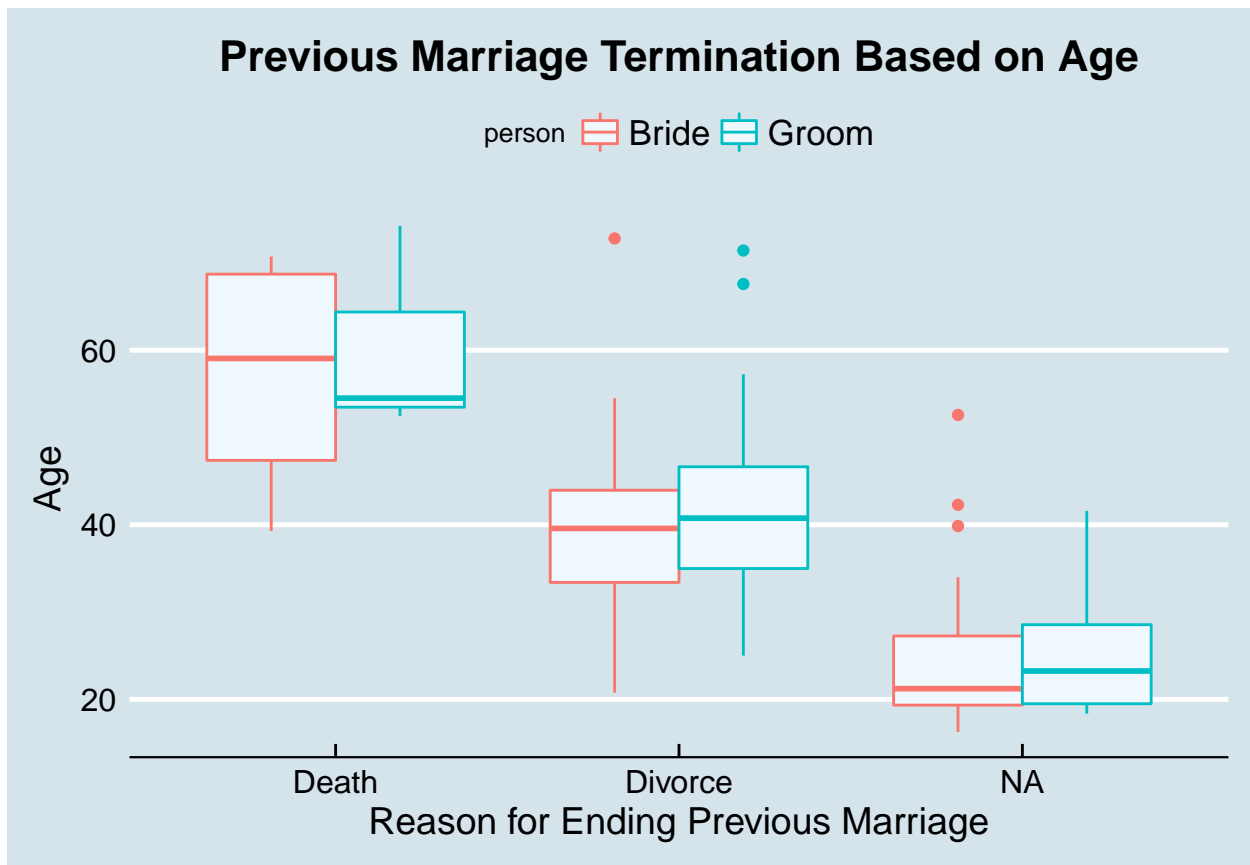


# STAT 209 Project 1

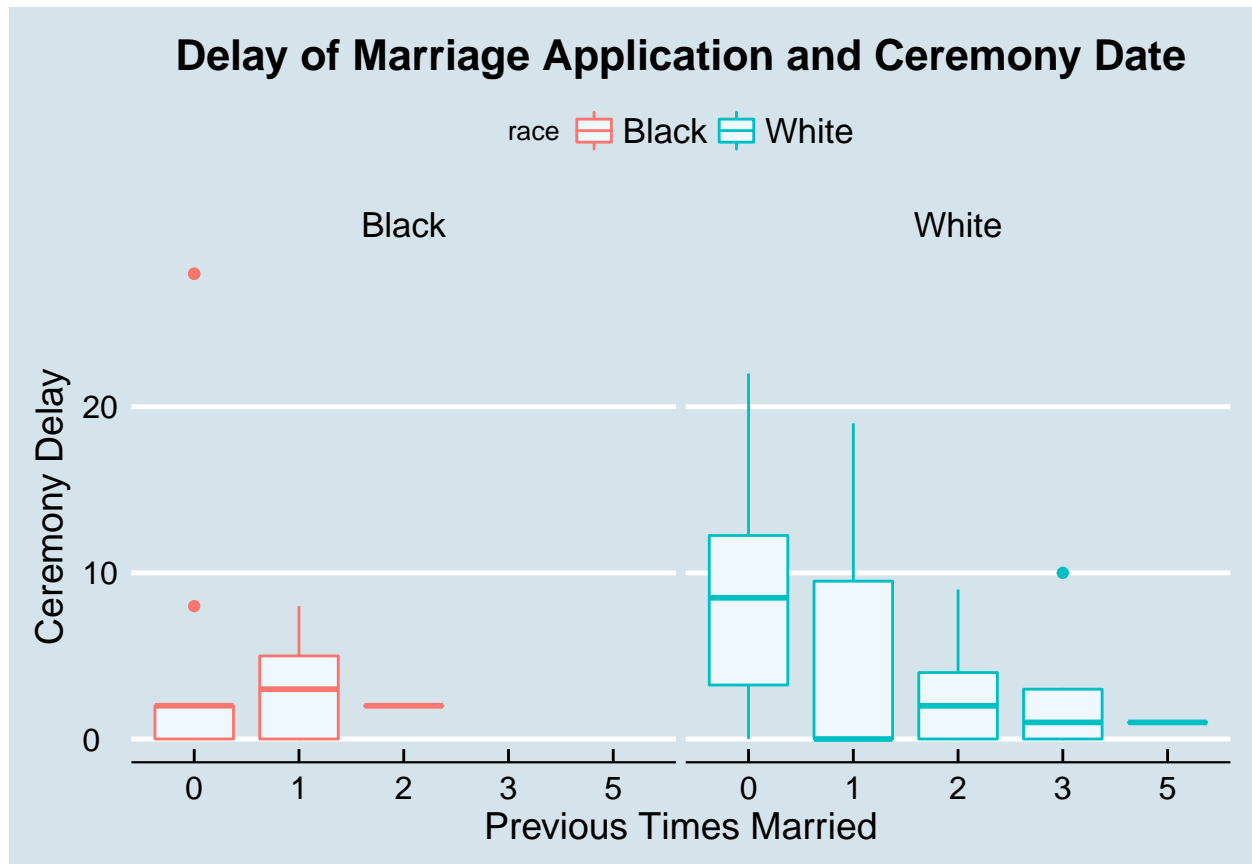
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We are using the `Marriage` dataset provided in R package `mosaicData`. It provides marriage records from the Mobile County, AL probate court between 11/9/96 and 2/6/99. Variables recorded include:

- `age` - age of person
- `college` - number of years in college
- `person` - a factor with levels `Bride` and `Groom`
- `prevconc` - way the last marriage ended
- `prevcount` - number of previous marriages
- `race` - race of person, being American Indian, Black, Hispanic, and White

