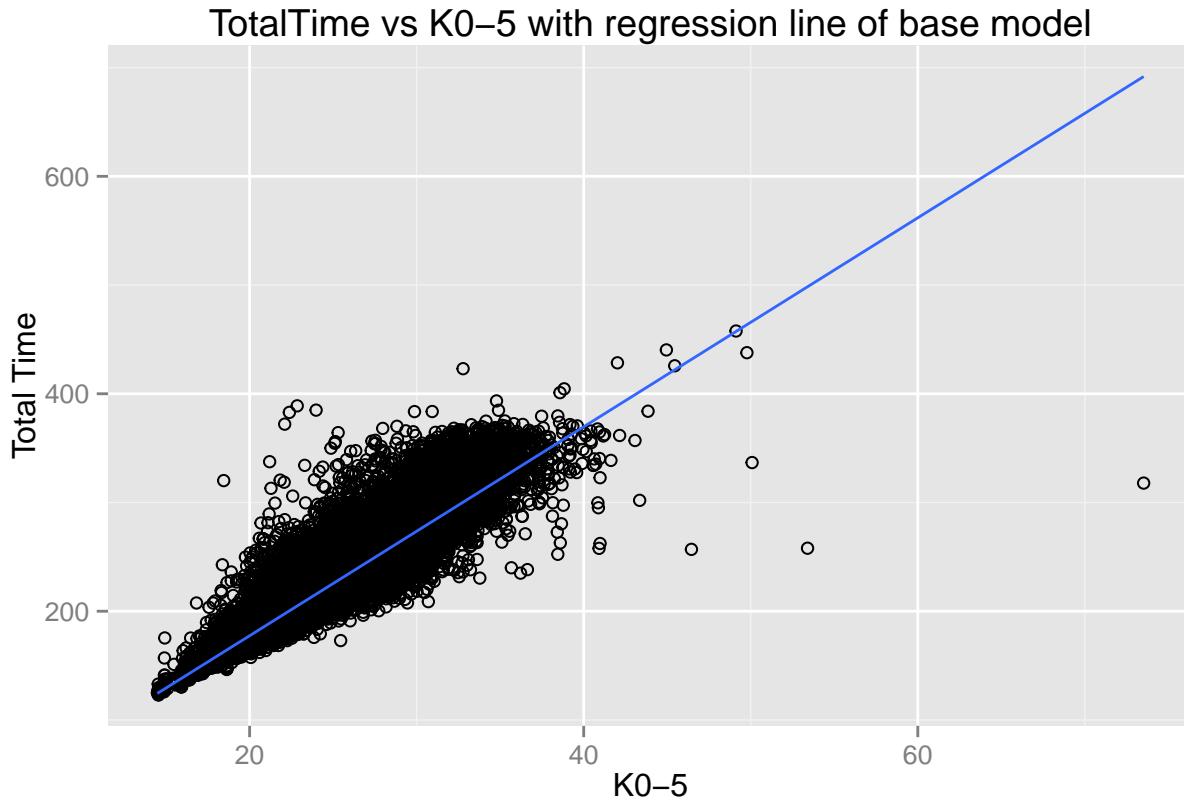


# Plot

Using the base regression model `lm(totaltime ~ Age+Gender1F2M+K0.5)`,  
the equation of the filled regression line is

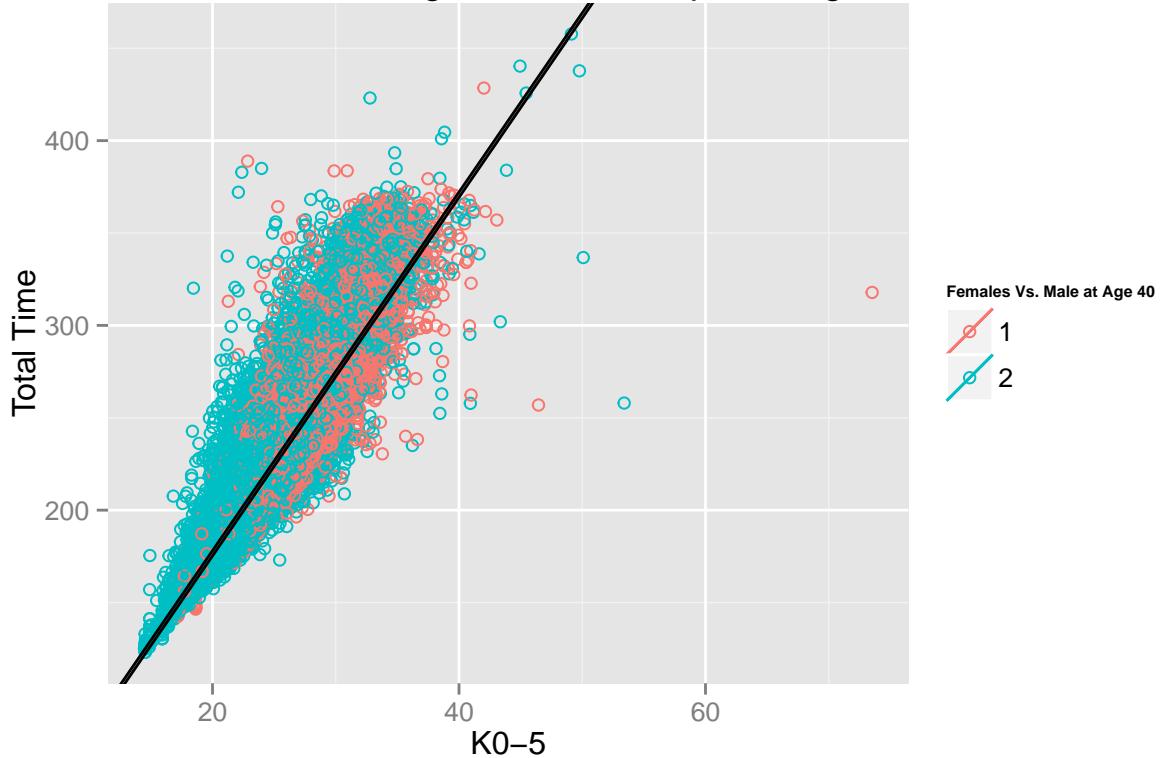
```
## [1] "TotalTime = -24.64 + 0.074*AGE + 2.847*Gender1F2M + 9.703*K0-5 "
```

The plot of TotalTime vs first K0-5 split time with regression line of base model is seen as below



Next, we plot the regression line of females vs. males at age 40 based on the base regression model. The plot suggest the slopes are nearly identical as they are overlapping.

### Female Vs. Male regression line slopes at age 40



Note:

If you add extra noise to the male intercept, you can actually see that its two different lines.