

Data Visualization Final Project Literature Review

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I. Introduction

This bibliography contains sources related to the following topics:

- a) Background information on the housing market
- b) General geographic visualization tools
- c) Past visualizations on homelessness and housing
- d) Publicly available datasets

II. Bibliography

Ananya Roy, Gary Blasi, Jonny Coleman, & Elana Eden. (2020). Hotel California: Housing the Crisis. *UCLA Luskin Institute on Inequality and Democracy*.

<https://escholarship.org/uc/item/0k8932p6#main>

- The purpose of this citation is to provide myself with general background knowledge of the housing crisis in California on a more detailed and academic level than what is presented in the news.
- The article uses a data-driven approach to answer several pressing questions about the crisis, including who is most affected, where it is most severe, and what policies are consistent in creating the crisis.

Edsall, R. M., Harrower, M., & Mennis, J. L. (2000). Tools for visualizing properties of spatial and temporal periodicity in geographic data. *Computers & Geosciences*, 26(1), 109–118. [https://doi.org/10.1016/S0098-3004\(99\)00037-0](https://doi.org/10.1016/S0098-3004(99)00037-0)

- This paper gives a list of effective tools and techniques for geospatial and geotemporal data visualization
- As much of my analysis will involve changes in metrics by location by time, this paper is very relevant and contains some good ideas about how to best present the data.
- Many of the concepts presented were covered in class, but additional ones are also proving useful.

Esteban Ortiz-Ospina & Max Roser. (2017). Homelessness. *Our World in Data*.

https://ourworldindata.org/homelessness?source=post_page#

- This is a data-visualization-based survey of homelessness. The purpose of this paper is to review some basic visualizations that have been used in the past to cover similar concepts as my project.
- The paper also references some very useful public datasets that I will likely end up using in my own project.

Jayant Madhavan, Shreeram Balakrishnan, Kathryn Brisbin, Hector Gonzalez, Nitin Gupta, Alon Halevy, Karen Jacqmin-Adams, Heidi Lam, Anno Langen, Hongrae Lee, Rod McChesney, Rebecca Shapley, & Warren Shen. (2012). Big Data Storytelling through Interactive Maps. *Google Inc*.

<https://static.googleusercontent.com/media/research.google.com/en//pubs/archive/39959.pdf>

- This paper was included in the course materials during the week on geographic visualization techniques. I'm using it as essentially a placeholder to reference all of the concepts taught during that unit of the class.

John D. Landis. (2000). Raising the Roof: California Housing Development Projections and Constraints, 1997-2020. *Department of City & Regional Planning, UC Berkeley.*
<https://escholarship.org/uc/item/1391n947#main>

- This is an older paper from 2000 that attempts to project trends in housing in California until the year 2020.
- I hope to use more advanced techniques to make similar (but more scientific) projections in my project, provided sufficient is available since 2000.