STA 141 Rubric

	Exceptional – A+	Good – A	Acceptable – B	Poor – C	Inadequate – D
Text*	5	4	3	2	1
	Concise analysis of the problem that presents important results, not all results. Multiple explanations are given for each result and their plausibility is critqued. Unexpected results are examined from multiple angles. Includes a short introduction for context and a short conclusion that provides a "big picture" synthesis of results. External sources are used to enrich the analysis.	Analysis explores the problem well and presents important results. At least one explanation is given for each result, and in most cases its plausibility is critqued. Unexpected results are examined. Includes a short introduction for context and a short conclusion that summarizes major results.	Analysis explores the problem inadequately or fails to filter out unimportant results. Explanations are given for some results, often without critquing their plausibility. Unexpected results are noted but not examined in more detail. Some context is given and some conclusions are drawn, but there is no formal introduction and conclusion.	Analysis is superficial and doesn't give insights about the problem. Dicussion is limited to describing results. No introductory or concluding remarks.	Analysis is incomplete, illogical, or severely disorganized.
Figures	5	4	3	2	1
	Figures are carefully designed to convey important details relevant to the analysis. Each is easy to understand without additional context and has good print quality.	Figures convey important details relevant to the analysis, but a few have minor problems such as missing labels, missing units, bad aspect ratio, or poor print quality.	Figures are relevant to the analysis, but many have minor problems.	Figures are poorly choosen and fail to support the analysis. Some are redundant, cluttered, or have other major problems.	Figures are irrelevant or have major design problems.
Source Code	5	4	3	2	1
	Complex tasks are divided into short steps, each represented by a function. Each function has a single, clear purpose. Iteration is used to avoid repeated code. Brief comments explain the "big picture" purpose of each step, and functions are thoroughly documented. No formatting issues.	Complex tasks are divided into short steps, each represented by a function. Iteration is used to avoid repeated code. Brief comments explain the "big picture" purpose of each step. Variable names are descriptive. A few lines may be missing spaces or proper indentation.	A clear effort was made to divide complex tasks into short steps, but some functions are lengthy or without a clear purpose, and there may be a few cases of repeated code. Some comments explaining each step. A few variable names are not descriptive, and a few lines may be missing spaces or proper indentation.	Complex tasks are not divided into short steps. Functions and iteration are used inconsistently or not at all. Most variable names are not descriptive, and a few lines may be missing spaces or proper indentation.	Very hard to read due to multiple formatting issues, or irrelevant to the assigned task.

Don't panic if you get 12 / 15! That's an A grade!

Read the feedback after every assignment!

Code guidelines:

- Give variables descriptive names.
- Put spaces around operators and after commas.
- Separate "paragraphs" of code (steps) with blank lines.
- Use a comment to explain each "paragraph" of code.
- Label the code for each part of the assignment.
- Don't begin lines of code with the R prompt ">".
- Put margins on every page so there's room for feedback.

Figure guidelines:

- Put a title and axis labels on every figure.
- Display the measurement unit for each axis.
- Only include figures that convey useful information.
- Vary line styles so lines are distinct even in black and white.

* Adapted from H. Wickham's rubric at
    stat405.had.co.nz/homework/rubric.pdf