

Project 3 Grading Rubric

Each aspect of the project will be graded on a competency-based scale ranging from Exceeds expectations to Meets expectations, Needs improvement, Unsatisfactory, and Failing. These levels approximately correspond to grades A, B, C, D, and F, respectively. Half grades may be assigned to work that falls between two proficiency levels.

	Exceeds expectations	Meets expectations	Needs improvement	Unsatisfactory	Failing
Introduction	The introduction provides a clear explanation of the question and the dataset used to answer the question, including a description of all relevant variables in the dataset. 10pts	Introduction has minor flaws, e.g. is too short or too long. 8pts	Introduction has one major flaw, such as not describing the relevant variables in the dataset. 6pts	Introduction has multiple major flaws. 4pts	Entirely incorrect/not attempted. 0pts
Justification of approach	The chosen analysis approach and visualizations are clearly explained and justified. 10pts	Justification of approach has minor flaws, e.g. is too short or too long. 8pts	Justification of approach has one major flaw, e.g. a visualization is not justified or is incorrect. 6pts	Justification of approach has multiple major flaws. 4pts	Entirely incorrect/not attempted. 0pts
Question	Question is interesting, appropriate for the dataset, and conceptual. 10pts	Question is conceptual and appropriate for the dataset but lacks depth or insight. 8pts	Question is either overly technical or vague, or prompts one particular analysis. 6pts	Question is not a question or does not relate to the given dataset. 4pts	Not attempted, or, using an invalid dataset (outside the specified date boundaries). 0pts
Code	Code is correct, easy to read, properly formatted, and properly documented. 10pts	Code is correct but has minor problems with formatting or documentation. 8pts	Code has minor flaws, is missing data wrangling component, or includes extraneous parts. 6pts	Code has major flaws. 4pts	Entirely incorrect/not attempted. 0pts
Analysis	Analysis approach is appropriate for the given question and dataset. 5pts	Analysis approach is mostly appropriate but has some minor issues. 4pts	Analysis approach has one major problem. 3pts	Analysis approach has multiple problems. 2pts	Entirely incorrect/not attempted. 0pts
Modeling requirement	Project uses either multiple regression models on subsets of data or PCA or clustering. 10pts				Project does not use any of the required analysis methods. 0pts
Visualization	The visualizations are appropriate, easy to read, properly labeled, and nicely styled. 10pts	The visualizations have minor flaws, such as with legibility or labeling, or the chosen geom is suboptimal, or there are minor problems with styling. 8pts	The visualizations have substantial flaws with legibility or labeling, or are confusing, or have not been styled. 6pts	The visualizations have major flaws, i.e., are barely comprehensible or entirely inappropriate. 4pts	Entirely incorrect/not attempted. 0pts
Visualization requirement	All requirements are satisfied: different geoms, color mapping or faceting in at least one figure, one compound figure. 5pts		At least one requirement is not satisfied. 3pts	At least two requirements are not satisfied. 3pts	Entirely incorrect/not attempted. 0pts
Discussion of results	Discussion of results is clear and correct, and it has some depth without begin excessively long. 10pts	Discussion of results is mostly clear and correct, but has minor inaccuracies or lacks some depth. 8pts	Discussion has one substantial flaw but is otherwise acceptable. 6pts	Discussion has multiple flaws in logic. 4pts	Entirely incorrect/not attempted. 0pts
Reproducibility	All required files are provided. Quarto file renders without issues and reproduces pdf. 10pts	All required files except pdf are provided. Quarto file renders without issues and produces a pdf. 8pts	Quarto file requires minor modification to render. 6pts	Quarto file requires major modification to render, or is not provided, or key data file is missing. 4pts	Not attempted, or, using an invalid dataset (outside the specified date boundaries). 0pts
Presentation	Entire document is well structured and easy to follow. No extraneous materials. 10pts	Document is mostly well structured, but some aspects are confusing or difficult to follow. 8pts	Document has several deficiencies, such as excessive extraneous materials, misplaced figures, code, or text, or is otherwise confusing. 6pts	Document is near impossible to comprehend. 4pts	Incomprehensible/not attempted. 0pts
Points total:	100	80	60	40	0