A Reproducible Paper*

Using `pixi` and `quarto` and codespaces to handle environments and execution

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2024-11-21

This project shows how to generate a reproducible environment and execute an entire analysis (including building the paper) via github codespaces.

Introduction

Literature Review

Methods

Two classic models in spatial analysis are the *Spatial Lag Model*, defined as

$$y = \rho W y + \beta X + \epsilon$$

and the *Spatial Error Model* defined as

$$\begin{aligned} y &= \beta X + u \\ u &= \lambda W u + \epsilon \end{aligned}$$

*This project is supported by the National Science Foundation Grant #2345820: An Open Source Ecosystem for Spatial Data Science.

Results

This section uses `quarto`'s conditional formatting to include an iframe map and html table when the output is a website

or a static image and latex table when the output is a pdf

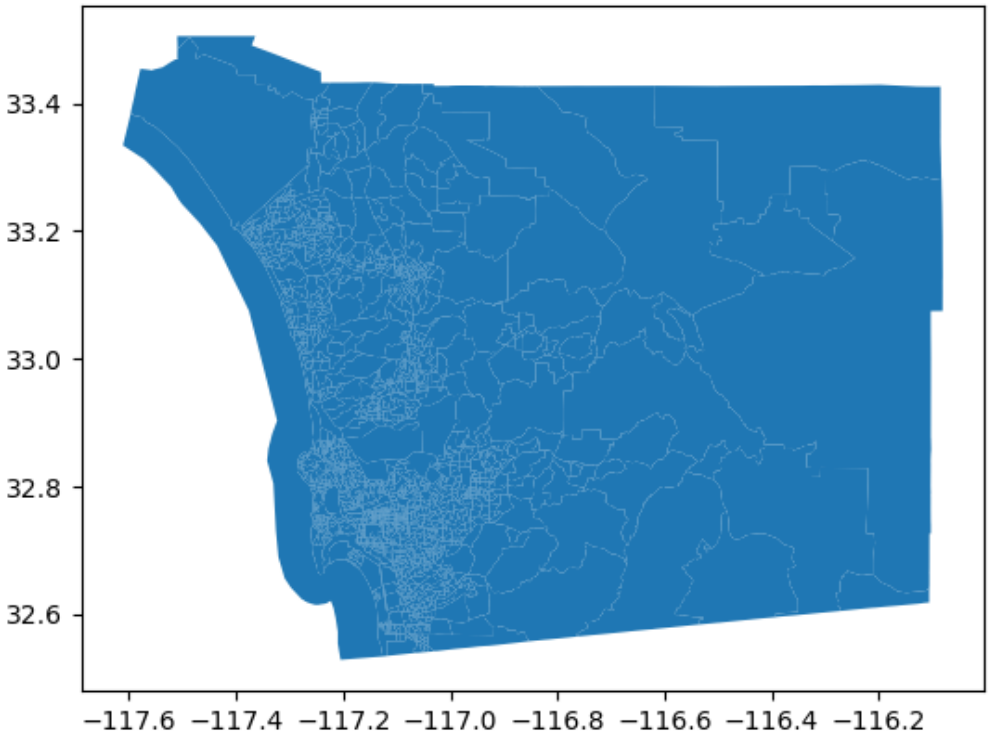

Figure 1: SD Map

Table 1

	n-total-pop	median-household-income
0	1577.000000	150688.000000
1	1673.000000	127292.000000
2	1915.000000	90673.000000

Continued on next page

	n-total-pop	median-household-income
3	1271.000000	65219.000000
4	695.000000	NaN
5	2617.000000	81250.000000
6	500.000000	64631.000000
7	808.000000	64787.000000
8	1682.000000	59010.000000
9	1151.000000	79725.000000

Discussion

Conclusion

References