Professional Development Task

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(ggplot2)
x <- read.csv("~/desktop/FinalCountyData.csv", stringsAsFactors = FALSE)
x <- na.omit(x)</pre>
```

Including Plots

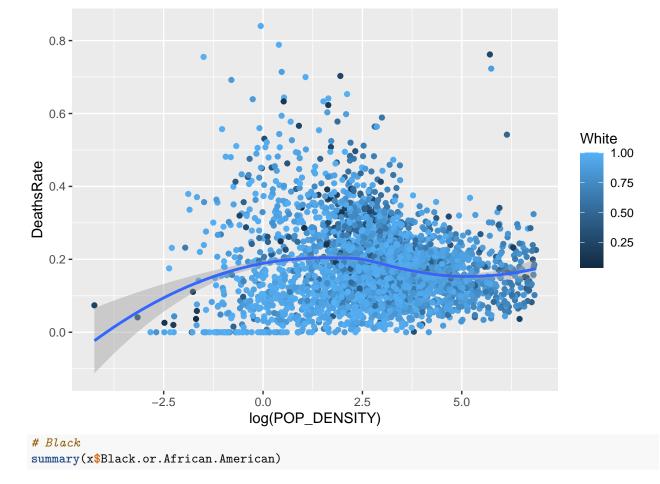
You can also embed plots, for example:

```
# White
summary(x$White)

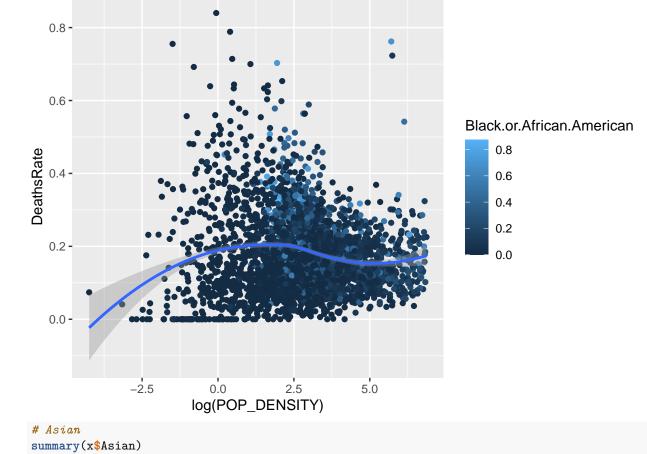
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.03891 0.76841 0.89660 0.83154 0.95071 1.00000

pd_1000 <- x[x$POP_DENSITY < 1000, ]
qplot(log(POP_DENSITY), DeathsRate, data = pd_1000, colour = White) +
    stat_smooth(method="loess")

## `geom_smooth()` using formula 'y ~ x'</pre>
```

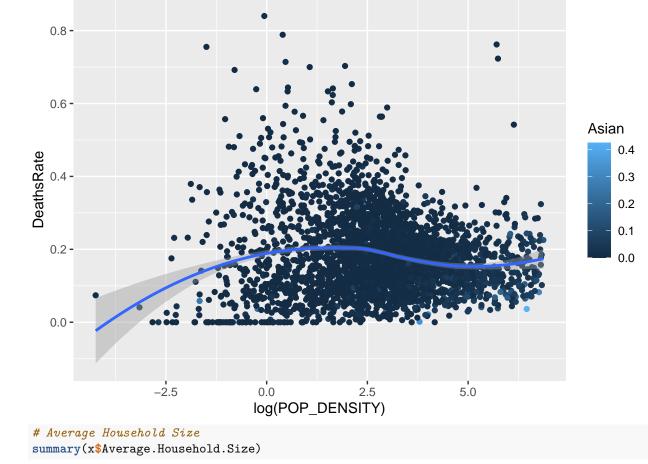


$geom_smooth()$ using formula 'y ~ x'



```
Min. 1st Qu.
                      Median
                                 Mean 3rd Qu.
## 0.000000 0.002904 0.006029 0.013546 0.012996 0.425107
pd_1000 <- x[x$POP_DENSITY < 1000, ]
qplot(log(POP_DENSITY), DeathsRate, data = pd_1000,
     colour=Asian) + stat_smooth(method="loess")
```

$geom_smooth()$ using formula 'y ~ x'



```
# Average Household Size
summary(x$Average.Household.Size)
```

```
##
     Min. 1st Qu. Median
                              Mean 3rd Qu.
                                              Max.
##
     1.340
             2.350
                     2.480
                             2.519
                                     2.630
                                             4.970
pd_1000 <- x[x$POP_DENSITY < 1000, ]
qplot(log(POP_DENSITY), DeathsRate, data = pd_1000,
      colour=Average.Household.Size) + stat_smooth(method="loess")
```

`geom_smooth()` using formula 'y ~ x'

