Term data project – final

This assignment has two parts.

Part 1: In class on 29 November give a presentation of your project that lasts 11 minutes and allows a minimum of 3 minutes for questions (e.g., an 8 minute talk with 3 minutes after for questions would work). Be sure to describe your study aim, your fake data and real data if applicable, how you built your model (e.g., did you change it due to posterior predictive checks and/or for other reasons along the way), and what you found. Feel free to use the whiteboard and/or slides. Note that your grade includes how well you did during Q & A so be sure to allow time for questions.

Part 2: Written work and executable code (see also the grading rubric below): The written work should be no more than **five** double-spaced pages (single-sided) and you may include up to **five additional pages** of figures and/or tables with captions (one figure or table per page, but multi-panel is okay). Supplemental figures and/or tables (those not critical to understanding your written work) can also be included but are limited to five pages with the same restriction of one figure or table per page.

Your written work should be in PDF format and include:

- Your aim
- Your (brief) data collection methods and (probably longer) statistical methods
- Your results and findings.

You must also provide executable code. This is code that I should be able to run by *only changing the working directory* so be sure to provide all files needed to run the code (and you may need to read up on relative paths). Please clean your code so the analyses presented in the PDF (main and supplemental) are shown and neatly commented. Code to build and test fake data and run posterior predictive checks should be provided.

Grading:

In-class presentation, including Q&A	12 points
Description of methods	6 points
Clarity/organization of your code and files	4 points
Simulated data	4 points
Posterior predictive checks	4 points
Results text and figures (and their integration)	5 points
Total:	35 points

Due: In-class presentations on 29 November; all presentation files must be submitted as PDFs to Lizzie by 6pm on 28 November; your written assignment (see above) must be submitted via `git` in a folder with just your name (e.g., `Lizzie`) at the same time (6pm).