Graphics

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```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.6.2
```

```
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 3.6.2
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --
```

```
## v tibble  3.1.4     v dplyr   1.0.7
## v tidyr   1.1.3     v stringr 1.4.0
## v readr   2.0.1     v forcats 0.5.1
## v purrr   0.3.4
```

```
## Warning: package 'tibble' was built under R version 3.6.2
```

```
## Warning: package 'tidyr' was built under R version 3.6.2
```

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## Warning: package 'readr' was built under R version 3.6.2
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## Warning: package 'purrr' was built under R version 3.6.2
```

```
## Warning: package 'dplyr' was built under R version 3.6.2
```

```
## Warning: package 'forcats' was built under R version 3.6.2
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
##Create the following graphs in `ggplot2`.

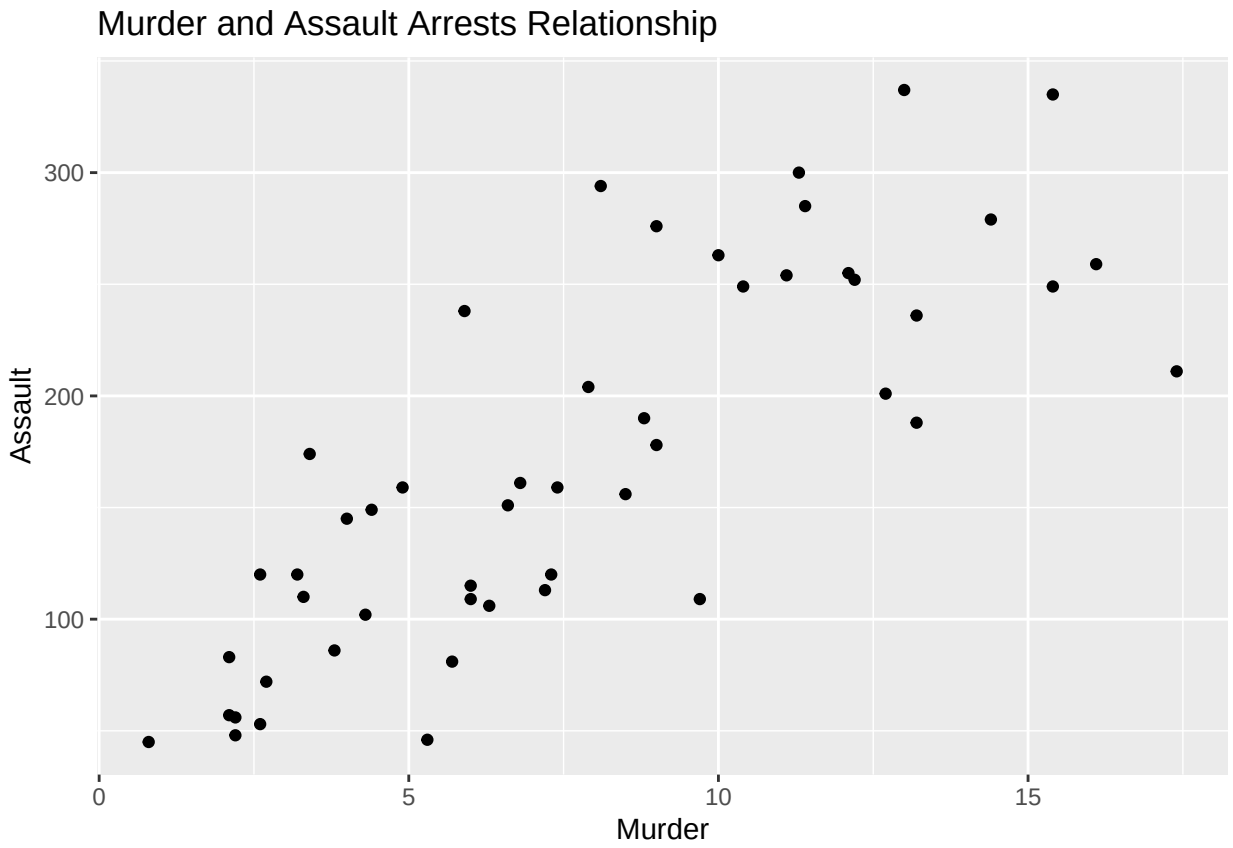
##Check out the base R built-in dataset, `data("USArrests")`.

data("USArrests")
head("USArrests")
```

```
## [1] "USArrests"
```

