

DAFTAR PUSTAKA

- Aji, D. K., & Oktavia, C. A. (2023). Sistem Informasi Geografis Pemetaan Analisis Daerah Rawan Kriminalitas Menggunakan Metode Jenks Natural Breaks Berbasis Web Kota Malang. *Elang: Journal of Interdisciplinary Research*, 3, 13–23.
- Alala, B., Mwangi, W., & Okeyo, G. (2014). Image Representation using RGB Color Space. *International Journal of Innovative Research and Development*, 3(8), 322–328.
https://www.internationaljournalcorner.com/index.php/ijird_ojs/article/view/134958
- Altin, H. (2023). Does wealth bring happiness? *Cogent Economics and Finance*, 11(2), 1–14. <https://doi.org/10.1080/23322039.2023.2268804>
- Azzam, T., Evergreen, S., Germuth, A. A., & Susan, J. K. (2013). Data Visualization and Evaluation. *Data Visualization, Part 1. New Directions for Evaluation*, 139, 7–32. <https://doi.org/10.1002/ev>
- Campbell, S., Greenwood, M., Prior, S., Shearer, T., Walkem, K., Young, S., Bywaters, D., & Walker, K. (2020). Purposive sampling: complex or simple? Research case examples. *Journal of Research in Nursing*, 25(8), 652–661.
<https://doi.org/10.1177/1744987120927206>
- Char, S. (2023). *Misgivings in Measuring Happiness*.
- Chen, J., Cranton, W., & Fihn, M. (2016). Handbook of visual display technology. *Handbook of Visual Display Technology, February*, 1–3564.
<https://doi.org/10.1007/978-3-319-14346-0>
- Chen, J., Yang, S., Li, H., Zhang, B., & Lv, J. (2013). Research on geographical environment unit division based on the method of natural breaks (Jenks). *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 40(4W3), 47–50.
<https://doi.org/10.5194/isprsarchives-XL-4-W3-47-2013>
- Cheng, S., Xu, W., & Mueller, K. (2019). ColorMapND: A data-driven approach and tool for mapping multivariate data to color. *IEEE Transactions on Visualization and Computer Graphics*, 25(2), 1361–1377.
<https://doi.org/10.1109/TVCG.2018.2808489>
- Cleveland, W. S. (1993). Visualizing Data. In *Angewandte Chemie International Edition*, 6(11), 951–952. Hobart Press.
- Cybulski, P. (2020). Spatial distance and cartographic background complexity in graduated point symbol map-reading task. *Cartography and Geographic Information Science*, 47(3), 244–260.
<https://doi.org/10.1080/15230406.2019.1702102>
- Delikostidis, I. (2007). GE107 Methods and techniques for field-based usability testing of mobile geo-applications. In *International Institute for Geo-information Science and Earth Observation (ITC): Vol. M.Sc.*
- Dent, B. D. (1999). *Cartography -- Thematic Map Design fifth Edition*. 336.
- Dong, W., Ran, J., & Wang, J. (2012). Effectiveness and efficiency of map symbols



