Introduction to Code Chunks

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## Summarize the USArrests Data Frame

data(USArrests)  
summary(USArrests)

## Murder Assault UrbanPop Rape   
## Min. : 0.800 Min. : 45.0 Min. :32.00 Min. : 7.30   
## 1st Qu.: 4.075 1st Qu.:109.0 1st Qu.:54.50 1st Qu.:15.07   
## Median : 7.250 Median :159.0 Median :66.00 Median :20.10   
## Mean : 7.788 Mean :170.8 Mean :65.54 Mean :21.23   
## 3rd Qu.:11.250 3rd Qu.:249.0 3rd Qu.:77.75 3rd Qu.:26.18   
## Max. :17.400 Max. :337.0 Max. :91.00 Max. :46.00

head(USArrests)

## Murder Assault UrbanPop Rape  
## Alabama 13.2 236 58 21.2  
## Alaska 10.0 263 48 44.5  
## Arizona 8.1 294 80 31.0  
## Arkansas 8.8 190 50 19.5  
## California 9.0 276 91 40.6  
## Colorado 7.9 204 78 38.7

## Add Variables to USArrests

USArrests$Murder\_Diff<-USArrests$Murder-mean(USArrests$Murder)  
USArrests$Rape\_Diff<-USArrests$Rape-mean(USArrests$Rape)  
USArrests$Assault\_Diff<-USArrests$Assault-mean(USArrests$Assault)  
summary(USArrests)

## Murder Assault UrbanPop Rape   
## Min. : 0.800 Min. : 45.0 Min. :32.00 Min. : 7.30   
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## Median : 7.250 Median :159.0 Median :66.00 Median :20.10   
## Mean : 7.788 Mean :170.8 Mean :65.54 Mean :21.23   
## 3rd Qu.:11.250 3rd Qu.:249.0 3rd Qu.:77.75 3rd Qu.:26.18   
## Max. :17.400 Max. :337.0 Max. :91.00 Max. :46.00   
## Murder\_Diff Rape\_Diff Assault\_Diff   
## Min. :-6.988 Min. :-13.932 Min. :-125.76   
## 1st Qu.:-3.713 1st Qu.: -6.157 1st Qu.: -61.76   
## Median :-0.538 Median : -1.132 Median : -11.76   
## Mean : 0.000 Mean : 0.000 Mean : 0.00   
## 3rd Qu.: 3.462 3rd Qu.: 4.943 3rd Qu.: 78.24   
## Max. : 9.612 Max. : 24.768 Max. : 166.24