## Summary

- Linear models help us **answer questions** about differences across groups
- The basic strategy is to formulate a
  probabilistic description of our data, and
  to establish a relation between data and
  parameters in the statistics model
- In linear models, coefficients are comparisons across categories, and we can interpret their estimates

- There are many ways to fit the models
- We like to encode the information the data brings about parameters using the posterior distribution, and this requires the definition of priors
- We can also fit the models using OLS and Maximum Likelihood, but if we do, we are stuck with default priors that don't bring useful information