- for dynamic geographic information visualization. *Cartography and Geographic Information Science*, 39(2), 98–106. <https://doi.org/10.1559/1523040639298>
- Grant, R. (2019). *Data Visualization: Charts, Maps and Interactive Graphics*. CRC Press.
- Halder, S., & Mahato, A. K. (2024). Understanding Gratitude and Happiness: Psychology and Neuroscience behind Well-being. *Taiwanese Journal of Psychiatry*, 38(1), 6–9. https://doi.org/10.4103/tpsy.tpsy_3_24
- Helliwell, J. F., Layard, R., Sachs, J. D., De neve, J., Akinin, L. B., & Wang, S. (2024). *World Ranking Of Happiness 2021-2023*. <https://worldhappiness.report/ed/2024/>
- Korycka-Skorupa, J., & Gołębiowska, I. (2021). Multivariate mapping for experienced users: Comparing extrinsic and intrinsic maps with univariate maps. *Miscellanea Geographica*, 25(4), 259–271. <https://doi.org/10.2478/mgrsd-2020-0068>
- Kraak, M.-J., & Ormeling, F. (2010). Visualization of Spatial Data Third Edition. In *Pearson Education*.
- Kresse, W., & Danko, D. M. (2012). Springer Handbook of Geographic Information. In *Sustainability (Switzerland)* (Vol. 11, Issue 1). Springer. <https://doi.org/10.1007/978-3-540-72680-7>
- Maeder, M., McCann, N., & Norman, S. (2009). Model-Based Data Fitting. *Comprehensive Chemometrics*, 3, 413–436. <https://doi.org/10.1016/B978-044452701-1.00058-2>
- Nasution, A. (2025). Pengaruh Kemiskinan Dan Pengangguran Terhadap Pertumbuhan Ekonomi Di Sumatera Utara. *Sintama: Jurnal Sistem Informasi, Akuntansi, Dan Manajemen*, 5(1), 31–36. <https://doi.org/10.32938/jep.v7i2.2555>
- Nawaz, M., Qureshi, R., Teevno, M. A., & Shahid, A. R. (2023). Object detection and segmentation by composition of fast fuzzy C-mean clustering based maps. *Journal of Ambient Intelligence and Humanized Computing*, 14(6), 7173–7188. <https://doi.org/10.1007/s12652-021-03570-6>
- Neumann, A. (2007). Web mapping and web cartography. In Shekhar & Xiong (Eds.), *Encyclopedia of GIS* (pp. 1261–1274). Springer. https://doi.org/10.1007/978-0-387-35973-1_1485
- Neve, J. De, & Sachs, J. D. (2020). World Happiness Report 2020. In *Australian Planner* (Vol. 30, Issue 4, pp. 207–210). <https://doi.org/10.1080/07293682.1992.9657586>
- Oberoi, P., Chopra, S., & Seth, Y. (2020). A comparative analysis of the factors affecting happiness index. *International Journal of Scientific and Technology Research*, 9(3), 1671–1678.
- Ramadhani, A. P., & Purnamadewi, Y. L. (2024). Drivers and Cluster Analysis of Happiness in Indonesia. *Jurnal Ekonomi Dan Kebijakan Pembangunan*, 13(2), 105–115. <https://doi.org/10.29244/jekp.13.2.2024.105-115>
- Schaab, G., & Stern, C. (2021). Extending the cartographic capabilities of desktop GIS – Implementing less common statistical mapping methods as web services together with students. *Proceedings of the ICA*, 4(December), 1–8. <https://doi.org/10.5194/ica-proc-4-94-2021>



- Selvi, H. Z., & Caglar, B. (2018). Using cluster analysis methods for multivariate mapping of traffic accidents. *Open Geosciences*, 10(1), 772–781.
<https://doi.org/10.1515/geo-2018-0060>
- Siegel, A. F. (2012). *Practical Business Statistics Sixth Edition*.
- Siregar, I. A. (2021). Analisis Dan Interpretasi Data Kuantitatif. *ALACRITY: Journal of Education*, 1(2), 39–48. <https://doi.org/10.52121/alacrity.v1i2.25>
- Slocum, T. A., Howard, H. H., McMaster, R. B., & Kessler, F. C. (2022). Thematic Cartography and Geovisualization. In *CRC Press*.
<https://experts.umn.edu/en/publications/thematic-cartography-and-geovisualization>
- Suryani, Y., & Rinaldy, R. (2021). Pandemic Impact of Covid-19 on Social - Economic Conditions in West Sumatera. *Jejak*, 14(2), 384–397.
<https://doi.org/10.15294/jejak.v14i2.30137>
- Sutopo, A., Arthati, D. F., & Rahmi, U. A. (2014). Kajian Indikator Sustainable Development Goals (SDGs). In *Badan Pusat Statistik*.
- Tyner, J. A. (2010). Principles of Map Design. In *Journal of Animal and Plant Sciences* (Vol. 53, Issue 9).
- Veenendaal, B., Brovelli, M. A., & Li, S. (2017). Review of web mapping: Eras, trends and directions. In *ISPRS International Journal of Geo-Information* (Vol. 6, Issue 10). <https://doi.org/10.3390/ijgi6100317>
- Wayan, N., Damayanthi, R., Luh, N., Suciptawati, P., Jayanegara, K., & Kencana, E. N. (2023). Pengelompokan Provinsi di Indonesia Menurut Indikator Indeks Kebahagiaan Menggunakan Metode Average Linkage. *INNOVATIVE: Journal Of Social Science Research*, 3, 8859–8872.
- Yan, Z., Xu, L., Suzuki, A., Wang, J., Cao, J., & Huang, J. (2022). RGB Color Model Aware Computational Color Naming and Its Application to Data Augmentation. *Proceedings - 2022 IEEE International Conference on Big Data, Big Data 2022*, 1172–1181. <https://doi.org/10.1109/BigData55660.2022.10020750>
- Yao, Y., Zhu, X., Zhang, J., & Jiang, L. (2015). Research on the Application of Face Symbol in Thematic Map Making. *Proceedings - 2015 IEEE International Conference on Multimedia Big Data, BigMM 2015*, 348–351.
<https://doi.org/10.1109/BigMM.2015.91>