Week 4 Discussion

Material covered: McElreath Chapter 4 and video lecture 4.

Here are some instructions for Yellowdig as well as the description of the point system.

- 1. What are normal distributions so common in statistics? What are some potential problems with using the normal distribution? (4.1)
- 2. Is looking at the raw data a good way to determine if the data are normally distributed? Why or why not? (4.3.2)
- 3. What does iid mean? Is it an important assumption? When is it likely or unlikely to be true? (4.3.2)
- 4. Is mu_i = alpha * exp(- beta* x_i) a regression model? A linear model? Please explain. (4.4)
- 5. What is the correct prior? How do we choose a correct prior? (4.4)
- 6. What is a linear model in the context of statistics? (4.5)
- 7. Please post on any aspect of the chapter that you found interesting, insightful, or confusing.