Grouping Data

⚠ Changes before 22/23

- ☐ Add Learning Outcomes for each week
- ☐ Point to clustering code and show DBSCAN, k-Means, etc. as applied to the Airbnb data.
- ☐ Stress different view of clustering as part of a pipeline, not an absolute "just k-means it"; link to thinking about paradigms in CASA0001;
- ☐ thinking about proxies (why would you find ppsqm more/less useful than price? what are you *really* measuring?

Connects to both CASA0001 *and* CASA0007 and CASA0005.

Overview

❗ Important

This week's Learning Outcomes are:

1.
2.
3.

Preparation

Videos

Come to class prepared to briefly present:

Video	Markdown for Note-taking
Classification	Notes
Clustering	Notes

Grouping Data

Readings

Come to class prepared to briefly present:

- (Shapiro and Yavuz 2017) URL
- (Wolf et al. 2021) DOI
- (Singleton and Arribas-Bel 2021) DOI

Activities

- Padlet: [Collaborative Agenda]
- Complete the short Moodle quiz associated with this week's activities.

Practical

⚠ Changes before 22/23

- ☐ Add Learning Outcomes for each week
- ☐ Standardise delivery by TAs where practicals are TA-led (e.g. FSDS): clearer guidance on how to take students through each week.
- ☐ Clearer articulation of difficulty levels/targets for components *within* each week's practicals.
- ☐ Make links between lecture and practical content explicit; ideally trace a question through the whole process (*e.g.* "If I wanted to know if and where blue plaques are clustered in London how would I find out?")

The practical can be downloaded from GitHub.

References

Shapiro, W., and M. Yavuz. 2017. "Rethinking 'distance' in New York City." Medium. https://medium.com/topos-ai/rethinking-distance-in-new-york-city-d17212d24919.

Singleton, Alex, and Daniel Arribas-Bel. 2021. "Geographic Data Science." *Geographical Analysis* 53 (1):61–75. https://doi.org/10.1111/gean.12194.

Wolf, Levi John, Sean Fox, Rich Harris, Ron Johnston, Kelvyn Jones, David Manley, Emmanouil Tranos, and Wenfei Winnie Wang. 2021. "Quantitative Geography III: Future Challenges and Challenging Futures." *Progress in Human Geography* 45 (3). SAGE Publications Sage UK: London, England:596–608.