

# ANALY 502

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Week 1 HW

## Obtaining Data & adding a total column

```
source("http://www.openintro.org/stat/data/arbuthnot.R")
arbuthnot$total<-arbuthnot$boys+arbuthnot$girls
head(arbuthnot)
```

```
##   year boys girls total
## 1 1629 5218  4683  9901
## 2 1630 4858  4457  9315
## 3 1631 4422  4102  8524
## 4 1632 4994  4590  9584
## 5 1633 5158  4839  9997
## 6 1634 5035  4820  9855
```

## Including Plots

```
plot(x = arbuthnot$year,
     y = arbuthnot$boys,type = 'l',
     col='#3734eb',
     xlab = 'Year',
     ylab = 'Number of Children',
     main="Arbuthnot Data",
     ylim = c(2500,20000),
     lwd = 2)
par(new=TRUE)
lines(x = arbuthnot$year,y = arbuthnot$girls,type = 'l',col='#eb345f',lwd=2)
lines(x= arbuthnot$year,y=arbuthnot$total,type = 'l',col='#c603fc',lwd=3)

legend("topleft",
      c("Boys","Girls","Total Children"),
      fill=c("#3734eb","#eb345f","#c603fc")
)
```

## Arbuthnot Data

