**Poisson Regression Homework**

1. thanks ~ Poisson( exp( β0 + β­1year + β­2words + β­3Actress + β­4BestPicture ))

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| Poisson Model Coefficients and Standard Errors | | |
| Variable | Coefficient | SE |
| (Intercept) | -27.2226 | 3.8716 |
| year | 0.0142 | 0.0020 |
| words | 0.0023 | 0.0003 |
| typeActress | 0.1798 | 0.0777 |
| typeBestPicture | 0.1421 | 0.0779 |

1. For each future year, we estimate the mean number of ‘thanks’ given in acceptance speeches at the Oscars to increase by 1.4% (95% CI: 1.0%, 1.8%), holding all else constant.
2. We wanted to know if there’s a difference in type of award on ‘thankfulness’ or not for acceptance speech givers. After running our analysis, we found the type of award given (Best Picture, Actor, Actress) has no effect on how ‘thankful’ the acceptance speech giver is (p-value = 0.052, χ2 = 5.93).