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FUSING EMOTION WITH TECHNICAL ANALYSIS

MONROE FARRIS

MYGOAL

Add emotional depth to strong technical analyses.

MDI Deliverable

Convey technical results in detail given the provided format

HW3 Deliverable

Focus viewers on the "so what" Connect analysis to mission



A Geospatial Understanding of Evictions in Franklin County, Ohio Monroe Farris - MS Data Science and Analytics (DSAN) '23



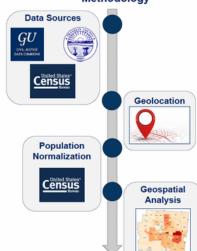
Georgetown's Civil Justice Data Commons (CJDC)

Introduction

Georgetown's Civil Justice Data Commons (CJDC), "aims to create a secure, robust repository for civil legal data, gathered from courts, legal service providers, and other civil law public to better understand the civil legal system in the United

This analysis looks to better understand evictions utilizing the data obtained by the CJDC. Specifically, this study will look at the top evicting locations within Franklin County, Ohio which is the most populous county in the state. Insights from this analysis will help individuals better understand where in Franklin County individuals are being evicted a the highest per-capita rate.

Methodology



Evictions obtained from the CJDC database were translated to geolocatable entities at a zip code level and normalized by population in that zip code. The result is a zip code level understanding of evictions. The below figures show visually where the top evicting zip codes are in Franklin County, OH and illustrates the impact of population normalization on insights. The left-most figure and table highlight unnormalized data and the right-most figure and table highlight results when normalized by population

Results



Figure 2 Evictions by Zip Code Pre-Normalization by





Figure 3 Evictions by Zip Code Post Normalization by

Neighborhood (Zip Code)	Number of Evictions	Population	Per-Capita Evictions	Neighbort (Zip Coo
Columbus / Blacklick Estates (43232)	1948	46914	0.042	North Rickenbar (43217
Columbus / Worthington	1913	56760	0.034	Whiteh: (43213
(43229) Whitehall (43213)	1782	32807	0.054	Mt Verne Woodland / King-Lin Bronzev (43203

Figure 4 Table of Evictions by Zip Code

Figure 5 Table of Evictions by Zip Code Post

Limitations

While this methodology works well to understand where in Franklin County the most evictions are occurring, given the nature of court data in the United States, this methodology would likely not translate well to another county. Court data in the US differs by count system. Other than just the way that the data is formatted, there is not a guarantee that other court systems would keep track of geospatial indicators such as zip codes. Therefore, while this approach is promising, applications can be limited.

Conclusion

I developed a process to geospatially understand and nalyze evictions in Franklin County, Ohio.

- Knowledge gained from these results can better aid policy makers and legal experts to better provide aid
- to these high evicting zip codes Adding a layer of geospatial data to civil justice issues kev civil justice issues

References

Acknowledgements

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Leveraging Geospatial Data to Better Understand Evictions in Ohio

Monroe Farris - MS Data Science and Analytics (DSAN) '23

Introduction

Using data from Georgetown's Civil Justice Data Commons, this analysis provides a novel methodology for understanding evictions in Franklin County, Ohio. Insights from this analysis will help individuals better understand where in the County people are being evicted at the highest per-capita

Methods

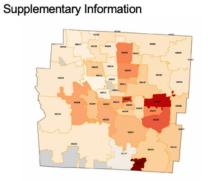


Results

Evictions obtained from the CJDC database were translated to geolocatable entities at a zip code level and normalized by population in that zip code. The result is a zip code level understanding of

- · Per-capita evictions most heavily impacted zip codes with smaller populations
- · Knowledge gained from these results can better aid policy makers and legal experts to better provide aid to these high evicting zip codes

Evictions in Ohio Disproportionally Impact Areas with Smaller Populations.



Per-Capita Eviction Rate by Zip Code Visualized via a

Neighborhood (Zip Code)	Number of Evictions	Popula tion	Per- Capita Evictions
North Rickenbacker (43217)	132	2069	0.064
Whitehall (43213)	1782	32807	0.054
Mt Vernon / Woodland Park / King-Lincoln Bronzeville (43203)	392	8415	0.047





MDI Deliverable

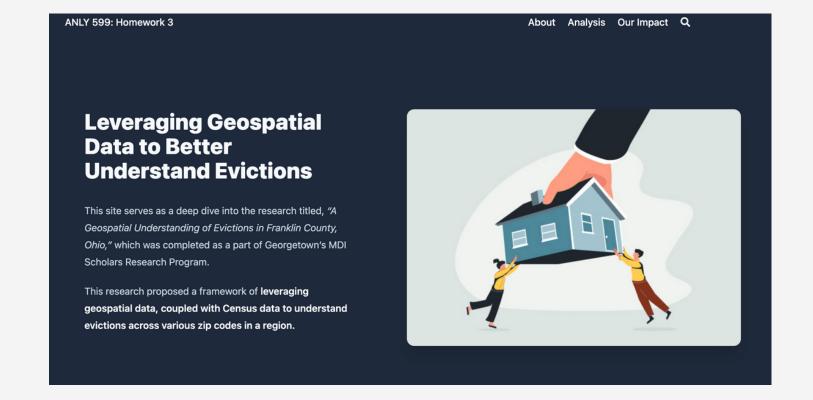
HW3 Deliverable

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DECISION MAKING PROCESS

- Focus attention on impact to connect to emotions
- Leverage interactive custom website to dive deeper into mission and technical details

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