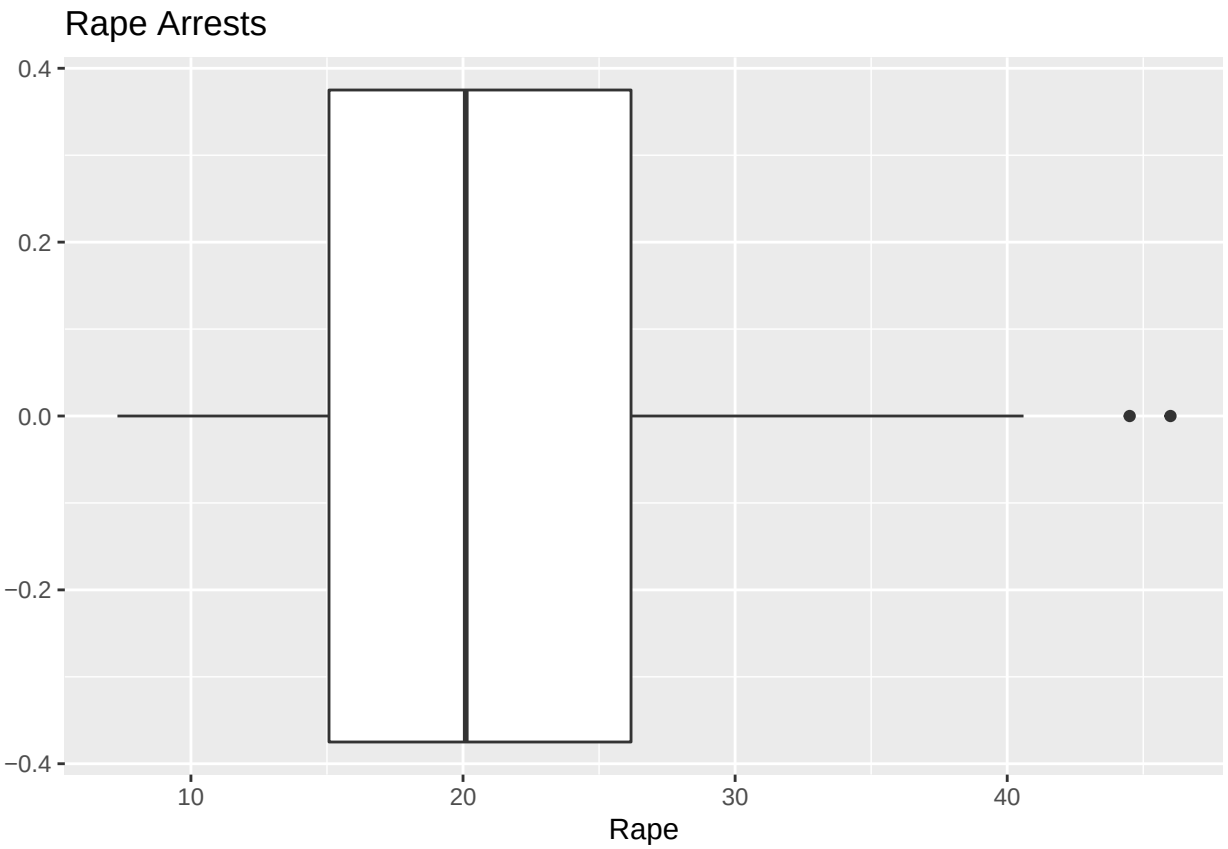
```
##Create a scatterplot that looks at the correlation between murder and assault arrests. Label the x an

ggplot(USArrests, aes(x=Murder, y=Assault)) + geom_point() + labs(title="Murder and Assault Arrests Rel
```



