Analysis Tutorial Prospectus

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1. Title

Map of all human West Nile Cases in the United States in 2024

1. Research questions?

Where is West Nile most prevalent? How could this map help vector control efforts?

1. Objectives
2. Effectively communicate how to code a map of the United States in R that allows for the visualization of all human West Niles cases in 2024.
3. Approach

I will use the book from class to help me identify what code I will need to be able to use to achieve my goal. For any information that I am unaware of or may be too complex for this class, I will utilize ChatGPT to aid the construction of my code.

1. Selected References

Merow C, Serra-Diaz, JM, Enquist, BJ, & Wilson AM. 2023. AI chatbots can boost scientific coding. Nature Ecology & Evolution, 7(7), 960–962. <https://doi.org/10.1038/s41559-023-02063-3>

Perkel, JM. 2023. Six tips for better coding with ChatGPT. Nature, 618(7964), 422–423. <https://doi.org/10.1038/d41586-023-01833-0>v

R Core Team. 2024. R: A Language and Environment for Statistical Computing. from <https://www.r-project.org/>

Centers for Disease Control and Prevention. (n.d.). *Current year data (2024)*. Centers for Disease Control and Prevention. <https://www.cdc.gov/west-nile-virus/data-maps/current-year-data.html>