

BST270_Final_Proj

2025-01-22

Reproducing “Marriage Isn’t Dead — Yet” Figures

Data are available via on GitHub [<https://github.com/fivethirtyeight/data/tree/master/marriage>].

```
# read in data
both_sexes_df <- read.csv("./data/both_sexes.csv")
divorce_df <- read.csv("./data/divorce.csv")
men_df <- read.csv("./data/men.csv")
women_df <- read.csv("./data/women.csv")

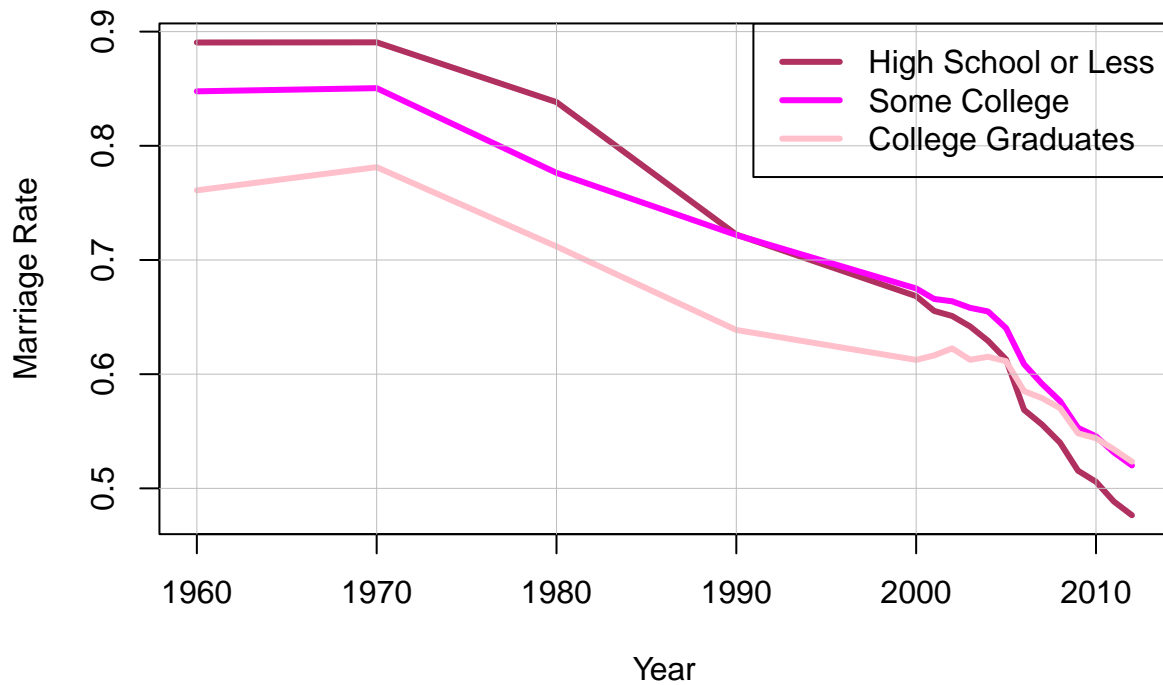
# Filter men.csv
both_sexes_edu_filt_df <- both_sexes_df[, c("year", "HS_2534",
                                             "SC_2534", "BAp_2534")]
both_sexes_edu_filt_df$HS_2534 <- 1- both_sexes_edu_filt_df$HS_2534
both_sexes_edu_filt_df$SC_2534 <- 1- both_sexes_edu_filt_df$SC_2534
both_sexes_edu_filt_df$BAp_2534 <- 1- both_sexes_edu_filt_df$BAp_2534

both_sexes_race_eth_filt_df <- both_sexes_df[, c("year", "White_2534",
                                                  "Black_2534", "Hisp_2534")]
both_sexes_race_eth_filt_df$White_2534 <- 1- both_sexes_race_eth_filt_df$White_2534
both_sexes_race_eth_filt_df$Black_2534 <- 1- both_sexes_race_eth_filt_df$Black_2534
both_sexes_race_eth_filt_df$Hisp_2534 <- 1- both_sexes_race_eth_filt_df$Hisp_2534
```

Figure 1:

```
matplot(both_sexes_edu_filt_df$year, cbind(both_sexes_edu_filt_df$HS_2534,
                                             both_sexes_edu_filt_df$SC_2534,
                                             both_sexes_edu_filt_df$BAp_2534),
        type = "l", lty = 1, lwd=3,
        col = c("maroon", "magenta", "pink"), xlab = "Year",
        ylab = "Marriage Rate", main = "Marriage Rates by Education")
grid(nx = NULL, ny = NULL,
     lty = 1,
     col = "gray",
     lwd = 0.5)
legend("topright", legend = c("High School or Less", "Some College",
                              "College Graduates"),
      col = c("maroon", "magenta", "pink"),
      lty = 1, lwd=3)
```

Marriage Rates by Education



```
matplot(both_sexes_race_eth_filt_df$year, cbind(both_sexes_race_eth_filt_df$White_2534,
                                                both_sexes_race_eth_filt_df$Black_2534,
                                                both_sexes_race_eth_filt_df$Hispanic_2534),

        type = "l", lty = 1, lwd=3,
        col = c("forestgreen", "darkgreen", "lightgreen"), xlab = "Year",
        ylab = "Marriage Rate", main = "Marriage Rates by Race")
grid(nx = NULL, ny = NULL,
     lty = 1,
     col = "gray",
     lwd = 0.5)
legend("topright", legend = c("Non-hispanic White", "Black", "Hispanic"),
     col = c("forestgreen", "darkgreen", "lightgreen"),
     lty = 1, lwd=3)
```

Marriage Rates by Race