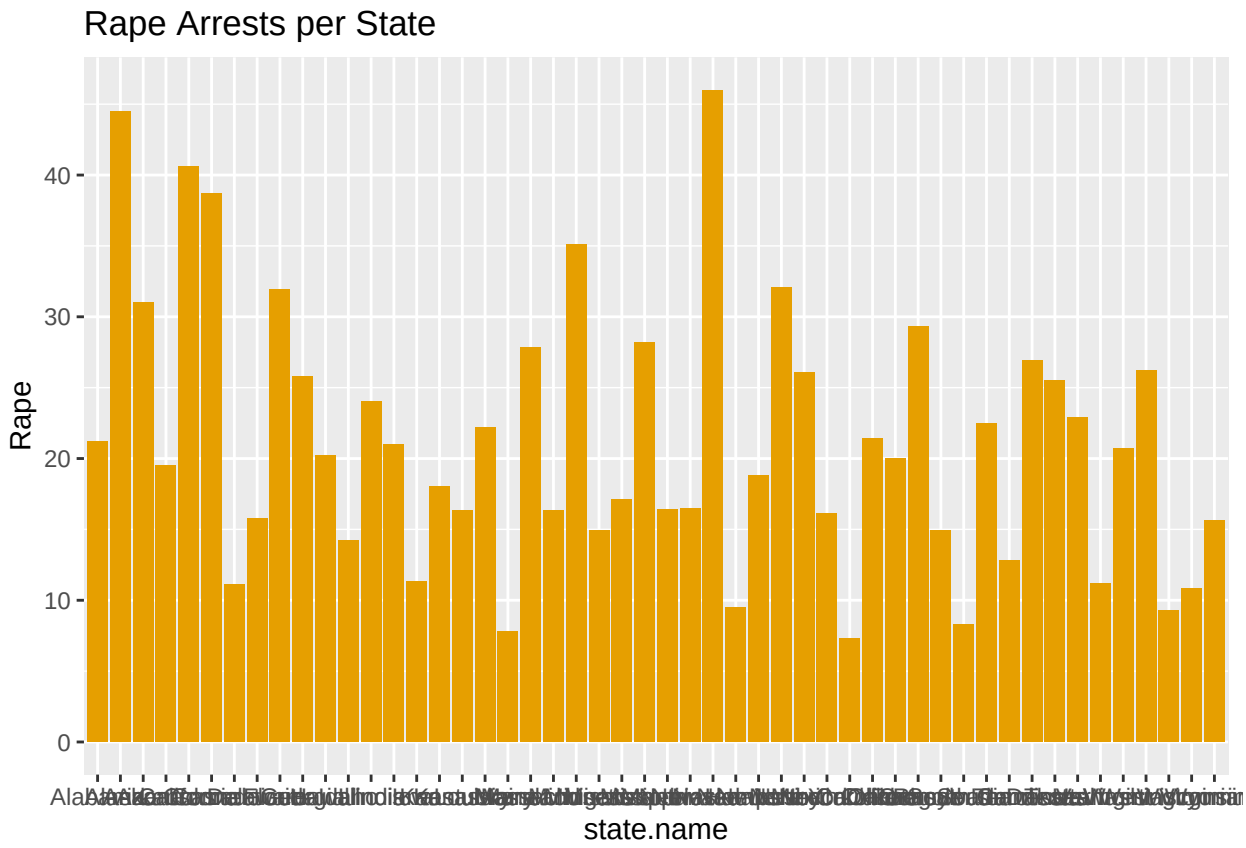

```
##Create a boxplot of rape arrests. Label the plot.

ggplot(USArrests, aes(x=Rape)) + geom_boxplot() + labs(title="Rape Arrests")
```




```
##Create a barplot of the number of rape arrests per state.

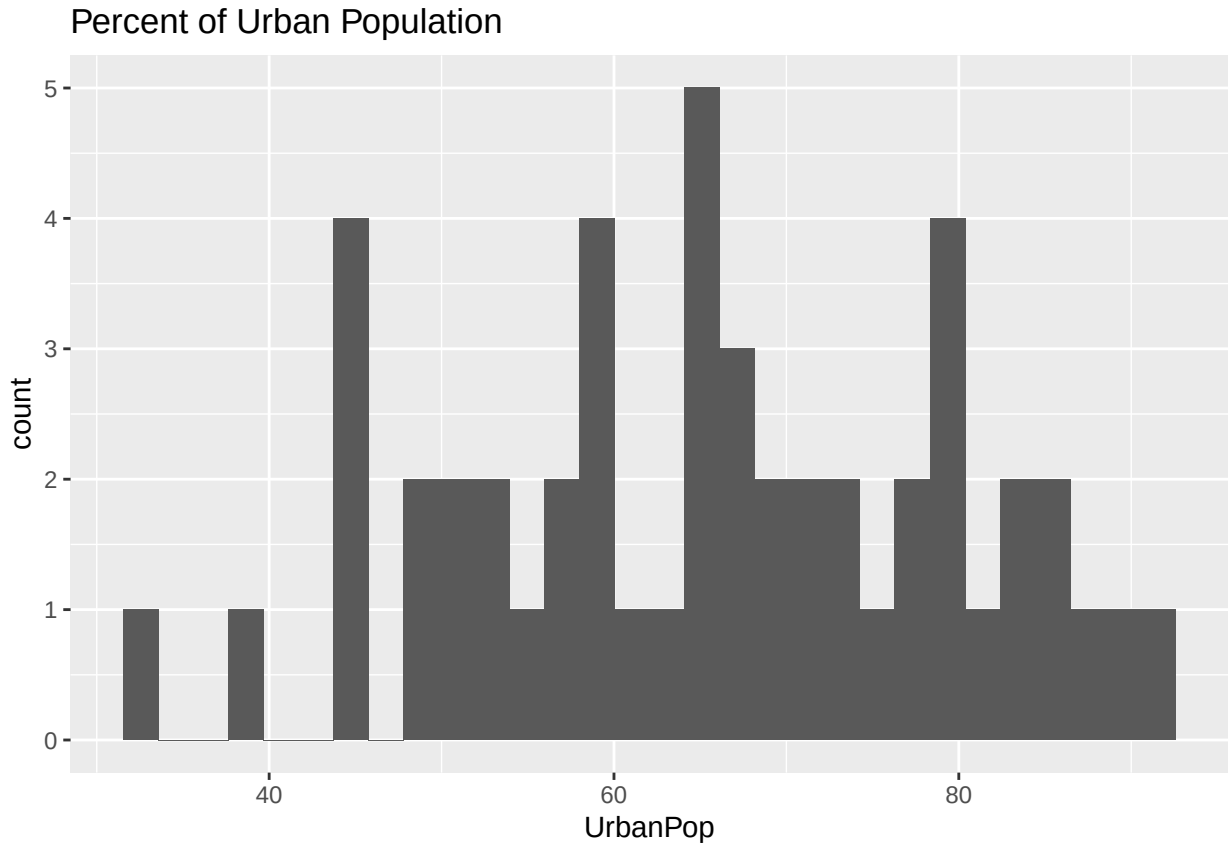
ggplot(USArrests, aes(x=state.name, y=Rape)) + geom_bar(stat="identity", fill="#E69F00") + labs(title="
```




```
##Create a histogram for the percent of urban population.

ggplot(USArrests, aes(x=UrbanPop)) + geom_histogram() + labs(title="Percent of Urban Population")
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```


Percent of Urban Population
count
0
1
2
3
4
5
40
60
80
UrbanPop