

Urban Climate

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Urban form strongly affects local temperature through geometry and material properties. For example, Oke [1982] developed the fundamental energy balance model for urban surfaces. More recent studies such as Stewart [2011] and Nunez-Peiro et al. [2021] expanded this to classify and quantify urban environments.

References

- Miguel Nunez-Peiro, Carmen Sanchez-Guevara Sanchez, and F. Javier Neila Gonzalez. Hourly evolution of intra-urban temperature variability across the local climate zones. the case of madrid. *URBAN CLIMATE*, 39, SEP 2021. ISSN 2212-0955. doi: 10.1016/j.uclim.2021.100921.
- T. R. Oke. *The energetic basis of the urban heat island*, volume 108. Quarterly Journal of the Royal Meteorological Society, 1982.
- Kathleen Stewart. Atmospheric attunements. *Environment and Planning D: Society and Space*, 29(3):445–453, 2011. doi: 10.1068/d9109. URL <https://doi.org/10.1068/d9109>.

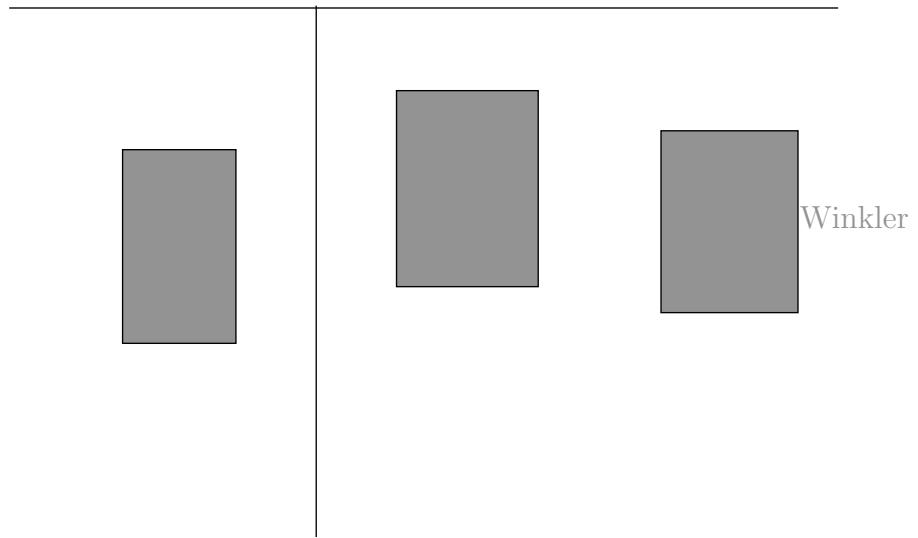
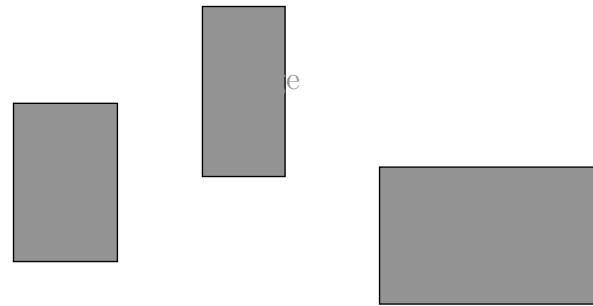


Figure 1: Streets of the City