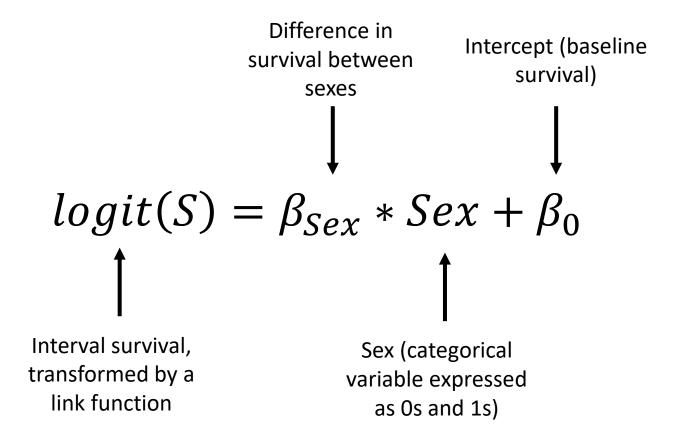


Course review

- Revisions
 - Changes to due dates- see Brightspace
 - No revisions for Labs 8 and 9
 - Submit as an email to Marcos

Last week- Categorical variables



Continuous variables

Difference in survival with each increment of precipitation

$$logit(S) = \beta_{precip} * Precip + \beta_0$$

Continuous numeric variable

Continuous variables

$$logit(S) = \beta_{precip} * Precip + \beta_0$$
$$logit(S) = -0.2 * 0.5in + \beta_0$$

Rain in a given month

Continuous variables

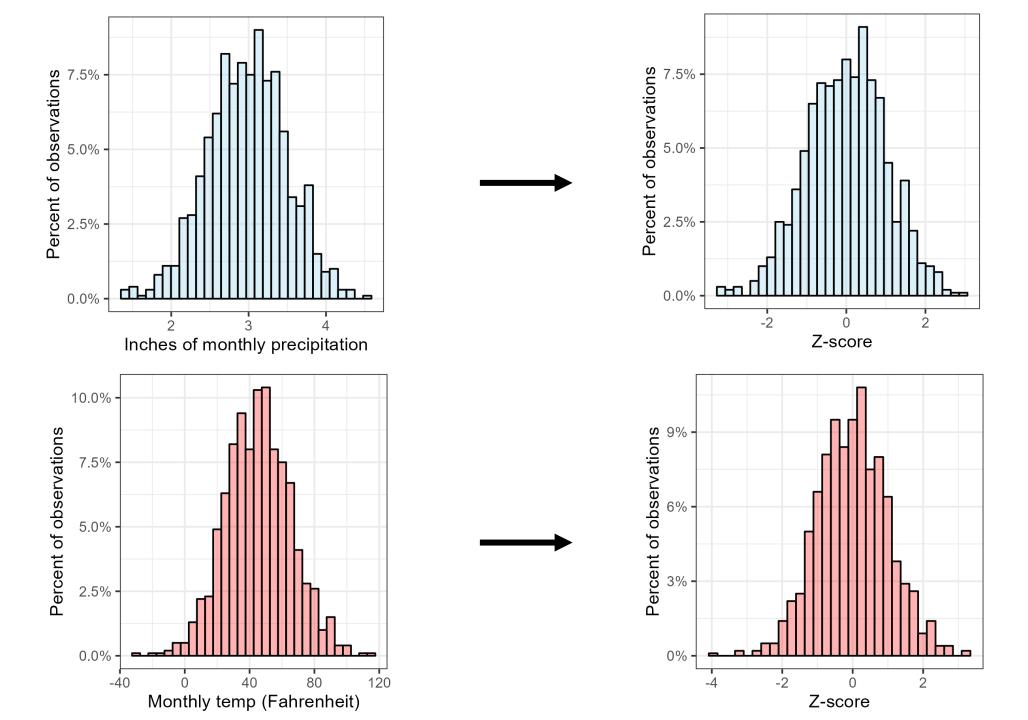
$$logit(S) = \beta_{precip} * Precip + \beta_0$$

$$logit(S) = -0.2 * 0.5in + \beta_0$$

For every additional in of rain, survival decreases by 0.02

Comparing continuous covariates

- We have two continuous covariates
 - Precipitation- survival decreases by 0.2 for every inch of rain
 - Temperature- survival increases by 0.01 for every degree of temperature
- Both covariates are on different scales
 - Precipitation varies by ±0.5 inches each month
 - Temperature varies by ±20 degrees
- Can we compare the magnitude of their effects on survival?



Z-standardization

- Taking covariates with different scales, such as inches of precipitation and degrees, and putting them on a common scale
- Z-standardized distributions have two common characteristics:
 - Mean of 0
 - Standard deviation of 1
- After z-standardization, the betas of our continuous covariates are comparable

Assignment

- Write up a Results section including your results for Labs 6 & 7
- This has historically been a difficult assignment
 - Ensure that every sentence ending with a ? in the assignment text is addressed in your results
 - Choose figures and tables that you think support your results, and follow formatting conventions
 - Due in two weeks, but don't wait until the last minute

Assistance

- No office hours on Thanksgiving week
- Don't hesitate to send emails if you have questions, but responses may be delayed during the break