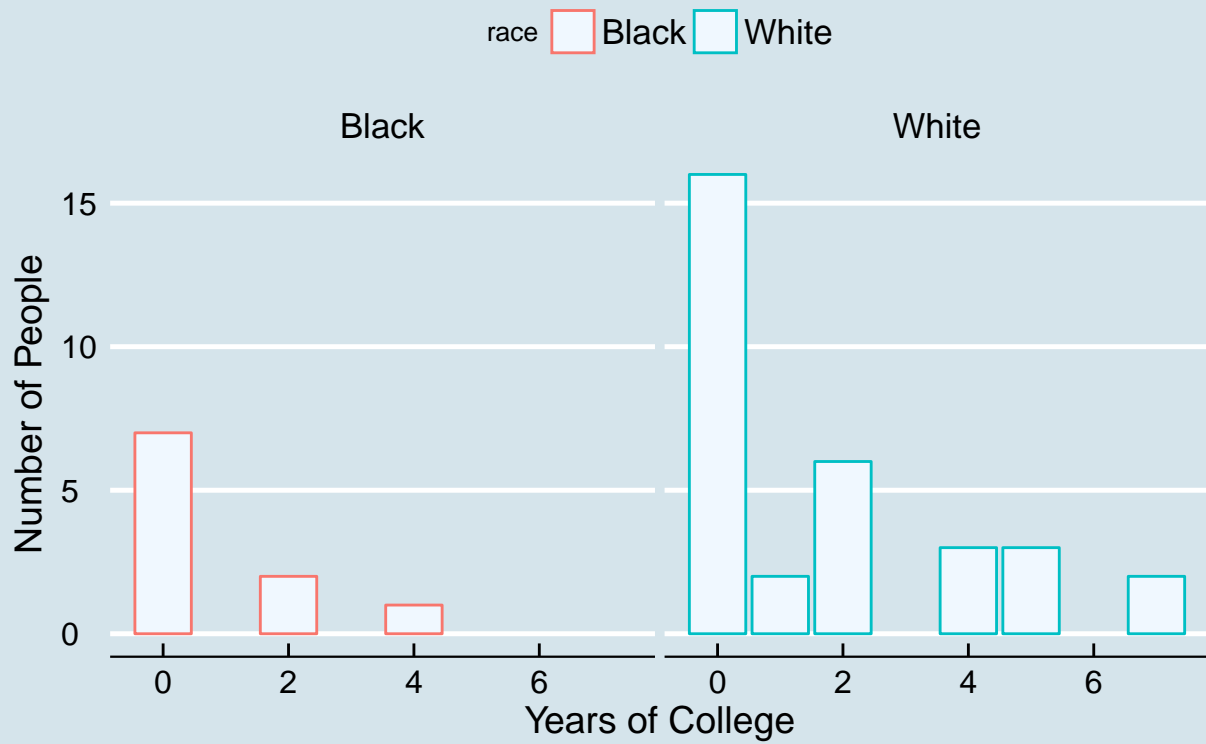


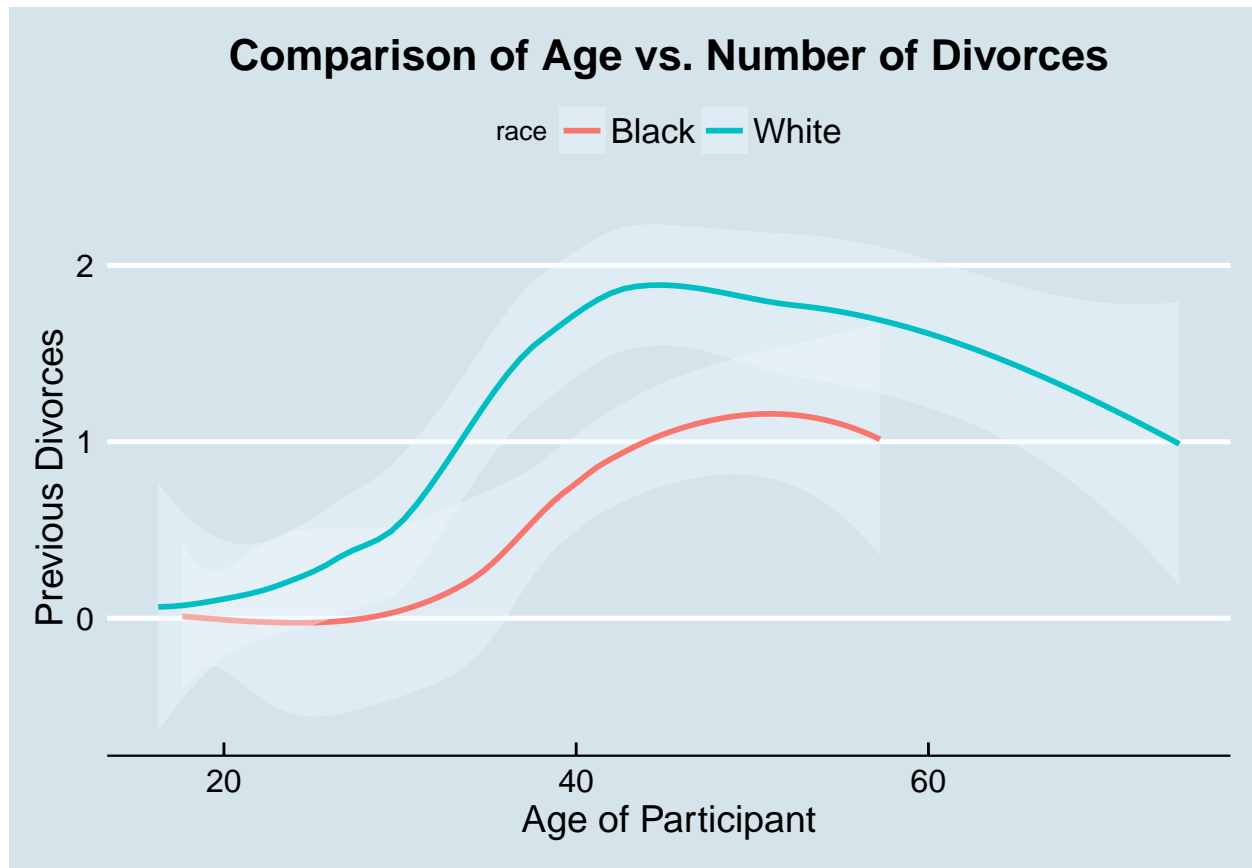
My graph illustrates how reasons for ending previous marriages change by age. I also subdivided my boxplots by gender, with grooms being blue boxplots and brides being pink boxplots. The data shows that, for death being the reason the previous marriage ended, women's age vary more than men's, however have a lower median age. For divorcees, both intervals for men and women are approximately the same size and median age, probably because people in a relationship are usually the same age. The N/A category shows that people who have never had a previous marriage are typically young, regardless of sex.



In this graph, we see the time between marriage ceremonies and the application day is relative to how many times a person was previously married. Originally, we were looking to see if racial discrimination would cause more delays for Blacks, however the opposite was true. Note that for both races, the median delay is fairly low and constant. However, for first-time whites getting married, the delay was longer. The smaller inner quartile range as previous marriages increase is probably due to fewer people with 2 or more previous marriages. A boxplot was chosen to show a range of ceremony delay while showing the most common delay. We also had to use the previous marriages as a factor rather than as a numeric.

## Education When Getting Married





Data shows that older generations have actually had less divorces than younger generations. This suggests that societal norms surrounding divorce have changed from the older to the younger generations. It is expected that the divorces averages should trend up with age but it is unexpected that divorce would be lower for older people from previous generations. Additionally it is interesting to note that divorces among african americans are lower on average than white people. The difference is statistically significant at 40.