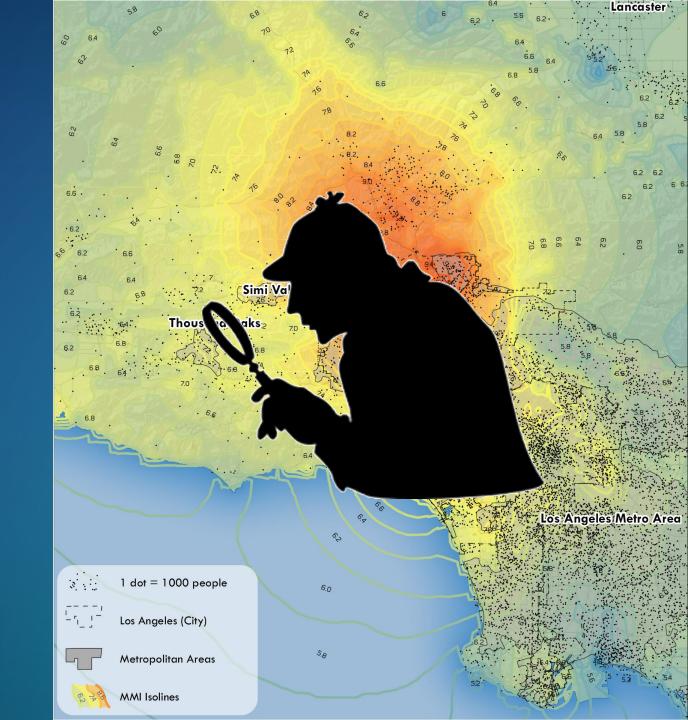
Neighborhood

	N_HOOD
E	Killarney
VΕ	Strathcona
Έ	Kerrisdale
/E	Kerrisdale
E	Killarney
/E	Arbutus Ridge
	Strathcona
N ST	Central Business Dist
	Kerrisdale
/E	Kerrisdale
	Kerrisdale
	Kitsilano



Summary

- Open-ended & curious
- Develop and (dis)prove assumptions
- Plot...change symbols & categorize
- Investigate patterns & anomalies
- Isolate & compare
- Try other data viz techniques:
 - different geometry/conversation
 - other data viz diagrams (non-maps) and attributes

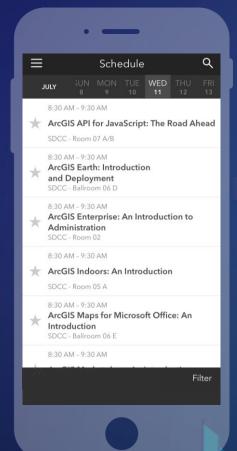


Please Take Our Survey on the App

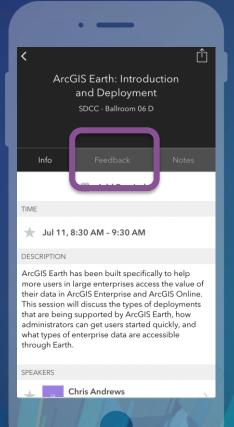
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