# AS.280.347
# CLASS 3.1

- Get projects up on Github
- Present your ideas/work!
- Questions/work time

# Your Project Design

- Question:
- Data set and design
  - Outcome:
  - Predictor variables of primary interest:
  - Effect modifiers:
  - Confounders:
- Directed Acyclic Graph (DAG):
- Primary analysis to address question:
- Communicating results in tables and figures:

# When presenting your work:

- Discuss analysis idea (what's your question?)
- Discuss problems you ran into (and solutions if you have them!)
- Describe your:
  - Data
  - Data Cleaning
  - Exploratory Data Analysis
- To provide feedback:
  - Ask questions
  - Make suggestions for improvement!

# Types of regression analysis

- Linear regression
- Logistic regression
- Poisson regression (log-linear model)

# Assignment 3.1

- Update your short introduction to your question of interest:
  - Question
  - Data source
  - Outcome variable
  - Primary predictor variable(s)
- Read your data into RStudio
- Examine and explore your data:
  - Summaries of your variables of interest
    - Is there missing data? Anything unusual or concerning?
  - Recode from numbers to factors
    - 1 -> “female”, 0 -> “male”, etc
  - Make a few basic exploratory plots to answer your question
- What type of basic analysis could you use to address your question?

Submit assignment in R markdown through Github by Sunday @ midnight.