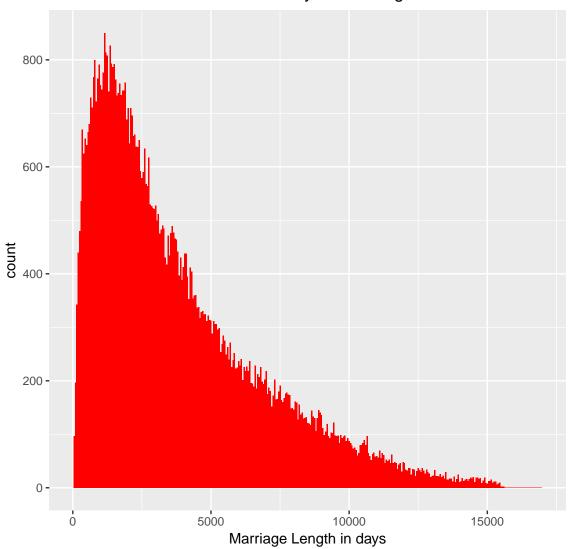
### 2011 - 2013 Divorce in Texas

This is the format of our raw divorce record data:

```
H_NAME H_AGE
## 1 56849 ,ARQIEZ EROCL KA,ES
                                                32
                                                40
## 2 51757 AANEB YAHRA
## 3 48778 AARON BILLY RANDALL JR
                                                25
## 4 109632 AARON CHARLES WAYNE
                                                34
## 5 140705 AARON FIDEL
                                                34
## 6 139134 AARON HUGHES MICHEAL
                                                37
                               W_NAME W_AGE NUM_CHILD MARR_DATE DIV_DATE
## 1 LACEE
                                         24
                                                    2
                                                        12/15/07
                                                                   6/8/11
                                                    1 ?
## 2 CANDAC LYNETTE
                                         30
                                                                  3/27/11
## 3 TAYLOR ANN
                                         21
                                                         6/28/09 5/23/11
                                                    2
## 4 BRANDI DENISE
                                         27
                                                    2
                                                         3/15/03 11/1/11
## 5 HELEN ANDREA
                                         31
                                                    3
                                                      10/31/98 6/17/11
## 6 SALLY ANN
                                         30
                                                        10/13/03 11/18/11
    COUNTY_ID COUNTY_NAME date_diff year_diff
           227
                    TRAVIS 1271 days 3.482192
## 1
## 2
           57
                    DALLAS
                            NA days
                    YOUNG 694 days 1.901370
## 3
           252
## 4
           14
                      BELL 3153 days 8.638356
## 5
           101
                    HARRIS 4612 days 12.635616
                  ANDERSON 2958 days 8.104110
## 6
             1
```

## Warning: Removed 6081 rows containing non-finite values (stat\_bin).

#### Number of Days in Marriage



```
## Warning: NAs introduced by coercion
## Warning: NAs introduced by coercion
## Warning in `[.data.frame`(div11, div11$date_diff > 0 &
## as.numeric(as.character(div11$NUM_CHILD)) > : NAs introduced by coercion
##
## Call:
## lm(formula = y \sim x)
##
## Residuals:
     Min
              1Q Median
                            3Q
  -3.941 -2.712 -0.941 1.288 57.517
##
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
                           0.05053 82.501
                                             <2e-16 ***
## (Intercept) 4.16913
```

0.02632 -8.687

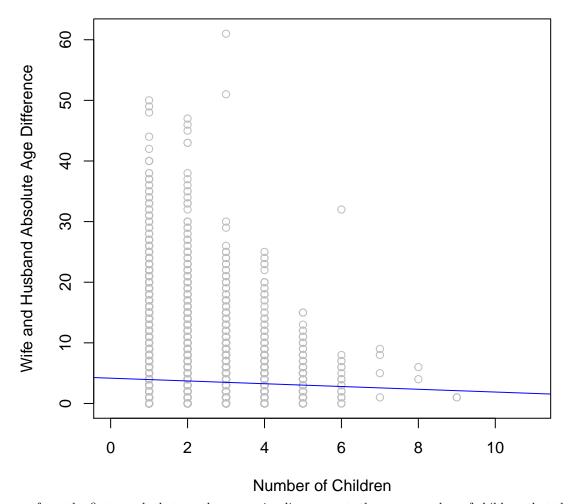
## x

-0.22863

<2e-16 \*\*\*

```
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 4.058 on 32810 degrees of freedom
## (2500 observations deleted due to missingness)
## Multiple R-squared: 0.002295, Adjusted R-squared: 0.002264
## F-statistic: 75.47 on 1 and 32810 DF, p-value: < 2.2e-16</pre>
```

#### tween absolute age difference between wife and husband and nur



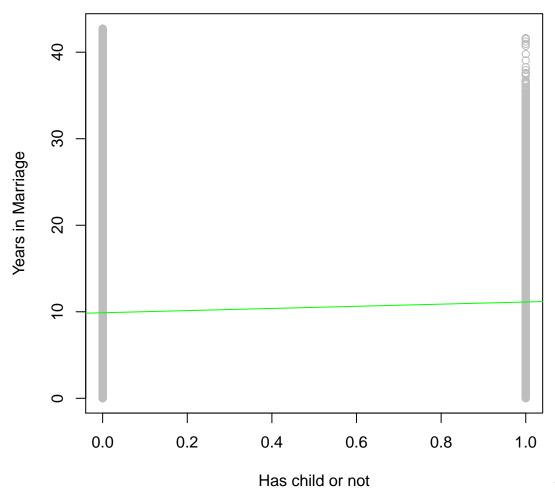
We can

see from the first graph that, as the regression line suggest, the more number of children that the family has, the less difference there is in their age.

```
## Warning: NAs introduced by coercion
##
## Call:
## lm(formula = y2 ~ x2)
##
## Residuals:
##
       Min
                 1Q
                     Median
                                  3Q
                                         Max
                     -2.448
                               4.092
                                      32.851
##
   -11.127
            -6.291
##
## Coefficients:
```

```
##
               Estimate Std. Error t value Pr(>|t|)
               9.88550
                           0.04059
                                    243.57
                                             <2e-16 ***
## (Intercept)
## x2TRUE
                1.24467
                           0.05987
                                     20.79
                                             <2e-16 ***
##
                    '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## Signif. codes:
##
## Residual standard error: 8.268 on 76789 degrees of freedom
     (6147 observations deleted due to missingness)
## Multiple R-squared: 0.005597,
                                    Adjusted R-squared: 0.005584
## F-statistic: 432.2 on 1 and 76789 DF, p-value: < 2.2e-16
```

#### **Relation between Marriaged Years and Child**



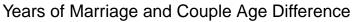
We can see

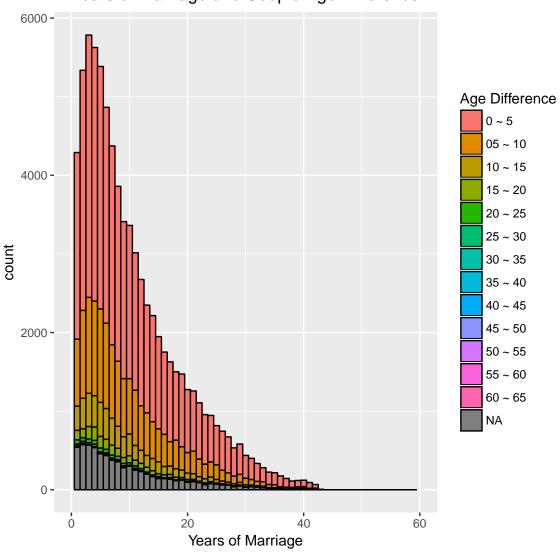
from the regression that couple with longer marriaged years has a slightly bigger chance of having at least one child.

## Warning: NAs introduced by coercion

## Warning: NAs introduced by coercion

## Warning: Removed 6081 rows containing non-finite values (stat\_bin).

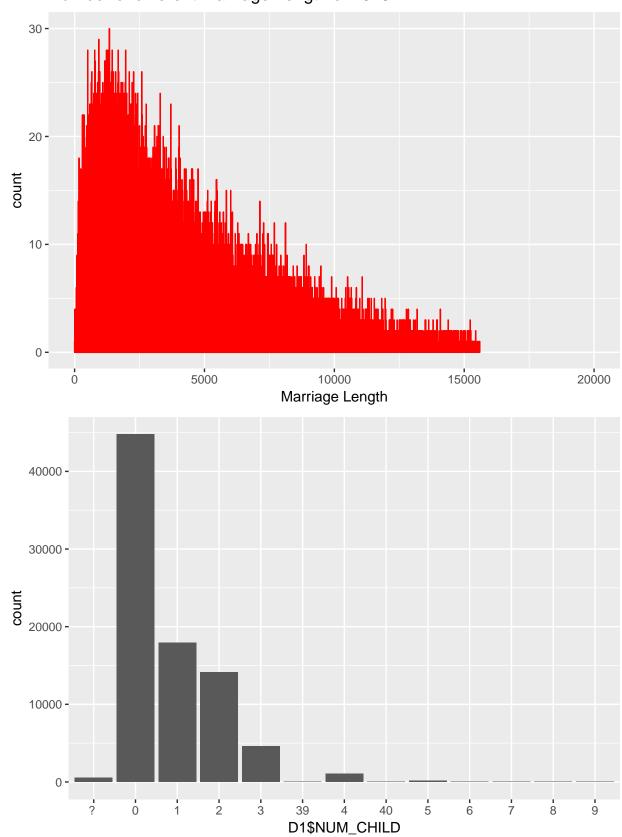




Marriage length of year 2013

## Warning: Removed 6081 rows containing non-finite values (stat\_count).

## Number of different Marriage Length of 2013



# div11 by Month

